

# Long Branch Creek Watershed

## Best Managements Practices (BMP) Recommendations Report

### Final Project Deliverable

September 28, 2012

#### Prepared For:



Pinellas County  
Watershed Management Division  
300 South Garden Avenue  
Clearwater, Florida 33756

#### In Cooperation with:



#### Prepared by:

Cardno TBE  
20203 Cortez Blvd  
Brooksville, FL 34601



#### And

Environmental Research & Design, Inc.  
3419 Trentwood Blvd., Suite 102  
Belle Isle (Orlando), FL 32812-4864





September 28, 2012

Ms. Melanie Weed, Project Manager  
Pinellas County Watershed Management Division  
300 S. Garden Avenue  
Clearwater, FL 33756

Cardno TBE

380 Park Place Blvd  
Suite 300  
Clearwater, FL 33759  
USA  
Phone 727 531 3505  
Phone 800 861 8314  
Fax 727 539 1294  
Email tbe@CardnoTBE.com

[www.CardnoTBE.com](http://www.CardnoTBE.com)

Re: Contract 067-0538  
Best Management Practices (BMP) Recommendations Report  
Long Branch Creek Watershed  
Final Project Deliverable

Dear Ms. Weed,

We are pleased to submit the enclosed Best Management Practices (BMP) Recommendations Report for the Long Branch Creek Watershed area of study. This submittal represents the completion of this task and final project deliverable in accordance with our Contract between Cardno TBE and Pinellas County.

We appreciate this opportunity to work with you and look forward to your review of the Long Branch Creek Best Management Practices (BMP) Recommendations Report and many future opportunities.

Should there be any questions regarding this report and analysis, please contact me at your convenience.

Respectfully Submitted,

Nathan Kerr, GISP  
Project Manager  
For Cardno TBE  
Direct Line 727 431-1691

cc: Kelli Levy, Pinellas County  
Larry Fluty, Cardno TBE  
File 00020-178-00

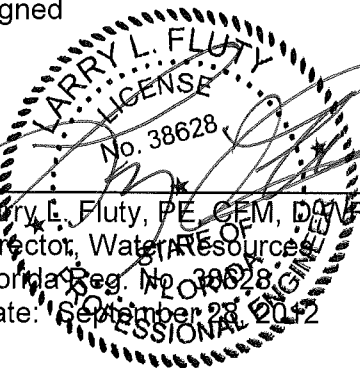
## Best Management Practices (BMP) Recommendations Report

### Long Branch Creek Watershed

#### CERTIFICATION

I hereby certify that all work accomplished in the conduct of this Study was done in accordance with Agreement No. 067-0538, Long Branch Creek Watershed Study and all amendments thereto, together with all such modifications, either written or oral, as the Contracting Officer or their representatives have directed, as such modifications affect this contract, and that all such work has been accomplished in accordance with sound and accepted engineering practice within the contract provisions for respective phases of the work.

Signed



Larry L. Fluty, PE, CEM, DAVRE  
Director, Water Resources  
Florida Reg. No. 38628  
Date: September 28, 2012

# Table of Contents

## Executive Summary

### Section 1 Nutrient Management BMP Recommendations

- 1.1 Significance of Groundwater Inflows
- 1.2 BMP Considerations
  - 1.2.1 Wet Detention Systems
  - 1.2.2 Pervious Pavement
  - 1.2.3 Bio-Retention
  - 1.2.4 Stormwater Harvesting
  - 1.2.5 Filter/Buffer Strips
  - 1.2.6 Bio-Swales
  - 1.2.7 Inlet Filters
  - 1.2.8 Sediment Traps
  - 1.2.9 Education and Outreach
- 1.3 Tributary Site 4 Inflow
- 1.4 Main Channel East of US 19
- 1.5 Main Channel between Sites 14 and 16
- 1.6 Tributary Inflow Site 15
- 1.7 General Watershed Maintenance
  - 1.7.1 Street Sweeping
  - 1.7.2 Public Education
- 1.8 Water Quality Improvements Detailed Computations and Summaries

### Section 2 Nutrient Reduction and Water Quality Improvement Recommendations

### Section 3 Stormwater Best Management Practices (BMP) Analysis

- 3.1 Assumptions and Criteria
  - 3.1.1 Overall Project Assumptions
  - 3.1.2 Methodology for Development of BMP Opinion of Probable Costs
  - 3.1.3 Regulatory Considerations
- 3.2 Best Management Practices (BMP) Descriptions
- 3.3 BMPs Model Evaluation, Results and Recommendations

## Appendices

- Appendix A BMP Sketches, Costs and Water Quality Analysis Tables
- Appendix B BMP Model Results





## Executive Summary

### Water Quality

The Long Branch Creek watershed is located in central Pinellas County and covers an area of approximately 1,808 acres. The drainage basin is located in a highly urbanized area of Pinellas County, with approximately 75% of the basin consisting of residential and commercial land use. The Long Branch Creek watershed originates west of Belcher Road and aligns in a southwest-to-northeast direction ultimately discharging into Old Tampa Bay. The total channel length is approximately 3.3 miles with an additional 2.6 miles of conveyance channels intersecting with the main channel and contributing inflows from perimeter portions of the drainage basin. The vast majority of the creek consists of earthen open channels with underground storm sewers used to convey runoff beneath roadways and other obstructions.

Pinellas County has experienced rapid growth over the past 20 years, and much of the basin has reached built-out conditions. A large portion of the drainage basin was developed prior to implementation of regulatory requirements for construction of stormwater management systems and therefore a significant volume of untreated runoff is directly discharged into the Creek and ultimately Old Tampa Bay. Western portions of the Long Branch Creek basin (comprising approximately one-third of the total basin area) are located within the City of Largo, with the remaining eastern portions (which comprise the majority of the overall area) located within unincorporated Pinellas County.

The vast majority of soils within the Long Branch Creek drainage basin consist of deep sandy soils which exhibit a high runoff potential in an undeveloped state and a low runoff potential in a developed state. Under the current developed conditions, much of the rainfall infiltrates into the groundwater which decreases the total runoff volume.

Freshwater portions of the Long Branch Creek watershed (WBID 1627) are included on the FDEP-verified list as impaired for dissolved oxygen and total/fecal coliform bacteria. An EPA-proposed TMDL for total/fecal coliform bacteria was published by EPA in 2005 but has not been adopted by FDEP. Tidal portions of Long Branch Creek (identified as WBID 1627b) are also included on the verified-impaired list for dissolved oxygen and fecal coliform bacteria.

Historical water quality monitoring data have been collected by both Pinellas County and FDEP within the Long Branch Creek watershed. Seven sites have been monitored by Pinellas County as part of the ongoing ambient water quality monitoring program, with six of these sites located in the freshwater portion of the watershed and one site located in the tidal portion of the watershed. Water quality data in Long Branch Creek have been collected by FDEP at a total of six monitoring sites, beginning as early as 2002. However, the data collected by FDEP are extremely limited, with much of it collected during a single calendar year.

Historic measured concentrations of nitrogen species in Long Branch Creek have been low to moderate in value at the Pinellas County monitoring sites, with the majority of the total nitrogen comprised of organic nitrogen. Trend analyses suggest a statistically significant

decrease in total nitrogen concentrations over time. Measured concentrations of phosphorus species in Long Branch Creek have been moderate to elevate in value at the Pinellas County monitoring sites, with a large portion of the total phosphorus contributed by dissolved SRP. No statistically significant trend is apparent in measured total phosphorus concentrations from 1995-2008.

Measured dissolved oxygen concentrations with Long Branch Creek have been highly variable; with concentrations in the freshwater portion of the basin ranging from 0.1-12.8 mg/l. Dissolved oxygen concentrations are frequently observed which is less than the minimum Class III criterion of 5 mg/l in the freshwater portion of the basin. Highly variable concentrations of total coliform, fecal coliform, and enterococcus bacteria have been highly variable at each of the monitoring sites, with frequent exceedances of the applicable Class III criteria for the measured bacteria groups. Microbiological contamination in Long Branch Creek appears to represent a significant ongoing water quality problem.

A USGS flow recording station is located near the center of the Long Branch Creek watershed, south of Roosevelt Blvd., with discharge data available from October 2003 to the present. Discharge rates in Long Branch Creek are typically less than 4-5 cfs, with higher discharge rates observed during significant rain events. Approximately half of the estimated annual discharges through Long Branch Creek are a result of direct stormwater runoff, with the remaining discharges resulting from baseflow which consists primarily of groundwater inputs.

Virtually all areas within the Long Branch Creek watershed currently utilize centralized sewer systems for wastewater disposal, although a small number of operational septic tank systems still exist within the Long Branch Creek watershed. Irrigation with reclaimed water does not appear to occur within the Long Branch Creek watershed.

A field monitoring program was conducted by ERD from October 2010-January 2011 within Long Branch Creek to characterize the quantity and quality of discharges through the watershed area. Eighteen surface water sites were monitored on approximately a bi-weekly basis which included measurements of field parameters, discharge rate, and sample collection for laboratory analyses. Five separate monitoring events were conducted at each site. Each of the collected samples was analyzed in the ERD Laboratory for general parameters and nutrients, and aliquots of each collected sample was shipped to the Colorado Plateau Stable Isotope Laboratory for isotope analyses of oxygen and nitrogen. Twelve of the monitoring sites used by ERD were located along the main stem of Long Branch Creek, with six sites reflecting tributary inflows into the channel.

Rainfall during the field monitoring program was substantially less than normal during the initial three months covering the period from October-December 2010, with higher than normal rainfall observed during the final month of the monitoring program in January 2011. Measured discharge rates at each of the 18 monitoring sites were typically low in value during the initial four monitoring events, with substantially higher discharge rates measured during the final monitoring event on January 18, 2011 which occurred following a significant rain event within the watershed.

Measured concentrations of total nitrogen in Long Branch Creek were found to be substantially lower in value than total nitrogen concentrations measured by ERD in Roosevelt Creek and Klosterman Bayou, and appear to be similar in value to values measured along Joes Creek by

ERD from July-September 2008. Measured total phosphorus concentrations in Long Branch Creek appear to be similar to values measured by ERD in Roosevelt Creek and Joes Creek, and substantially less than total phosphorus concentrations measured in Klosterman Bayou. Measured TSS concentrations in Long Branch Creek are lower in value than concentrations measured by ERD in Roosevelt Creek, Joes Creek, or Klosterman Bayou.

Under low flow conditions, moderate to elevated and highly variable concentrations of nitrogen species were observed in the northern and southern headwater segments. However, nitrogen concentrations along the main channel were typically lower in value and relatively consistent at each of the four main channel monitoring sites. Inputs into the main channel or upstream segments from the monitored tributary inflows do not appear to have significant impacts on water quality characteristics. A similar pattern is also apparent for measured phosphorus species, with low to moderate concentrations in the northern and southern segments with a high degree of variability in measured values. Within the main channel, phosphorus concentrations appear to be less variable, with a general trend of increasing phosphorus concentrations with increasing distance during most events.

Under high flow conditions (like that which occurred on January 18, 2011), measured concentrations for virtually all parameters were elevated compared with concentrations measured under low flow conditions. Highly variable concentrations were observed for virtually all measured parameters in the northern and southern upstream segments, with more consistent values measured along the main channel. The majority of measured parameters appear to exhibit increases in upper portions of the main channel, followed by decreases in concentrations at the final monitoring sites. Total phosphorus concentrations in the segments and main channel appear to be much higher under high flow conditions than under low flow conditions. With the exception of Site 13 (which reflects an inflow to the main channel), tributary inflow concentrations of total phosphorus appear to be less than concentrations observed in the main channel.

Estimates of mass loadings discharging through the Long Branch Creek watershed were calculated for species of nitrogen, phosphorus, TSS, and fecal coliform bacteria for each of the monitoring sites included in the field monitoring programs. With the exception of the initial monitoring event on October 19, 2010, mass loadings of virtually all parameters were relatively low in value in both the northern and southern segments. No significant trend of either decreasing or increasing loadings is apparent in these segments for a majority of the monitored parameters. Mass loadings at the initial main channel monitoring site appear to be relatively similar during most events to loadings originating within the northern and southern segments. A slight increase or decrease in loading rates occur in mid-portions of the main channel, with a substantial increase in loadings occurring between the final main channel monitoring sites. In most cases, the monitored loadings from the tributary inflows into the main channel do not appear to be sufficient in magnitude to cause the observed increases in mass loadings, and there appear to be additional significant sources of nutrient additions between Sites 14 and 16 other than the monitored tributary inflows.

Under high flow conditions, mass loadings are greater in value in both northern and southern segments as well as the main channel. Mass loadings appear to increase in downstream portions of the northern and southern segments for most parameters. Mass loadings at the initial main channel monitoring site appear to be relatively similar to loadings discharging from the northern and southern segments. A significant increase in loadings occurs between

Sites 11 and 12, followed by a decrease in loadings between Sites 12 and 14. However, a substantial increase in loadings appears to occur between Sites 14 and 16 which cannot be explained by the monitored tributary inflows.

The isotope analyses suggests the presence of manure or sewage in nitrogen sources in at least two of the monitored sites during each of the five sampling events. Monitoring sites with the most consistent isotopic signatures for the presence of manure or sewage included Site 15 (drainage canal along Whitney Road) which indicated the presence of manure or sewage during all five of the monitoring events, and Site 9 (discharge from southern segment into main channel) which indicated nitrogen originating from manure or sewage during four of the five monitoring events. The signature of manure or sewage appears to be inversely correlated with discharge, suggesting that the source of sewage inputs into Long Branch Creek is relatively consistent over time and is diluted during significant rain events within the watershed.

UV absorbances were also conducted on each of the collected samples to identify the presence of non-natural organic materials. The analyses suggest that the presence of non-natural organic materials occurs throughout the entire Long Branch Creek watershed, with the highest concentrations observed in the southern headwater segment, the inflow to the northern headwater segment at Site 4, and tributary inflow at Site 15 which reflects roadside drainage along Whitney Road. The Long Branch Creek watershed is serviced virtually entirely by a sanitary sewer collection system, and although reuse lines run through the watershed area, no application of reuse irrigation is known to occur. Therefore, it appears that pollutant sources within the Long Branch Creek enter primarily as diffuse sources, with groundwater inflows likely to be significant contributors.

### **Watershed Flood Protection and Reduction**

In addition to the evaluation of water quality in the Long Branch Creek, Pinellas County in cooperation with the Southwest Florida Water Management District also asked Cardno TBE to perform engineering analysis, watershed modeling, Best Management Practices (BMP) concept plans and costs associated with the preparation of the stormwater flood reduction BMPs. The Watershed Plan evaluated existing flood prone areas within the Project Area to determine cause and evaluate feasible solutions. The project consists of three primary tasks:

- Data Development
- Flood Plain Analysis
- Best Management Practices

The Master Drainage Plan proposes improvements necessary to the major drainage systems to accommodate the 25-year storm event at a minimum and investigate areas where improvement to flood protection due to the 100 year storm event could be accomplished. The primary drainage conveyance way is Long Branch Creek and extends through the study area in residential areas as well as commercial centers.

The project objectives are:

1. Evaluate the ability of the major drainage outfalls to pass various 1-day (24 hour) rainfall events from the 2.33-year; 5-year; 10-year; 25-year; 50-year and 100-year

2. Evaluate alternatives to improve the capacities of the major drainage outfalls
3. Evaluate alternatives to improve drainage and flood protection at the major drainage outfalls
4. Recommend Best Management Practices (BMP) providing for improvements to the major drainage outfalls
5. Develop conceptual BMP sketches and cost estimates for the recommended improvements

The data collection effort involved gathering, compilation, and review of all pertinent information related to the project area drainage system. The Long Branch Creek Drainage Improvement Plan presents conceptual options to store and convey stormwater through alternative systems along with opinions of probable construction cost for the project alternatives. This study presents these cost opinions in context with the project benefits and with meeting project objectives.

Each alternative was evaluated along several alignment scenarios and conveyance methods such as channels, culverts or stormwater ponds. The alternatives with their flow and storage capacity were next analyzed to develop the conceptual BMP plans providing for the needed capacity needs.

Finally, this report provides a list if conceptual BMP plan and costs for each that can be used to develop a planned Capital Improvements Projects List for future funding and implementation. Table ES-1, shows the projected overall BMP costs.

Table ES-1

**BMP Opinion of Probable Costs**

BMP	Description	Primary And Secondary BMP Goals	Environmental/ERP Level of Permit Complexity	Amount
BMP 1	Tributary Monitoring Site 4 Project Area	Water Quality/Flood Protection	Moderate	\$540,922
BMP 2	Monitoring Site 8 and 9 Regional Stormwater Pond	Water Quality/Flood Protection	Moderate	\$2,928,284
BMP 3	Horse Farm Site	Water Quality/Flood Protection	Complex	\$330,677
BMP 4	Whitney Road Treatment Pond Sites	Water Quality/Flood Protection	Moderate	\$455,287
BMP 5	Dodge Street Retention Pond	Flood Protection/Water Quality	Low	\$505,722
BMP 6	Bunting Way Retention Pond Expansion	Flood Protection/Water Quality	Moderate	\$121,265
BMP 7	East Bay and Bedford Cir Retention Pond	Flood Protection/Water Quality	Low	\$198,655
BMP 8	East Bay and US19 Regional Pond	Flood Protection/Water Quality	High	\$2,651,118
<b>Total</b>				<b>\$7,731,930</b>



## **Section 1    Nutrient Management BMP Recommendations**

As previously discussed, increases in mass loadings of nitrogen, phosphorus, and fecal coliform bacteria were observed during migration through Long Branch Creek, although localized areas of significant uptake were also identified. Substantial increases in mass loadings of total phosphorus, total nitrogen, and fecal coliform bacteria occur between main channel monitoring Sites 14 and 16 in spite of a relatively minimal inflow from the tributary at Site 13. It is apparent that a significant additional influx of nutrients and fecal coliform bacteria occurs into the main channel between Sites 14 and 16 other than the monitored tributary at Site 13. Although overall mass loadings were minimal, elevated concentrations of total phosphorus were observed in the inflow from the Site 4 and Site 13 tributary inflows. Extremely elevated levels of fecal coliform bacteria were observed in the Site 13 and Site 15 tributary inflows.

Conceptual management and/or treatment options were developed for selected areas within Long Branch Creek. Based upon the field monitoring program, elevated concentrations of total phosphorus were observed in discharges from tributary inflow Sites 4 and 13, and elevated fecal coliform counts were observed in discharges from tributary inflows at Sites 13 and 15. Therefore, conceptual treatment/management options are discussed for tributary inflow Sites 4, 13, and 15. In addition, a substantial increase in measured loadings appears to occur for virtually all parameters between main channel Sites 14 and 16 in downstream portions of the Long Branch Creek system.

A discussion of potential sources and Best Management Practices (BMP) options for additional nutrient and fecal coliform loadings are discussed in this Section.

### **1.1    Significance of Groundwater Inflows**

We have observed that volumetric discharge measurements increased steadily with increasing distance downstream in both the northern and southern segments and main channel portions of Long Branch Creek with a few exceptions. Decreases in discharge rates were observed between the western and eastern sides of US 19, presumably due to attenuation and storage of water in a wetland system on the east side of US 19. Volumetric discharges also decrease between Sites 12 and 14 in the main channel, with the most likely explanation involving evapotranspiration and infiltration of water in this heavily vegetated portion of the main channel. Otherwise, steady increases in volumetric discharge occur with increasing distance downstream.

The most likely explanation for the observed increases in discharge rates in the segments and main channel is influx of groundwater seepage from areas adjacent to the canal since the monitored tributary inflows are clearly insufficient to generate the additional monitored discharges. Most portions of the segments and main channel have been cut well below the level of the existing land surface, and the resulting water levels within the canal are substantially lower than the expected groundwater table elevations within the watershed based upon soil types and proximity to Tampa Bay.

Approximately 75% of the basin area is covered with A/D soils which are characterized as sandy soils with a high infiltration rate and low runoff generation rate under developed conditions. It appears that large portions of the precipitation within the drainage basin are

entering the watershed soils and migrating into channels or conveyances which ultimately lead to Long Branch Creek or directly into the creek itself. It appears that the observed increases in discharge rates with increasing distance downstream are a result of groundwater seeping into the segments and main channel from the adjacent watershed areas.

Evidence of manure or sewage as significant sources of nitrogen species in Long Branch Creek was observed at many of the monitoring sites, particularly along the main channel and tributary inflows. The significance of manure and sewer as nitrogen sources appear to increase under low flow conditions, providing evidence that the sources of these inputs are primarily groundwater related rather than resulting from stormwater runoff. The results of the UV absorbance measurements indicate that non-natural organic molecules are present throughout virtually all parts of the basin, particularly at tributary Sites 4 and 15 as well as the southern segment Sites 2 and 6. These data suggest that contamination with sewage and other non-natural organic compounds occurs throughout much of the Long Branch Creek watershed. However, the conclusion that NO<sub>x</sub> concentrations within the watershed are consistent with manure, sewage, or wastewater inputs cannot be easily explained since all areas within the watershed are currently served by a central sewer system, and although reuse force mains are present within the basin, there does not appear to be any application of reuse water for irrigation within the watershed area.

The prevalence of manure and wastewater signatures, combined with the indications of man-made synthetic compounds within the basin, suggests that wastewater sources of some type may be impacting groundwater within the basin which ultimately reaches Long Branch Creek. It is very interesting that a wastewater signature is prevalent throughout the basin when known wastewater sources are extremely limited. The prevalence of the wastewater signature throughout much of the basin is disturbing since this implies that the potential wastewater sources are not limited in location but are spread throughout the entire watershed area. The data suggest that groundwater with a wastewater signature may be seeping or upwelling throughout much of the basin area. However, evaluation of this potential phenomenon is well beyond the scope of services for this project. Further evaluation of potential linkage between the observed groundwater inflows and the wastewater signature appears warranted.

## 1.2 BMP Considerations

A variety of BMPs are currently used in urban areas for management of stormwater runoff. Selection of appropriate BMPs is a function of several factors, including target pollutants, watershed size, land availability, construction costs, and routine maintenance. A list of potential urban BMPs was developed for this project, and each potential BMP was evaluated with respect to appropriateness for use in the Long Branch watershed. Each BMP was evaluated for its ability to remove the watershed target pollutant which include nutrients, fecal coliform, and suspended solids, along with land requirements and potential maintenance activities. BMPs evaluated as part of this study include the following:

1. Wet Detention
2. Pervious Pavement
3. Bio-retention
4. Stormwater Harvesting
5. Filter/Buffer Strips
6. Bio-swales
7. Inlet Filters
8. Sediment Traps
9. Education and Outreach

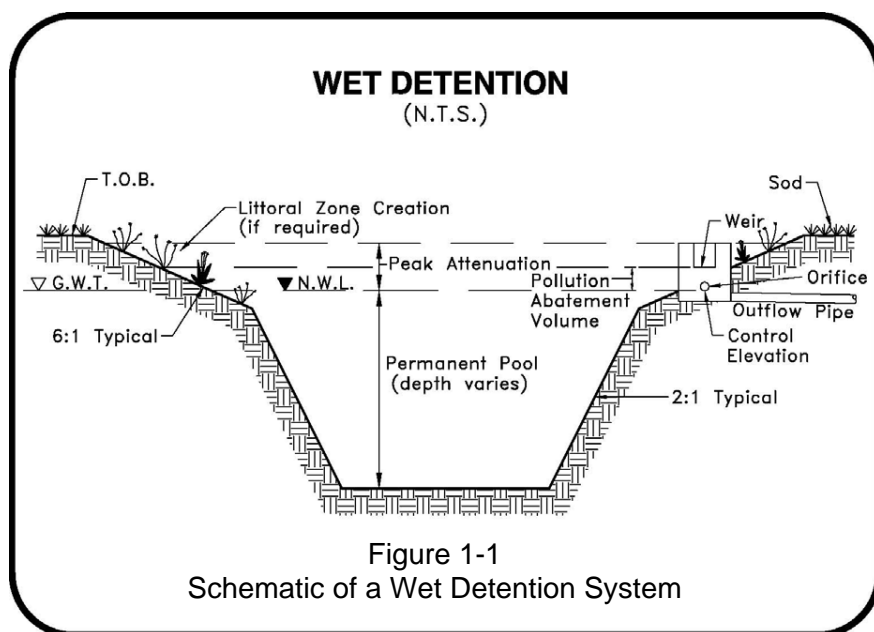


A general discussion of each of these BMPs is provided in the following sections, along with a Discussion of its appropriateness for use within the Long Branch watershed.

### 1.2.1 Wet Detention Systems

Wet detention systems are currently a very popular stormwater management technique throughout the State of Florida, particularly in areas with high groundwater tables. A wet detention pond is simply a modified detention facility which is designed to include a permanent pool of water. These permanently wet ponds are designed to slowly release collected runoff through an outlet structure. A schematic diagram of a wet detention system is given in Figure 1-1.

Pollutant removal processes in wet detention systems occur through a variety of mechanisms, including physical processes such as sedimentation, chemical processes such as precipitation and adsorption, and biological uptake from algae, bacteria, and rooted vegetation. In essence, these systems operate similar to a natural lake system. Upon entering a wet detention facility, stormwater inputs mix with existing water contained in the permanent pool. Physical, chemical, and biological processes begin to rapidly remove pollutant inputs from the water column. Water which leaves through the orifice in the outfall structure is a combination of the mixture of stormwater and the water contained within the permanent pool. In general, the concentration of constituents in the permanent pool are typically much less than input concentrations in stormwater runoff, resulting in discharges from the facility which are substantially lower in concentration than found in raw stormwater. As a result, good removal efficiencies are achieved within a wet detention facility for most stormwater constituents. Although the littoral zone provides a small amount of enhanced biological uptake, previous research has indicated that a vast majority of removal processes occurring in wet detention facilities occur within the permanent pool volume rather than in the littoral zone vegetation for the treatment volume (Harper, 1985; Harper 1988; Harper and Herr, 1993).



Wet detention systems offer several advantages over some other stormwater management systems. First, wet detention systems provide relatively good removal of stormwater constituents since physical, chemical, and biological mechanisms are all available for pollutant attenuation. Other stormwater management facilities provide only one or two of these basic removal methods for stormwater. A second advantage of wet detention systems is that the systems are not complex and can be relatively easily maintained. Wet detention systems do not have underdrain systems which can become clogged and need periodic maintenance. Wet detention systems can be viewed as amenities in development projects.

Of the stormwater facilities investigated during this evaluation, probably the most amount of research within the State of Florida has been conducted on wet detention systems. Research on wet detention ponds clearly indicates that the most significant factor impacting the performance efficiency of a wet detention pond is the residence time within the system, specifically the volume of the permanent pool in comparison to the volume of runoff entering the pond. The most typical design detention time for wet detention ponds in the State of Florida is approximately 14 days. Ponds constructed with a minimum 14-day residence time typically achieve removal efficiencies ranging from approximately 20-40% for total nitrogen, 60-65% for total phosphorus, BOD, and copper, with removal efficiencies for orthophosphorus, TSS, lead, and zinc approaching or exceeding 75-85%. Few studies have been conducted to document the Performance efficiency of wet detention ponds for removal of microbiological contaminants, but the limited number of studies which are available indicate removal efficiencies ranging from 60-90%.

In summary, wet detention ponds provide good to excellent removal efficiencies for each of the target pollutants generated in the Long Branch watershed and should be given significant consideration when selecting retrofit BMPs. Perhaps the most significant drawback to use of a wet detention pond is the area required for construction of the pond. Therefore, wet detention treatment in urban areas is most attractive when it can be incorporated into an existing pond or water feature.

### **1.2.2 Pervious Pavement**

Pervious pavement systems are basically a retention-type BMP which collects and stores Stormwater runoff while gradually infiltrating the runoff into the shallow groundwater table. Pervious pavement systems include products such as pervious concrete, pervious aggregate/ binder products, pervious paver systems, and modular paver systems. Newer innovations in pervious pavement include pervious asphalt and pervious pavements which use crushed and recycled glass, although many of these products are still under research and design. Since pervious pavement systems are basically retention systems, they can be used for many impervious applications to reduce the volume of generated runoff.

Due to the structural limitations inherent in pervious pavement systems, pervious pavement is most appropriate for impervious applications such as sidewalks, driveways, and parking areas, primarily in the area of the parking stalls. The use of pervious pavement is not recommended in areas of frequent turning movements, such as public roadways, drive-through lanes, gas pump areas, or driveway entrances. Pervious pavement is also not recommended in areas with poorly draining soils or soils which contain shallow confining

units, clay, hardpan, or organic muck. The use of pervious pavement should also be limited in areas where hazardous materials are used to prevent the potential for spills that could potentially seep into the underlying groundwater. Certain pervious pavement systems have a potential for tripping hazards when the areas are used by pedestrians.

Since pervious pavement is an infiltration practice, it provides excellent removal efficiencies for the target pollutants in the Long Branch watershed, including nutrients, bacteria, and TSS. The performance efficiency of pervious pavement systems is a direct function of the amount of the annual runoff volume that can be infiltrated into the ground. Currently, the cost of pervious pavement is approximately 2-4 times greater than the cost of traditional impervious coverings.

Pervious pavements are rarely used as retrofit options due to the high costs involved and are more commonly used in new construction to reduce the area requirements for stormwater treatment systems. The use of pervious pavement can substantially reduce the size of additional stormwater management or flood attenuation storage that may be required. Other than being incorporated into new construction in the Long Branch Creek watershed, pervious pavement appears to have little benefit as a retrofit BMP option for this area. The use of pervious pavement would only address pollutant loadings on the individual parcel where the pervious pavement was installed which would have little impact on overall pollutant loads discharging through Long Branch Creek.

### **1.2.3 Bio-Retention**

Bio-retention areas, also referred to as rain gardens, are landscaped depressional areas used to store and infiltrate runoff into groundwater. Although the term “bio-retention” is relatively new in the stormwater BMP field, this process is simply a smaller version of the standard dry retention design used in Florida for several decades with the exception that the grass used to line the bottom of the pond is replaced with more decorative vegetation. Bio-retention systems are more suited to small drainage basins rather than the larger drainage basin areas which commonly discharge to a standard dry retention pond.

Typical photographs of bio-retention systems used in a residential and commercial setting are given on Figure 1-2. These systems are used to collect and store runoff from a relatively small area and infiltrate the runoff into the groundwater between storm events. The planted vegetation aids in uptake and adsorption of nutrients during migration through the upper layers of the soil. Since bio-retention systems are simply dry retention ponds with planted vegetation, the removal efficiency of a bio-retention pond is a direct function of the percentage of the annual runoff volume which is infiltrated into the ground.



a. Bio-retention on a residential setting



a. Bio-retention on a commercial setting

Figure 1-2. Photographs of Bio-retention Systems

Bio-retention systems are generally utilized on small sites in a highly urbanized setting. The majority of bio-retention systems which have been constructed have been used in residential and commercial areas where the bio-retention system can be fitted into vacant spots in landscaping or in parking areas.

Since bio-retention is an infiltration technique, it would provide excellent removal efficiencies for the pollutants of concern in the Long Branch Creek watershed. However, since bio-retention systems are generally constructed to treat relatively small areas, significant reductions in overall pollutant loadings within the Long Branch watershed would require construction of a multitude of individual bio-retention areas to create a significant reduction in pollutant loadings.

An interesting modification of a standard bio-retention system is illustrated on Figure 1-3. This modification may enhance the effectiveness of a bio-retention system depending upon the concentration of pollutants and the type of soil filter media mixture used. However, this modification still is limited to relatively small size areas and is generally not suitable as a large-scale retrofit option for the Long Branch Creek watershed.

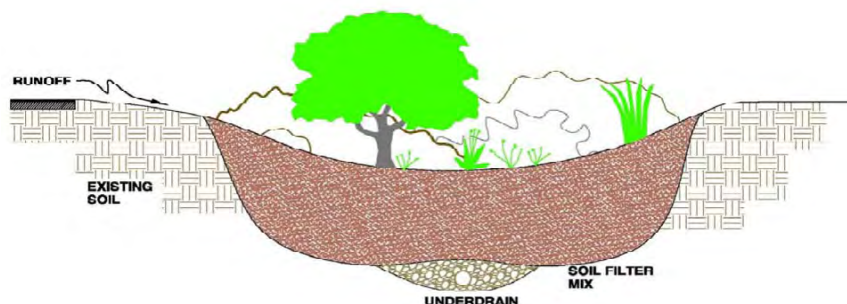


Figure 1-3 Modified Bio-Retention

### 1.2.4 Stormwater Harvesting

Stormwater harvesting involves beneficial reuse of treated stormwater runoff to reduce the stormwater volume and mass of pollutants discharged to receiving waterbodies. Stormwater harvesting generally consists of collection of runoff in a wet detention pond and using the stored water within the pond as a source of irrigation. The amount of water removed from the pond for irrigation purposes is directly related to the pollutant load reduction which occurs to off-site receiving waterbodies. Stormwater harvesting is an excellent water conservation technique which can significantly reduce the demand for potable water supply used for irrigation.

In general, irrigation of urban areas with treated stormwater runoff is far superior from a pollutant loading standpoint than irrigation with reclaimed wastewater. Irrigation with stormwater runoff will reduce loadings to downstream waterbodies within the watershed because a portion of the generated runoff volume will be retained in the urban areas and will not discharge downstream. In contrast, irrigation with reuse water introduces additional new water volumes into the watershed, often with significantly elevated levels of both total nitrogen and total phosphorus in comparison to treated stormwater runoff. Multiple studies have indicated that the use of secondarily treated wastewater for irrigation in urban watersheds substantially increases loadings to downstream waterbodies.

Multiple waterbodies currently exist along the path of Long Branch Creek. Any of these existing waterbodies could be used as a source of irrigation for the urban areas which would reduce both the volume and mass loading of stormwater generated pollutants discharging to Old Tampa Bay. The volume of irrigation water extracted from Long Branch Creek could be adapted on a seasonal basis to maintain just the minimum flows required within the creek to maintain the desired ecological functions, with the remaining water volume distributed over the urban areas for irrigation. However, this process would require installation of an expensive distribution system throughout much of the urban area to distribute the stormwater reuse to areas of potential use. Reuse of stormwater for irrigation would provide excellent removal and retention of nutrients within the watershed. Microbiological contamination could be filtered out from the stormwater reuse by installation of horizontal wells in the selected waterbodies used for irrigation. Although stormwater reuse is probably one of the best technical solutions for the observed water quality problems within Long Branch Creek, the high cost of this option eliminates it from further consideration.

### 1.2.5 Filter/Buffer Strips

The term “buffer strip” refers to natural areas adjacent to receiving waterbodies that are designed to treat runoff and remove pollutants through filtration and infiltration. Buffer strips differ from filter strips primarily by the location of the activity, with filter strips generally referring to vegetated sections of land designed to treat runoff and remove pollutants in areas other than the banks of the receiving waterbody. Both filter and buffer strips are best suited for treating small amounts of runoff from roads and highways, roof downspouts, small parking lots, and pervious surfaces. They can also be used to serve as a buffer between incompatible land uses as well as provide groundwater recharge in areas with pervious soils.

Filter/buffer strips rely on the use of vegetation to slow runoff velocities and filter out sediments



from urban stormwater runoff. The contact time with the vegetation is generally minimal and does not allow for significant uptake of dissolved pollutants. For the pollutants of concern in the Long Branch Creek watershed, filter/buffer strips would be most applicable to removal of TSS and particulate forms of nutrients but would provide little removal of dissolved nutrients or biological constituents. To maximize effectiveness, sheet flow must be maintained across the entire filter/buffer strip. If short-circuits develop within the filter/buffer strip, it can reduce water quality benefits as well as create additional erosion-related discharges.

Filter strips are primarily used in areas of low to moderate density where sufficient land is available. Therefore, filter/buffer strips are not generally applicable in many highly developed areas. Filter/buffer strips can be used in both upland portions of the watershed as well as areas immediately adjacent to Long Branch Creek. Given the configuration of Long Branch Creek, there are few areas where buffer strips could be implemented immediately adjacent to the creek. Much of the upland portion of the Long Branch Creek watershed is built-out with relatively dense urban development which offers little opportunity for construction of filter/buffer strips as a retrofit BMP. This activity appears to be more appropriate for new construction or redevelopment within the watershed rather than as a retrofit BMP. The relatively small amount of water quality improvement generated by filter strips does not appear to be worth the significant cost of retrofitting much of the Long Branch Creek watershed with this option.

### **1.2.6 Bio-Swales**

A bio-swale is simply a shallow depressional area which is used to collect and convey stormwater runoff. Bio-swales are also referred to as “grassed swales” which are common throughout the State of Florida. Swales use the combination of vegetation and infiltration into the soil to reduce the volume of stormwater runoff while improving the water quality characteristics. Bio-swales are currently used extensively throughout the State of Florida to convey stormwater runoff along roadways and in residential communities. Stormwater treatment occurs primarily as a result of infiltration of runoff into the ground and adsorption of pollutants onto the surface of the plant material within the swale. Grassed swales are well suited to treat both highway and residential road runoff because of their linear nature and because swales both treat and convey stormwater runoff. Swales used for roadway drainage are usually found in more rural sections, although several of the major roadways in the Long Branch Creek watershed currently use swales to convey stormwater runoff.

It appears unlikely that removal of existing drainage systems within the Long Branch Creek watershed and replacement with grassed swales would generate a pollutant load reduction that would be justified by the extensive construction costs. However, enhancement of the existing swale systems is possible by installation of check-dams to convert the existing swales into a series of linear retention ponds that slow down the runoff, provide opportunities for additional settling of particulate matter, and enhance infiltration into groundwater. This type of retrofit is extremely inexpensive and can provide a relatively significant pollutant load reduction. Hydrologic modeling would need to be conducted to ensure that the installed check-dams do not create flood-related issues. Pollutant removal efficiencies achieved using swale drainage systems are a function of both the annual runoff volume which can be infiltrated, as well as settling of particulate matter and, to a more limited extent, adsorption of dissolved pollutants within the swale vegetation.

### 1.2.7 Inlet Filters

Inlet filters consist of strainer-type baskets which are placed inside grate and curb inlets to collect leaves, vegetation debris, and trash to prevent the material from discharging into the stormwater management system. A wide variety of grate and curb inlets are now available from a wide range of manufacturing companies. However, each of these performs the same basic function of collecting and separating leaves and larger debris from the runoff stream. The majority of the grate and inlet baskets are constructed with approximately 0.5-inch openings to allow water to pass through the basket while retaining the leaves and other debris.

Inlet baskets are a relatively inexpensive method of removing large debris from stormwater runoff. The initial installation costs for these systems are generally low, but require monthly maintenance to remove and dispose of the collected material. This type of BMP is appropriate for highly urbanized areas which primarily use a curb and gutter system with underground stormsewers.

We recommend that curb and inlet baskets be installed to the maximum extent possible in any urbanized watershed. However, much of the drainage within the Long Branch Creek watershed discharges by overland flow or vegetated conveyance channels, and the opportunity of installation of curb and grate inlets in the Long Branch Creek watershed is somewhat reduced compared with other urbanized areas. Opportunities for installation of curb and grate inlets should be evaluated and units installed where appropriate. However, a maintenance activity must be in place for the routine cleaning and disposal of the collected material.

### 1.2.8 Sediment Traps

Sediment traps include a wide variety of retrofit units manufactured by companies such as CDS, Stormceptor, Sun Tree Technologies, and similar companies. Although the units vary somewhat between manufacturers, they all perform the same basic function of collection of sediment and large debris from stormwater which prevents the material from discharging to downstream waterbodies. Removal mechanisms fall into three basic categories, including units which attempt to remove solids using a centrifugal force created by circulation of the stormwater within the unit, baffle box type units which rely upon physical settling of larger particles, and units which use screen mesh to remove larger vegetation and debris.

We have conducted several previous research projects on the performance efficiency of sediment trap type devices. This research has indicated that sediment traps primarily remove particles in excess of 100 microns in size which includes medium to large sand, gravel, and vegetation debris. Particle sizes removed by these units generally have low nutrient content which substantially reduces the nutrient removal efficiencies for these systems. Sediment traps have no affinity for removal of microbiological parameters and in some cases, increases in bacteria counts have been observed between the inlet and outlet for these systems. Installation costs for sediment traps are relatively high, particularly for the CDS-type units, which results in a very elevated nutrient mass removal cost. As a result, sediment traps appear to be most appropriate in areas where sediment removal is the primary concern.



---

Installation of sediment traps is not recommended for removal of the target pollutants in the Long Branch Creek watershed.

### **1.2.9 Education and Outreach**

Since stormwater runoff is generated on land surfaces which are heavily impacted by human activities, public behaviors and activities can have a large impact on the characteristics of stormwater runoff generated in urban areas. Common individual behaviors which have the potential to impact stormwater runoff pollution include littering, storage and disposal of trash and recyclables, disposal of pet wastes, application of fertilizers and lawn chemicals, washing cars, vehicle maintenance activities, and other household behaviors. Many people are simply unaware of the link between their activities and stormwater pollution.

Education and outreach programs attempt to effect behavioral modifications in the general public through information and education about the significance of individual activities. ERD consistently recommends education and outreach as a method of reducing watershed loadings in urban areas. This activity is discussed in more detail in a subsequent section.

### **1.3 Tributary Site 4 Inflow**

An overview of drainage patterns in the vicinity of tributary inflow monitoring Site 4 is given on Figure 1-4. The tributary at Site 4 reflects an inflow into the northern headwater segment downstream from the discharge from Swann Lake. The tributary monitored at Site 4 consists of an earthen drainage channel which extends in a general north-south direction, passing through an area of single-family homes, and high-density apartment/condo buildings. Upstream portions of the tributary consist of multiple professional office buildings with large parking areas, several fast food restaurants, and an industrial facility. Each of these areas discharges untreated stormwater runoff directly into the tributary monitored at Site 4. Wastewater mains, approximately 6-8 inches in diameter, cross the tributary stream at multiple locations.

The specific sources of the elevated observed concentrations of total phosphorus and fecal coliform bacteria were not identified as part of this study. Therefore, further evaluation of this tributary watershed is recommended to assist in identifying the sources of the elevated nutrients and fecal coliform bacteria. The existing earthen channel between Darien Way and the confluence with the main channel currently contains a large amount of debris and relatively deep accumulations of organic muck which may be contributing to the observed elevated concentrations of phosphorus, particularly under low flow conditions. A more detailed evaluation of this tributary and potential pollutant impacts is recommended.

Figure 1-4  
Overview of drainage patterns in the vicinity of tributary inflow monitoring Site 4



#### 1.4 Main Channel East of US 19

An overview of drainage patterns in the vicinity of the main channel east of US 19 is given on Figure 1-2. Inflows from the northern headwater segment (monitored at Site 8) combine with inflows from the southern headwater segment (monitored at Site 9) to form the main channel. An additional tributary inflow to the main channel occurs from Site 10, as indicated on Figure 1-2. Inflow into the main channel from Site 8 was found to have elevated concentrations of total nitrogen, total phosphorus, and fecal coliform bacteria, while inflows from Site 9 were characterized by moderately elevated levels of total nitrogen, total phosphorus, and fecal coliform bacteria. Since these two inflows form the headwaters of the main channel, reductions in nutrient and fecal coliform concentrations at these sites would likely carry downstream and improve water quality characteristics throughout the main channel., reductions in nutrient and fecal coliform concentrations at these sites would likely carry downstream and improve water quality characteristics throughout the main channel.



A large borrow pit pond currently exists south of the main channel and west of tributary inflow monitoring Site 10. The depth of this pond is not known at this time, but it appears that the pond could perform a function as a regional wet detention pond. Construction activities are currently ongoing in the parcel located immediately south of the pond, and it is likely that the constructed

Figure 1-5  
Overview of drainage patterns in the vicinity of monitoring Sites 8, 9, and 10.



development will utilize the borrow pit pond as a stormwater management facility. However, the size of the pond appears to be substantially larger than would be required to provide treatment for a development in the southern portions of the parcel.

One potential opportunity for treatment of the combined inflows from Sites 8 and 9 would be to divert the water into the existing borrow pit pond for treatment. A conceptual schematic for a regional treatment pond for upstream portions of Long Branch Creek is given in Figure 1-3. A simple diversion weir could be constructed along the channel to divert the headwaters of Long Branch Creek into a regional treatment pond constructed from the existing borrow pit. If desired, the tributary inflow monitored at Site 10 could also be diverted into the pond for treatment. Although the hydraulics of diverting the water from the main channel and the Site 10 tributary flow into the pond would need to be further evaluated, the location of the treatment pond appears ideal to achieve the proposed treatment system.

The diversion weirs could be sized to discharge low flow conditions into the treatment pond, with high flows passing over the diversion weirs and into downstream portions of the main channel. This treatment concept is consistent with the fact that the most elevated levels of nutrients and bacteria were observed in Long Branch Creek under low flow conditions, with lower concentrations observed during periods of heavy rainfall. The existing borrow pit pond appears to be more than adequate in size to provide treatment for both the main channel inflow, Site 10 inflow, as well as provide treatment for the southern developed portions of the parcel.

The proposed treatment pond would provide opportunity for nutrient uptake and assimilation of fecal coliform bacteria before discharging back into the main channel. An aeration system could also be installed in the pond to enhance circulation, nutrient uptake, BOD degradation, and improve dissolved oxygen concentrations. As a result, discharges from the treatment pond would have lower concentrations of nutrients and fecal coliform bacteria, along with higher concentrations of dissolved oxygen than occur within the main channel under existing conditions. This concept is particularly attractive since it does not require purchase of any land, although an easement would likely be required over the treatment pond area to allow maintenance activities by the County.

Figure 1-6

Conceptual schematic for regional treatment pond for upstream portions of Long Branch Creek



## 1.5 Main Channel between Sites 14 and 16

Substantial increases in concentrations of total nitrogen, total phosphorus, and fecal coliform bacteria occur within the main channel between monitoring Sites 14 and 16. These increases in concentrations, combined with increases in discharge rates, result in 3-fold increase in mass loadings of total phosphorus, a 50% increase in mass loadings of total nitrogen, a 3-fold increase in loadings of TSS, and a 5-fold increase in fecal coliform bacteria loadings between Sites 14 and 16 along the main channel.

An overview of drainage patterns in the vicinity of main channel Sites 14 and 16 is given on Figure 1-4. The only significant inflows into Long Branch Creek between Sites 14 and 16 is the tributary inflow at Site 13. However, based upon the field monitoring, mass loadings of nitrogen and phosphorus introduced into the main channel from this tributary inflow are minimal in comparison with the overall mass loadings. Inflows into the main channel from this site were characterized by substantially elevated concentrations of both total phosphorus and fecal coliform bacteria, but the overall mass loadings of these parameters were relatively low. However, additional monitoring or research is recommended to identify the sources of the elevated phosphorus and fecal coliform counts observed in this tributary.

One of the most significant features along Long Branch Creek between Sites 14 and 16 is the horse stables and riding area which are located along virtually the entire eastern portion of the creek between the two monitoring sites. Existing drainage patterns in the area result in surface runoff discharging from east to west and ultimately entering the main channel from this parcel. Runoff from residential areas also enters the main channel from areas west of the channel, although there is nothing about the physical characteristics of this neighborhood which would suggest elevated loadings of either total phosphorus or fecal coliform bacteria. All homes within the parcel are currently serviced by a central sanitary sewer system, and discharges of fecal coliform bacteria from this area do not appear likely. Therefore, the horse stables and riding area appear to be the most logical source of the elevated nutrients and fecal coliform bacteria observed between monitoring Sites 14 and 16.

Assuming that the horse farm parcel is the source of the elevated nutrients and fecal coliform bacteria entering Long Branch Creek, then the observed loadings can be reduced either by enhanced on-site management practices or constructing a treatment system to either treat or prevent runoff from the property from entering Long Branch Creek. Improvements in management activities are always desirable, and should be a first step in evaluating and reducing on-site loadings. However, BMP management practices for equestrian activities are not foolproof and do not always prevent introduction of contaminants through on-site runoff. Therefore, in addition to enhanced management practices, a berm and swale system is proposed to retain on-site runoff within the horse farm parcel.

A schematic of a proposed berm and swale system for the horse stable parcel is given on Figure 1-5. A shallow berm could be constructed around the perimeter portions of the property indicated on Figure 1-5 to intercept runoff, which travels in an east-west direction, prior to entering Long Branch Creek. The berm system would contain the water and allow it to infiltrate through the soil rather than discharging directly into the creek. The soil infiltration process will be very effective in removing both phosphorus and fecal coliform bacteria. The proposed berm



and swale system is a relatively inexpensive method of reducing on-site loadings from this parcel into Long Branch Creek.

Figure 1-7  
Overview of local drainage patterns

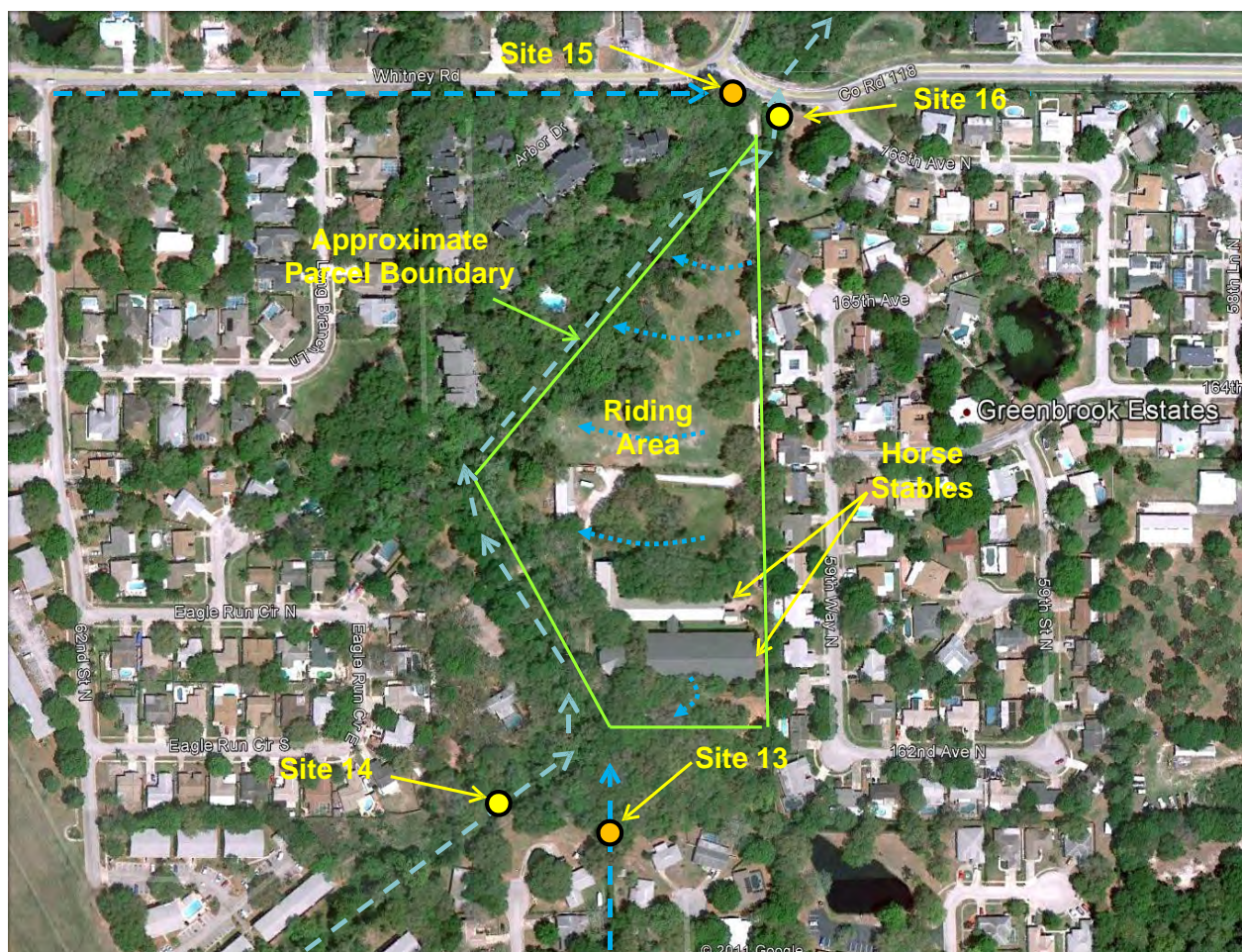
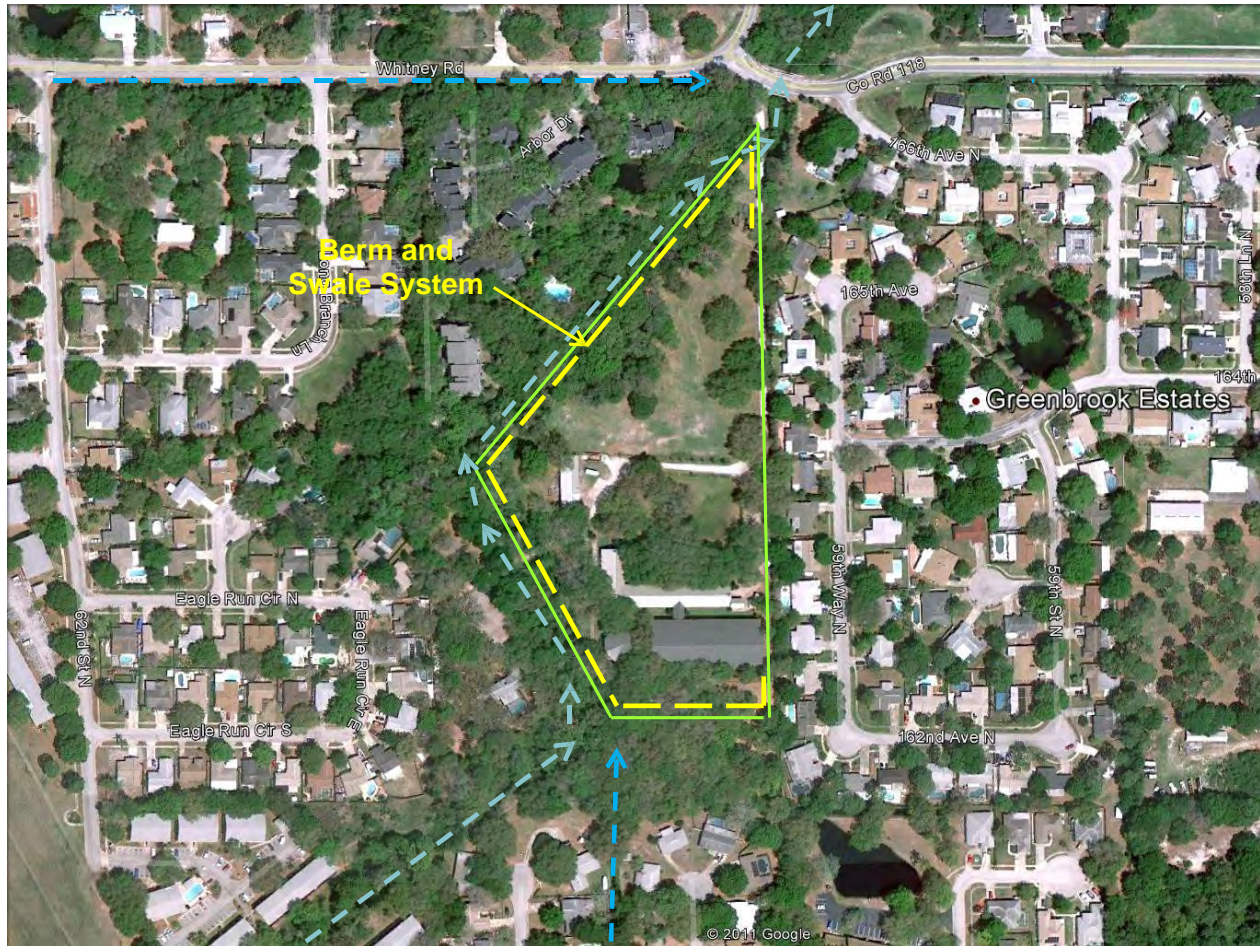




Figure 1-8  
Proposed Berm and Swale System for Horse Stable Parcel





## 1.6 Tributary Inflow Site 15

Substantially elevated levels of fecal coliform bacteria were also observed in discharges from tributary inflow Site 15. Measured concentrations of nitrogen and phosphorus discharging from this tributary were moderate in value, with the main problem appearing to be elevated fecal coliform bacteria. An overview of drainage patterns in the vicinity of monitoring Sites 15 and 16 is given on Figure 1-6. Inflow from the Whitney Road ditch enters the existing box culvert which passes Long Branch Creek beneath Whitney Road. The ditch alongside Whitney Road consists of a relatively deep earthen channel which runs the entire length of Whitney Road and directs roadway runoff, along with adjacent watershed runoff, to the point of inflow into the main channel. Evidence of fecal coliform bacteria was observed at this site even under low flow conditions, suggesting a non-runoff related inflow of bacteria into the drainage system.

Figure 1-9.  
Overview of drainage patterns in the vicinity of monitoring Sites 15 and 16.



Our experience on similar sites has shown that the most appropriate method of reducing fecal coliform bacteria would be to evaluate and identify the sources of the fecal coliform bacteria within the watershed. If this cannot be achieved, then it may be appropriate to construct a treatment system to attenuate some of the fecal coliform bacteria prior to entering Long Branch Creek.

Several parcels are currently available in the vicinity of the Site 15 tributary inflow into Long Branch Creek. A summary of available parcels is given on Figure 1-7. A vacant pie- shaped parcel is located immediately north of the drainage canal and appears to be a potential location for a small wet detention or infiltration type treatment process. A second parcel owned by Pinellas County is located east of Long Branch Creek and north of Whitney Road. This parcel is currently the site of a small stormwater treatment pond which could be substantially enhanced to perhaps provide treatment for the Whitney Road drainage system as well.

A conceptual schematic of a proposed treatment system for the Whitney Road drainage swale is given on Figure 1-8. The existing channel piping could be extended initially into a small treatment pond associated with the development on the south side of Whitney Road. After migrating through this treatment area, the discharge from Whitney Road would then be directed into an enlarged and reconfigured pond on the north side of the roadway in the parcel currently owned by Pinellas County. This additional detention time and opportunity for biological uptake and degradation of the fecal coliform bacteria has the potential to reduce fecal coliform loadings to Long Branch Creek.

Figure 1-10  
Available parcels in the vicinity of the  
Whitney Road drainage swale

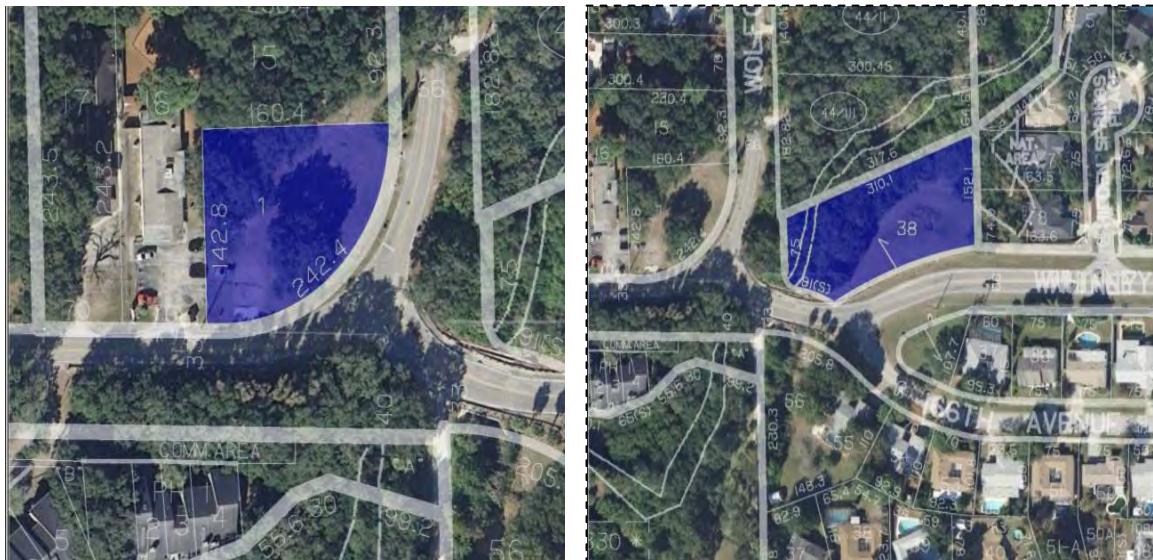
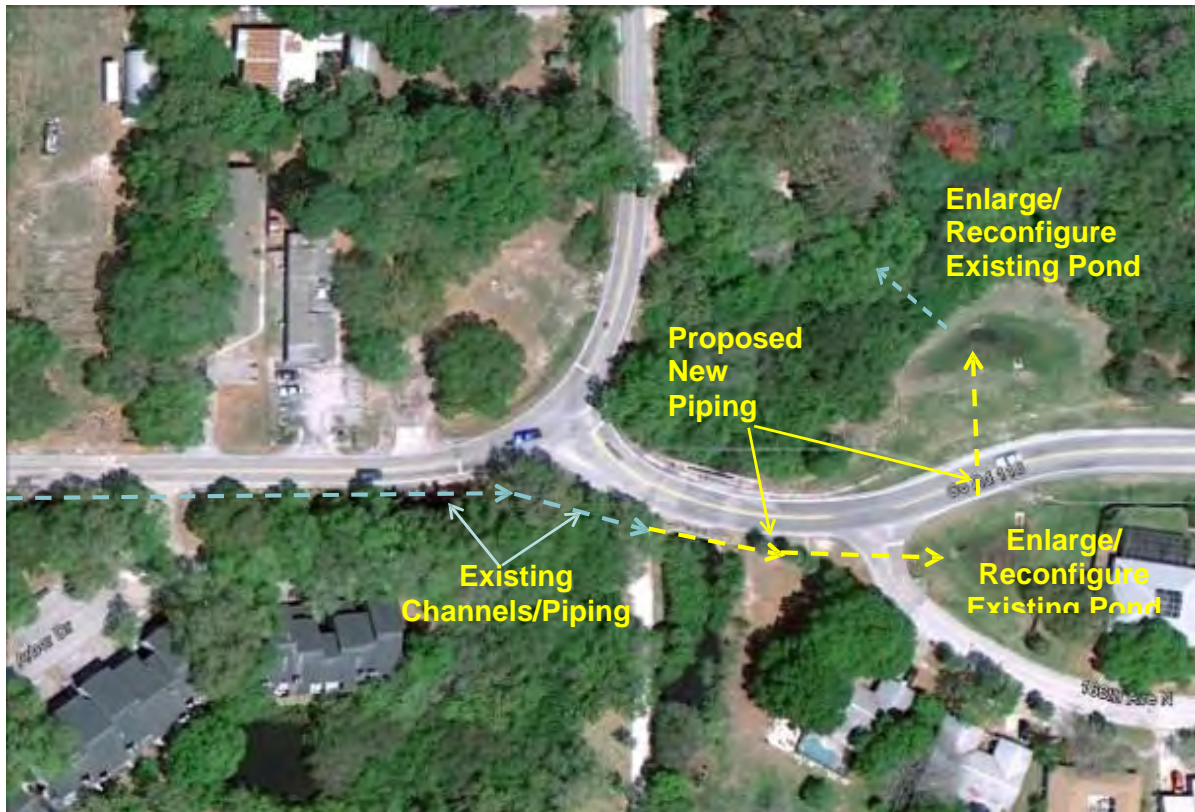




Figure 1-11  
Conceptual schematic of proposed treatment system for  
Whitney Road drainage swale.



An alternative conceptual treatment system for the Whitney Road drainage swale is indicated on Figure 1-9. Discharges from the roadside swale could be directed into a newly constructed detention pond to provide either wet detention or dry detention treatment prior to introduction back into Long Branch Creek. This option would require purchase of land whereas the option illustrated on Figure 1-8 would utilize land already in possession of Pinellas County. Either of the two treatment options would provide benefits to water quality in Long Branch Creek.

Figure 1-12  
Alternative conceptual treatment system for the Whitney Road  
drainage swale.



### 1.7 General Watershed Maintenance

General observations of areas within the Long Branch Creek watershed, suggest that many portions of the drainage basin are relatively “dirty” as indicated by excessive amounts of dust, soils, vegetation debris, and litter on both roadway and parking surfaces. These “dirty” areas are particularly prevalent in the middle industrial portions of the basin. Virtually all of these areas are currently developed, and opportunities for nutrient reductions through structural projects are relatively limited. However, non-structural source control programs have been shown to be effective in reducing pollutant accumulations within watersheds and have a valid potential for improving the characteristics of stormwater runoff in the Long Branch Creek watershed.

Source reduction programs have the potential to provide effective reductions in stormwater concentrations, particularly for nutrients and suspended solids. Source reduction techniques, such as street sweeping and public education, are capable of reducing loadings of pollutants entering receiving waterbodies by reducing pollutant accumulation within the watershed. If properly conducted, source reduction programs can be almost as effective as changes in stormwater regulations for reducing pollutant loadings to lakes. The two most common source reduction techniques are street sweeping and public education which are discussed in the following sections.

### **1.7.1 Street Sweeping**

Street sweeping is an effective best management practice (BMP) for reducing total suspended solids and associated pollutant wash-off from urban streets. Street sweeping is well suited to an urban environment where little land is available for installation of structural controls. Street sweeping can be extremely effective in commercial business districts, industrial sites, and intensely developed areas in close proximity to receiving waters.

Street sweeping involves the use of machines which basically pick-up contaminants from the street surface and deposit them in a self-contained bin or hopper. Mechanical sweepers are the most commonly used sweeping devices and consist of a series of brooms which rotate at high speeds, forcing debris from the street and gutter into a collection hopper. Water is often sprayed on the surface for dust control during the sweeping process. The effectiveness of mechanical sweepers is a function of a number of factors, including: (1) particle size distribution of accumulated surface contaminants; (2) sweeping frequency; (3) number of passes during each sweeping event; (4) equipment speed; and (5) pavement conditions. Unfortunately, mechanical sweepers perform relatively poorly for collection of particle sizes which are commonly associated with total phosphorus loadings in stormwater runoff. During the 1980s, the U.S. EPA concluded that street sweeping using mechanical sweepers had no significant impact on runoff characteristics.

Over the past decade, improvements have been made to street sweeping devices which substantially enhance the performance efficiency. Vacuum-type sweepers, which literally vacuum the roadway surface, have become increasingly more popular, particularly for parking lots and residential roadways. The overall efficiency of vacuum-type sweepers is generally higher than that of mechanical cleaners, especially for particles larger than 3 mm. Estimated efficiencies of mechanical and vacuum-assisted sweepers are summarized in Table 5-1 based upon information provided by the Federal Highway Administration. Mechanical sweepers can provide approximately 40% removal of phosphorus in roadway dust and debris, while vacuum-assisted sweepers can provide removals up to 74%. Recent studies in Hamilton County, Ohio indicated a significant reduction in runoff concentrations of nutrients after implementation of a vacuum sweeper program in residential areas.

The efficiency of street sweepers is highly dependent upon the sweeping interval. To achieve a 30% annual removal of street dirt, the sweeping interval should be less than two times the average interval between storms. Since the average interval between storms in the St. Petersburg area is approximately three days, a sweeping frequency of once every six days is necessary to achieve a 30% removal of street dirt. To achieve a 50% annual removal, sweeping must occur at least once



between storm events. In the Long Branch Creek area, a 50% removal would require street sweeping to occur approximately once every three days.

**Table 1-1**

**EFFICIENCIES OF MECHANICAL (BROOM) AND VACUUM-ASSISTED SWEEPERS**

CONSTITUENT	MECHANICAL SWEEPER EFFICIENCY (%)	VACUUM-ASSISTED SWEEPER EFFICIENCY (%)
Total Solids	55	93
Total Phosphorus	40	74
Total Nitrogen	42	77
COD	31	63
BOD	43	77
Lead	35	76

SOURCE: Federal Highway Administration (FHWA) – Report No. WI-11-01– “*Pollutant Loadings to Stormwater Runoff from Highways: The Impact of a Freeway Sweeping Program*”.

Street sweeping activities can be particularly effective during periods of high leaf fall by removing solid leaf material and the associated nutrient loadings from roadside areas where they can easily become transported by stormwater flow. Previous research by ERD has indicated that leaves release large quantities of both nitrogen and phosphorus into surface water within 24-48 hours after becoming saturated in an aquatic environment. Loadings to waterbodies from leaf fall are often the most significant loadings to receiving waters during the fall and winter months. Street sweeping operations are typically performed on a monthly basis, with increased frequency during periods of high leaf fall.

Capital costs for street sweepers range from approximately \$70,000-150,000, with the lower end of the range associated with mechanical street sweepers and the higher end of the range associated with vacuum-type sweepers. The useful life span is typically 4-8 years, with an operating cost of approximately \$70/hour.

One potential drawback for the use of street sweepers in the Long Branch Creek Sub- basin H area is the lack of curbs throughout much of the area. Many of the existing industrial and commercial areas have roadways which slope directly into roadside drainage systems without a standard curb and gutter system. The use of mechanical sweepers requires a curb and gutter system for proper operation. Therefore, street sweeping within much of Sub-basin H would need to be conducted using vacuum-assisted sweepers rather than mechanical broom sweepers. Although this would substantially enhance the efficiency of the sweeping process, vacuum-assisted sweepers are relatively rare in public works departments and may not be available to the governmental entities with jurisdiction within Long Branch Creek.

### 1.7.2 Public Education

Public education is one of the most important nonpoint source controls which can be used in a watershed. Many residents appear to be unaware of the direct link between watershed activities and the water quality in adjacent waterbodies. The more a resident or business owner understands the relationship between nonpoint source loadings and receiving water quality, the more that person may be willing to implement source controls.

Several national studies have indicated that it is an extremely worthwhile and cost-effective activity to periodically remind property owners of the potential for water quality degradation which can occur due to misapplication of fertilizers and pesticides. Periodic information pamphlets can be distributed by hand or enclosed with water and sewer bills which will reach virtually all residents within the watershed. These educational brochures should emphasize the fact that taxpayer funds are currently being utilized to treat nonpoint source water pollution, and the homeowners have the opportunity to reduce this tax burden by modifying their daily activities. A comprehensive public education program should concentrate, at a minimum, on the following topics:

1. Relationship between land use, stormwater runoff, and pollutants
2. Functions of stormwater treatment systems
3. How to reduce stormwater runoff volume
4. Impacts of water fowl and pets on runoff characteristics and surface water quality
5. County stormwater program goals and regulations
6. Responsible use of fertilizer, pesticides and herbicides
7. Elimination of illicit connections to the stormwater system
8. Controlling erosion and turbidity
9. Proper operation and maintenance of stormwater systems

The public education program can be implemented in a variety of ways, including homeowner and business seminars, newsletters, performing special projects with local schools (elementary, middle and high schools), Earth Day celebrations, brochures, and special signage at stormwater treatment construction sites. Many people do not realize that stormsewers eventually drain to area waterbodies. Many cities and counties in Florida have implemented a signage program which places a small engraved plaque on each stormsewer inlet indicating "Do Not Dump, Drains to Waterbody". It is recommended that an aggressive public education program be implemented in the Long Branch Creek watershed which incorporates all of the elements discussed previously. This program should be targeted to all land use categories including industrial, commercial, and residential areas.

Anticipated load reductions for implementation of public education programs are difficult to predict and depend highly upon the degree of implementation by the homeowners within the basin. The impacts of public education programs also depend, to a large extent, on the degree to which water quality within the Long Branch Creek basin is currently being impacted by uneducated and uninformed activities by current homeowners. Several regional and national studies are currently being performed which will attempt to document the pollutant removal effectiveness of public education programs.



## 1.8 Water Quality Improvements Detailed Computations and Summaries

Based upon the above discussions, each basin was evaluated and determination of data and criteria developed and utilized for analysis and determination of each specific BMP. Included in Appendix A, Table 1-2, Long Branch Creek Land Use Summary Table is included. Below, Table 1-3, Contributing Area and Jurisdiction Table per BMP summarizes the data listed in Table 1-2 and if the proposed BMP is within Private, County or City Jurisdiction

**Table 1-3**  
**Contributing Area and Jurisdiction Table**

<b>BMP</b>	<b>Contributing Area (Acres)</b>	<b>Jurisdiction</b>	<b>Monitoring Site</b>
BMP 1	309	Private	4
BMP 2	468	Private	9 & 10
BMP 3	86	Private	14
BMP 4	72	Private/County	15
BMP 5	127	Private	12
BMP 6	109	County	2
BMP 7	49	Private	5
BMP 8	130	Private	7

The map showing the contributing area for each BMP within the project area is included in Appendix A, "Long Branch Creek Water Quality Study, BMP Contributing Areas.

Based on the data collected, the following Tables summarize water quality assumptions, pollutant loadings and pollutant reductions expected for each of the BMPs and monitoring sites utilized for this analysis and report.

The following tables are located in Appendix A for reference:

Table 1-4 WQ Project Analysis  
Table 1-5 Runoff WQ  
Table 1-6 Annual Loadings  
Table 1-7 Annual Load Reduction Factors  
Table 1-8 BMP Load Reductions

---

## Section 2 Nutrient Reduction and Water Quality Improvement Recommendations

Based upon the recommendations and results discussed in the previous sections, the following recommendations are made to improve water quality characteristics in Long Branch Creek:

1. The sources of elevated nutrients and fecal coliform bacteria originating from the tributary monitored at Site 4 should be further evaluated, particularly in view of the results of the isotope analyses indicating the presence of manure or sewage as a nitrogen source during three of the five monitoring events, and the elevated UV absorbance values suggesting the presence of non-natural organic compounds during each monitoring event.
2. The feasibility of constructing a regional wet detention pond in upstream portions of the main channel to provide treatment for inflows from Sites 8, 9, and 10 should be further evaluated. If feasible, this system has the potential to reduce upstream concentrations of nutrients and fecal coliform bacteria, while increasing dissolved oxygen concentrations, in the headwaters of the main channel.
3. The sources of increases in nutrient and fecal coliform loadings between Sites 14 and 16 along the main channel should be further investigated. If these investigations indicate that the horse stables and riding area are the primary source for these additional loadings, then construction of a berm and swale system is recommended to retain the nutrients and fecal coliform loadings on-site.
4. The sources of the elevated fecal coliform loadings observed in the Whitney Road drainage system should be further evaluated to identify potential illicit inputs. If the sources cannot be identified and mitigated, further consideration should be given to the proposed treatment options discussed previously, particularly the series of berms proposed along the roadside drainage system which, if feasible, would be both inexpensive and effective.
5. Although not a significant contributor of overall mass loadings, tributary inflow Site 13 was shown to contain elevated levels of both total phosphorus and fecal coliform bacteria. Further studies are recommended to identify potential sources for these inputs given the well-defined nature of the tributary inflow.
6. Street sweeping should be initiated in the residential, industrial, and commercial portions of the Long Branch Creek watershed to reduce accumulations of dirt, dust, vegetation, and debris within these areas which can contribute to nutrient loadings to the tributaries and main channel.
7. A public education program should be initiated and targeted to residents and property owners within the Long Branch Creek watershed to provide educational links between personal activities and surface water pollution

---

## Section 3 Stormwater Best Management Practices (BMP) Analysis

### 3.1 Assumptions and Criteria

#### 3.1.1 Overall Project Assumptions

The overall objective is to evaluate various BMP opportunities along Long Branch Creek and within the existing right-of-way. Various events were modeled ranging from 2.33, 5, 10, 25, 50, and 100 year events using the 24 hour duration storm. Model development followed the latest Southwest Florida Water Management District Guidelines and Specifications and guidance documents provided by the District to develop the model and remain consistent with current criteria.

#### 3.1.2 Methodology for Development of BMP Opinion of Probable Costs

The conceptual cost estimate prepared in support of the Long Branch Creek Watershed Water Quality Study is current through December 2013. The project BMP's as described are located in Pinellas County with portions within the City of Largo.

Major construction elements of the project include earthwork, culverts, structures and other related components to implement each proposed BMP. Costs were developed and organized in accordance with Pinellas County Standards and Specifications and with the FDOT Standard Specifications. Pricing and rates where applicable were also established using recent contractor pricing and the FDOT cost index. Costs were developed and organized in accordance with the CSI 16 division breakdown. Pricing and quantities were as mentioned were developed through takeoff from each BMP concept layout based on common and accepted engineering practice.

Direct costs for labor, materials, and equipment are captured and included into each component costs at this conceptual estimate level. Per "ANSI Standard Reference Z94.2-1989" this estimate is classified as Class 4.

Contingency generally is directed to cover undefined work that is based on the level of knowledge and information. For the conceptual level for this estimate, a contingency value of 20% is used.

#### 3.1.3 Regulatory Considerations

A SWFWMD Environmental Resource Permit (ERP) will be required for wetland impacts and flow alterations proposed for some of the BMP alternatives. In addition, permitting from various County Departments may be required. Other state and federal permits may include:

National Pollutant Discharge Elimination System Permit (NPDES): All BMPs are expected to require a NPDES permit for construction from the FDEP. A NPDES is required for all point sources discharging pollutants into waters of the United States.

USACE Nationwide Permit: A Meeting with the Army Corps of Engineers is recommended to ensure proposed project fall within the Nationwide Permit.

The project will be engineered, designed, constructed, tested, operated, and maintained in accordance with all current and prevailing Federal, State, local, and SWFWMD rules, regulations, codes specifications, permits, and recognized industry standards.

Consultation with the applicable agencies will be conducted before and during the permitting process. Agencies that will require coordination include USACE, SWFWMD, Florida Fish and Wildlife Conservation Commission (FWC), and United States Fish and Wildlife Service (USFWS). Additionally, coordination with FDEP will be necessary to obtain a NPDES permit.

Endangered and threatened species are protected by the Endangered Species Act (ESA) of 1973 (16 U.S.C. §§ 1531-1534 (2006)), which establishes protection and conservation of threatened and endangered species and the ecosystems on which they depend. Under the ESA, an “endangered species” is defined as “any species in danger of extinction throughout all or a significant portion of its range.” A “threatened species” is defined as “any species likely to become an endangered species in the foreseeable future.” Section 7 of the ESA requires that all Federal agencies consult with the U.S. Fish and Wildlife Service or NOAA Fisheries, as applicable, before initiating any action that could affect a listed species.

Requirements of Section 7 of the ESA include consultation with Federal and State agencies regarding concern for federally or State listed endangered or threatened species. Consultation will be initiated with the U.S. Fish and Wildlife Service and the Florida Wildlife Conservation Commission prior to permits are submitted to help determine issues that may arise with the chosen preferred alternative.

Coordination with the City of Largo and Pinellas County as well as the general public is recommended to be held prior to and during the permitting process.

### **3.2 Best Management Practices (BMP) Descriptions**

During the previous phases various stormwater infrastructure data were collected to develop an existing conditions watershed model. Evaluation of the existing conditions model results identified areas in addition to the water quality BMP locations that would provide possible opportunities for BMPs. The following BMP alternatives were selected for evaluation based on the areas selected for water quality improvements as discussed in previous sections and further analysis if flooding areas where BMP development and implementation would improve flooding conditions.

Potential BMPs as previously discussed were identified for further development at locations where flooding and water quality issues were a concern to the community. The evaluation identified 8 BMP projects for evaluation and refinement. Each BMP was evaluated for its capacity to provide flood reduction, water quality improvement and implementation costs. The evaluation of these three major factors also included regulatory considerations that would determine if a proposed BMP can be permitted for implementation. Regulatory considerations included: potential environmental impacts (loss or gain) or enhancements; stream impacts (loss of natural structure or enhancement of natural structure); stream/channel increases in flows or flood stages; and adverse impacts to upstream or downstream structures/facilities. Impacts also considered if they are considered temporary or permanent for each BMP project.

A brief summary of the selected Best Management Practices Plans including the proposed BMP project, anticipated benefits and costs for engineering and construction are provided in the

---

following sections. Proposed BMP concept sketches and cost spreadsheets are included in Appendix A.

### **BMP 1**

**Description:** This is a proposed BMP to implement proposed creek and pond storage improvements described in Section 1.2, Tributary Site 4 Inflow. Improvements include cleaning and removing vegetation over-growth in the channel, expansion of the channel for increased capacity and ecological channel/creek restoration for water quality improvements and enhancements to the conveyance system. The BMP also includes expansion of the existing ponds at model nodes NC0090 and NC0080 where area is available. The extent of BMP 1 runs from model node NC0020 through NC0103 and the creek branch from model node NC00021 to NC0080.

**Benefits:** Water Quality improvements achieved by channel maintenance and vegetation enhancements and flood protection by channel clearing, expansion, and improvements to flow capacity.

**Jurisdiction:** Private

**Costs:** \$540,922

### **BMP 2**

**Description:** BMP 2 comprises the infrastructure requirements to implement the construction of a regional treatment pond proposed in Section 1 and illustrated by Figure 1-3, Conceptual schematic for regional treatment pond for upstream portions of Long Branch Creek. The proposed BMP will divert low flows into constructed treatment ponds with high flow discharge flowing over the constructed diversion weir in the channel. This is an off-line treatment system typical in many areas within the Tampa Bay Region. The infrastructure components consist of concrete channel weir blocks and pipe with headwalls diverting low flows into constructed ponds. An outfall control structure will control storage volumes, treatment and stormwater discharge back into the channel. The system will also allow for flood control storage volume. The ponds will be excavated to grade and stabilized with acceptable stabilization vegetation to gain environmental credits and mitigation.

**Benefits:** Water Quality treatment opportunity via water quality treatment pond, ecological credits with acceptable plants and a level of added storage volume in the watershed to improve flood protection.

**Jurisdiction:** Private

**Costs:** \$2,928,284

### **BMP 3**

**Description:** Identified in Section 1.1 as “One of the most significant features along Long Branch Creek between monitoring sites 14 and 16”, this area contributes a significant pollutant load and



is located a floodplain sensitive area. The proposed BMP suggested in Section 1.4 includes a general layout of a berm and swale system that would be included as one of the components of an overall BMP for this private parcel.

To accomplish the overall goals of water quality improvements and flood protection BMP 2 as recommended would incorporate the suggested berm and swale feature and include providing a lowered stormwater storage area that can continued to be used by the owner and construct a discharge control structure with outfall pipe to provide some level of treatment prior to discharging into Long Branch Creek.

Benefits: Water Quality improvement and improved flood protection along Long Branch Creek.

Jurisdiction: Private

Costs: \$330,677

#### **BMP 4**

Description: BMP 4 is the outcome of the monitoring and water quality evaluation along Whitney Road and is described in Section 1.5 as Tributary inflow Site at monitoring sites 15 and 16. The recommendation is to construct small water quality treatment sites at shown on Figure 1-7, Available parcels in the vicinity of the Whitney Road drainage swale. It is also recommended to expand and enlarge an existing pond on the east side Long Branch Creek. The proposed concept plan identifies this area as model node NH0051 and the two previously pond areas as nodes NE0041 and NF0061. A Diversion structure is proposed to be constructed in the Whitney Road ditch to divert low flows into the small treatment pond NE0041 and a culvert connection from Long Branch Creek at node NG0170 to NH0051 pond. Pond NH0051 will provide additional storage and flow into Pond NF0061 where a discharge control structure will be constructed to provide a level of water quality treatment and flood protection for various storm events prior to discharge via culvert into Long Branch Creek.

Benefits: Water Quality improvement and improved flood protection along Long Branch Creek.

Jurisdiction: Private/County

Costs: \$455,287

#### **BMP 5**

Description: BMP 5 is proposed as an opportunity to provide stormwater storage near the upper reaches of the drainage system prior to stormwater runoff entering Long Branch Creek. The pond at model node NG0080 is proposed to be expanded to provide additional storage. Discharge will be regulated by a Control Structure to provide water quality treatment opportunity and discharged to meet SWFWMD ERP criteria for the 25 year storm event. Lower flood levels downstream of the proposed BMP will benefit the Long Branch Creek system in this area. By adding a small internal treatment system such as the "Suntree" along the internal side street prior to entering the expanded pond, this combination will help with the reduction sediment.

---

Benefits: Water quality improvements, sediment reduction and increased flood protection.

Jurisdiction: Private

Costs: \$505,722

## **BMP 6**

Description: BMP 6 is proposed as an opportunity to construct an off-line water quality facility and provide for increased stormwater runoff storage in the upper reaches of the drainage system and adjacent to an existing older housing development. The proposed BMP would expand the pond at model node ND0090 and also provide for water quality treatment where none is currently being provided prior to stormwater runoff entering Long Branch Creek due to these homes being constructed prior to current or stormwater regulations. Discharge will be regulated by a Control Structure to provide water quality treatment and provide a level of stormwater flood protection downstream of the proposed BMP and will benefit the Long Branch Creek system in this area. As mentioned in BMP 5 by adding a small internal treatment system such as the “Suntree” along the internal residential streets prior to entering the expanded pond will enhance the overall treatment train and provide help with the reduction of sediment in the pond.

Benefits: Water quality improvements, sediment reduction and increased flood protection.

Jurisdiction: County

Costs: \$121,265

## **BMP 7**

Description: BMP 7 is proposed provide for water quality improvement and increased stormwater runoff storage capacity in the upper reaches of the drainage system and adjacent to East Bay Drive to the north and residential/commercial facilities surrounding the BMP area. The proposed BMP would expand a smaller existing pond at node NC0050 and would discharge into the existing culvert and ditch system that ultimately reaches Long Branch Creek. Discharge will be regulated by a Control Structure to regulate water quality treatment and stormwater runoff discharge into the downstream system. As mentioned in BMP 5 by adding a small internal treatment system such as the “Suntree” along the internal residential streets prior to entering the expanded pond will enhance the overall treatment train and provide help with the reduction of sediment in the pond.

Benefits: Water quality improvements, sediment reduction and increased flood protection.

Jurisdiction: Private

Costs: \$198,655

---

**BMP 8**

Description: BMP 8 is a very good opportunity to construct a regional stormwater retention facility that would provide needed stormwater runoff storage capacity that would reduce the hydraulic grade line upstream and downstream of the proposed facility. Additionally, it would simplify the existing drainage system and pattern from the surrounding commercial and residential area that would enhance the overall system capacity and reduced maintenance issues. This BMP will also provide opportunity to implement soft engineered stream restoration with meandering low flow stream components using natural systems native to the area while providing stability of the system, maintenance considerations and capabilities, and costs. The proposed system will increase storage capacity if stormwater runoff and provide added flood protection during the higher critical storm events.

Benefits: Provide a regional stormwater detention facility that will increase flood protection, provide opportunity water quality and sediment reduction by means of natural stream restoration methods using current stream geomorphology assessment and natural channel design concepts.

Jurisdiction: Private

Costs: \$2,651,118

### **3.3 BMP Model Evaluation, Results and Recommendations**

The BMPs developed and evaluated under this study consists of various strategies from culvert improvements, construction of detention storage features, channel stabilization improvements to installation of a regional storage feature downstream. The recommended BMPs will provide the County a list of projects that will reduce flooding and improve water quality within the project area.

ICPR Model Results for each of the BMPs are discussed in detail under Section 3.3, BMP Analysis and Evaluation Results for the Proposed BMP Alternatives including discussion of the modeling methodology.

Additionally, one of the important measures considered during project development and evaluation of possible impacts to the environment, water quality pollutant load and flood impact reductions for various storm events.

Appendix B includes the resultant maps showing the 25 year and 100 year storm events and the positive impacts the proposed BMP have in improvements to flood reduction and water quality,



## Appendix A



# Long Branch Creek

BMP Opinion of Probable Costs				
BMP	Description	Primary And Secondary BMP Goals	Environmental/ERP Level of Permit Complexity	Amount
BMP 1	Tributary Monitoring Site 4 Project Area	Water Quality/Flood Protection	Moderate	\$540,922
BMP 2	Monitoring Site 8 and 9 Regional Stormwater Pond	Water Quality/Flood Protection	Moderate	\$2,928,284
BMP 3	Horse Farm Site	Water Quality/Flood Protection	Complex	\$330,677
BMP 4	Whitney Road Treatment Pond Sites	Water Quality/Flood Protection	Moderate	\$455,287
BMP 5	Dodge Street Retention Pond	Flood Protection/Water Quality	Low	\$505,722
BMP 6	Bunting Way Retention Pond Expansion	Flood Protection/Water Quality	Moderate	\$121,265
BMP 7	East Bay and Bedford Cir Retention Pond	Flood Protection/Water Quality	Low	\$198,655
BMP 8	East Bay and US19 Regional Pond	Flood Protection/Water Quality	High	\$2,651,118
<b>Total</b>				<b>\$7,731,930</b>







## Long Branch Creek

BMP No. 1				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$10,000.00	\$10,000
Floating Turbidity Barrier	LF	500.00	\$10.00	\$5,000
Silt Fence, Staked (FDOT Type III)	LF	6,200.00	\$2.00	\$12,400
Sodding	SY	3.55	\$3.50	\$12
Clearing and Grubbing	AC	3.55	\$5,200.00	\$18,460
Excavation and Haul	CY	12,000.00	\$12.00	\$144,000
Grading	LS	6,200.00	\$8.00	\$49,600
Creek Maintenance	LF	3,100.00	\$25.00	\$77,500
Remove and Relocate Existing Sanitary Sewer	LS	1.00	\$75,000.00	\$75,000
Subtotal				\$391,972
Unspecified Work (Allowance)				\$78,394
Engineering and Permitting				\$70,555
<b>Total Project</b>				<b>\$540,922</b>







## Long Branch Creek

BMP No. 2				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$10,000.00	10,000
Remediation Allowance	LS	1.00	\$100,000.00	100,000
Floating Turbidity Barrier	LF	200.00	\$10.00	2,000
Silt Fence, Staked (FDOT Type III)	LF	6,000.00	\$2.00	12,000
Sodding	SY	16,000.00	\$3.50	56,000
Clearing and Grubbing	AC	22.00	\$5,200.00	114,400
Excavation and Haul	CY	130,000.00	\$12.00	1,560,000
Grading	LS	1.00	\$150,000.00	150,000
Road Crossing - Remove and Replace Asphalt	SY	1.00	\$45.00	45
Diversion Structure	EA	2.00	\$10,000.00	25,000
Control Structure	LS	2.00	\$25,000.00	4,500
48" RCP Culvert	LF	400.00	\$210.00	84,000
48" MES	EA	2.00	\$2,000.00	4,000
Subtotal				2,121,945
Unspecified Work (Allowance)				424,389
Engineering and Permitting				381,950
Total Project Costs				<b>2,928,284</b>



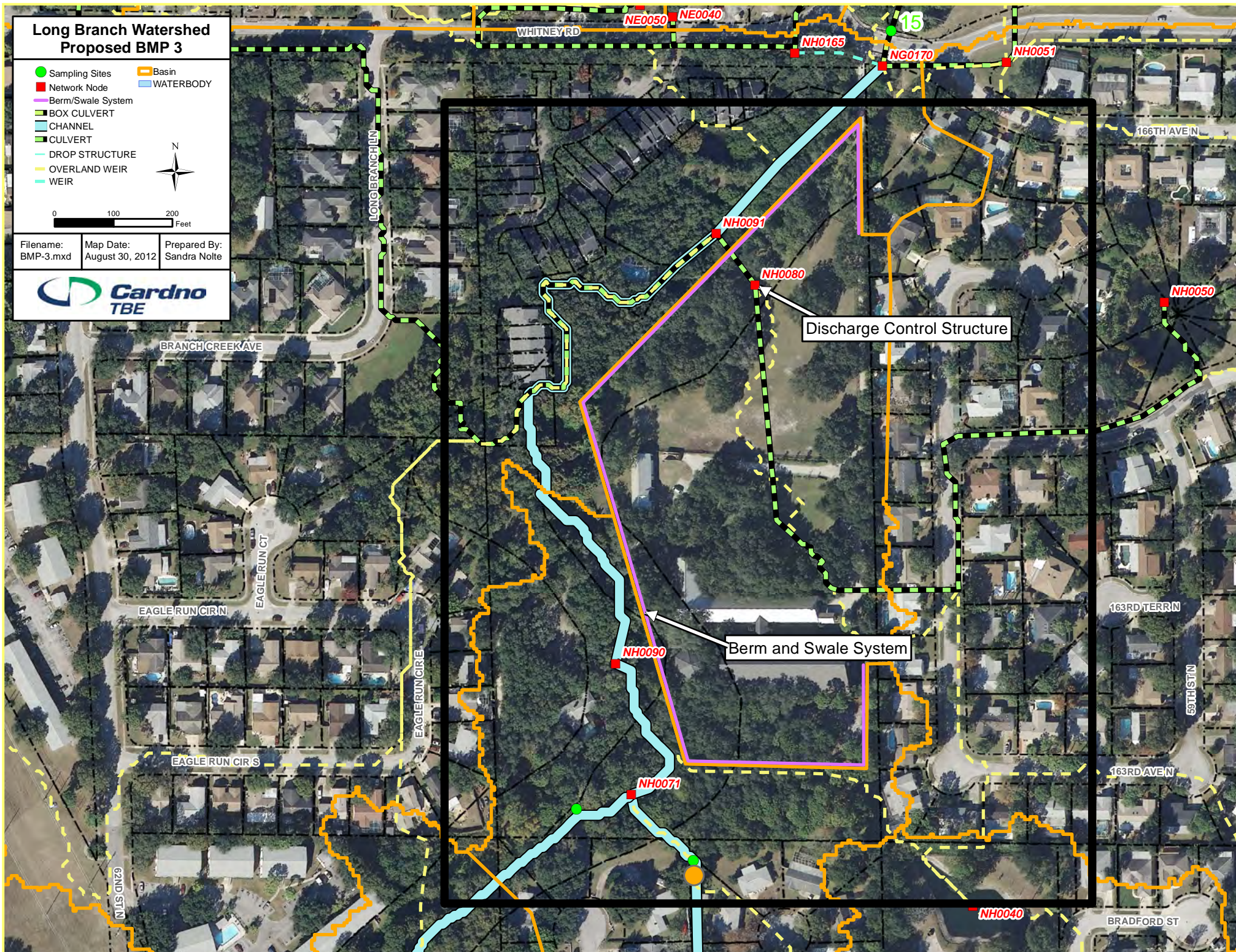
# Long Branch Watershed Proposed BMP 3

- Sampling Sites
  - Network Node
  - Berm/Swale System
  - BOX CULVERT
  - CHANNEL
  - CULVERT
  - DROP STRUCTURE
  - OVERLAND WEIR
  - WEIR
- Basin  
WATERBODY



0 100 200  
Feet

Filename: BMP-3.mxd  
Map Date: August 30, 2012  
Prepared By: Sandra Nolte





## Long Branch Creek

BMP No. 3				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$10,000.00	\$10,000
Floating Turbidity Barrier	LF	400.00	\$10.00	\$4,000
Silt Fence, Staked (FDOT Type III)	LF	6,000.00	\$2.00	\$12,000
Sodding	SY	21,000.00	\$3.50	\$73,500
Clearing and Grubbing	AC	2.38	\$5,200.00	\$12,376
Excavation and Haul	CY	5,600.00	\$12.00	\$67,200
Grading	LS	1.00	\$5,000.00	\$5,000
Road Crossing - Remove and Replace Asphalt	SY	1.00	\$45.00	\$45
Control Structure	LS	1.00	\$25,000.00	\$4,500
48" RCP Culvert	LF	100.00	\$210.00	\$21,000
48" MES	EA	1.00	\$2,000.00	\$2,000
Berm and Swale Structure	LS	1.00	\$28,000.00	\$28,000
Subtotal				\$239,621
Unspecified Work (Allowance)				\$47,924
Engineering and Permitting				\$43,132
Total Project Costs				<b>\$330,677</b>



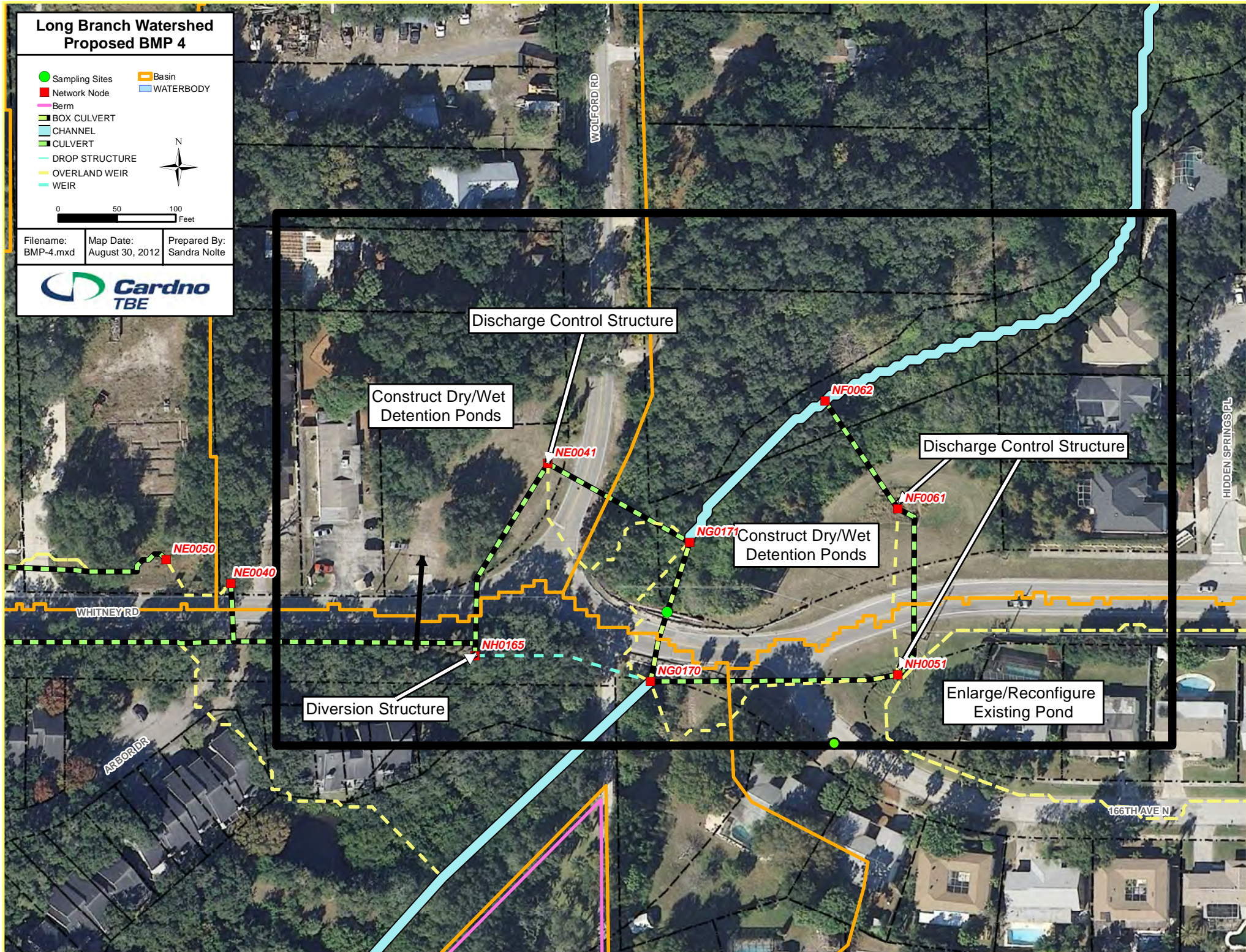
# Long Branch Watershed Proposed BMP 4

- Sampling Sites
  - Network Node
  - Berm
  - BOX CULVERT
  - CHANNEL
  - CULVERT
  - DROP STRUCTURE
  - OVERLAND WEIR
  - WEIR
- Basin  
WATERBODY



0 50 100  
Feet

Filename: BMP-4.mxd  
Map Date: August 30, 2012  
Prepared By: Sandra Nolte





## Long Branch Creek

BMP No. 4				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$10,000.00	\$10,000
Floating Turbidity Barrier	LF	300.00	\$10.00	\$3,000
Silt Fence, Staked (FDOT Type III)	LF	2,000.00	\$2.00	\$4,000
Sodding	SY	7,000.00	\$3.50	\$24,500
Clearing and Grubbing	AC	1.89	\$5,200.00	\$9,828
Excavation and Haul	CY	3,500.00	\$12.00	\$42,000
Grading	LS	1.00	\$15,000.00	\$15,000
Road Crossing - Remove and Replace Asphalt	SY	1.00	\$45.00	\$45
Diversion Structure	EA	1.00	\$10,000.00	\$25,000
Control Structure	LS	3.00	\$25,000.00	\$4,500
48" RCP Culvert	LF	500.00	\$210.00	\$105,000
48" MES	EA	6.00	\$2,000.00	\$12,000
Remove and Relocate Existing Sanitary Sewer	LS	1.00	\$75,000.00	\$75,000
Remove and Replace Asphalt Street	SY	1.00	\$45.00	\$45
Subtotal				\$329,918
Unspecified Work (Allowance)				\$65,984
Engineering and Permitting				\$59,385
Total Project Costs				<b>\$455,287</b>



[illegible]

## Retention Pond Expansion



## Long Branch Creek

BMP No. 5				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$8,000.00	\$10,000
Silt Fence, Staked (FDOT Type III)	LF	2,000.00	\$2.00	\$4,000
Sodding	SY	23,000.00	\$3.50	\$80,500
Clearing and Grubbing	AC	4.60	\$5,200.00	\$23,920
Excavation and Haul	CY	15,000.00	\$12.00	\$180,000
Grading	LS	1.00	\$5,000.00	\$5,000
Road Crossing - Remove and Replace Asphalt	SY	1.00	\$45.00	\$45
Control Structure	LS	1.00	\$5,000.00	\$4,500
Storm Manhole	EA	1.00	\$2,500.00	\$2,500
48" RCP Culvert	LF	100.00	\$210.00	\$21,000
Remove Existing Culverts	LF	200.00	\$50.00	\$10,000
Remove and Relocate Existing Sanitary Sewer	LS	1.00	\$2,500.00	\$2,500
Remove and Replace Asphalt Street	SY	500.00	\$45.00	\$22,500
Subtotal				\$366,465
Unspecified Work (Allowance)				\$73,293
Engineering and Permitting				\$65,964
Total Project Costs				<b>\$505,722</b>



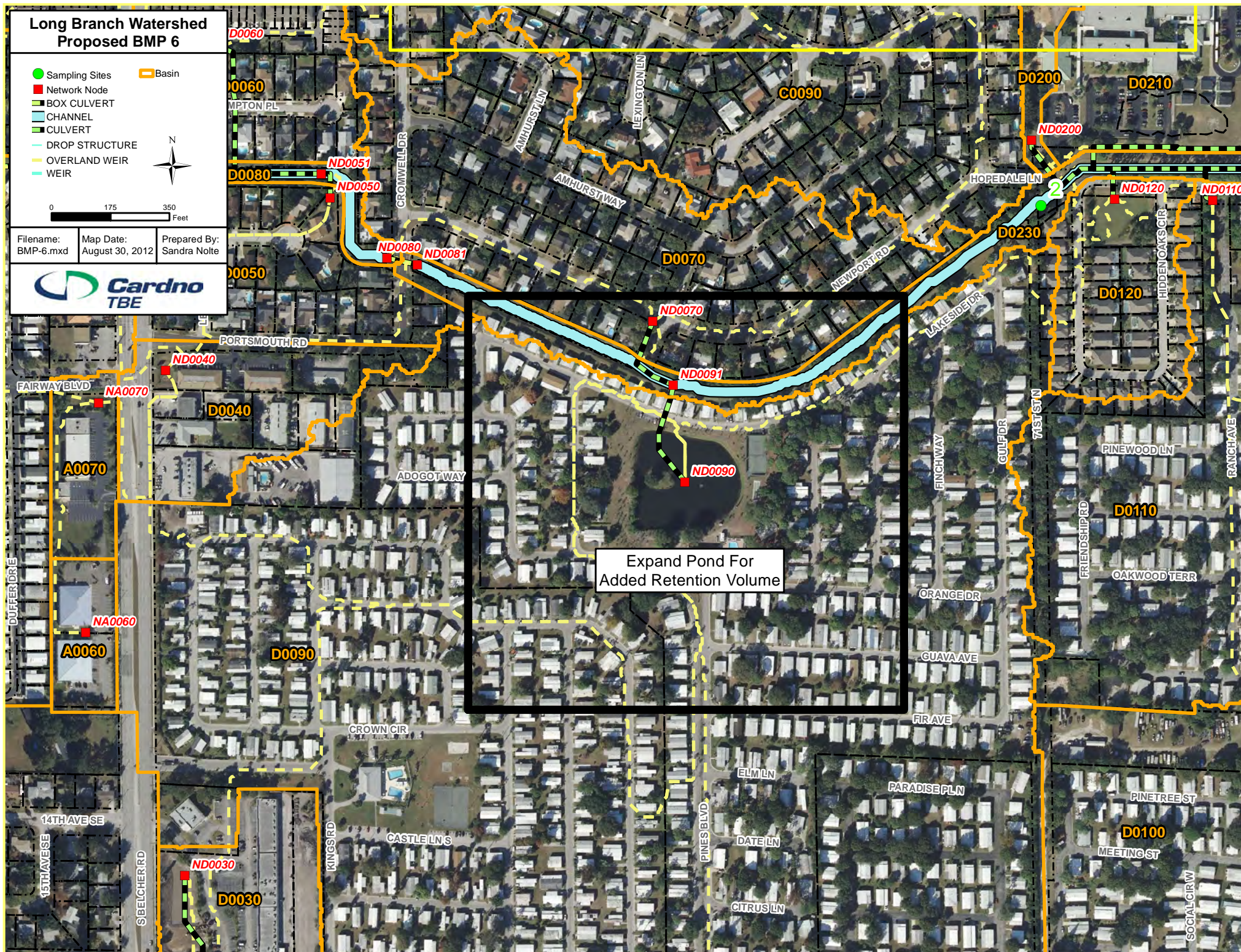
# Long Branch Watershed Proposed BMP 6

- Sampling Sites
- Network Node
- ▬ BOX CULVERT
- ▬ CHANNEL
- ▬ CULVERT
- ▬ DROP STRUCTURE
- ▬ OVERLAND WEIR
- ▬ WEIR



0 175 350  
Feet

Filename: BMP-6.mxd  
Map Date: August 30, 2012  
Prepared By: Sandra Nolte





## Long Branch Creek

BMP No. 6				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$8,000.00	\$10,000
Floating Turbidity Barrier	LF	200.00	\$10.00	\$2,000
Silt Fence, Staked (FDOT Type III)	LF	1,000.00	\$2.00	\$2,000
Sodding	SY	1.00	\$3.50	\$4
Clearing and Grubbing	AC	0.65	\$5,200.00	\$3,380
Excavation and Haul	CY	4,200.00	\$12.00	\$50,400
Grading	LS	1.00	\$5,000.00	\$5,000
Road Crossing - Remove and Replace Asphalt	SY	1.00	\$45.00	\$45
Remove and Relocate Existing Sanitary Sewer	LS	1.00	\$15,000.00	\$15,000
Remove and Replace Asphalt Street	SY	1.00	\$45.00	\$45
Subtotal				\$87,874
Unspecified Work (Allowance)	EA	1.00	\$8,000.00	\$17,575
Engineering and Permitting	EA	1.00	\$20,000.00	\$15,817
Total Project Costs				<b>\$121,265</b>



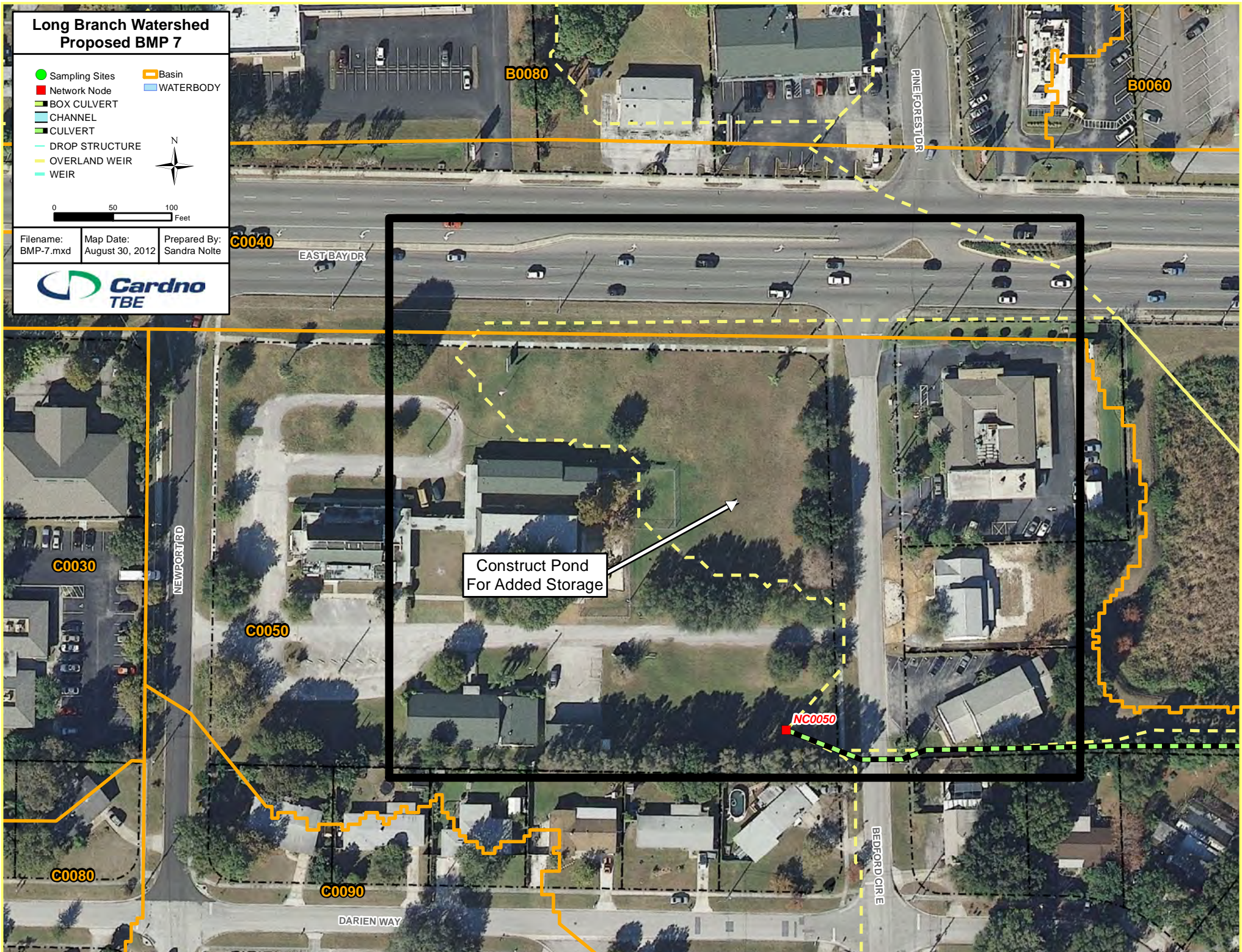
# Long Branch Watershed Proposed BMP 7

- Sampling Sites
- Network Node
- ▬ BOX CULVERT
- ▬ CHANNEL
- ▬ CULVERT
- ▬ DROP STRUCTURE
- ▬ OVERLAND WEIR
- ▬ WEIR



0 50 100  
Feet

Filename: BMP-7.mxd  
Map Date: August 30, 2012  
Prepared By: Sandra Nolte





## Long Branch Creek

BMP No. 7				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$8,000.00	\$10,000
Silt Fence, Staked (FDOT Type III)	LF	1.00	\$2.00	\$2
Sodding	SY	4,900.00	\$3.50	\$17,150
Clearing and Grubbing	AC	1.03	\$5,200.00	\$5,356
Excavation and Haul	CY	5,500.00	\$12.00	\$66,000
Grading	LS	1.00	\$8,000.00	\$8,000
Road Crossing - Remove and Replace Asphalt	SY	1.00	\$45.00	\$45
Control Structure	LS	1.00	\$8,000.00	\$4,500
Storm Inlets	EA	1.00	\$5,400.00	\$5,400
Storm Manhole	EA	1.00	\$6,500.00	\$6,500
48" RCP Culvert	LF	100.00	\$210.00	\$21,000
Subtotal				\$143,953
Unspecified Work (Allowance)	EA	1.00	\$8,000.00	\$28,791
Engineering and Permitting	EA	1.00	\$20,000.00	\$25,912
Total Project Costs				<b>\$198,655</b>



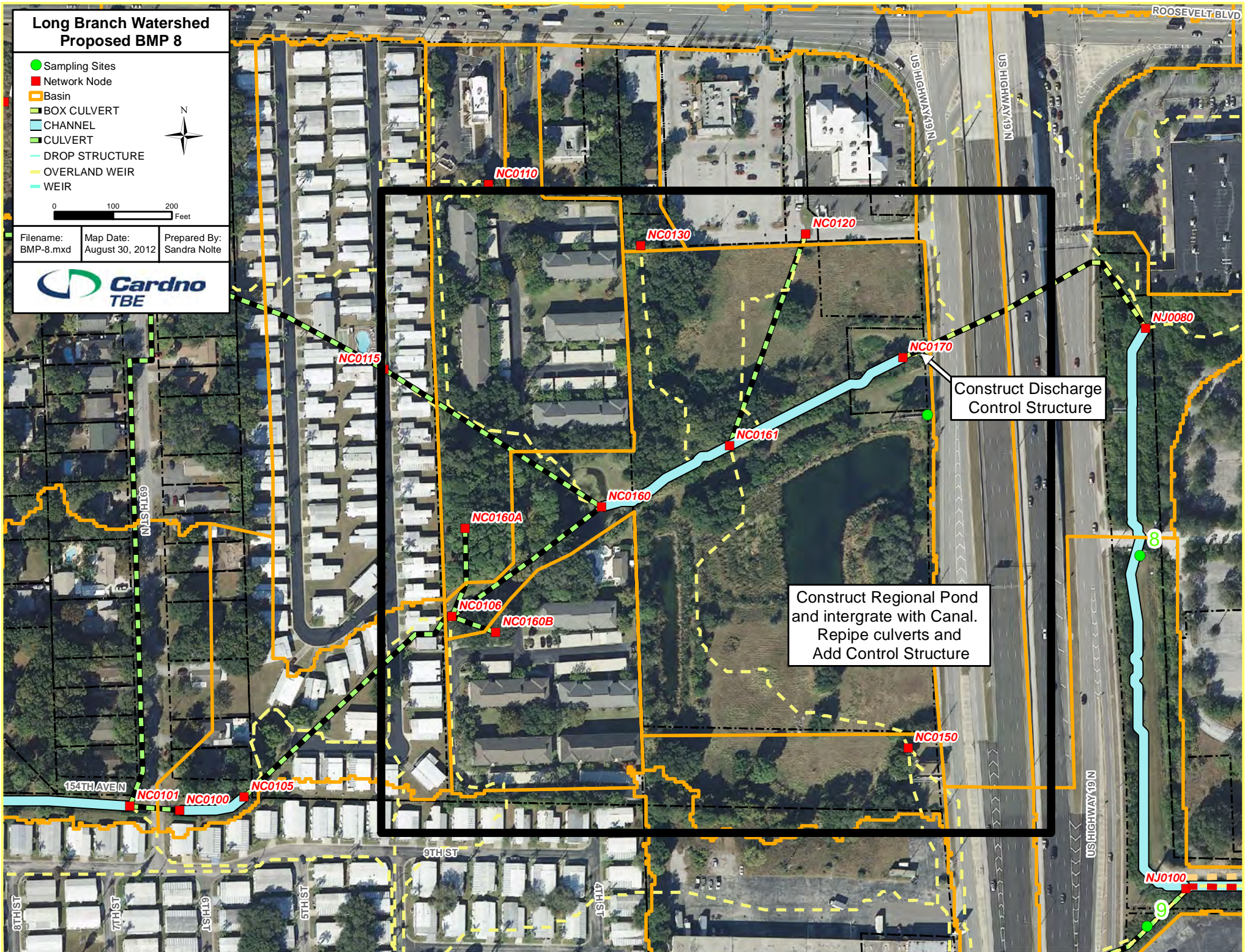
# Long Branch Watershed Proposed BMP 8

- Sampling Sites
- Network Node
- ▭ Basin
- ▭ BOX CULVERT
- ▭ CHANNEL
- ▭ CULVERT
- DROP STRUCTURE
- OVERLAND WEIR
- WEIR



0 100 200  
Feet

Filename: BMP-8.mxd Map Date: August 30, 2012 Prepared By: Sandra Nolte





## Long Branch Creek

BMP No. 8				
August 24, 2012				
Description	Unit	Quantity	Unit Price	Amount
Mobilization	LS	1.00	\$100,000.00	\$10,000
Remediation Allowance	LS	1.00	\$200,000.00	\$200,000
Floating Turbidity Barrier	LF	300.00	\$10.00	\$3,000
Silt Fence, Staked (FDOT Type III)	LF	5,000.00	\$2.00	\$10,000
Sodding	SY	15,000.00	\$3.50	\$52,500
Clearing and Grubbing	AC	10.50	\$5,200.00	\$54,600
Excavation and Haul	CY	62,500.00	\$12.00	\$750,000
Grading	LS	1.00	\$150,000.00	\$150,000
Control Structure	LS	1.00	\$25,000.00	\$4,500
Remove Existing Culverts	LS	1.00	\$4,000.00	\$4,000
Environmental Planting and Rrestoration	AC	10.50	\$65,000.00	\$682,500
Subtotal				\$1,921,100
Unspecified Work (Allowance)	EA	1.00	\$8,000.00	\$384,220
Engineering and Permitting	EA	1.00	\$20,000.00	\$345,798
Total Project Costs				<b>\$2,651,118</b>

**Table 1-2**  
**Long Branch Creek Land Use Summary**

BASINSHD	FLUCCSCODE	FLUCDESC	LandUse Sq Ft	LandUse Acreage	Basin Sq Ft	Basin Acreage	Percent of LandUse
A0010	1300	RESIDENTIAL HIGH DENSITY	14,528.00	0.33	309,671.63	7.11	0.05
A0010	1500	INDUSTRIAL	285,830.54	6.56	309,671.63	7.11	0.92
A0010	5300	RESERVOIRS	9,313.08	0.21	309,671.63	7.11	0.03
A0020	1300	RESIDENTIAL HIGH DENSITY	715,534.89	16.43	988,099.53	22.68	0.72
A0020	1500	INDUSTRIAL	494.29	0.01	988,099.53	22.68	0.00
A0020	5300	RESERVOIRS	233,708.00	5.37	988,099.53	22.68	0.24
A0020	8100	TRANSPORTATION	38,362.35	0.88	988,099.53	22.68	0.04
A0030	1300	RESIDENTIAL HIGH DENSITY	482,183.38	11.07	572,446.27	13.14	0.84
A0030	5300	RESERVOIRS	90,262.89	2.07	572,446.27	13.14	0.16
A0040	1300	RESIDENTIAL HIGH DENSITY	329,359.02	7.56	383,215.16	8.80	0.86
A0040	5300	RESERVOIRS	19,525.06	0.45	383,215.16	8.80	0.05
A0040	8100	TRANSPORTATION	34,331.08	0.79	383,215.16	8.80	0.09
A0050	1300	RESIDENTIAL HIGH DENSITY	235,293.02	5.40	259,781.99	5.96	0.91
A0050	8100	TRANSPORTATION	24,488.97	0.56	259,781.99	5.96	0.09
A0060	1300	RESIDENTIAL HIGH DENSITY	6,917.30	0.16	88,572.78	2.03	0.08
A0060	1400	COMMERCIAL AND SERVICES	81,655.48	1.87	88,572.78	2.03	0.92
A0070	1300	RESIDENTIAL HIGH DENSITY	13,950.09	0.32	107,875.77	2.48	0.13
A0070	1400	COMMERCIAL AND SERVICES	90,288.12	2.07	107,875.77	2.48	0.84
A0070	8100	TRANSPORTATION	3,637.55	0.08	107,875.77	2.48	0.03
A0080	1300	RESIDENTIAL HIGH DENSITY	2,541,091.20	58.34	2,867,399.21	65.83	0.89
A0080	1400	COMMERCIAL AND SERVICES	600.18	0.01	2,867,399.21	65.83	0.00
A0080	1800	RECREATIONAL	90,943.49	2.09	2,867,399.21	65.83	0.03
A0080	1820	GOLF COURSES	20,088.37	0.46	2,867,399.21	65.83	0.01
A0080	5300	RESERVOIRS	174,362.83	4.00	2,867,399.21	65.83	0.06
A0080	8100	TRANSPORTATION	40,310.49	0.93	2,867,399.21	65.83	0.01
B0010	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	770.19	0.02	73,350.00	1.68	0.01
B0010	1300	RESIDENTIAL HIGH DENSITY	72,579.81	1.67	73,350.00	1.68	0.99
B0020	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	119,459.94	2.74	335,061.21	7.69	0.36
B0020	1300	RESIDENTIAL HIGH DENSITY	6,818.75	0.16	335,061.21	7.69	0.02
B0020	1400	COMMERCIAL AND SERVICES	208,782.52	4.79	335,061.21	7.69	0.62
B0030	1300	RESIDENTIAL HIGH DENSITY	2,647.01	0.06	468,777.96	10.76	0.01
B0030	1400	COMMERCIAL AND SERVICES	466,111.54	10.70	468,777.96	10.76	0.99
B0030	6410	FRESHWATER MARSHES	19.41	0.00	468,777.96	10.76	0.00
B0040	1400	COMMERCIAL AND SERVICES	275,450.00	6.32	275,450.00	6.32	1.00
B0050	1400	COMMERCIAL AND SERVICES	675,620.14	15.51	689,680.51	15.83	0.98
B0050	8100	TRANSPORTATION	14,060.37	0.32	689,680.51	15.83	0.02
B0055	1400	COMMERCIAL AND SERVICES	143,356.40	3.29	144,159.03	3.31	0.99
B0055	8100	TRANSPORTATION	802.63	0.02	144,159.03	3.31	0.01
B0060	1400	COMMERCIAL AND SERVICES	234,256.56	5.38	254,350.00	5.84	0.92
B0060	5300	RESERVOIRS	20,093.44	0.46	254,350.00	5.84	0.08
B0070	1400	COMMERCIAL AND SERVICES	117,779.94	2.70	127,186.15	2.92	0.93
B0070	6410	FRESHWATER MARSHES	9,406.21	0.22	127,186.15	2.92	0.07
B0080	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	138,935.19	3.19	1,495,587.82	34.33	0.09
B0080	1300	RESIDENTIAL HIGH DENSITY	532,265.78	12.22	1,495,587.82	34.33	0.36
B0080	1400	COMMERCIAL AND SERVICES	210,627.60	4.84	1,495,587.82	34.33	0.14
B0080	1500	INDUSTRIAL	569,632.52	13.08	1,495,587.82	34.33	0.38
B0080	5300	RESERVOIRS	44,126.73	1.01	1,495,587.82	34.33	0.03
B0090	1300	RESIDENTIAL HIGH DENSITY	2,543.42	0.06	426,641.62	9.79	0.01
B0090	1400	COMMERCIAL AND SERVICES	8,157.46	0.19	426,641.62	9.79	0.02
B0090	8100	TRANSPORTATION	415,940.74	9.55	426,641.62	9.79	0.97
C0010	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	3,616.76	0.08	224,802.78	5.16	0.02
C0010	1300	RESIDENTIAL HIGH DENSITY	3,991.69	0.09	224,802.78	5.16	0.02
C0010	1400	COMMERCIAL AND SERVICES	67,784.24	1.56	224,802.78	5.16	0.30
C0010	8100	TRANSPORTATION	149,410.09	3.43	224,802.78	5.16	0.66
C0020	1300	RESIDENTIAL HIGH DENSITY	43,619.70	1.00	325,774.80	7.48	0.13
C0020	1400	COMMERCIAL AND SERVICES	282,155.10	6.48	325,774.80	7.48	0.87
C0030	1300	RESIDENTIAL HIGH DENSITY	46,004.48	1.06	382,815.95	8.79	0.12
C0030	1400	COMMERCIAL AND SERVICES	336,811.47	7.73	382,815.95	8.79	0.88
C0040	1400	COMMERCIAL AND SERVICES	119,918.51	2.75	307,478.02	7.06	0.39
C0040	1700	INSTITUTIONAL	10,488.36	0.24	307,478.02	7.06	0.03
C0040	8100	TRANSPORTATION	177,071.15	4.06	307,478.02	7.06	0.58
C0050	1300	RESIDENTIAL HIGH DENSITY	497,848.54	11.43	893,265.79	20.51	0.56
C0050	1400	COMMERCIAL AND SERVICES	182,633.81	4.19	893,265.79	20.51	0.20
C0050	1700	INSTITUTIONAL	212,783.44	4.88	893,265.79	20.51	0.24
C0060	1300	RESIDENTIAL HIGH DENSITY	81,903.34	1.88	101,739.81	2.34	0.81
C0060	8100	TRANSPORTATION	19,836.47	0.46	101,739.81	2.34	0.19
C0070	1300	RESIDENTIAL HIGH DENSITY	489,968.91	11.25	668,060.82	15.34	0.73
C0070	5300	RESERVOIRS	130,367.29	2.99	668,060.82	15.34	0.20
C0070	8100	TRANSPORTATION	47,724.62	1.10	668,060.82	15.34	0.07
C0080	1300	RESIDENTIAL HIGH DENSITY	1,818,261.60	41.74	1,989,202.88	45.67	0.91
C0080	1400	COMMERCIAL AND SERVICES	112,719.60	2.59	1,989,202.88	45.67	0.06
C0080	5300	RESERVOIRS	54,924.54	1.26	1,989,202.88	45.67	0.03
C0080	8100	TRANSPORTATION	3,297.14	0.08	1,989,202.88	45.67	0.00
C0090	1300	RESIDENTIAL HIGH DENSITY	3,447,324.57	79.14	3,620,459.09	83.11	0.95
C0090	1400	COMMERCIAL AND SERVICES	1,651.61	0.04	3,620,459.09	83.11	0.00
C0090	1700	INSTITUTIONAL	21,498.34	0.49	3,620,459.09	83.11	0.01
C0090	5300	RESERVOIRS	149,984.57	3.44	3,620,459.09	83.11	0.04
C0105	1300	RESIDENTIAL HIGH DENSITY	139,172.41	3.19	139,172.41	3.19	1.00
C0110	1300	RESIDENTIAL HIGH DENSITY	4.81	0.00	32,250.00	0.74	0.00
C0110	1400	COMMERCIAL AND SERVICES	32,245.19	0.74	32,250.00	0.74	1.00
C0115	1300	RESIDENTIAL HIGH DENSITY	285,255.24	6.55	290,235.24	6.66	0.98
C0115	1400	COMMERCIAL AND SERVICES	912.35	0.02	290,235.24	6.66	0.00
C0115	6300	WETLAND FORESTED MIXED	3,681.73	0.08	290,235.24	6.66	0.01
C0115	8100	TRANSPORTATION	385.92	0.01	290,235.24	6.66	0.00
C0120	1400	COMMERCIAL AND SERVICES	136,525.41	3.13	137,008.25	3.15	1.00
C0120	8100	TRANSPORTATION	482.84	0.01	137,008.25	3.15	0.00
C0130	1300	RESIDENTIAL HIGH DENSITY	1,299.70	0.03	59,956.26	1.38	0.02
C0130	1400	COMMERCIAL AND SERVICES	58,656.56	1.35	59,956.26	1.38	0.98
C0150	1300	RESIDENTIAL HIGH DENSITY	236.86	0.01	74,866.00	1.72	0.00
C0150	1500	INDUSTRIAL	32,630.69	0.75	74,866.00	1.72	0.44
C0150	1900	OPEN LAND	41,998.46	0.96	74,866.00	1.72	0.56
C0160	1300	RESIDENTIAL HIGH DENSITY	14.98	0.00	14.98	0.34	0.00
C0160A	1300	RESIDENTIAL HIGH DENSITY	128,085.22	2.94	186,703.39	4.29	0.69
C0160A	1400	COMMERCIAL AND SERVICES	25,118.75	0.58	186,703.39	4.29	0.13
C0160A	6300	WETLAND FORESTED MIXED	32,417.65	0.74	186,703.39	4.29	0.17
C0160A	6410	FRESHWATER MARSHES	1,081.77	0.02	186,703.39	4.29	0.01
C0160B	1300	RESIDENTIAL HIGH DENSITY	117,765.64	2.70	117,827.88	2.70	1.00
C0160B	5300	RESERVOIRS	62.24	0.00	117,827.88	2.70	0.00
C0160C	1300	RESIDENTIAL HIGH DENSITY	33,735.16	0.77	468,374.73	10.75	0.07
C0160C	1400	COMMERCIAL AND SERVICES	3,211.51	0.07	468,374.73	10.75	0.01
C0160C	1900	OPEN LAND	369,240.99	8.48	468,374.73	10.75	0.79
C0160C	5300	RESERVOIRS	47,355.21	1.09	468,374.73	10.75	0.10

**Table 1-2  
Long Branch Creek Land Use Summary**

BASINSHD	FLUCCODE	FLUCDESC	LandUse Sq Ft	LandUse Acreage	Basin Sq Ft	Basin Acreage	Percent of LandUse
C0160C	6300	WETLAND FORESTED MIXED	994.75	0.02	468,374.73	10.75	0.00
C0160C	6410	FRESHWATER MARSHES	12,336.23	0.28	468,374.73	10.75	0.03
C0160C	8100	TRANSPORTATION	1,500.86	0.03	468,374.73	10.75	0.00
C0170	1300	RESIDENTIAL HIGH DENSITY	1,260.20	0.03	298,000.30	7.42	0.00
C0170	1400	COMMERCIAL AND SERVICES	7,364.97	0.17	298,000.30	7.42	0.02
C0170	1500	INDUSTRIAL	785.50	0.02	298,000.30	7.42	0.00
C0170	1900	OPEN LAND	3,343.29	0.08	298,000.30	7.42	0.01
C0170	8100	TRANSPORTATION	285,246.34	6.55	298,000.30	7.42	0.88
D0010	1400	COMMERCIAL AND SERVICES	42,916.24	0.99	43,125.00	0.99	1.00
D0010	8100	TRANSPORTATION	208.76	0.00	43,125.00	0.99	0.00
D0020	1400	COMMERCIAL AND SERVICES	16,050.00	0.37	16,050.00	0.37	1.00
D0030	1400	COMMERCIAL AND SERVICES	252,085.88	5.79	273,725.00	6.28	0.92
D0030	5300	RESERVOIRS	19,661.94	0.45	273,725.00	6.28	0.07
D0030	8100	TRANSPORTATION	1,977.18	0.05	273,725.00	6.28	0.01
D0040	1300	RESIDENTIAL HIGH DENSITY	103,443.99	2.37	287,418.44	6.60	0.36
D0040	1400	COMMERCIAL AND SERVICES	135,047.04	3.10	287,418.44	6.60	0.47
D0040	8100	TRANSPORTATION	48,927.41	1.12	287,418.44	6.60	0.17
D0050	1300	RESIDENTIAL HIGH DENSITY	331,883.42	7.62	359,042.33	8.24	0.92
D0050	8100	TRANSPORTATION	27,158.91	0.62	359,042.33	8.24	0.08
D0060	1300	RESIDENTIAL HIGH DENSITY	306,791.26	7.04	336,478.58	7.72	0.91
D0060	8100	TRANSPORTATION	29,687.33	0.68	336,478.58	7.72	0.09
D0070	1300	RESIDENTIAL HIGH DENSITY	922,565.18	21.18	922,565.50	21.18	1.00
D0080	1300	RESIDENTIAL HIGH DENSITY	62,494.39	1.43	66,271.89	1.52	0.94
D0080	8100	TRANSPORTATION	3,777.49	0.09	66,271.89	1.52	0.06
D0090	1300	RESIDENTIAL HIGH DENSITY	4,749,569.98	109.04	5,254,524.59	120.63	0.90
D0090	1400	COMMERCIAL AND SERVICES	196,435.18	4.51	5,254,524.59	120.63	0.04
D0090	1800	RECREATIONAL	146,171.15	3.36	5,254,524.59	120.63	0.03
D0090	5300	RESERVOIRS	74,454.95	1.71	5,254,524.59	120.63	0.01
D0090	8100	TRANSPORTATION	87,893.32	2.02	5,254,524.59	120.63	0.02
D0100	1300	RESIDENTIAL HIGH DENSITY	1,707,680.99	39.20	1,755,319.24	40.30	0.97
D0100	1500	INDUSTRIAL	1,029.41	0.02	1,755,319.24	40.30	0.00
D0100	1700	INSTITUTIONAL	2,804.05	0.06	1,755,319.24	40.30	0.00
D0100	5300	RESERVOIRS	43,804.79	1.01	1,755,319.24	40.30	0.02
D0110	1300	RESIDENTIAL HIGH DENSITY	744,187.78	17.08	744,187.78	17.08	1.00
D0120	1300	RESIDENTIAL HIGH DENSITY	219,460.87	5.04	247,100.00	5.67	0.89
D0120	6530	INTERMITTENT PONDS	27,639.13	0.63	247,100.00	5.67	0.11
D0130	1300	RESIDENTIAL HIGH DENSITY	1,135,307.64	26.06	1,369,627.11	31.44	0.83
D0130	1400	COMMERCIAL AND SERVICES	227,948.87	5.23	1,369,627.11	31.44	0.17
D0130	1500	INDUSTRIAL	2,514.67	0.06	1,369,627.11	31.44	0.00
D0130	1700	INSTITUTIONAL	3,559.24	0.08	1,369,627.11	31.44	0.00
D0130	8100	TRANSPORTATION	296.69	0.01	1,369,627.11	31.44	0.00
D0140	1300	RESIDENTIAL HIGH DENSITY	15,073.38	0.35	40,500.00	0.93	0.37
D0140	1400	COMMERCIAL AND SERVICES	24,824.17	0.57	40,500.00	0.93	0.61
D0140	8100	TRANSPORTATION	602.46	0.01	40,500.00	0.93	0.01
D0150	1300	RESIDENTIAL HIGH DENSITY	8,125.14	0.19	383,000.00	8.79	0.02
D0150	1400	COMMERCIAL AND SERVICES	374,873.21	8.61	383,000.00	8.79	0.98
D0150	8100	TRANSPORTATION	1.64	0.00	383,000.00	8.79	0.00
D0160	1300	RESIDENTIAL HIGH DENSITY	2,150.07	0.05	204,700.83	4.70	0.01
D0160	1400	COMMERCIAL AND SERVICES	202,079.47	4.64	204,700.83	4.70	0.99
D0160	8100	TRANSPORTATION	471.29	0.01	204,700.83	4.70	0.00
D0170	1300	RESIDENTIAL HIGH DENSITY	275.63	0.01	219,575.00	5.04	0.00
D0170	1400	COMMERCIAL AND SERVICES	200,906.39	4.61	219,575.00	5.04	0.91
D0170	5300	RESERVOIRS	18,392.97	0.42	219,575.00	5.04	0.08
D0180	1400	COMMERCIAL AND SERVICES	206,991.20	4.75	206,991.20	4.75	1.00
D0190	1300	RESIDENTIAL HIGH DENSITY	1,872,754.51	42.99	2,137,943.21	49.08	0.88
D0190	1400	COMMERCIAL AND SERVICES	19,077.46	0.44	2,137,943.21	49.08	0.01
D0190	5300	RESERVOIRS	129,784.83	2.98	2,137,943.21	49.08	0.06
D0190	8300	UTILITIES	116,326.41	2.67	2,137,943.21	49.08	0.05
D0200	1300	RESIDENTIAL HIGH DENSITY	13,124.28	0.30	80,708.90	1.85	0.16
D0200	1700	INSTITUTIONAL	67,584.63	1.55	80,708.90	1.85	0.84
D0210	1700	INSTITUTIONAL	416,666.10	9.57	416,666.10	9.57	1.00
D0220	1300	RESIDENTIAL HIGH DENSITY	1,542,292.05	35.41	1,638,278.97	37.61	0.94
D0220	1500	INDUSTRIAL	7,551.95	0.17	1,638,278.97	37.61	0.00
D0220	1700	INSTITUTIONAL	6,333.33	0.15	1,638,278.97	37.61	0.00
D0220	1900	OPEN LAND	8.06	0.00	1,638,278.97	37.61	0.00
D0220	5300	RESERVOIRS	82,093.54	1.88	1,638,278.97	37.61	0.05
D0230	1300	RESIDENTIAL HIGH DENSITY	339,198.67	7.79	363,368.46	8.34	0.93
D0230	1700	INSTITUTIONAL	24,170.11	0.55	363,368.46	8.34	0.07
D0240	1300	RESIDENTIAL HIGH DENSITY	81.56	0.00	95,412.50	2.19	0.00
D0240	1400	COMMERCIAL AND SERVICES	1,062.73	0.02	95,412.50	2.19	0.01
D0240	8100	TRANSPORTATION	94,268.21	2.16	95,412.50	2.19	0.99
D0250	1300	RESIDENTIAL HIGH DENSITY	1,055.93	0.02	435,270.20	9.99	0.00
D0250	1400	COMMERCIAL AND SERVICES	102,545.57	2.35	435,270.20	9.99	0.24
D0250	5300	RESERVOIRS	38,747.09	0.89	435,270.20	9.99	0.09
D0250	8100	TRANSPORTATION	292,921.61	6.72	435,270.20	9.99	0.67
D0260	1400	COMMERCIAL AND SERVICES	11,880.02	0.27	405,732.17	9.31	0.03
D0260	5300	RESERVOIRS	1,186.42	0.03	405,732.17	9.31	0.00
D0260	8100	TRANSPORTATION	392,665.74	9.01	405,732.17	9.31	0.97
D0270	1300	RESIDENTIAL HIGH DENSITY	568.36	0.01	477,206.95	10.96	0.00
D0270	1400	COMMERCIAL AND SERVICES	309,775.74	7.11	477,206.95	10.96	0.65
D0270	1500	INDUSTRIAL	163,025.74	3.74	477,206.95	10.96	0.34
D0270	8100	TRANSPORTATION	3,837.08	0.09	477,206.95	10.96	0.01
D0280	1300	RESIDENTIAL HIGH DENSITY	1,631.07	0.04	159,548.27	3.66	0.01
D0280	1500	INDUSTRIAL	153,549.13	3.53	159,548.27	3.66	0.96
D0280	1900	OPEN LAND	3,478.03	0.08	159,548.27	3.66	0.02
D0280	8100	TRANSPORTATION	890.07	0.02	159,548.27	3.66	0.01
D0290	1300	RESIDENTIAL HIGH DENSITY	23,454.36	0.54	271,383.71	6.23	0.09
D0290	1400	COMMERCIAL AND SERVICES	22,489.02	0.52	271,383.71	6.23	0.08
D0290	1500	INDUSTRIAL	45,950.99	1.05	271,383.71	6.23	0.17
D0290	8100	TRANSPORTATION	179,489.38	4.12	271,383.71	6.23	0.66
E0010	1300	RESIDENTIAL HIGH DENSITY	537,877.28	12.35	551,169.93	12.65	0.98
E0010	5300	RESERVOIRS	13,292.64	0.31	551,169.93	12.65	0.02
E0020	1300	RESIDENTIAL HIGH DENSITY	175,710.81	4.03	182,512.99	4.19	0.96
E0020	5300	RESERVOIRS	6,802.18	0.16	182,512.99	4.19	0.04
E0030	1300	RESIDENTIAL HIGH DENSITY	712,850.94	16.36	712,850.94	16.36	1.00
E0040	1300	RESIDENTIAL HIGH DENSITY	637,997.10	14.65	646,836.76	14.85	0.99
E0040	6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	8,839.66	0.20	646,836.76	14.85	0.01
E0050	1300	RESIDENTIAL HIGH DENSITY	192,430.23	4.42	192,430.23	4.42	1.00
E0060	1300	RESIDENTIAL HIGH DENSITY	265,068.39	6.09	288,022.28	6.61	0.92
E0060	5400	BAYS AND ESTUARIES	13,361.82	0.31	288,022.28	6.61	0.05
E0060	6120	MANGROVE SWAMPS	9,592.07	0.22	288,022.28	6.61	0.03
E0070	1300	RESIDENTIAL HIGH DENSITY	2,148,916.68	49.33	2,176,314.03	49.96	0.99
E0070	5400	BAYS AND ESTUARIES	397.83	0.01	2,176,314.03	49.96	0.00



**Table 1-2**  
**Long Branch Creek Land Use Summary**

BASINSHD	FLUCCODE	FLUCDESC	LandUse Sq Ft	LandUse Acreage	Basin Sq Ft	Basin Acreage	Percent of LandUse
E0070	6120	MANGROVE SWAMPS	26,999.53	0.62	2,176,314.03	49.96	0.01
E0080	1300	RESIDENTIAL HIGH DENSITY	423,535.25	9.72	423,535.33	9.72	1.00
E0090	1300	RESIDENTIAL HIGH DENSITY	423,183.89	9.71	446,278.24	10.25	0.95
E0090	5300	RESERVOIRS	23,032.42	0.53	446,278.24	10.25	0.05
E0090	6120	MANGROVE SWAMPS	62.17	0.00	446,278.24	10.25	0.00
E0100	1300	RESIDENTIAL HIGH DENSITY	321,857.60	7.39	321,857.51	7.39	1.00
F0010	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	256,426.02	5.89	268,666.02	6.17	0.95
F0010	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	2,144.17	0.05	268,666.02	6.17	0.01
F0010	4340	HARDWOOD CONIFER MIXED	10,095.83	0.23	268,666.02	6.17	0.04
F0020	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	122,971.84	2.82	138,254.69	3.17	0.89
F0020	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	122.57	0.00	138,254.69	3.17	0.00
F0020	6440	EMERGENT AQUATIC VEGETATION	15,160.29	0.35	138,254.69	3.17	0.11
F0030	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	127,659.79	2.93	154,550.49	3.55	0.83
F0030	1300	RESIDENTIAL HIGH DENSITY	26,890.70	0.62	154,550.49	3.55	0.17
F0040	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	75,054.39	1.72	1,727,794.57	39.66	0.04
F0040	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	1,228.25	0.03	1,727,794.57	39.66	0.00
F0040	1300	RESIDENTIAL HIGH DENSITY	1,258,559.88	28.89	1,727,794.57	39.66	0.73
F0040	1800	RECREATIONAL	25,360.91	0.58	1,727,794.57	39.66	0.01
F0040	1900	OPEN LAND	41,158.94	0.94	1,727,794.57	39.66	0.02
F0040	4340	HARDWOOD CONIFER MIXED	6,146.24	0.14	1,727,794.57	39.66	0.00
F0040	5300	RESERVOIRS	320,285.79	7.35	1,727,794.57	39.66	0.19
F0050	1300	RESIDENTIAL HIGH DENSITY	360,779.35	8.28	362,267.14	8.32	1.00
F0050	6120	MANGROVE SWAMPS	1,487.62	0.03	362,267.14	8.32	0.00
F0060	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	187,199.23	4.30	1,839,457.99	42.23	0.10
F0060	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	186.31	0.00	1,839,457.99	42.23	0.00
F0060	1300	RESIDENTIAL HIGH DENSITY	546,615.42	12.55	1,839,457.99	42.23	0.30
F0060	5400	BAYS AND ESTUARIES	112,023.71	2.57	1,839,457.99	42.23	0.06
F0060	6120	MANGROVE SWAMPS	707,561.62	16.24	1,839,457.99	42.23	0.38
F0060	6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	285,871.79	6.56	1,839,457.99	42.23	0.16
G0010	1300	RESIDENTIAL HIGH DENSITY	207,175.47	4.76	207,175.47	4.76	1.00
G0020	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	2,221.72	0.05	556,922.99	12.79	0.00
G0020	1300	RESIDENTIAL HIGH DENSITY	482,995.00	11.09	556,922.99	12.79	0.87
G0020	1400	COMMERCIAL AND SERVICES	4,976.23	0.11	556,922.99	12.79	0.01
G0020	5300	RESERVOIRS	60,814.15	1.40	556,922.99	12.79	0.11
G0020	8300	UTILITIES	5,915.90	0.14	556,922.99	12.79	0.01
G0030	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	54,915.11	1.26	570,894.94	13.11	0.10
G0030	1400	COMMERCIAL AND SERVICES	505,710.54	11.61	570,894.94	13.11	0.89
G0030	8100	TRANSPORTATION	10,269.29	0.24	570,894.94	13.11	0.02
G0040	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	427,870.00	9.82	690,376.36	15.85	0.62
G0040	1300	RESIDENTIAL HIGH DENSITY	190,023.63	4.36	690,376.36	15.85	0.28
G0040	1400	COMMERCIAL AND SERVICES	63,974.82	1.47	690,376.36	15.85	0.09
G0040	1900	OPEN LAND	8,507.92	0.20	690,376.36	15.85	0.01
G0050	1300	RESIDENTIAL HIGH DENSITY	179,492.30	4.12	279,450.00	6.42	0.64
G0050	8300	UTILITIES	99,957.70	2.29	279,450.00	6.42	0.36
G0060	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	5,963.84	0.14	576,954.42	13.25	0.01
G0060	1300	RESIDENTIAL HIGH DENSITY	570,990.58	13.11	576,954.42	13.25	0.99
G0070	1400	COMMERCIAL AND SERVICES	245,687.43	5.64	260,747.19	5.99	0.94
G0070	1900	OPEN LAND	13,138.43	0.30	260,747.19	5.99	0.05
G0070	8100	TRANSPORTATION	1,921.34	0.04	260,747.19	5.99	0.01
G0080	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	107,244.02	2.46	488,057.72	11.20	0.22
G0080	1300	RESIDENTIAL HIGH DENSITY	149.12	0.00	488,057.72	11.20	0.00
G0080	1400	COMMERCIAL AND SERVICES	143,726.38	3.30	488,057.72	11.20	0.29
G0080	1900	OPEN LAND	157,914.70	3.63	488,057.72	11.20	0.32
G0080	5300	RESERVOIRS	25,691.92	0.59	488,057.72	11.20	0.05
G0080	6530	INTERMITTENT PONDS	53,331.59	1.22	488,057.72	11.20	0.11
G0090	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	44,867.25	1.03	201,503.27	4.63	0.22
G0090	1300	RESIDENTIAL HIGH DENSITY	1,593.74	0.04	201,503.27	4.63	0.01
G0090	1400	COMMERCIAL AND SERVICES	76.37	0.00	201,503.27	4.63	0.00
G0090	8100	TRANSPORTATION	154,965.90	3.56	201,503.27	4.63	0.77
G0100	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	38,505.28	0.88	39,389.71	0.90	0.98
G0100	8100	TRANSPORTATION	884.42	0.02	39,389.71	0.90	0.02
G0110	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	6,198.04	0.14	518,621.64	11.91	0.01
G0110	1400	COMMERCIAL AND SERVICES	495,858.14	11.38	518,621.64	11.91	0.96
G0110	8100	TRANSPORTATION	16,565.47	0.38	518,621.64	11.91	0.03
G0120	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	140,318.81	3.22	149,454.67	3.43	0.94
G0120	5300	RESERVOIRS	9,135.86	0.21	149,454.67	3.43	0.06
G0130	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	2,278.24	0.05	584,957.42	13.43	0.00
G0130	1400	COMMERCIAL AND SERVICES	255,919.67	5.88	584,957.42	13.43	0.44
G0130	1900	OPEN LAND	91.12	0.00	584,957.42	13.43	0.00
G0130	8100	TRANSPORTATION	326,668.40	7.50	584,957.42	13.43	0.56
G0140	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	178,502.74	4.10	179,678.54	4.12	0.99
G0140	1300	RESIDENTIAL HIGH DENSITY	1,175.81	0.03	179,678.54	4.12	0.01
G0150	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	21,777.44	0.50	625,533.16	14.36	0.03
G0150	1300	RESIDENTIAL HIGH DENSITY	603,755.71	13.86	625,533.16	14.36	0.97
G0160	1300	RESIDENTIAL HIGH DENSITY	911,012.08	20.91	1,023,744.01	23.50	0.89
G0160	8300	UTILITIES	112,731.93	2.59	1,023,744.01	23.50	0.11
G0170	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	35,253.37	0.81	2,071,089.31	51.89	0.02
G0170	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	11,516.32	0.26	2,071,089.31	51.89	0.01
G0170	1300	RESIDENTIAL HIGH DENSITY	1,610,005.34	36.96	2,071,089.31	51.89	0.71
G0170	5200	LAKES	5,043.99	0.12	2,071,089.31	51.89	0.00
G0170	6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	204,956.03	4.71	2,071,089.31	51.89	0.09
G0170	8300	UTILITIES	204,314.26	4.69	2,071,089.31	51.89	0.09
H0010	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	117,860.07	2.71	395,351.66	9.08	0.30
H0010	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	23,265.14	0.53	395,351.66	9.08	0.06
H0010	1300	RESIDENTIAL HIGH DENSITY	27,384.65	0.63	395,351.66	9.08	0.07
H0010	1400	COMMERCIAL AND SERVICES	75,298.42	1.73	395,351.66	9.08	0.19
H0010	1700	INSTITUTIONAL	18,865.43	0.43	395,351.66	9.08	0.05
H0010	8100	TRANSPORTATION	132,677.95	3.05	395,351.66	9.08	0.34
H0020	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	475,145.17	10.91	816,108.43	18.74	0.58
H0020	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	48,906.96	1.12	816,108.43	18.74	0.06
H0020	1300	RESIDENTIAL HIGH DENSITY	6,103.00	0.14	816,108.43	18.74	0.01
H0020	1400	COMMERCIAL AND SERVICES	245,588.87	5.64	816,108.43	18.74	0.30
H0020	8100	TRANSPORTATION	40,364.43	0.93	816,108.43	18.74	0.05
H0030	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	46,031.69	1.06	160,025.00	3.67	0.29
H0030	1300	RESIDENTIAL HIGH DENSITY	95,882.84	2.20	160,025.00	3.67	0.60
H0030	1400	COMMERCIAL AND SERVICES	18,110.47	0.42	160,025.00	3.67	0.11
H0040	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	190,258.91	4.37	336,325.00	7.72	0.57
H0040	1300	RESIDENTIAL HIGH DENSITY	135,366.12	3.11	336,325.00	7.72	0.40
H0040	5300	RESERVOIRS	10,699.97	0.25	336,325.00	7.72	0.03
H0050	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	689,058.08	15.82	2,006,297.86	46.06	0.34
H0050	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	1,303,902.53	29.93	2,006,297.86	46.06	0.65
H0050	1400	COMMERCIAL AND SERVICES	642.67	0.01	2,006,297.86	46.06	0.00
H0050	5300	RESERVOIRS	12,694.58	0.29	2,006,297.86	46.06	0.01

**Table 1-2**  
**Long Branch Creek Land Use Summary**

BASINSHD	FLUCCODE	FLUCDESC	LandUse Sq Ft	LandUse Acreage	Basin Sq Ft	Basin Acreage	Percent of LandUse
H0060	1300	RESIDENTIAL HIGH DENSITY	206,784.08	4.75	212,317.16	4.87	0.97
H0060	8100	TRANSPORTATION	5,533.07	0.13	212,317.16	4.87	0.03
H0070	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	103,663.04	2.38	1,018,320.01	23.38	0.10
H0070	1300	RESIDENTIAL HIGH DENSITY	531,541.23	12.20	1,018,320.01	23.38	0.52
H0070	1400	COMMERCIAL AND SERVICES	179,204.68	4.11	1,018,320.01	23.38	0.18
H0070	8100	TRANSPORTATION	4,086.00	0.09	1,018,320.01	23.38	0.00
H0070	8300	UTILITIES	199,825.06	4.59	1,018,320.01	23.38	0.20
H0080	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	259,321.44	5.95	391,674.13	3.09	1.93
H0080	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	26,483.19	0.61	391,674.13	3.09	0.20
H0080	6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	105,869.50	2.43	391,674.13	3.09	0.79
H0090	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	6,681.89	0.15	858,787.80	21.27	0.01
H0090	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	633,023.67	14.53	858,787.80	21.27	0.68
H0090	1300	RESIDENTIAL HIGH DENSITY	9,124.38	0.21	858,787.80	21.27	0.01
H0090	6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	209,957.86	4.82	858,787.80	21.27	0.23
J0010	1400	COMMERCIAL AND SERVICES	114,697.56	2.63	123,147.56	2.83	0.93
J0010	8100	TRANSPORTATION	8,450.00	0.19	123,147.56	2.83	0.07
J0020	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	516.69	0.01	632,488.50	14.52	0.00
J0020	1400	COMMERCIAL AND SERVICES	583,989.56	13.41	632,488.50	14.52	0.92
J0020	1900	OPEN LAND	21,327.95	0.49	632,488.50	14.52	0.03
J0020	5300	RESERVOIRS	25,801.62	0.59	632,488.50	14.52	0.04
J0020	8100	TRANSPORTATION	852.67	0.02	632,488.50	14.52	0.00
J0030	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	7,940.61	0.18	487,875.00	11.20	0.02
J0030	1400	COMMERCIAL AND SERVICES	25,544.56	0.59	487,875.00	11.20	0.05
J0030	1900	OPEN LAND	181,562.79	4.17	487,875.00	11.20	0.37
J0030	4340	HARDWOOD CONIFER MIXED	120,298.12	2.76	487,875.00	11.20	0.25
J0030	5300	RESERVOIRS	152,528.93	3.50	487,875.00	11.20	0.31
J0040	1400	COMMERCIAL AND SERVICES	140,209.77	3.22	147,216.06	3.38	0.95
J0040	1900	OPEN LAND	6,444.07	0.15	147,216.06	3.38	0.04
J0040	8100	TRANSPORTATION	562.22	0.01	147,216.06	3.38	0.00
J0050	1400	COMMERCIAL AND SERVICES	99,823.83	2.29	127,075.00	2.92	0.79
J0050	1900	OPEN LAND	25,717.95	0.59	127,075.00	2.92	0.20
J0050	8100	TRANSPORTATION	1,533.22	0.04	127,075.00	2.92	0.01
J0060	1400	COMMERCIAL AND SERVICES	68,784.98	1.58	74,762.76	1.72	0.92
J0060	1900	OPEN LAND	4,936.21	0.11	74,762.76	1.72	0.07
J0060	8100	TRANSPORTATION	1,041.57	0.02	74,762.76	1.72	0.01
J0070	1400	COMMERCIAL AND SERVICES	67,912.78	1.56	96,200.00	2.21	0.71
J0070	1900	OPEN LAND	27,696.11	0.64	96,200.00	2.21	0.29
J0070	8100	TRANSPORTATION	591.11	0.01	96,200.00	2.21	0.01
J0080	1400	COMMERCIAL AND SERVICES	9,197.21	0.21	286,589.10	6.58	0.03
J0080	1900	OPEN LAND	76,052.74	1.75	286,589.10	6.58	0.27
J0080	6410	FRESHWATER MARSHES	3,257.06	0.07	286,589.10	6.58	0.01
J0080	8100	TRANSPORTATION	198,082.09	4.55	286,589.10	6.58	0.69
J0090	1400	COMMERCIAL AND SERVICES	23,580.17	0.54	1,269,486.90	29.14	0.02
J0090	1900	OPEN LAND	1,245,191.71	28.59	1,269,486.90	29.14	0.98
J0090	8100	TRANSPORTATION	715.03	0.02	1,269,486.90	29.14	0.00
J0100	1400	COMMERCIAL AND SERVICES	23,205.75	0.53	261,365.14	6.00	0.09
J0100	1900	OPEN LAND	139,499.89	3.20	261,365.14	6.00	0.53
J0100	8100	TRANSPORTATION	98,659.49	2.26	261,365.14	6.00	0.38
J0110	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	25,541.24	0.59	879,267.00	20.19	0.03
J0110	1400	COMMERCIAL AND SERVICES	451,519.25	10.37	879,267.00	20.19	0.51
J0110	1900	OPEN LAND	119,571.85	2.74	879,267.00	20.19	0.14
J0110	4340	HARDWOOD CONIFER MIXED	270,541.76	6.21	879,267.00	20.19	0.31
J0110	8300	UTILITIES	12,092.89	0.28	879,267.00	20.19	0.01
J0120	1900	OPEN LAND	292,837.65	6.72	292,837.53	6.72	1.00
J0130	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	140,152.94	3.22	751,812.50	17.26	0.19
J0130	1400	COMMERCIAL AND SERVICES	6,444.80	0.15	751,812.50	17.26	0.01
J0130	1900	OPEN LAND	299,250.79	6.87	751,812.50	17.26	0.40
J0130	4340	HARDWOOD CONIFER MIXED	300,911.89	6.91	751,812.50	17.26	0.40
J0130	8300	UTILITIES	5,052.08	0.12	751,812.50	17.26	0.01
J0140	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	51,791.07	1.19	250,457.98	5.75	0.21
J0140	1400	COMMERCIAL AND SERVICES	29,166.32	0.67	250,457.98	5.75	0.12
J0140	1900	OPEN LAND	157,504.55	3.62	250,457.98	5.75	0.63
J0140	4340	HARDWOOD CONIFER MIXED	11,223.40	0.26	250,457.98	5.75	0.04
J0140	8300	UTILITIES	772.51	0.02	250,457.98	5.75	0.00
J0150	1700	INSTITUTIONAL	437,216.19	10.04	468,975.00	10.77	0.93
J0150	5300	RESERVOIRS	31,758.81	0.73	468,975.00	10.77	0.07
J0160	1300	RESIDENTIAL HIGH DENSITY	18,803.99	0.43	1,919,329.07	44.06	0.01
J0160	1700	INSTITUTIONAL	1,604,027.20	36.82	1,919,329.07	44.06	0.84
J0160	8300	UTILITIES	296,497.88	6.81	1,919,329.07	44.06	0.15
J0170	1300	RESIDENTIAL HIGH DENSITY	610,005.28	14.00	735,007.58	16.87	0.83
J0170	1400	COMMERCIAL AND SERVICES	125,002.30	2.87	735,007.58	16.87	0.17
J0190	1300	RESIDENTIAL HIGH DENSITY	124,586.43	2.86	258,369.30	5.93	0.48
J0190	1400	COMMERCIAL AND SERVICES	93,398.42	2.14	258,369.30	5.93	0.36
J0190	8100	TRANSPORTATION	40,384.45	0.93	258,369.30	5.93	0.16
J0200	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	138,718.44	3.18	342,418.82	7.86	0.41
J0200	1300	RESIDENTIAL HIGH DENSITY	169,877.45	3.90	342,418.82	7.86	0.50
J0200	1700	INSTITUTIONAL	33,822.93	0.78	342,418.82	7.86	0.10
J0210	1700	INSTITUTIONAL	286,088.92	6.57	465,508.47	10.69	0.61
J0210	4340	HARDWOOD CONIFER MIXED	336.46	0.01	465,508.47	10.69	0.00
J0210	6530	INTERMITTENT PONDS	20,485.92	0.47	465,508.47	10.69	0.04
J0210	8300	UTILITIES	158,597.16	3.64	465,508.47	10.69	0.34
J0220	1400	COMMERCIAL AND SERVICES	209,791.64	4.82	284,117.72	6.52	0.74
J0220	1700	INSTITUTIONAL	1,834.61	0.04	284,117.72	6.52	0.01
J0220	8300	UTILITIES	72,491.47	1.66	284,117.72	6.52	0.26
J0230	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	496,717.93	11.40	1,003,896.44	23.05	0.49
J0230	1300	RESIDENTIAL HIGH DENSITY	266,670.48	6.12	1,003,896.44	23.05	0.27
J0230	1400	COMMERCIAL AND SERVICES	55,528.73	1.27	1,003,896.44	23.05	0.06
J0230	1700	INSTITUTIONAL	176,288.99	4.05	1,003,896.44	23.05	0.18
J0230	5300	RESERVOIRS	8,690.31	0.20	1,003,896.44	23.05	0.01
J0240	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	143,032.51	3.28	936,828.72	21.51	0.15
J0240	1300	RESIDENTIAL HIGH DENSITY	389,288.65	8.94	936,828.72	21.51	0.42
J0240	1400	COMMERCIAL AND SERVICES	296,056.90	6.80	936,828.72	21.51	0.32
J0240	4340	HARDWOOD CONIFER MIXED	35,334.37	0.81	936,828.72	21.51	0.04
J0240	8100	TRANSPORTATION	0.24	0.00	936,828.72	21.51	0.00
J0240	8300	UTILITIES	73,116.05	1.68	936,828.72	21.51	0.08
J0250	1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	42,535.07	0.98	335,603.21	7.70	0.13
J0250	1400	COMMERCIAL AND SERVICES	241.25	0.01	335,603.21	7.70	0.00
J0250	1900	OPEN LAND	291,907.26	6.70	335,603.21	7.70	0.87
J0250	8100	TRANSPORTATION	919.64	0.02	335,603.21	7.70	0.00
J0260	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	4,463.56	0.10	262,287.30	6.02	0.02
J0260	1300	RESIDENTIAL HIGH DENSITY	17,645.47	0.41	262,287.30	6.02	0.07
J0260	1400	COMMERCIAL AND SERVICES	22,545.41	0.52	262,287.30	6.02	0.09
J0260	1700	INSTITUTIONAL	1,460.76	0.03	262,287.30	6.02	0.01

**Table 1-2  
Long Branch Creek Land Use Summary**

BASINSHD	FLUCCCODE	FLUCDESC	LandUse Sq Ft	LandUse Acreage	Basin Sq Ft	Basin Acreage	Percent of LandUse
J0260	8100	TRANSPORTATION	210,813.26	4.84	262,287.30	6.02	0.80
J0260	8300	UTILITIES	5,358.84	0.12	262,287.30	6.02	0.02
K0010	1300	RESIDENTIAL HIGH DENSITY	350,553.40	8.05	409,687.76	9.41	0.86
K0010	1500	INDUSTRIAL	3,613.04	0.08	409,687.76	9.41	0.01
K0010	2400	NURSERIES AND VINEYARDS	1,073.02	0.02	409,687.76	9.41	0.00
K0010	4340	HARDWOOD CONIFER MIXED	93.03	0.00	409,687.76	9.41	0.00
K0010	5300	RESERVOIRS	50,904.89	1.17	409,687.76	9.41	0.12
K0010	8100	TRANSPORTATION	3,450.38	0.08	409,687.76	9.41	0.01
K0020	1300	RESIDENTIAL HIGH DENSITY	117,077.07	2.69	130,629.80	3.00	0.90
K0020	5300	RESERVOIRS	7,778.59	0.18	130,629.80	3.00	0.06
K0020	8100	TRANSPORTATION	5,774.14	0.13	130,629.80	3.00	0.04
K0030	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	567,240.43	13.02	867,736.49	19.92	0.65
K0030	1500	INDUSTRIAL	171,989.57	3.95	867,736.49	19.92	0.20
K0030	2400	NURSERIES AND VINEYARDS	108,482.73	2.49	867,736.49	19.92	0.13
K0030	4340	HARDWOOD CONIFER MIXED	36.13	0.00	867,736.49	19.92	0.00
K0030	5300	RESERVOIRS	19,987.63	0.46	867,736.49	19.92	0.02
K0040	1300	RESIDENTIAL HIGH DENSITY	519,291.57	11.92	610,733.65	14.02	0.85
K0040	2400	NURSERIES AND VINEYARDS	51,672.25	1.19	610,733.65	14.02	0.08
K0040	5300	RESERVOIRS	32,085.92	0.74	610,733.65	14.02	0.05
K0040	8100	TRANSPORTATION	7,683.78	0.18	610,733.65	14.02	0.01
K0050	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	287,832.41	6.61	476,172.74	10.93	0.60
K0050	1400	COMMERCIAL AND SERVICES	175,134.91	4.02	476,172.74	10.93	0.37
K0050	8300	UTILITIES	13,205.43	0.30	476,172.74	10.93	0.03
K0060	1400	COMMERCIAL AND SERVICES	369,778.89	8.49	370,335.33	8.50	1.00
K0060	1500	INDUSTRIAL	168.64	0.00	370,335.33	8.50	0.00
K0060	8300	UTILITIES	387.74	0.01	370,335.33	8.50	0.00
K0070	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	942,909.90	21.65	948,720.80	21.78	0.99
K0070	1400	COMMERCIAL AND SERVICES	3,754.29	0.09	948,720.80	21.78	0.00
K0070	1500	INDUSTRIAL	1,391.77	0.03	948,720.80	21.78	0.00
K0070	2400	NURSERIES AND VINEYARDS	665.17	0.02	948,720.80	21.78	0.00
K0080	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	43,693.30	1.00	193,125.78	4.43	0.23
K0080	1300	RESIDENTIAL HIGH DENSITY	97,347.86	2.23	193,125.78	4.43	0.50
K0080	5300	RESERVOIRS	5,940.60	0.14	193,125.78	4.43	0.03
K0080	8100	TRANSPORTATION	46,144.31	1.06	193,125.78	4.43	0.24
K0090	1300	RESIDENTIAL HIGH DENSITY	2,783.81	0.06	333,004.73	7.64	0.01
K0090	8100	TRANSPORTATION	330,220.92	7.58	333,004.73	7.64	0.99
K0100	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	23,562.64	0.54	74,441.32	1.71	0.32
K0100	1300	RESIDENTIAL HIGH DENSITY	47,461.73	1.09	74,441.32	1.71	0.64
K0100	8100	TRANSPORTATION	3,416.95	0.08	74,441.32	1.71	0.05
K0110	1300	RESIDENTIAL HIGH DENSITY	127,605.06	2.93	145,589.14	3.34	0.88
K0110	8100	TRANSPORTATION	17,984.07	0.41	145,589.14	3.34	0.12
K0120	1300	RESIDENTIAL HIGH DENSITY	250,096.94	5.74	291,066.04	6.68	0.86
K0120	5300	RESERVOIRS	40,968.93	0.94	291,066.04	6.68	0.14
K0130	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	70,852.40	1.63	105,418.18	2.42	0.67
K0130	1300	RESIDENTIAL HIGH DENSITY	34,565.79	0.79	105,418.18	2.42	0.33
K0140	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	293,595.58	6.74	334,795.07	7.69	0.88
K0140	1300	RESIDENTIAL HIGH DENSITY	28,504.21	0.65	334,795.07	7.69	0.09
K0140	2400	NURSERIES AND VINEYARDS	3,563.68	0.08	334,795.07	7.69	0.01
K0140	5300	RESERVOIRS	9,131.32	0.21	334,795.07	7.69	0.03
K0150	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	512,145.05	11.76	522,667.68	12.00	0.98
K0150	5300	RESERVOIRS	10,522.63	0.24	522,667.68	12.00	0.02
K0160	1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	9,315.36	0.21	166,334.54	3.82	0.06
K0160	1300	RESIDENTIAL HIGH DENSITY	5,643.76	0.13	166,334.54	3.82	0.03
K0160	1400	COMMERCIAL AND SERVICES	42,421.28	0.97	166,334.54	3.82	0.26
K0160	8100	TRANSPORTATION	108,954.15	2.50	166,334.54	3.82	0.66



**Table 1-4**  
**Summary of Proposed Water Quality Improvement Projects for Long Branch Creek**

BMP	Project Description	Proposed Treatment Concept
1	Tributary at Monitoring Site 4	Improvements include cleaning and removing vegetation over-growth in the channel, expansion of the channel for increased capacity and ecological channel/creek restoration for water quality improvements and enhancements to the conveyance system.
2	Regional Pond at Sites 9 & 10	Use existing borrow pit pond for regional wet detention pond. Divert low flows from Main Channel and tributary on east of pond into pond with higher flows bypassing the pond
3	Horse Farm near Monitoring Site 14	Construct perimeter berms around existing horse farm to retain runoff from routine storm events on-site
4	Whitney Road Inflow	a. Construct small wet detention ponds to treat runoff from Whitney Road prior to entering Long Branch Creek
		b. Construct berms in roadside swale system to create a series of linear treatment ponds
5	Small Regional Pond Near Site 12	Construct small wet detention ponds to treat runoff from surrounding commercial and residential area prior to entering Long Branch Creek
6	Regional Pond at Site 2	Construct small off-line wet detention pond to treat runoff from the upstream residential area east of S. Belcher Road prior to entering Long Branch Creek
7	Dry storage and treatment Pond at Bedford Circle and East Bay Drive	Construct a shallow dry retention and treatment pond from the residential and commercial areas along East Bay Drive to retain runoff and enhance sediment removal prior to entering Long Branch Creek
8	Regional Pond with wetland/natural channel stability improvements upstream sites 8 and 9 and west side US 19.	Construct a regional wet detention pond including removing vegetation over-growth in the channel, adding natural stream stabilization treatments, expansion and reforming the creek to bankfull elevation, increased storage capacity and enhancements to the conveyance system

**Table 1-5**  
**Runoff and Water Quality Assumptions for the Four Proposed BMP Sites**

BMP	Project Description	Basin Area Discharging to Site (acres)	Annual Runoff Volume Discharging to Site (ac-ft) <sup>1</sup>	Assumed Water Quality Characteristics <sup>2</sup>				Data Source
				Total N (µg/L)	Total P (µg/L)	TSS (mg/L)	Fecal (cfu/100 mL)	
1	Tributary at Monitoring Site 4	308	106.4	988	189	3.5	812	Mean Characteristics measured at Site 4
2	Regional Pond at Sites 9 & 10	468	1,076	961	107	2.2	535	Mean Characteristics measured at Site 9 since Main Channel contributes majority of flow at this site.
3	Horse Farm near Monitoring Site 14	86	6.4	3,299	621	27.0	1,918	TN, TP, and TSS obtained from Florida emc Database for pasture land use. Fecal assumed to be increase in fecal at Site 14 and Site 16
4	Whitney Road Inflow	72	93.8	813	56	2.3	3,625	Mean characteristics measured at Site 15 (Whitney Road)
		72	93.8	813	56	2.3	3,625	Mean characteristics measured at Site 15 (Whitney Road)
5	Small Regional Pond Near Site 12	127	556	850	150	2.2	607	Mean characteristics measured at Site 12
6	Regional Pond at Site 2	108	282	980	139	2.2	580	Mean characteristics measured at Site 2
7	Dry storage and treatment Pond at Bedford Circle and East Bay Drive near Site 5	49	48	695	100	2.3	535	Mean characteristics measured at Site 5
8	Regional Pond with wetland/natural channel stability improvements upstream Site 7 and west side US 19.	130	647	980	107	2.4	470	Mean characteristics measured at sites 7

**Table 1-6**  
**Calculated Current Annual Loadings to the Site of the Proposed BMPs**

BMP	Project Description	Calculated Annual Loadings (kg/year)			
		Total N	Total P	TSS	Fecal <sup>1</sup>
1	Tributary at Monitoring Site 4	130	24.8	463	1,065
2	Regional Pond at Sites 9 & 10	1,276	142	2,914	7,106
3	Horse Farm near Monitoring Site 14	26	4.9	213	151
4	Whitney Road Inflow	94	6.5	263	4,193
		94	6.5	263	4,193
5	Small Regional Pond Near Site 12	583	102.9	1509	4,162
6	Regional Pond at Site 2	341	48.3	765	2,017
7	Dry storage and treatment Pond at Bedford Circle and East Bay Drive near Site 5	41	5.9	136	317
8	Regional Pond with wetland/natural channel stability improvements upstream Site 7 and west side US 19.	782	85.4	1915	3,750

1. Fecal expressed in terms of cfu x 10<sup>9</sup>/year



**Table 1-7**  
**Estimated Annual Load Reductions for Proposed BMPs**

BMP	Project Description	Estimated Annual Load Reduction (%)				Load Reduction Explanation
		Total N	Total P	TSS	Fecal <sup>1</sup>	
1	Tributary at Monitoring Site 4	10	20	15	20	Channel currently contains large accumulations of organic muck and debris that release nutrients under certain conditions and harbor bacteria. Removal of muck will eliminate the nutrient release between runoff events and eliminate favorable areas for bacteria. Most significant improvements will occur for TP and Fecal with smaller improvements for TN and TSS which is already low in value.
2	Regional Pond at Sites 9 & 10	20	40	40	50	Regional pond will receive inflows from the Main Channela and the east tributary. The pond area is 3.77 ac. If the pond is reconfigured to a mean depth of 8 ft, then the pond volume would be 30 ac-ft. Assuming an annual runoff volume of 1076 ac-ft from the Main Channel and the tributary, the mean annual detention time would be 10 days. However, pond removal will be less than a standard wet pond since the runoff has received pre-treatment in the channels and tributaries. At this detention time, the TN removal would be approximately 20%, with TP removal of 40%, TSS removal of 40%, and fecal removal of 50%.
3	Horse Farm near Monitoring Site 14	80	80	80	80	It is assumed that the proposed perimeter berms will retain 80% of the annual runoff volume on-site. The estimated annual load reduction is then 80%.
4	Whitney Road Inflow	15	25	25	30	The proposed pond west of Whitney Rd. has an approximate ares of 0.315 ac. With an area of 0.395 ac. For the pond east of Whitney Rd. At assumed mean depths of 6 feet, the west pond will have an approximate volume of 1.8 ac-ft, and the east pond will have a volume of 2.4 ac-ft. At an annual runoff volume of 113 ac-ft/yr from Whitney Rd. the west pond would have a mean detention time of 6 days with 8 days in the east pond. Since the runoff has received pre-treatment in the swale drainage system, the efficiencies would be reduced compared to a pond for new development.
		40	40	40	40	The efficiency of the proposed swale berm system is a direct function of the amount of annual runoff volume that can be infiltrated into the ground. For this analysis, it is assumed that 40% of the annual runoff volume can be retained in the swale system and infiltrated into groundwater. This would occur primarily for small storms of 0.5 inch or less. The bermed areas would also increase detention time for larger inflows which would allow settling of particles.
5	Small Regional Pond Near Site 12	20	40	40	20	The small regional east of US 19 and north of Roosevelt Blvd will receive inflows from a combination of commercial and residential land use with little to not prior treatment. The pond is configured to accept discharge flow and provide treatment within a pond approximated at 4 to 6 ft depth and expect to achieve removal percentages as shown.
6	Regional Pond at Site 2	40	50	85	30	The retention pond is intended to achieve a high level of removal effeciency with the off-line treatment scheme. The estimated load reductions are expected to be achieve as shown in the chart with retention and storage being enlarged for added residence time.
7	Dry storage and treatment Pond at Bedford Circle and East Bay Drive near Site 5	15	25	70	20	The efficiency of the proposed dry retention system is a direct function of the amount of annual runoff volume that can be infiltrated into the ground. For this analysis, it is assumed that 50% of the annual runoff volume can be retained in the swale system and infiltrated into groundwater. This would occur primarily for small storms of 0.5 inch or less.
8	Regional Pond with wetland/natural channel stability improvements upstream Site 7 and west side US 19.	80	80	80	50	Regional pond will receive inflows from the Main Channela and the west tributary. The treatment area will be a combination of wet retention, natural channel improvements and enhanced to provide a deep pond with a swale and natural meandering treatment system. If the reconfigured to a mean depth of 8 ft, then the pond volume would be capable to treat the an annual runoff volume from the next upstream BMP and tributary, the mean annual detention time would be 8-10 days.

**Table 1-8**  
**Calculated Annual Load Reductions for the Proposed BMPs**

BMP	Project Description	Annual Load Reductions (kg/yr)				Remaining Loading to Long Branch (kg/yr)			
		Total N	Total P	TSS	Fecal <sup>1</sup>	Total N	Total P	TSS	Fecal <sup>1</sup>
1	Tributary at Monitoring Site 4	13.0	5.0	69.5	213	117	19.9	394	852
2	Regional Pond at Sites 9 & 10	255	57	1,166	3,553	1,021	85.1	1,748	3,553
3	Horse Farm near Monitoring Site 14	20.8	3.9	170	121	5.2	1.0	43	30
4	Whitney Road Inflow	14.1	1.6	66	1,258	79.9	4.9	197	2,935
		37.6	2.6	105	1,677	56.4	3.9	158	2,516
5	Small Regional Pond Near Site 12	116.6	41.1	603	832	466.3	61.7	905	3,330
6	Regional Pond at Site 2	136.3	24.2	650	605	204.5	24.2	115	1,412
7	Dry storage and treatment Pond at Bedford Circle and East Bay Drive near Site 5	6.2	1.5	95	63	35.0	4.4	41	253
8	Regional Pond with wetland/natural channel stability improvements upstream Site 7 and west side US 19.	625.6	68.3	1,532	1,875	156.4	17.1	383	1,875

## Appendix B



# Long Branch Creek Water Quality Study

## 25-Year Floodplain - BMP Results

### Legend

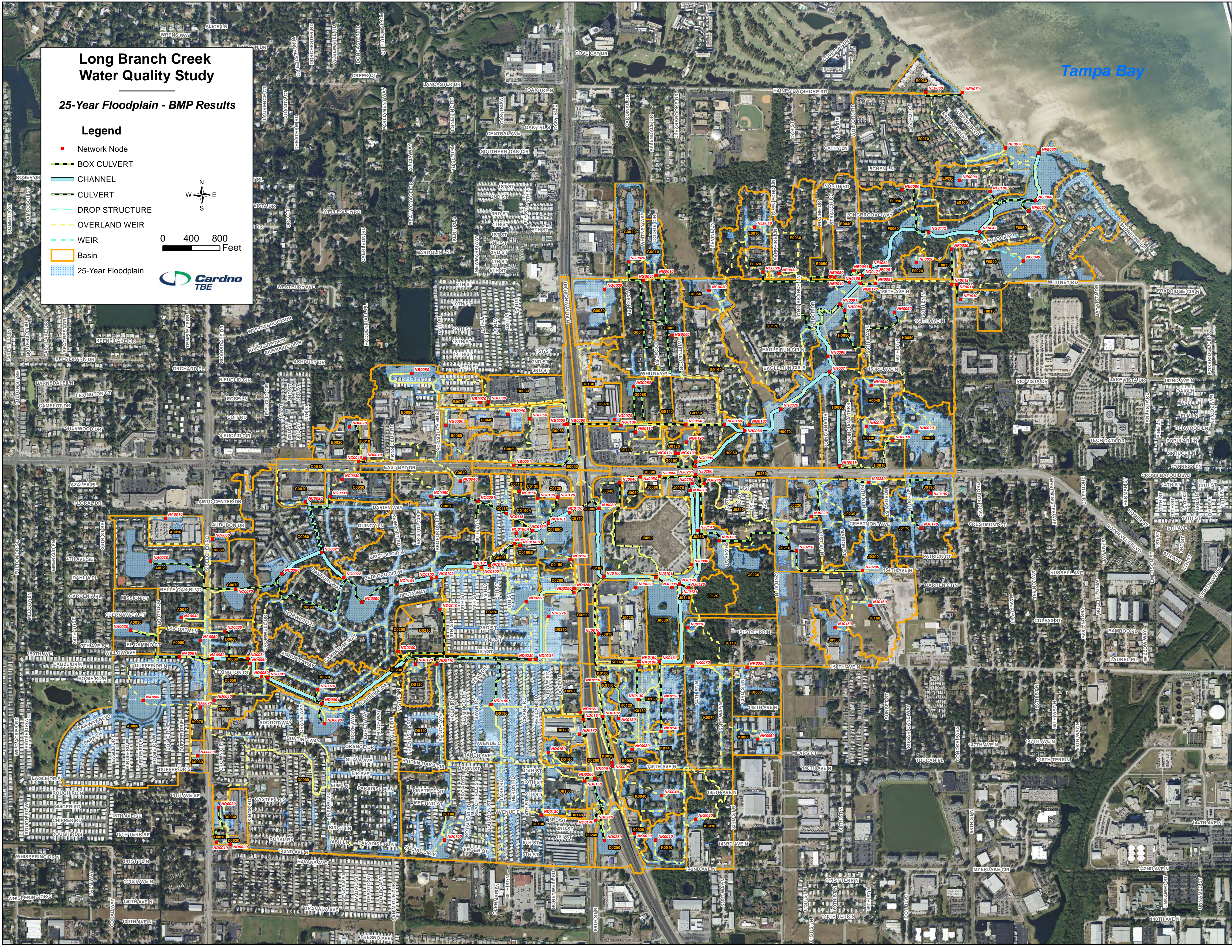
- Network Node
- BOX CULVERT
- CHANNEL
- CULVERT
- DROP STRUCTURE
- OVERLAND WEIR
- WEIR
- Basin
- 25-Year Floodplain



0 400 800  
Feet



Tampa Bay





# Long Branch Creek Water Quality Study

## 100-Year Floodplain - BMP Results

### Legend

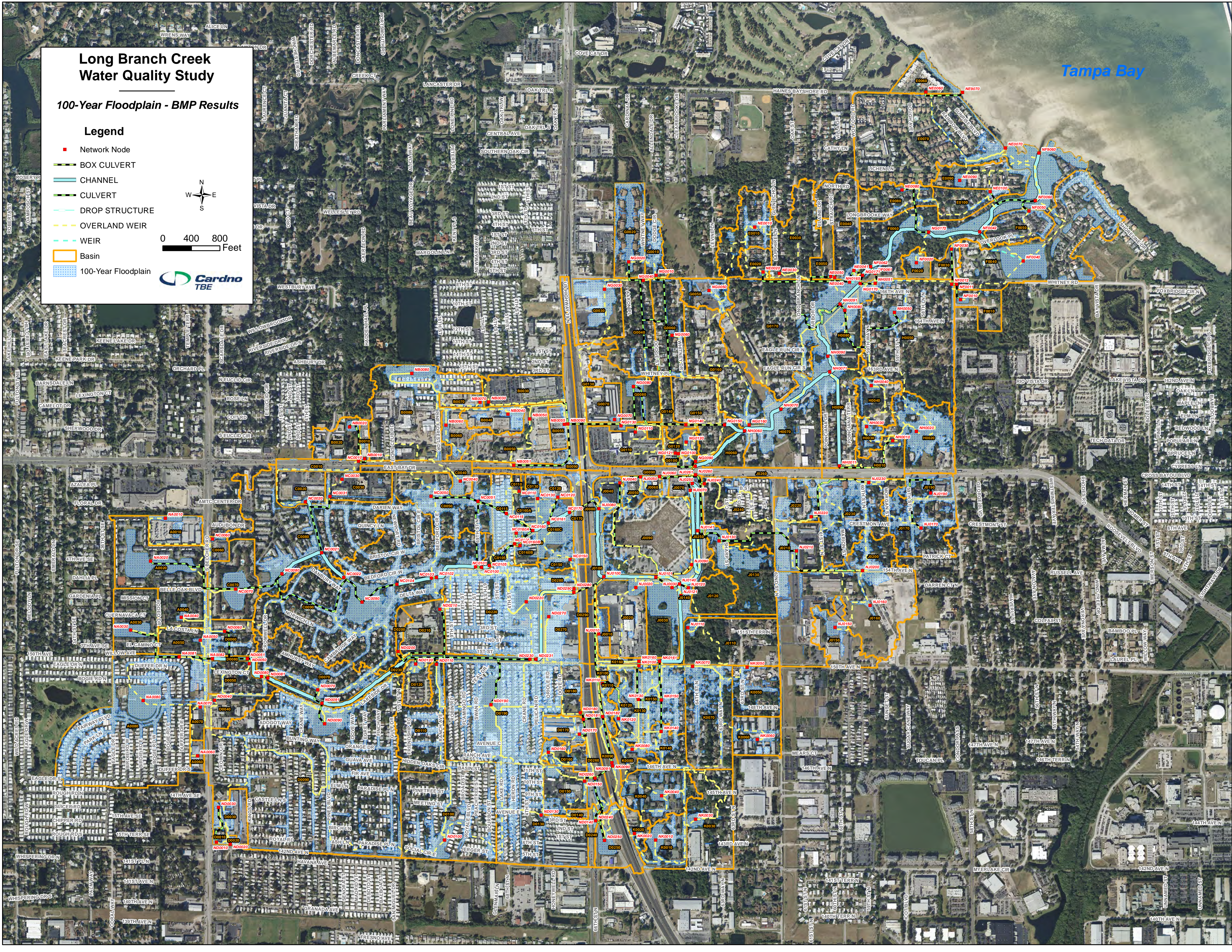
- Network Node
- BOX CULVERT
- CHANNEL
- CULVERT
- DROP STRUCTURE
- OVERLAND WEIR
- WEIR
- Basin
- 100-Year Floodplain



0 400 800  
Feet



Tampa Bay





Long Branch BMP Model Results  
Input Data Report Summary

==== Basins =====

Name: A0010                      Node: NA0010                      Status: Onsite  
Group: A                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: A0010                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 37.74  
Area(ac): 7.109                      Time Shift(hrs): 0.00  
Curve Number: 75.34                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

-----  
Name: A0020                      Node: NA0020                      Status: Onsite  
Group: A                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: A0020                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 18.59  
Area(ac): 22.684                      Time Shift(hrs): 0.00  
Curve Number: 89.26                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

-----  
Name: A0030                      Node: NA0030                      Status: Onsite  
Group: A                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: A0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 16.15  
Area(ac): 13.142                      Time Shift(hrs): 0.00  
Curve Number: 88.21                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

-----  
Name: A0040                      Node: NA0040                      Status: Onsite  
Group: A                      Type: SCS Unit Hydrograph CN



Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: A0040      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 15.05  
Area(ac): 8.797      Time Shift(hrs): 0.00  
Curve Number: 86.13      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: A0050      Node: NA0050      Status: Onsite  
Group: A      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: A0050      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 36.24  
Area(ac): 5.964      Time Shift(hrs): 0.00  
Curve Number: 85.06      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: A0060      Node: NA0060      Status: Onsite  
Group: A      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: A0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 31.50  
Area(ac): 2.033      Time Shift(hrs): 0.00  
Curve Number: 84.16      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: A0070      Node: NA0070      Status: Onsite  
Group: A      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: A0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 26.19  
Area(ac): 2.476      Time Shift(hrs): 0.00  
Curve Number: 83.99      Max Allowable Q(cfs): 999999.000

Long Branch BMP Model Results  
Input Data Report Summary

DCIA(%): 0.00

---

Name: A0080                      Node: NA0080                      Status: Onsite  
Group: A                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: A0080                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 25.85  
Area(ac): 65.826                      Time Shift(hrs): 0.00  
Curve Number: 86.43                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: B0010                      Node: NB0010                      Status: Onsite  
Group: B                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: B0010                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.98  
Area(ac): 1.684                      Time Shift(hrs): 0.00  
Curve Number: 85.91                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: B0020                      Node: NB0020                      Status: Onsite  
Group: B                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: B0020                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.16  
Area(ac): 7.692                      Time Shift(hrs): 0.00  
Curve Number: 81.77                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: B0030                      Node: NB0030                      Status: Onsite



Long Branch BMP Model Results  
Input Data Report Summary

Group: B                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: B0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 32.40  
Area(ac): 10.762                      Time Shift(hrs): 0.00  
Curve Number: 85.83                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: B0040                      Node: NB0040                      Status: Onsite  
Group: B                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: B0040                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 6.323                      Time Shift(hrs): 0.00  
Curve Number: 84.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: B0050                      Node: NB0050                      Status: Onsite  
Group: B                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: B0050                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 24.40  
Area(ac): 15.833                      Time Shift(hrs): 0.00  
Curve Number: 86.23                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: B0055                      Node: NB0055                      Status: Onsite  
Group: B                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: B0055                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 29.70  
Area(ac): 3.309                      Time Shift(hrs): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Curve Number: 91.80  
DCIA(%): 0.00

Max Allowable Q(cfs): 999999.000

Name: B0060  
Group: B

Node: NB0060      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: B0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 15.12  
Area(ac): 5.839      Time Shift(hrs): 0.00  
Curve Number: 85.26      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: B0070  
Group: B

Node: NB0070      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: B0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 2.920      Time Shift(hrs): 0.00  
Curve Number: 85.18      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: B0080  
Group: B

Node: NB0080      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: B0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 123.68  
Area(ac): 34.334      Time Shift(hrs): 0.00  
Curve Number: 81.47      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Name: B0090      Node: NB0090      Status: Onsite  
Group: B      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: B0090      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 17.97  
Area(ac): 9.794      Time Shift(hrs): 0.00  
Curve Number: 82.70      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0010      Node: NC0010      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0010      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 13.86  
Area(ac): 5.161      Time Shift(hrs): 0.00  
Curve Number: 78.61      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0020      Node: NC0020      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0020      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 36.53  
Area(ac): 7.479      Time Shift(hrs): 0.00  
Curve Number: 84.27      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0030      Node: NC0030      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0030      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 40.05

Long Branch BMP Model Results  
Input Data Report Summary

Area(ac): 8.788      Time Shift(hrs): 0.00  
Curve Number: 84.24      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0040      Node: NC0040      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0040      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 37.66  
Area(ac): 7.059      Time Shift(hrs): 0.00  
Curve Number: 79.45      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0050      Node: NC0050      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0050      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 35.16  
Area(ac): 20.506      Time Shift(hrs): 0.00  
Curve Number: 87.19      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0060      Node: NC0060      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 2.336      Time Shift(hrs): 0.00  
Curve Number: 84.05      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Name: C0070      Node: NC0070      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 18.89  
Area(ac): 15.337      Time Shift(hrs): 0.00  
Curve Number: 88.02      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: C0080      Node: NC0080      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 36.31  
Area(ac): 45.666      Time Shift(hrs): 0.00  
Curve Number: 88.14      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: C0090      Node: NC0090      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0090      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 47.41  
Area(ac): 83.114      Time Shift(hrs): 0.00  
Curve Number: 91.58      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: C0105      Node: NC0105      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0105      Storm Duration(hrs): 24.00

Long Branch BMP Model Results  
Input Data Report Summary

Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 3.195      Time Shift(hrs): 0.00  
Curve Number: 87.22      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0110      Node: NC0110      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0110      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 35.20  
Area(ac): 0.740      Time Shift(hrs): 0.00  
Curve Number: 84.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0115      Node: NC0115      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0115      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 6.663      Time Shift(hrs): 0.00  
Curve Number: 86.16      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: C0120      Node: NC0120      Status: Onsite  
Group: C      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: C0120      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 3.840      Time Shift(hrs): 0.00  
Curve Number: 92.32      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Name: C0130                      Node: NC0130                      Status: Onsite  
Group: C                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: C0130                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 28.77  
Area(ac): 2.760                      Time Shift(hrs): 0.00  
Curve Number: 89.85                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: C0140                      Node: NC0140                      Status: Onsite  
Group: C                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: C0140                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 29.50  
Area(ac): 2.931                      Time Shift(hrs): 0.00  
Curve Number: 90.60                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: C0150                      Node: NC0150                      Status: Onsite  
Group: C                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: C0150                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 31.06  
Area(ac): 4.102                      Time Shift(hrs): 0.00  
Curve Number: 83.81                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: C0160                      Node: NC0160                      Status: Onsite  
Group: C                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0

Long Branch BMP Model Results  
Input Data Report Summary

Rainfall File: C0160	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 11.04
Area(ac): 9.774	Time Shift(hrs): 0.00
Curve Number: 88.97	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	

---

Name: C0160B	Node: NC0160B	Status: Onsite
Group: C	Type: SCS Unit Hydrograph CN	

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: Flmod	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 35.00
Area(ac): 2.780	Time Shift(hrs): 0.00
Curve Number: 81.40	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	

---

Name: C0170	Node: NC0170	Status: Onsite
Group: C	Type: SCS Unit Hydrograph CN	

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: C0170	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 36.25
Area(ac): 7.417	Time Shift(hrs): 0.00
Curve Number: 82.37	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	

---

Name: D0010	Node: ND0010	Status: Onsite
Group: D	Type: SCS Unit Hydrograph CN	

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: D0010	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 10.63
Area(ac): 0.990	Time Shift(hrs): 0.00
Curve Number: 83.96	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	



Long Branch BMP Model Results  
Input Data Report Summary

---

Name: D0020                      Node: ND0020                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0020                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 0.368                      Time Shift(hrs): 0.00  
Curve Number: 84.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0030                      Node: ND0030                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 13.40  
Area(ac): 6.284                      Time Shift(hrs): 0.00  
Curve Number: 85.09                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0040                      Node: ND0040                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0040                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 6.598                      Time Shift(hrs): 0.00  
Curve Number: 83.36                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0050                      Node: ND0050                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0050                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 13.36  
Area(ac): 8.242                      Time Shift(hrs): 0.00  
Curve Number: 85.24                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0060                      Node: ND0060                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0060                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 7.724                      Time Shift(hrs): 0.00  
Curve Number: 85.12                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0070                      Node: ND0070                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0070                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 46.53  
Area(ac): 21.179                      Time Shift(hrs): 0.00  
Curve Number: 86.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0080                      Node: ND0080                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0080                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 29.79  
Area(ac): 1.521                      Time Shift(hrs): 0.00  
Curve Number: 85.43                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

---

Name: D0090                      Node: ND0090                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0090                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 140.57  
Area(ac): 120.627                      Time Shift(hrs): 0.00  
Curve Number: 85.71                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0100                      Node: ND0100                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0100                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 63.51  
Area(ac): 40.296                      Time Shift(hrs): 0.00  
Curve Number: 86.34                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0110                      Node: ND0110                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0110                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 79.61  
Area(ac): 17.084                      Time Shift(hrs): 0.00  
Curve Number: 86.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0120                      Node: ND0120                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0120                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 5.673                      Time Shift(hrs): 0.00  
Curve Number: 87.58                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0130                      Node: ND0130                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0130                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 19.05  
Area(ac): 31.442                      Time Shift(hrs): 0.00  
Curve Number: 85.64                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0140                      Node: ND0140                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0140                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 32.00  
Area(ac): 0.930                      Time Shift(hrs): 0.00  
Curve Number: 84.63                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0150                      Node: ND0150                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0150                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 56.14  
Area(ac): 8.792                      Time Shift(hrs): 0.00  
Curve Number: 84.04                      Max Allowable Q(cfs): 999999.000



Long Branch BMP Model Results  
Input Data Report Summary

DCIA(%): 0.00

---

Name: D0160                      Node: ND0160                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0160                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 17.83  
Area(ac): 4.699                      Time Shift(hrs): 0.00  
Curve Number: 84.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0170                      Node: ND0170                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0170                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 5.041                      Time Shift(hrs): 0.00  
Curve Number: 85.34                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0180                      Node: ND0180                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0180                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 30.00  
Area(ac): 4.752                      Time Shift(hrs): 0.00  
Curve Number: 84.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0190                      Node: ND0190                      Status: Onsite

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0190                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 81.84  
Area(ac): 49.080                      Time Shift(hrs): 0.00  
Curve Number: 87.75                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0200                      Node: ND0200                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0200                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 37.36  
Area(ac): 1.853                      Time Shift(hrs): 0.00  
Curve Number: 85.78                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0210                      Node: ND0210                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0210                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 26.74  
Area(ac): 9.565                      Time Shift(hrs): 0.00  
Curve Number: 86.47                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0220                      Node: ND0220                      Status: Onsite  
Group: D                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: D0220                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 44.67  
Area(ac): 37.610                      Time Shift(hrs): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Curve Number: 76.59  
DCIA(%): 0.00

Max Allowable Q(cfs): 999999.000

Name: D0230  
Group: D

Node: ND0230      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0230      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 120.20  
Area(ac): 8.342      Time Shift(hrs): 0.00  
Curve Number: 86.96      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: D0240  
Group: D

Node: ND0240      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0240      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 24.23  
Area(ac): 2.190      Time Shift(hrs): 0.00  
Curve Number: 76.10      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: D0250  
Group: D

Node: ND0250      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0250      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 24.64  
Area(ac): 9.992      Time Shift(hrs): 0.00  
Curve Number: 80.05      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Name: D0260      Node: ND0260      Status: Onsite  
Group: D      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0260      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 39.63  
Area(ac): 9.314      Time Shift(hrs): 0.00  
Curve Number: 76.30      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0270      Node: ND0270      Status: Onsite  
Group: D      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0270      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 10.955      Time Shift(hrs): 0.00  
Curve Number: 80.52      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0280      Node: ND0280      Status: Onsite  
Group: D      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0280      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 3.663      Time Shift(hrs): 0.00  
Curve Number: 74.32      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: D0290      Node: ND0290      Status: Onsite  
Group: D      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: D0290      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 32.95



Long Branch BMP Model Results  
Input Data Report Summary

Area(ac): 6.230      Time Shift(hrs): 0.00  
Curve Number: 77.08      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: E0010      Node: NE0010      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0010      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 46.29  
Area(ac): 12.653      Time Shift(hrs): 0.00  
Curve Number: 86.34      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: E0020      Node: NE0020      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0020      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 4.190      Time Shift(hrs): 0.00  
Curve Number: 86.52      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: E0030      Node: NE0030      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0030      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 87.58  
Area(ac): 16.365      Time Shift(hrs): 0.00  
Curve Number: 86.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Name: E0040      Node: NE0040      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0040      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 42.02  
Area(ac): 14.849      Time Shift(hrs): 0.00  
Curve Number: 86.19      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: E0050      Node: NE0050      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0050      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 45.27  
Area(ac): 4.418      Time Shift(hrs): 0.00  
Curve Number: 86.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: E0060      Node: NE0060      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 6.612      Time Shift(hrs): 0.00  
Curve Number: 89.67      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: E0070      Node: NE0070      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0070      Storm Duration(hrs): 24.00



Long Branch BMP Model Results  
Input Data Report Summary

Rainfall Amount(in): 0.000      Time of Conc(min): 76.18  
Area(ac): 49.961      Time Shift(hrs): 0.00  
Curve Number: 86.41      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: E0080      Node: NE0080      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 22.30  
Area(ac): 9.723      Time Shift(hrs): 0.00  
Curve Number: 86.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: E0090      Node: NE0090      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0090      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 28.25  
Area(ac): 10.245      Time Shift(hrs): 0.00  
Curve Number: 87.86      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: E0100      Node: NE0100      Status: Onsite  
Group: E      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: E0100      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 34.50  
Area(ac): 7.389      Time Shift(hrs): 0.00  
Curve Number: 87.87      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Name: F0010                      Node: NF0010                      Status: Onsite  
Group: F                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: F0010                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 35.21  
Area(ac): 6.168                      Time Shift(hrs): 0.00  
Curve Number: 76.67                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: F0020                      Node: NF0020                      Status: Onsite  
Group: F                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: F0020                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 18.40  
Area(ac): 3.174                      Time Shift(hrs): 0.00  
Curve Number: 79.52                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: F0030                      Node: NF0030                      Status: Onsite  
Group: F                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: F0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 20.37  
Area(ac): 3.548                      Time Shift(hrs): 0.00  
Curve Number: 78.59                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: F0040                      Node: NF0040                      Status: Onsite  
Group: F                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0



Long Branch BMP Model Results  
Input Data Report Summary

Rainfall File: F0040      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 13.92  
Area(ac): 39.665      Time Shift(hrs): 0.00  
Curve Number: 87.98      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: F0050      Node: NF0050      Status: Onsite  
Group: F      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: F0050      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 8.316      Time Shift(hrs): 0.00  
Curve Number: 86.19      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: F0060      Node: NF0060      Status: Onsite  
Group: F      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: F0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 82.37  
Area(ac): 42.228      Time Shift(hrs): 0.00  
Curve Number: 94.34      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0010      Node: NG0010      Status: Onsite  
Group: G      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: G0010      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 26.70  
Area(ac): 4.756      Time Shift(hrs): 0.00  
Curve Number: 86.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

---

Name: G0020                      Node: NG0020                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0020                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 12.785                      Time Shift(hrs): 0.00  
Curve Number: 87.48                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0030                      Node: NG0030                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 35.05  
Area(ac): 13.106                      Time Shift(hrs): 0.00  
Curve Number: 83.28                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0040                      Node: NG0040                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0040                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 66.67  
Area(ac): 15.849                      Time Shift(hrs): 0.00  
Curve Number: 80.86                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0050                      Node: NG0050                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN



Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: G0050      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 44.49  
Area(ac): 6.415      Time Shift(hrs): 0.00  
Curve Number: 86.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0060      Node: NG0060      Status: Onsite  
Group: G      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: G0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 45.40  
Area(ac): 13.245      Time Shift(hrs): 0.00  
Curve Number: 85.92      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0070      Node: NG0070      Status: Onsite  
Group: G      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: G0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.52  
Area(ac): 5.986      Time Shift(hrs): 0.00  
Curve Number: 84.69      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0080      Node: NG0080      Status: Onsite  
Group: G      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: G0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 11.204      Time Shift(hrs): 0.00  
Curve Number: 85.92      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

---

Name: G0090                      Node: NG0090                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0090                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 17.26  
Area(ac): 4.626                      Time Shift(hrs): 0.00  
Curve Number: 76.53                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0100                      Node: NG0100                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0100                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 0.904                      Time Shift(hrs): 0.00  
Curve Number: 77.96                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0110                      Node: NG0110                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0110                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 50.74  
Area(ac): 11.906                      Time Shift(hrs): 0.00  
Curve Number: 84.01                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0120                      Node: NG0120                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN



Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0120                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 21.27  
Area(ac): 3.431                      Time Shift(hrs): 0.00  
Curve Number: 79.34                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0130                      Node: NG0130                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0130                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 63.15  
Area(ac): 13.429                      Time Shift(hrs): 0.00  
Curve Number: 82.38                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0140                      Node: NG0140                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0140                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 33.01  
Area(ac): 4.125                      Time Shift(hrs): 0.00  
Curve Number: 78.05                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0150                      Node: NG0150                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0150                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 17.67  
Area(ac): 14.360                      Time Shift(hrs): 0.00  
Curve Number: 85.72                      Max Allowable Q(cfs): 999999.000

Long Branch BMP Model Results  
Input Data Report Summary

DCIA(%): 0.00

---

Name: G0160                      Node: NG0160                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0160                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 89.85  
Area(ac): 23.502                      Time Shift(hrs): 0.00  
Curve Number: 86.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: G0170                      Node: NG0170                      Status: Onsite  
Group: G                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: G0170                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 105.74  
Area(ac): 47.780                      Time Shift(hrs): 0.00  
Curve Number: 87.03                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: H0010                      Node: NH0010                      Status: Onsite  
Group: H                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: H0010                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 26.05  
Area(ac): 9.076                      Time Shift(hrs): 0.00  
Curve Number: 79.01                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: H0020                      Node: NH0020                      Status: Onsite



Long Branch BMP Model Results  
Input Data Report Summary

Group: H                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: H0020                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 21.20  
Area(ac): 18.735                      Time Shift(hrs): 0.00  
Curve Number: 79.18                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: H0030                      Node: NH0030                      Status: Onsite  
Group: H                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: H0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 24.07  
Area(ac): 3.674                      Time Shift(hrs): 0.00  
Curve Number: 83.47                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: H0040                      Node: NH0040                      Status: Onsite  
Group: H                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: H0040                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.13  
Area(ac): 7.721                      Time Shift(hrs): 0.00  
Curve Number: 81.92                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: H0050                      Node: NH0050                      Status: Onsite  
Group: H                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: H0050                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 81.37  
Area(ac): 46.058                      Time Shift(hrs): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Curve Number: 77.83  
DCIA(%): 0.00

Max Allowable Q(cfs): 999999.000

Name: H0060  
Group: H

Node: NH0060      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: H0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 26.43  
Area(ac): 4.874      Time Shift(hrs): 0.00  
Curve Number: 85.74      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: H0070  
Group: H

Node: NH0070      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: H0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 43.09  
Area(ac): 23.377      Time Shift(hrs): 0.00  
Curve Number: 85.80      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: H0080  
Group: H

Node: NH0080      Status: Onsite  
Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: H0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 25.42  
Area(ac): 8.920      Time Shift(hrs): 0.00  
Curve Number: 77.08      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Name: H0090      Node: NH0090      Status: Onsite  
Group: H      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: H0090      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 52.62  
Area(ac): 19.620      Time Shift(hrs): 0.00  
Curve Number: 84.13      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0010      Node: NJ0010      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0010      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 2.827      Time Shift(hrs): 0.00  
Curve Number: 84.87      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0020      Node: NJ0020      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0020      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 16.56  
Area(ac): 14.520      Time Shift(hrs): 0.00  
Curve Number: 84.98      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0030      Node: NJ0030      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0030      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 74.71

Long Branch BMP Model Results  
Input Data Report Summary

Area(ac): 11.200      Time Shift(hrs): 0.00  
Curve Number: 85.69      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0040      Node: NJ0040      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0040      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 3.380      Time Shift(hrs): 0.00  
Curve Number: 84.29      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0050      Node: NJ0050      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0050      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 2.917      Time Shift(hrs): 0.00  
Curve Number: 84.31      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0060      Node: NJ0060      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 11.34  
Area(ac): 1.716      Time Shift(hrs): 0.00  
Curve Number: 84.02      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Name: J0070      Node: NJ0070      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 2.208      Time Shift(hrs): 0.00  
Curve Number: 85.03      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0080      Node: NJ0080      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 6.579      Time Shift(hrs): 0.00  
Curve Number: 82.73      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0090      Node: NJ0090      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0090      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 71.38  
Area(ac): 29.143      Time Shift(hrs): 0.00  
Curve Number: 87.19      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0100      Node: NJ0100      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0100      Storm Duration(hrs): 24.00



Long Branch BMP Model Results  
Input Data Report Summary

Rainfall Amount(in): 0.000      Time of Conc(min): 28.90  
Area(ac): 6.000      Time Shift(hrs): 0.00  
Curve Number: 82.05      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0110      Node: NJ0110      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0110      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 62.84  
Area(ac): 20.185      Time Shift(hrs): 0.00  
Curve Number: 79.23      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0120      Node: NJ0120      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0120      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 63.59  
Area(ac): 6.723      Time Shift(hrs): 0.00  
Curve Number: 86.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0130      Node: NJ0130      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0130      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 88.30  
Area(ac): 17.259      Time Shift(hrs): 0.00  
Curve Number: 79.68      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Name: J0140                      Node: NJ0140                      Status: Onsite  
Group: J                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: J0140                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 31.27  
Area(ac): 5.750                      Time Shift(hrs): 0.00  
Curve Number: 83.26                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0150                      Node: NJ0150                      Status: Onsite  
Group: J                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: J0150                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 48.88  
Area(ac): 10.766                      Time Shift(hrs): 0.00  
Curve Number: 85.08                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0160                      Node: NJ0160                      Status: Onsite  
Group: J                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: J0160                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 96.52  
Area(ac): 44.062                      Time Shift(hrs): 0.00  
Curve Number: 84.33                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0170                      Node: NJ0170                      Status: Onsite  
Group: J                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0

Long Branch BMP Model Results  
Input Data Report Summary

Rainfall File: J0170      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 55.99  
Area(ac): 16.873      Time Shift(hrs): 0.00  
Curve Number: 85.66      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0190      Node: NJ0190      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0190      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 5.931      Time Shift(hrs): 0.00  
Curve Number: 83.71      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0200      Node: NJ0200      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0200      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 41.60  
Area(ac): 7.861      Time Shift(hrs): 0.00  
Curve Number: 82.56      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0210      Node: NJ0210      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0210      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 25.84  
Area(ac): 10.687      Time Shift(hrs): 0.00  
Curve Number: 85.37      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Name: J0220      Node: NJ0220      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0220      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 31.47  
Area(ac): 6.522      Time Shift(hrs): 0.00  
Curve Number: 84.51      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0230      Node: NJ0230      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0230      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 85.23  
Area(ac): 23.046      Time Shift(hrs): 0.00  
Curve Number: 81.70      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0240      Node: NJ0240      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0240      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 124.80  
Area(ac): 21.507      Time Shift(hrs): 0.00  
Curve Number: 83.32      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: J0250      Node: NJ0250      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0250      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 35.96  
Area(ac): 7.704      Time Shift(hrs): 0.00  
Curve Number: 85.77      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: J0260      Node: NJ0260      Status: Onsite  
Group: J      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: J0260      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 71.75  
Area(ac): 6.021      Time Shift(hrs): 0.00  
Curve Number: 77.64      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0010      Node: NK0010      Status: Onsite  
Group: K      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: K0010      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 47.12  
Area(ac): 9.405      Time Shift(hrs): 0.00  
Curve Number: 88.15      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0020      Node: NK0020      Status: Onsite  
Group: K      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: K0020      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 10.00  
Area(ac): 2.999      Time Shift(hrs): 0.00  
Curve Number: 86.39      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Long Branch BMP Model Results  
Input Data Report Summary

---

Name: K0030                      Node: NK0030                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: K0030                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 54.81  
Area(ac): 19.920                      Time Shift(hrs): 0.00  
Curve Number: 76.46                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0040                      Node: NK0040                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: K0040                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.00  
Area(ac): 14.020                      Time Shift(hrs): 0.00  
Curve Number: 85.09                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0050                      Node: NK0050                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: K0050                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 66.34  
Area(ac): 10.931                      Time Shift(hrs): 0.00  
Curve Number: 80.43                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0060                      Node: NK0060                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN



Long Branch BMP Model Results  
Input Data Report Summary

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: K0060      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 31.99  
Area(ac): 8.502      Time Shift(hrs): 0.00  
Curve Number: 84.00      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0070      Node: NK0070      Status: Onsite  
Group: K      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: K0070      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 44.73  
Area(ac): 21.780      Time Shift(hrs): 0.00  
Curve Number: 78.02      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0080      Node: NK0080      Status: Onsite  
Group: K      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: K0080      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 28.07  
Area(ac): 4.434      Time Shift(hrs): 0.00  
Curve Number: 82.95      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0090      Node: NK0090      Status: Onsite  
Group: K      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256      Peaking Factor: 256.0  
Rainfall File: K0090      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000      Time of Conc(min): 44.79  
Area(ac): 7.645      Time Shift(hrs): 0.00  
Curve Number: 76.10      Max Allowable Q(cfs): 999999.000

Long Branch BMP Model Results  
Input Data Report Summary

DCIA(%): 0.00

---

Name: K0100                      Node: NK0100                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: K0100                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 47.51  
Area(ac): 1.709                      Time Shift(hrs): 0.00  
Curve Number: 83.84                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0110                      Node: NK0110                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: K0110                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 13.18  
Area(ac): 3.342                      Time Shift(hrs): 0.00  
Curve Number: 84.76                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0120                      Node: NK0120                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                      Peaking Factor: 256.0  
Rainfall File: K0120                      Storm Duration(hrs): 24.00  
Rainfall Amount(in): 0.000                      Time of Conc(min): 10.95  
Area(ac): 6.682                      Time Shift(hrs): 0.00  
Curve Number: 87.97                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

---

Name: K0130                      Node: NK0130                      Status: Onsite

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: K0130	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 12.59
Area(ac): 2.420	Time Shift(hrs): 0.00
Curve Number: 80.62	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	

---

Name: K0140                      Node: NK0140                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: K0140	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 14.52
Area(ac): 7.686	Time Shift(hrs): 0.00
Curve Number: 81.26	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	

---

Name: K0150                      Node: NK0150                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: K0150	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 43.97
Area(ac): 11.999	Time Shift(hrs): 0.00
Curve Number: 81.77	Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00	

---

Name: K0160                      Node: NK0160                      Status: Onsite  
Group: K                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256	Peaking Factor: 256.0
Rainfall File: K0160	Storm Duration(hrs): 24.00
Rainfall Amount(in): 0.000	Time of Conc(min): 10.42
Area(ac): 3.819	Time Shift(hrs): 0.00



Long Branch BMP Model Results  
Input Data Report Summary

Curve Number: 80.37  
DCIA(%): 0.00

Max Allowable Q(cfs): 999999.000

==== Nodes =====

Name: NA0010      Base Flow(cfs): 0.000      Init Stage(ft): 14.100  
Group: A              Warn Stage(ft): 20.400  
Type: Stage/Area

362915\_004

Stage(ft)	Area(ac)
-----------	----------

14.100	0.1888
15.100	0.6761
16.100	0.8242
17.100	1.0176
18.100	1.6994
19.100	6.1346
20.400	7.1258

Name: NA0020      Base Flow(cfs): 0.000      Init Stage(ft): 11.000  
Group: A              Warn Stage(ft): 22.900  
Type: Stage/Area

362915\_010

Stage(ft)	Area(ac)
-----------	----------

11.000	5.1500
13.900	5.2514
14.900	5.5286
15.900	5.7163
16.900	6.4853
17.900	7.3806
18.900	10.9154
19.900	15.5607
20.900	21.4899
21.900	22.6286
22.900	22.6854

Long Branch BMP Model Results  
Input Data Report Summary

Name: NA0030      Base Flow(cfs): 0.000      Init Stage(ft): 13.000  
Group: A      Warn Stage(ft): 21.600  
Type: Stage/Area

013015\_005

Stage(ft)	Area(ac)
13.000	1.7800
14.500	1.9175
15.300	2.0122
16.300	2.0776
17.300	2.1752
18.300	2.8323
19.300	6.7068
20.300	12.5471
21.600	13.1543

Name: NA0040      Base Flow(cfs): 0.000      Init Stage(ft): 14.600  
Group: A      Warn Stage(ft): 21.900  
Type: Stage/Area

362915\_002

Stage(ft)	Area(ac)
14.600	0.4000
15.600	0.4689
16.600	1.0382
17.600	1.5111
18.600	3.2983
19.600	6.2661
20.600	8.5526
21.900	8.8206

Name: NA0050      Base Flow(cfs): 0.000      Init Stage(ft): 13.600  
Group: A      Warn Stage(ft): 20.900  
Type: Stage/Area

362915\_011

Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

13.600	0.1257
14.600	0.1567
15.600	0.4764
16.600	0.8287
17.600	0.9206
18.600	1.5037
19.600	3.3988
20.900	5.9625

Name: NA0060      Base Flow(cfs): 0.000      Init Stage(ft): 16.100  
Group: A      Warn Stage(ft): 20.400  
Type: Stage/Area

013015\_002

Stage(ft)	Area(ac)
-----------	----------

16.100	0.0011
17.100	0.0792
18.100	0.2772
19.100	0.4867
20.400	2.0368

Name: NA0070      Base Flow(cfs): 0.000      Init Stage(ft): 15.400  
Group: A      Warn Stage(ft): 19.300  
Type: Stage/Area

013015\_001

Stage(ft)	Area(ac)
-----------	----------

15.400	0.0006
16.400	0.1004
17.400	0.4482
18.400	1.9846
19.300	2.4730

Name: NA0080      Base Flow(cfs): 0.000      Init Stage(ft): 13.100  
Group: A      Warn Stage(ft): 20.500  
Type: Stage/Area



Long Branch BMP Model Results  
Input Data Report Summary

013015\_010

Stage(ft)	Area(ac)
13.100	0.0115
14.100	0.0976
15.100	4.0771
16.100	5.1831
17.100	14.9351
18.100	45.1957
19.100	62.3382
20.500	65.3426

Name: NA0081      Base Flow(cfs): 0.000      Init Stage(ft): 12.000  
Group: A      Warn Stage(ft): 20.500  
Type: Stage/Area

013015\_009

Stage(ft)	Area(ac)
12.000	0.1000
23.000	0.1000

Name: NA0082      Base Flow(cfs): 0.000      Init Stage(ft): 11.000  
Group: A      Warn Stage(ft): 18.300  
Type: Stage/Area

063016\_001

Stage(ft)	Area(ac)
11.000	0.1000
18.000	0.1000

Name: NB0010      Base Flow(cfs): 0.000      Init Stage(ft): 13.000  
Group: B      Warn Stage(ft): 20.700  
Type: Stage/Area

312916\_012

Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

13.000	0.1100
14.900	0.2115
15.900	0.2781
16.900	0.3326
17.900	0.4749
18.900	0.5963
19.900	1.3160
20.700	1.6839

Name: NB0020	Base Flow(cfs): 0.000	Init Stage(ft): 12.650
Group: B	Warn Stage(ft): 20.800	
Type: Stage/Area		

312916\_021

Stage(ft)	Area(ac)
-----------	----------

12.650	0.0011
13.400	0.0115
14.400	0.4316
15.400	0.5096
16.400	0.5745
17.400	0.6853
18.404	3.1325
19.400	6.5955
20.800	7.7210

Name: NB0030	Base Flow(cfs): 0.000	Init Stage(ft): 14.800
Group: B	Warn Stage(ft): 20.100	
Type: Stage/Area		

312916\_002

Stage(ft)	Area(ac)
-----------	----------

14.800	0.0017
15.800	0.1171
16.800	1.4601
17.800	3.9509
18.800	9.3411
20.100	10.7673

Long Branch BMP Model Results  
Input Data Report Summary

Name: NB0040      Base Flow(cfs): 0.000      Init Stage(ft): 15.000  
Group: B      Warn Stage(ft): 20.100  
Type: Stage/Area

312916\_045

Stage(ft)	Area(ac)
15.000	0.0006
16.000	0.1618
17.000	0.3352
18.000	1.6472
19.000	4.3802
20.100	6.3235

Name: NB0050      Base Flow(cfs): 0.000      Init Stage(ft): 12.910  
Group: B      Warn Stage(ft): 20.250  
Type: Stage/Area

312916\_126

Stage(ft)	Area(ac)
12.910	0.0574
13.910	0.1205
14.910	0.2508
15.910	1.9244
16.910	6.7000
17.910	10.9079
18.910	14.3021
19.910	15.6916
20.570	15.8121

Name: NB0051      Base Flow(cfs): 0.000      Init Stage(ft): 11.500  
Group: B      Warn Stage(ft): 40.410  
Type: Stage/Area

312916\_100

Stage(ft)	Area(ac)
-----------	----------



Long Branch BMP Model Results  
Input Data Report Summary

Name: NB0055      Base Flow(cfs): 0.000      Init Stage(ft): 12.000  
Group: B      Warn Stage(ft): 17.200  
Type: Stage/Area

312916\_130

Stage(ft)	Area(ac)
12.000	0.0576
13.740	0.0920
14.740	0.4752
15.740	1.9800
16.740	3.2323
17.660	3.3104

Name: NB0060      Base Flow(cfs): 0.000      Init Stage(ft): 14.400  
Group: B      Warn Stage(ft): 20.400  
Type: Stage/Area

312916\_024

Stage(ft)	Area(ac)
14.400	0.5160
15.400	0.5676
16.400	0.6296
17.400	0.6979
18.400	2.3255
19.400	4.8554
20.400	5.8391

Name: NB0070      Base Flow(cfs): 0.000      Init Stage(ft): 14.400  
Group: B      Warn Stage(ft): 20.000  
Type: Stage/Area

312916\_044

Stage(ft)	Area(ac)
14.400	0.0011
15.400	0.1085

Long Branch BMP Model Results  
Input Data Report Summary

16.400	0.1727
17.400	0.2370
18.400	1.3895
19.400	2.6211
20.000	2.9201

---

Name: NB0080	Base Flow(cfs): 0.000	Init Stage(ft): 11.900
Group: B	Warn Stage(ft): 20.100	
Type: Stage/Area		

312916\_040

Stage(ft)	Area(ac)
-----------	----------

---

11.900	0.0057
12.900	0.9533
13.900	1.1123
14.900	1.3126
15.900	1.6948
16.900	4.1294
17.900	13.7885
18.900	31.2609
20.100	34.3406

---

Name: NB0090	Base Flow(cfs): 0.000	Init Stage(ft): 11.000
Group: B	Warn Stage(ft): 40.410	
Type: Stage/Area		

322916\_044

Stage(ft)	Area(ac)
-----------	----------

---

11.000	0.0574
13.700	0.5740
14.700	0.7117
15.700	3.1124
16.700	5.0585
17.700	6.2305
18.700	7.0225
19.700	7.5798
20.700	7.8421
21.700	8.0056
22.700	8.0969

Long Branch BMP Model Results  
Input Data Report Summary

23.703	8.1870
24.703	8.2794
25.703	8.3632
26.703	8.4487
27.703	8.5290
28.703	8.6019
29.703	8.6846
30.703	8.7655
31.703	8.8510
32.703	8.9348
33.703	9.0295
34.703	9.1294
35.703	9.2413
36.703	9.3687
37.703	9.5099
38.703	9.6597
39.703	9.7716
40.410	9.8049

---

Name: NC0010	Base Flow(cfs): 0.000	Init Stage(ft): 12.850
Group: C	Warn Stage(ft): 19.800	
Type: Stage/Area		

312916\_014

Stage(ft)	Area(ac)
12.850	0.1148
15.400	0.1948
16.400	0.2032
17.400	0.6600
18.400	3.0952
19.800	5.1584

---

Name: NC0020	Base Flow(cfs): 0.000	Init Stage(ft): 11.700
Group: C	Warn Stage(ft): 20.800	
Type: Stage/Area		

312916\_054

Stage(ft)	Area(ac)
11.700	0.0006



Long Branch BMP Model Results  
Input Data Report Summary

12.400	0.0040
13.400	0.0189
14.400	0.0821
15.400	0.2296
16.400	1.0543
17.400	5.9315
18.400	7.1086
19.400	7.1304
20.800	7.1315

Name: NC0021      Base Flow(cfs): 0.000      Init Stage(ft): 11.360  
Group: C      Warn Stage(ft): 21.400  
Type: Stage/Area

312916\_084

Stage(ft)	Area(ac)
11.360	0.1000
15.000	0.1000

Name: NC0022      Base Flow(cfs): 0.000      Init Stage(ft): 11.000  
Group: C      Warn Stage(ft): 21.400  
Type: Stage/Area

312916\_089

Stage(ft)	Area(ac)
11.000	0.1000
18.000	0.1000

Name: NC0030      Base Flow(cfs): 0.000      Init Stage(ft): 13.300  
Group: C      Warn Stage(ft): 19.300  
Type: Stage/Area

312916\_075

Stage(ft)	Area(ac)
13.300	0.0006
14.300	0.1532

Long Branch BMP Model Results  
Input Data Report Summary

15.300	0.5228
16.300	1.0371
17.300	3.3563
18.300	7.4736
19.300	8.7781

---

Name: NC0031      Base Flow(cfs): 0.000      Init Stage(ft): 13.000  
Group: C      Warn Stage(ft): 19.300  
Type: Stage/Area

312916\_034

Stage(ft)	Area(ac)
13.000	0.1000
23.000	0.1000

---

Name: NC0040      Base Flow(cfs): 0.000      Init Stage(ft): 9.300  
Group: C      Warn Stage(ft): 19.800  
Type: Stage/Area

312916\_019

Stage(ft)	Area(ac)
9.300	0.0006
10.300	0.0964
11.300	0.5693
12.300	0.7484
13.300	0.8471
14.300	0.9194
15.300	0.9803
16.300	1.3258
17.300	2.7261
18.300	5.2772
19.300	7.0477
19.800	7.0564

---

Name: NC0050      Base Flow(cfs): 0.000      Init Stage(ft): 11.800  
Group: C      Warn Stage(ft): 18.300  
Type: Stage/Area

Long Branch BMP Model Results  
Input Data Report Summary

312916\_087

Stage(ft)	Area(ac)
-----------	----------

8.000	1.1000
12.400	1.4000
13.400	6.9508
16.400	16.1042
17.400	20.2611
18.300	20.5142

Name: NC0051      Base Flow(cfs): 0.000      Init Stage(ft): 11.700  
Group: C      Warn Stage(ft): 18.300  
Type: Stage/Area

312916\_081

Stage(ft)	Area(ac)
-----------	----------

11.700	0.1000
20.000	0.1000

Name: NC0060      Base Flow(cfs): 0.000      Init Stage(ft): 15.300  
Group: C      Warn Stage(ft): 19.200  
Type: Stage/Area

362915\_006

Stage(ft)	Area(ac)
-----------	----------

15.300	0.0052
16.300	0.0620
17.300	0.4884
18.300	1.0032
19.200	2.3410

Name: NC0070      Base Flow(cfs): 0.000      Init Stage(ft): 10.600  
Group: C      Warn Stage(ft): 19.000  
Type: Stage/Area

312916\_018



Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

10.600	2.4400
12.400	2.8885
13.400	2.9752
14.400	3.0946
15.400	3.2903
16.400	4.1609
17.400	8.7552
18.400	14.5305
19.000	15.3570

Name: NC0080	Base Flow(cfs): 0.000	Init Stage(ft): 6.600
Group: C	Warn Stage(ft): 21.400	
Type: Stage/Area		

312916\_086

Stage(ft)	Area(ac)
-----------	----------

6.600	1.5900
14.000	2.6800
15.000	6.1000
16.000	15.0100
17.000	35.3300
18.000	42.6700
19.000	43.9300
20.000	44.7100
21.000	44.7200

Name: NC0090	Base Flow(cfs): 0.000	Init Stage(ft): 10.900
Group: C	Warn Stage(ft): 19.700	
Type: Stage/Area		

312916\_013

Stage(ft)	Area(ac)
-----------	----------

10.900	3.9800
13.400	8.8400
14.400	11.4200
15.400	27.7700
16.400	60.5500

Long Branch BMP Model Results  
Input Data Report Summary

17.400	76.5800
18.400	81.9800
19.700	82.6300

-----

Name: NC0100	Base Flow(cfs): 0.000	Init Stage(ft): 10.400
Group: C	Warn Stage(ft): 16.600	
Type: Stage/Area		

312916\_097

Stage(ft)	Area(ac)
10.400	0.1000
20.000	0.1000

-----

Name: NC0101	Base Flow(cfs): 0.000	Init Stage(ft): 10.500
Group: C	Warn Stage(ft): 19.700	
Type: Stage/Area		

312916\_046

Stage(ft)	Area(ac)
10.500	0.1000
20.000	0.1000

-----

Name: NC0102	Base Flow(cfs): 0.000	Init Stage(ft): 10.600
Group: C	Warn Stage(ft): 19.700	
Type: Stage/Area		

312916\_095

Stage(ft)	Area(ac)
10.600	0.1000
18.000	0.1000

-----

Name: NC0103	Base Flow(cfs): 0.000	Init Stage(ft): 10.700
Group: C	Warn Stage(ft): 19.700	
Type: Stage/Area		

Long Branch BMP Model Results  
Input Data Report Summary

312916\_094

Stage(ft)	Area(ac)
-----------	----------

10.700	0.1000
15.000	0.1000

Name: NC0104      Base Flow(cfs): 0.000      Init Stage(ft): 10.800  
Group: C      Warn Stage(ft): 19.700  
Type: Stage/Area

312916\_092

Stage(ft)	Area(ac)
-----------	----------

10.800	0.1000
18.000	0.1000

Name: NC0105      Base Flow(cfs): 0.000      Init Stage(ft): 10.300  
Group: C      Warn Stage(ft): 16.600  
Type: Stage/Area

312916\_035

Stage(ft)	Area(ac)
-----------	----------

10.300	0.1574
12.100	0.2574
13.100	0.3861
14.100	0.9240
15.100	1.9927
16.100	3.1198
16.600	3.1388

Name: NC0106      Base Flow(cfs): 0.000      Init Stage(ft): 8.300  
Group: C      Warn Stage(ft): 17.500  
Type: Stage/Area

312916\_080

Stage(ft)	Area(ac)
-----------	----------



Long Branch BMP Model Results  
Input Data Report Summary

8.300 0.1000  
15.000 0.1000

Name: NC0110 Base Flow(cfs): 0.000 Init Stage(ft): 14.400  
Group: C Warn Stage(ft): 17.700  
Type: Stage/Area

312916\_010

Stage(ft) Area(ac)

14.400 0.0017  
15.400 0.0654  
16.400 0.3524  
17.700 0.7404

Name: NC0115 Base Flow(cfs): 0.000 Init Stage(ft): 8.300  
Group: C Warn Stage(ft): 17.200  
Type: Stage/Area

312916\_082

Stage(ft) Area(ac)

8.300 0.0459  
12.900 0.0859  
13.900 0.3702  
14.900 3.5962  
15.900 6.1513  
17.200 6.6609

Name: NC0120 Base Flow(cfs): 0.000 Init Stage(ft): 7.000  
Group: C Warn Stage(ft): 17.500  
Type: Stage/Area

312916\_051

Stage(ft) Area(ac)

7.000 0.0517  
13.200 0.1165  
14.200 0.1888

Long Branch BMP Model Results  
Input Data Report Summary

15.200	2.0036
16.200	3.5084
17.500	3.8401

---

Name: NC0130      Base Flow(cfs): 0.000      Init Stage(ft): 7.200  
Group: C      Warn Stage(ft): 16.800  
Type: Stage/Area

312916\_027

Stage(ft)	Area(ac)
-----------	----------

---

7.200	0.0574
8.200	0.0678
9.200	0.0717
10.200	0.1538
11.200	0.3535
12.200	0.7208
13.200	1.0153
14.200	1.5473
15.200	2.2067
16.200	2.6636
16.800	2.7405

---

Name: NC0140      Base Flow(cfs): 0.000      Init Stage(ft): 1.030  
Group: C      Warn Stage(ft): 16.900  
Type: Stage/Area

312916\_060

Stage(ft)	Area(ac)
-----------	----------

---

1.030	0.8600
8.300	0.9649
9.300	1.0640
10.300	1.4796
11.300	1.6707
12.300	1.8784
13.300	2.0707
14.300	2.3990
15.300	2.7818
16.300	2.9184
16.900	2.9310

Long Branch BMP Model Results  
Input Data Report Summary

Name: NC0150      Base Flow(cfs): 0.000      Init Stage(ft): 6.500  
Group: C      Warn Stage(ft): 18.900  
Type: Stage/Area

312916\_048

Stage(ft)	Area(ac)
-----------	----------

6.500	0.2531
7.500	0.3007
8.500	0.3639
9.500	0.4218
10.500	0.5073
11.500	0.6141
12.500	0.7013
13.500	0.7616
14.500	2.1028
15.500	3.5836
16.500	3.9905
17.502	4.0496
18.905	4.1024

Name: NC0160      Base Flow(cfs): 0.000      Init Stage(ft): 8.200  
Group: C      Warn Stage(ft): 17.500  
Type: Stage/Area

312916\_032

Stage(ft)	Area(ac)
-----------	----------

8.200	0.2000
17.500	0.2000

Name: NC0160A      Base Flow(cfs): 0.000      Init Stage(ft): 12.780  
Group: C      Warn Stage(ft): 17.000  
Type: Stage/Area

Stage(ft)	Area(ac)
-----------	----------



Long Branch BMP Model Results  
Input Data Report Summary

12.780      0.2000  
15.560      0.2000

---

Name: NC0160B      Base Flow(cfs): 0.000      Init Stage(ft): 12.780  
Group: C      Warn Stage(ft): 15.000  
Type: Stage/Area

Stage(ft)      Area(ac)

---

12.780      1.6000  
15.400      2.7800

---

Name: NC0161      Base Flow(cfs): 0.000      Init Stage(ft): 8.100  
Group: C      Warn Stage(ft): 17.500  
Type: Stage/Area

312916\_016

Stage(ft)      Area(ac)

---

8.100      0.1000  
8.200      0.2875  
8.700      0.3346  
9.700      0.3983  
10.700      0.5843  
11.700      0.9751  
12.700      1.5261  
13.700      2.3037  
14.700      4.2683  
15.700      8.1439  
16.700      9.4611  
17.500      9.5214

---

Name: NC0170      Base Flow(cfs): 0.000      Init Stage(ft): 8.000  
Group: C      Warn Stage(ft): 38.400  
Type: Stage/Area

322916\_052

Stage(ft)      Area(ac)

Long Branch BMP Model Results  
Input Data Report Summary

8.000	0.1000
9.100	0.2400
10.100	0.4700
11.100	0.6900
13.100	1.0000
14.100	1.6500
15.100	2.2383
16.100	4.6160
17.100	6.0141
18.100	6.3326
19.102	6.4193
20.102	6.4842
21.102	6.5375
22.102	6.5880
23.102	6.6357
24.102	6.6776
25.102	6.7183
26.102	6.7585
27.102	6.7998
28.102	6.8388
29.102	6.8813
30.102	6.9215
31.102	6.9628
32.102	7.0059
33.102	7.0535
34.102	7.1017
35.102	7.1470
36.102	7.2010
37.102	7.2618
38.410	7.3353

Name: ND0010	Base Flow(cfs): 0.000	Init Stage(ft): 12.420
Group: D	Warn Stage(ft): 18.000	
Type: Stage/Area		

063016\_014

Stage(ft)	Area(ac)
12.420	0.1230
15.200	0.2296
16.200	0.3484
17.200	0.8724

Long Branch BMP Model Results  
Input Data Report Summary

18.000 0.9900

Name: ND0020 Base Flow(cfs): 0.000 Init Stage(ft): 14.500  
Group: D Warn Stage(ft): 17.200  
Type: Stage/Area

063016\_041

Stage(ft)	Area(ac)
-----------	----------

14.500	0.0006
15.500	0.0413
16.500	0.2996
17.200	0.3685

Name: ND0030 Base Flow(cfs): 0.000 Init Stage(ft): 12.110  
Group: D Warn Stage(ft): 19.100  
Type: Stage/Area

063016\_039

Stage(ft)	Area(ac)
-----------	----------

12.110	0.1574
13.100	0.5194
14.100	0.5877
15.100	0.6927
16.100	1.7671
17.100	4.9805
18.100	6.2632
19.100	6.2839

Name: ND0040 Base Flow(cfs): 0.000 Init Stage(ft): 14.200  
Group: D Warn Stage(ft): 18.500  
Type: Stage/Area

013015\_004

Stage(ft)	Area(ac)
-----------	----------

14.200	0.0006
15.200	0.1504



Long Branch BMP Model Results  
Input Data Report Summary

16.200	0.4804
17.200	3.1279
18.500	6.6070

-----

Name: ND0050	Base Flow(cfs): 0.000	Init Stage(ft): 10.900
Group: D	Warn Stage(ft): 18.600	
Type: Stage/Area		

063016\_013

Stage(ft)	Area(ac)
-----------	----------

-----

10.900	0.0230
11.600	0.0587
12.600	0.0848
13.600	0.1545
14.600	0.2089
15.600	1.0302
16.600	2.8736
17.600	7.6188
18.600	8.2478

-----

Name: ND0051	Base Flow(cfs): 0.000	Init Stage(ft): 10.800
Group: D	Warn Stage(ft): 18.300	
Type: Stage/Area		

312916\_073

Stage(ft)	Area(ac)
-----------	----------

-----

10.800	0.1000
15.000	0.1000

-----

Name: ND0060	Base Flow(cfs): 0.000	Init Stage(ft): 10.700
Group: D	Warn Stage(ft): 19.100	
Type: Stage/Area		

312916\_039

Stage(ft)	Area(ac)
-----------	----------

-----

10.700	0.1000
--------	--------

Long Branch BMP Model Results  
Input Data Report Summary

14.600	0.2402
15.600	0.9286
16.600	2.8903
17.600	6.1932
18.600	7.6596
19.100	7.7278

---

Name: ND0070      Base Flow(cfs): 0.000      Init Stage(ft): 11.500  
Group: D      Warn Stage(ft): 19.100  
Type: Stage/Area

063016\_024

Stage(ft)	Area(ac)
11.500	0.0011
13.200	0.0011
14.200	0.5693
15.200	2.6314
16.200	7.5465
17.200	16.9410
18.200	20.8333
19.100	21.0491

---

Name: ND0080      Base Flow(cfs): 0.000      Init Stage(ft): 10.700  
Group: D      Warn Stage(ft): 18.300  
Type: Stage/Area

063016\_042

Stage(ft)	Area(ac)
10.700	0.0149
11.600	0.0155
12.600	0.0195
13.600	0.0230
14.600	0.1113
15.600	0.2175
16.600	0.6319
17.600	0.9085
18.300	1.0009

---

Long Branch BMP Model Results  
Input Data Report Summary

Name: ND0081      Base Flow(cfs): 0.000      Init Stage(ft): 9.320  
Group: D      Warn Stage(ft): 18.600  
Type: Stage/Area

063016\_025

Stage(ft)	Area(ac)
-----------	----------

9.320	0.1000
15.000	0.1000

Name: ND0090      Base Flow(cfs): 0.000      Init Stage(ft): 7.000  
Group: D      Warn Stage(ft): 19.000  
Type: Stage/Area

063016\_020

Stage(ft)	Area(ac)
-----------	----------

8.000	2.8600
11.000	3.8600
13.800	4.3100
14.800	4.4100
15.800	24.2400
16.800	81.7500
17.800	119.5100
19.000	120.6200

Name: ND0091      Base Flow(cfs): 0.000      Init Stage(ft): 7.780  
Group: D      Warn Stage(ft): 18.600  
Type: Stage/Area

063016\_043

Stage(ft)	Area(ac)
-----------	----------

7.780	0.1000
15.000	0.1000

Name: ND0100      Base Flow(cfs): 0.000      Init Stage(ft): 11.400  
Group: D      Warn Stage(ft): 17.900  
Type: Stage/Area



Long Branch BMP Model Results  
Input Data Report Summary

063016\_035

Stage(ft)	Area(ac)
-----------	----------

11.400	1.0170
12.400	1.1398
13.400	1.2431
14.400	2.6245
15.400	14.2132
16.400	36.3361
17.400	40.2043
17.900	40.2824

Name: ND0110      Base Flow(cfs): 0.000      Init Stage(ft): 9.150  
Group: D      Warn Stage(ft): 17.900  
Type: Stage/Area

063016\_019

Stage(ft)	Area(ac)
-----------	----------

9.150	0.0000
11.700	0.0029
12.700	0.0993
13.700	0.1997
14.700	2.0759
15.700	7.7973
16.700	15.3461
17.900	17.0833

Name: ND0120      Base Flow(cfs): 0.000      Init Stage(ft): 10.100  
Group: D      Warn Stage(ft): 17.800  
Type: Stage/Area

063016\_022

Stage(ft)	Area(ac)
-----------	----------

10.100	0.1722
11.600	0.2722
12.600	0.4316
13.600	0.4959

Long Branch BMP Model Results  
Input Data Report Summary

14.600	0.5464
15.600	1.5163
16.600	3.9738
17.800	5.6726

Name: ND0130      Base Flow(cfs): 0.000      Init Stage(ft): 12.900  
Group: D      Warn Stage(ft): 17.800  
Type: Stage/Area

063016\_011

Stage(ft)	Area(ac)
-----------	----------

12.900	0.1148
13.900	0.5091
14.900	6.5238
15.900	23.3735
16.900	30.3375
17.800	31.4572

Name: ND0140      Base Flow(cfs): 0.000      Init Stage(ft): 14.700  
Group: D      Warn Stage(ft): 17.200  
Type: Stage/Area

063016\_007

Stage(ft)	Area(ac)
-----------	----------

14.700	0.0006
15.700	0.3455
16.700	0.9206
17.200	0.9298

Name: ND0150      Base Flow(cfs): 0.000      Init Stage(ft): 13.000  
Group: D      Warn Stage(ft): 18.000  
Type: Stage/Area

063016\_049

Stage(ft)	Area(ac)
-----------	----------

13.000	0.0046
--------	--------

Long Branch BMP Model Results  
Input Data Report Summary

14.000	0.2996
15.000	1.8721
16.000	4.8812
17.000	7.5769
18.000	8.7925

---

Name: ND0160	Base Flow(cfs): 0.000	Init Stage(ft): 13.800
Group: D	Warn Stage(ft): 18.000	
Type: Stage/Area		

063016\_037

Stage(ft)	Area(ac)
13.800	0.0006
14.800	0.1917
15.800	2.9976
16.800	4.4077
18.000	4.6987

---

Name: ND0170	Base Flow(cfs): 0.000	Init Stage(ft): 12.000
Group: D	Warn Stage(ft): 18.500	
Type: Stage/Area		

063016\_060

Stage(ft)	Area(ac)
12.000	0.1000
14.204	0.2815
15.204	0.4970
16.204	3.9503
17.204	4.9432
18.505	5.0407

---

Name: ND0180	Base Flow(cfs): 0.000	Init Stage(ft): 13.600
Group: D	Warn Stage(ft): 18.400	
Type: Stage/Area		

063016\_045

Stage(ft)	Area(ac)
-----------	----------



Long Branch BMP Model Results  
Input Data Report Summary

---

13.600	0.0006
14.600	0.3753
15.600	2.1109
16.600	4.0002
17.600	4.6660
18.400	4.7567

---

---

Name: ND0181      Base Flow(cfs): 0.000      Init Stage(ft): 11.300  
Group: D                      Warn Stage(ft): 41.110  
Type: Stage/Area

053016\_061

Stage(ft)	Area(ac)
11.300	0.1000
20.000	0.1000

---

---

Name: ND0182      Base Flow(cfs): 0.000      Init Stage(ft): 8.000  
Group: D                      Warn Stage(ft): 39.100  
Type: Stage/Area

053016\_068

Stage(ft)	Area(ac)
8.000	0.1000
15.000	0.1000

---

---

Name: ND0190      Base Flow(cfs): 0.000      Init Stage(ft): 7.800  
Group: D                      Warn Stage(ft): 17.300  
Type: Stage/Area

063016\_021

Stage(ft)	Area(ac)
7.800	3.0000
10.200	3.0974
11.200	3.1141
12.200	3.3081

Long Branch BMP Model Results  
Input Data Report Summary

13.200	3.7288
14.200	12.3106
15.200	38.7965
16.200	48.9250
17.300	49.0863

---

Name: ND0200      Base Flow(cfs): 0.000      Init Stage(ft): 11.200  
Group: D      Warn Stage(ft): 18.400  
Type: Stage/Area

312916\_065

Stage(ft)	Area(ac)
11.200	0.0010
13.600	0.0050
14.600	0.0425
15.600	0.3805
16.600	1.0124
17.600	1.4492
18.400	1.8595

---

Name: ND0210      Base Flow(cfs): 0.000      Init Stage(ft): 10.500  
Group: D      Warn Stage(ft): 18.700  
Type: Stage/Area

312916\_067

Stage(ft)	Area(ac)
10.500	0.1000
13.203	0.2870
14.203	0.3048
15.203	0.7461
16.203	2.0535
17.203	5.8064
18.203	8.5520
18.705	9.5569

---

Name: ND0220      Base Flow(cfs): 0.000      Init Stage(ft): 8.300  
Group: D      Warn Stage(ft): 16.500  
Type: Stage/Area

Long Branch BMP Model Results  
Input Data Report Summary

312916\_042

Stage(ft)	Area(ac)
8.300	2.0800
9.900	2.1000
10.900	2.1400
11.900	2.1803
12.900	2.4816
13.900	6.6437
14.900	23.3385
15.900	37.3668
16.500	37.6022

Name: ND0230      Base Flow(cfs): 0.000      Init Stage(ft): 7.500  
Group: D      Warn Stage(ft): 18.600  
Type: Stage/Area

063016\_023

Stage(ft)	Area(ac)
7.500	0.0118
8.300	0.0390
9.300	0.0683
10.300	0.0993
11.300	0.1435
12.300	0.2692
13.300	0.5911
14.300	1.5272
15.300	2.9832
16.300	4.9684
17.300	5.4735
18.600	5.5378

Name: ND0231      Base Flow(cfs): 0.000      Init Stage(ft): 7.400  
Group: D      Warn Stage(ft): 18.700  
Type: Stage/Area

312916\_059

Stage(ft)	Area(ac)
-----------	----------



Long Branch BMP Model Results  
Input Data Report Summary

7.400 0.1000  
15.000 0.1000

Name: ND0240 Base Flow(cfs): 0.000 Init Stage(ft): 10.700  
Group: D Warn Stage(ft): 19.300  
Type: Stage/Area

053016\_062

Stage(ft) Area(ac)

10.700 0.0040  
11.700 0.0419  
12.700 0.1504  
13.700 0.2456  
14.700 0.3702  
15.700 0.5475  
16.700 0.8058  
17.700 1.6678  
18.700 2.1189  
19.300 2.1907

Name: ND0250 Base Flow(cfs): 0.000 Init Stage(ft): 10.600  
Group: D Warn Stage(ft): 40.210  
Type: Stage/Area

053016\_041

Stage(ft) Area(ac)

10.600 0.5085  
11.600 0.8109  
12.600 1.1025  
13.600 1.3097  
14.600 1.5513  
15.600 2.1138  
16.600 4.6488  
17.600 6.6116  
18.600 7.0449  
19.600 7.3462  
20.600 7.5327  
21.603 7.7256

Long Branch BMP Model Results  
Input Data Report Summary

22.603	7.9081
23.603	8.0527
24.603	8.1778
25.603	8.3058
26.603	8.4229
27.603	8.5365
28.603	8.6496
29.603	8.7586
30.603	8.8654
31.603	8.9807
32.603	9.0966
33.603	9.2252
34.603	9.3429
35.603	9.4731
36.603	9.6178
37.603	9.7653
38.603	9.8996
39.603	9.9828
40.210	9.9931

Name: ND0260      Base Flow(cfs): 0.000      Init Stage(ft): 10.300  
Group: D      Warn Stage(ft): 41.110  
Type: Stage/Area

053016\_060

Stage(ft)	Area(ac)
-----------	----------

10.300	0.0006
11.300	0.0029
12.300	0.0626
13.300	0.2835
14.300	0.6514
15.300	1.1955
16.300	3.3264
17.300	4.7509
18.300	5.3954
19.300	6.6362
20.300	7.4535
21.303	7.6050
22.303	7.7301
23.303	7.8392
24.303	7.9431
25.303	8.0424

Long Branch BMP Model Results  
Input Data Report Summary

26.303	8.1348
27.303	8.2260
28.303	8.3075
29.303	8.3942
30.303	8.4722
31.303	8.5526
32.303	8.6295
33.303	8.7035
34.303	8.7770
35.303	8.8550
36.303	8.9342
37.303	9.0163
38.303	9.1064
39.303	9.2028
40.303	9.2872
41.110	9.3130

---

Name: ND0270	Base Flow(cfs): 0.000	Init Stage(ft): 9.600
Group: D	Warn Stage(ft): 16.700	
Type: Stage/Area		

312916\_005

Stage(ft)	Area(ac)
9.600	0.0006
10.600	0.0706
11.600	0.0913
12.600	0.3426
13.600	2.4868
14.600	5.8488
15.600	10.0241
16.700	10.9562

---

Name: ND0280	Base Flow(cfs): 0.000	Init Stage(ft): 12.800
Group: D	Warn Stage(ft): 19.000	
Type: Stage/Area		

312916\_017

Stage(ft)	Area(ac)
12.800	0.0011



Long Branch BMP Model Results  
Input Data Report Summary

13.800	0.6979
14.800	2.0707
15.800	2.9941
16.800	3.4739
17.800	3.6111
19.000	3.6633

---

Name: ND0290	Base Flow(cfs): 0.000	Init Stage(ft): 7.300
Group: D	Warn Stage(ft): 18.700	
Type: Stage/Area		

322916\_080

Stage(ft)	Area(ac)
7.300	0.1230
8.300	0.1631
9.300	0.2212
10.300	0.2775
11.300	0.3395
12.300	0.4600
13.300	0.5165
14.300	0.7874
15.300	1.5329
16.300	2.8122
17.300	3.7052
18.700	5.1085

---

Name: NE0010	Base Flow(cfs): 0.000	Init Stage(ft): 10.800
Group: E	Warn Stage(ft): 18.000	
Type: Stage/Area		

292916\_003

Stage(ft)	Area(ac)
10.800	0.0006
11.800	0.2623
12.800	0.3168
13.800	0.3673
14.800	0.6032
15.800	4.6476
16.800	11.7837

Long Branch BMP Model Results  
Input Data Report Summary

18.000 12.6538

Name: NE0020 Base Flow(cfs): 0.000 Init Stage(ft): 10.200  
Group: E Warn Stage(ft): 17.400  
Type: Stage/Area

322916\_033

Stage(ft)	Area(ac)
-----------	----------

10.200	0.0023
11.200	0.1280
12.200	0.1630
13.200	0.1957
14.200	0.2439
15.200	0.7886
16.200	3.1910
17.400	4.1890

Name: NE0030 Base Flow(cfs): 0.000 Init Stage(ft): 9.600  
Group: E Warn Stage(ft): 17.100  
Type: Stage/Area

322916\_003

Stage(ft)	Area(ac)
-----------	----------

9.600	0.0006
10.600	0.0023
11.600	0.0270
12.600	0.5481
13.600	1.8027
14.600	6.3206
15.600	13.4223
16.600	16.2230
17.100	16.3625

Name: NE0040 Base Flow(cfs): 0.000 Init Stage(ft): 2.500  
Group: E Warn Stage(ft): 16.200  
Type: Stage/Area

322916\_108

Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)      Area(ac)

2.500	0.1000
5.700	0.1574
6.700	0.2247
7.700	0.3090
8.700	0.5860
9.700	1.3550
10.700	3.0877
11.700	6.6833
12.700	10.9642
13.700	13.2002
14.700	14.2447
15.700	14.8290
16.200	14.8491

Name: NE0041      Base Flow(cfs): 0.000      Init Stage(ft): 1.500  
Group: E      Warn Stage(ft): 0.000  
Type: Stage/Area

Stage(ft)      Area(ac)

1.500	0.2500
3.000	0.4200
9.000	0.6000

Name: NE0050      Base Flow(cfs): 0.000      Init Stage(ft): 6.400  
Group: E      Warn Stage(ft): 15.600  
Type: Stage/Area

322916\_036

Stage(ft)      Area(ac)

6.400	0.1000
8.800	0.2115
9.800	0.3947
10.800	0.4653
11.800	0.8993
12.800	3.0160

Long Branch BMP Model Results  
Input Data Report Summary

13.800	4.3136
14.800	4.4112
15.600	4.4198

---

Name: NE0060      Base Flow(cfs): 0.000      Init Stage(ft): 0.700  
Group: E      Warn Stage(ft): 11.400  
Type: Stage/Area

292916\_006

Stage(ft)	Area(ac)
-----------	----------

---

-0.200	0.0011
0.800	0.1831
1.800	0.4936
2.800	0.7036
3.800	0.8310
4.800	0.9257
5.800	1.0107
6.800	1.1329
7.800	1.4859
8.800	3.6059
9.800	6.5123
10.800	6.6070
11.403	6.6110

---

Name: NE0070      Base Flow(cfs): 0.000      Init Stage(ft): 0.700  
Group: E      Warn Stage(ft): 13.100  
Type: Stage/Area

282916\_015

Stage(ft)	Area(ac)
-----------	----------

---

0.700	0.0115
0.890	0.1458
1.890	0.4798
2.890	0.7713
3.890	1.1289
4.890	1.8721
5.890	3.5549
6.890	7.5999
7.890	15.4500



Long Branch BMP Model Results  
Input Data Report Summary

8.897	24.3526
9.890	33.2277
10.900	41.1031
11.900	48.5508
13.103	49.9604

---

Name: NE0080	Base Flow(cfs): 0.000	Init Stage(ft): 4.600
Group: E	Warn Stage(ft): 13.200	
Type: Stage/Area		

292916\_005

Stage(ft)	Area(ac)
-----------	----------

---

4.600	0.0775
5.600	0.1366
6.600	0.2095
7.600	0.3197
8.600	1.4314
9.600	3.6926
10.600	6.7137
11.600	9.1632
12.600	9.6562
13.200	9.6884

---

Name: NE0090	Base Flow(cfs): 0.000	Init Stage(ft): 1.500
Group: E	Warn Stage(ft): 10.200	
Type: Stage/Area		

282916\_004

Stage(ft)	Area(ac)
-----------	----------

---

1.500	0.0574
2.500	0.0689
3.500	0.2267
4.500	1.1444
5.500	1.7028
6.500	3.2610
7.500	5.0172
8.500	7.3691
9.500	9.8818
10.200	10.3139

Long Branch BMP Model Results  
Input Data Report Summary

Name: NE0100      Base Flow(cfs): 0.000      Init Stage(ft): 1.650  
Group: E      Warn Stage(ft): 10.800  
Type: Stage/Area

282916\_006

Stage(ft)	Area(ac)
-----------	----------

1.650	0.0550
3.300	0.0591
4.300	0.0671
5.300	0.0901
6.300	0.1119
7.300	0.5441
8.300	1.6047
9.300	4.4140
10.300	7.2911
10.800	7.4386

Name: NE9070      Base Flow(cfs): 0.000      Init Stage(ft): 0.700  
Group: E      Warn Stage(ft): 0.700  
Type: Time/Stage

282916\_016

Time(hrs)	Stage(ft)
-----------	-----------

0.00	0.700
999.00	0.700

Name: NF0010      Base Flow(cfs): 0.000      Init Stage(ft): 8.300  
Group: F      Warn Stage(ft): 15.500  
Type: Stage/Area

322916\_032

Stage(ft)	Area(ac)
-----------	----------

8.300	0.1923
9.300	0.2319
10.300	0.2703

Long Branch BMP Model Results  
Input Data Report Summary

11.300	0.4258
12.300	2.9959
13.300	5.1228
14.300	5.9114
15.500	6.1542

---

Name: NF0011	Base Flow(cfs): 0.000	Init Stage(ft): 8.880
Group: F	Warn Stage(ft): 14.700	
Type: Stage/Area		

322916\_087

Stage(ft)	Area(ac)
8.880	0.1000
12.000	0.1000

---

Name: NF0012	Base Flow(cfs): 0.000	Init Stage(ft): 8.380
Group: F	Warn Stage(ft): 16.500	
Type: Stage/Area		

322916\_034

Stage(ft)	Area(ac)
8.380	0.1000
16.000	0.1000

---

Name: NF0020	Base Flow(cfs): 0.000	Init Stage(ft): 4.400
Group: F	Warn Stage(ft): 11.300	
Type: Stage/Area		

292916\_001

Stage(ft)	Area(ac)
4.400	0.3828
5.400	0.4149
6.400	0.4540
7.400	0.5102
8.400	0.6612
9.400	1.1610

Long Branch BMP Model Results  
Input Data Report Summary

10.400      2.8461  
11.300      3.1732

-----  
Name: NF0030      Base Flow(cfs): 0.000      Init Stage(ft): 0.200  
Group: F      Warn Stage(ft): 14.700  
Type: Stage/Area

292916\_009

Stage(ft)      Area(ac)

-----  
0.200      0.0011  
1.200      0.0654  
2.200      0.0987  
3.200      0.1222  
4.200      0.1486  
5.200      0.1768  
6.200      0.1997  
7.200      0.2531  
8.200      0.3421  
9.200      0.5774  
10.200      1.3654  
11.200      2.5981  
12.200      3.3178  
13.200      3.5342  
14.200      3.5457  
14.700      3.5497

-----  
Name: NF0040      Base Flow(cfs): 0.000      Init Stage(ft): 3.300  
Group: F      Warn Stage(ft): 14.700  
Type: Stage/Area

282916\_008

Stage(ft)      Area(ac)

-----  
3.300      0.7226  
4.300      0.9074  
5.300      9.6585  
6.300      12.5350  
7.300      16.3223  
8.300      21.6477  
9.300      27.7973



Long Branch BMP Model Results  
Input Data Report Summary

10.300	33.6433
11.300	37.2544
12.300	38.8832
13.300	39.3865
14.700	39.4605

---

Name: NF0042	Base Flow(cfs): 0.000	Init Stage(ft): 0.700
Group: F	Warn Stage(ft): 12.600	
Type: Stage/Area		

282916\_012

Stage(ft)	Area(ac)
-----------	----------

---

0.350	0.1000
4.390	0.1000
8.000	0.1000

---

Name: NF0050	Base Flow(cfs): 0.000	Init Stage(ft): 1.100
Group: F	Warn Stage(ft): 10.300	
Type: Stage/Area		

282916\_005

Stage(ft)	Area(ac)
-----------	----------

---

1.100	0.0574
2.100	0.0617
3.100	0.0735
4.100	0.0953
5.100	0.1234
6.100	0.1515
7.100	0.1946
8.100	0.9131
9.100	5.0832
10.300	8.3270

---

Name: NF0060	Base Flow(cfs): 0.000	Init Stage(ft): 0.700
Group: F	Warn Stage(ft): 12.600	
Type: Stage/Area		

282916\_013

Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)      Area(ac)

-0.600	0.0574
0.399	0.0648
1.390	0.0787
2.390	0.0821
3.390	0.4058
4.390	0.8293
5.390	1.7929
6.390	3.4762
7.390	5.2743
8.390	7.6722
9.390	12.6303
10.390	18.4906
11.390	20.0901
12.600	20.3208

Name: NF0061      Base Flow(cfs): 0.000      Init Stage(ft): 1.700  
Group: F      Warn Stage(ft): 9.000  
Type: Stage/Area

Stage(ft)      Area(ac)

1.700	0.1000
9.000	0.2000

Name: NF0062      Base Flow(cfs): 0.000      Init Stage(ft): 0.800  
Group: F      Warn Stage(ft): 10.000  
Type: Stage/Area

Stage(ft)      Area(ac)

0.800	0.1000
10.000	0.1000

Name: NF9060      Base Flow(cfs): 0.000      Init Stage(ft): 0.700  
Group: F      Warn Stage(ft): 0.700

Long Branch BMP Model Results  
Input Data Report Summary

Type: Time/Stage

282916\_017

Time(hrs)	Stage(ft)
-----------	-----------

0.00	0.700
999.00	0.700

Name: NG0010      Base Flow(cfs): 0.000      Init Stage(ft): 13.900  
Group: G      Warn Stage(ft): 18.300  
Type: Stage/Area

292916\_013

Stage(ft)	Area(ac)
-----------	----------

13.900	0.1722
14.900	0.5464
15.900	1.6345
16.900	3.9675
18.300	4.7767

Name: NG0020      Base Flow(cfs): 0.000      Init Stage(ft): 12.700  
Group: G      Warn Stage(ft): 18.600  
Type: Stage/Area

292916\_012

Stage(ft)	Area(ac)
-----------	----------

12.700	0.0057
13.700	1.4451
14.700	1.6001
15.700	2.3582
16.700	8.1101
17.700	12.6441
18.600	12.8059

Name: NG0030      Base Flow(cfs): 0.000      Init Stage(ft): 10.800  
Group: G      Warn Stage(ft): 19.000  
Type: Stage/Area

Long Branch BMP Model Results  
Input Data Report Summary

322916\_055

Stage(ft)	Area(ac)
10.800	0.0011
11.800	0.0247
12.800	0.0758
13.800	0.1773
14.800	0.4322
15.800	3.7816
16.800	9.2321
17.800	12.1775
19.000	13.1009

Name: NG0040      Base Flow(cfs): 0.000      Init Stage(ft): 10.800  
Group: G      Warn Stage(ft): 19.100  
Type: Stage/Area

322916\_090

Stage(ft)	Area(ac)
10.800	0.0115
11.800	0.0350
12.800	0.1406
13.800	0.2749
14.800	0.4809
15.800	1.1128
16.800	4.2665
17.800	13.5302
19.100	15.8506

Name: NG0050      Base Flow(cfs): 0.000      Init Stage(ft): 10.300  
Group: G      Warn Stage(ft): 18.500  
Type: Stage/Area

322916\_101

Stage(ft)	Area(ac)
10.300	0.0017
11.300	0.0505



Long Branch BMP Model Results  
Input Data Report Summary

12.300	0.1050
13.300	0.1366
14.300	0.2565
15.300	0.4982
16.300	1.9215
17.300	5.6577
18.500	6.4153

---

Name: NG0060	Base Flow(cfs): 0.000	Init Stage(ft): 10.300
Group: G	Warn Stage(ft): 18.700	
Type: Stage/Area		

322916\_041

Stage(ft)	Area(ac)
-----------	----------

---

10.300	0.1148
11.300	0.2020
12.300	0.2829
13.300	0.3949
14.300	0.5860
15.300	1.2029
16.300	3.6381
17.300	10.1745
18.700	13.2438

---

Name: NG0070	Base Flow(cfs): 0.000	Init Stage(ft): 11.100
Group: G	Warn Stage(ft): 19.100	
Type: Stage/Area		

322916\_098

Stage(ft)	Area(ac)
-----------	----------

---

11.100	0.0023
12.100	0.1159
13.100	0.1475
14.100	0.2198
15.100	1.4905
16.100	3.7592
17.100	5.0803
18.100	5.5877
19.100	6.0078

Long Branch BMP Model Results  
Input Data Report Summary

Name: NG0080      Base Flow(cfs): 0.000      Init Stage(ft): 0.650  
Group: G      Warn Stage(ft): 18.100  
Type: Stage/Area

322916\_035

Stage(ft)	Area(ac)
0.650	2.2000
9.100	6.1200
14.100	7.9800
16.100	9.9900
17.100	10.2500
18.100	11.1900

Name: NG0090      Base Flow(cfs): 0.000      Init Stage(ft): 4.000  
Group: G      Warn Stage(ft): 16.700  
Type: Stage/Area

322916\_121

Stage(ft)	Area(ac)
4.000	0.0500
7.200	0.0800
8.200	0.1000
9.200	0.2000
10.200	0.3000
11.200	0.4000
12.200	0.5000
13.200	0.7375
14.200	1.0600
15.201	2.5981
16.200	4.4599
16.700	4.6132

Name: NG0100      Base Flow(cfs): 0.000      Init Stage(ft): 5.000  
Group: G      Warn Stage(ft): 16.600  
Type: Stage/Area

322916\_150

Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

5.000	0.0100
8.500	0.0500
9.700	0.1000
10.700	0.2000
11.700	0.3000
12.700	0.4000
13.700	0.5000
14.700	0.6000
15.700	0.7725
16.600	0.8930

Name: NG0110      Base Flow(cfs): 0.000      Init Stage(ft): 0.790  
Group: G      Warn Stage(ft): 17.600  
Type: Stage/Area

322916\_082

Stage(ft)	Area(ac)
-----------	----------

0.790	0.0006
12.800	0.0057
13.800	0.0947
14.800	1.7464
15.800	6.6334
16.800	10.6158
17.600	11.8750

Name: NG0120      Base Flow(cfs): 0.000      Init Stage(ft): 5.800  
Group: G      Warn Stage(ft): 15.800  
Type: Stage/Area

322916\_069

Stage(ft)	Area(ac)
-----------	----------

5.800	0.2353
6.800	0.2680
7.800	0.3294
8.800	0.4058
9.800	0.4700

Long Branch BMP Model Results  
Input Data Report Summary

10.800	0.5332
11.800	0.5860
12.800	0.7231
13.800	2.0110
14.800	3.2564
15.800	3.4217

---

Name: NG0121	Base Flow(cfs): 0.000	Init Stage(ft): 5.000
Group: G	Warn Stage(ft): 15.800	
Type: Stage/Area		

322916\_137

Stage(ft)	Area(ac)
5.000	0.1000
12.520	0.1000
20.000	0.1000

---

Name: NG0130	Base Flow(cfs): 0.000	Init Stage(ft): 6.200
Group: G	Warn Stage(ft): 39.300	
Type: Stage/Area		

322916\_038

Stage(ft)	Area(ac)
6.200	0.1402
7.200	0.2870
8.200	0.3202
9.200	0.3593
10.200	0.4161
11.200	0.4964
12.200	0.5711
13.200	0.6485
14.200	0.9648
15.200	2.9878
16.200	5.3874
17.202	8.0177
18.202	9.8537
19.202	10.5349
20.202	10.9820
21.202	11.1748



Long Branch BMP Model Results  
Input Data Report Summary

22.202	11.2810
23.202	11.3768
24.202	11.4756
25.202	11.5783
26.202	11.6678
27.202	11.7522
28.202	11.8423
29.202	11.9358
30.202	12.0380
31.202	12.1407
32.202	12.2544
33.202	12.3714
34.202	12.5011
35.202	12.6595
36.202	12.8363
37.202	13.0424
38.202	13.2788
39.310	13.4114

---

Name: NG0140	Base Flow(cfs): 0.000	Init Stage(ft): 5.800
Group: G	Warn Stage(ft): 17.100	
Type: Stage/Area		

322916\_097

Stage(ft)	Area(ac)
5.800	0.0057
6.800	0.0080
7.800	0.1079
8.800	0.1268
9.800	0.1458
10.800	0.1682
11.800	0.1917
12.800	0.2152
13.800	0.4919
14.800	1.4572
15.800	3.3075
17.100	4.1253

---

Name: NG0150	Base Flow(cfs): 0.000	Init Stage(ft): 5.000
Group: G	Warn Stage(ft): 16.600	
Type: Stage/Area		

Long Branch BMP Model Results  
Input Data Report Summary

322916\_122

Stage(ft)	Area(ac)
5.000	0.0006
7.600	0.0006
8.600	0.0017
9.600	0.0235
10.600	0.0517
11.600	0.0993
12.600	1.1599
13.600	5.2870
14.600	10.3346
15.600	13.7816
16.600	14.1736

Name: NG0160      Base Flow(cfs): 0.000      Init Stage(ft): 9.200  
Group: G      Warn Stage(ft): 18.400  
Type: Stage/Area

322916\_126

Stage(ft)	Area(ac)
9.200	0.0006
10.200	0.8264
11.200	3.2295
12.200	6.9175
13.200	10.1509
14.200	12.6722
15.200	15.7490
16.200	18.6834
17.200	22.4908
18.400	23.5032

Name: NG0170      Base Flow(cfs): 0.000      Init Stage(ft): 1.750  
Group: G      Warn Stage(ft): 18.000  
Type: Stage/Area

322916\_109

Stage(ft)	Area(ac)
-----------	----------

Long Branch BMP Model Results  
Input Data Report Summary

-----  
1.750 0.3115  
2.300 0.4138  
3.300 0.5482  
4.300 1.1240  
5.300 1.3883  
6.300 1.6093  
7.300 2.6567  
8.300 4.5518  
9.300 8.6599  
10.300 14.3750  
11.300 20.1165  
12.300 25.1165  
13.300 30.6692  
14.300 38.3287  
15.300 42.6228  
16.300 45.9900  
17.300 47.7336  
18.005 47.9873

-----  
Name: NG0171      Base Flow(cfs): 0.000      Init Stage(ft): 1.000  
Group: G                      Warn Stage(ft): 12.600  
Type: Stage/Area

292916\_008

Stage(ft)	Area(ac)
1.000	0.2000
8.000	0.2000

-----  
Name: NG0172      Base Flow(cfs): 0.000      Init Stage(ft): 0.700  
Group: G                      Warn Stage(ft): 12.600  
Type: Stage/Area

292916\_023

Stage(ft)	Area(ac)
0.700	0.1000
5.000	0.1000
10.000	0.1000

Long Branch BMP Model Results  
Input Data Report Summary

Name: NH0010      Base Flow(cfs): 0.000      Init Stage(ft): 8.800  
Group: H                      Warn Stage(ft): 16.900  
Type: Stage/Area

322916\_062

Stage(ft)	Area(ac)
-----------	----------

8.800	0.1722
9.800	0.5165
10.800	0.6509
11.800	0.7574
12.800	0.8230
13.800	1.8440
14.800	4.2264
15.800	7.2044
16.900	9.0823

Name: NH0011      Base Flow(cfs): 0.000      Init Stage(ft): 7.460  
Group: H                      Warn Stage(ft): 15.700  
Type: Stage/Area

322916\_144

Stage(ft)	Area(ac)
-----------	----------

7.460	0.1000
12.000	0.1000

Name: NH0020      Base Flow(cfs): 0.000      Init Stage(ft): 9.200  
Group: H                      Warn Stage(ft): 16.700  
Type: Stage/Area

322916\_060

Stage(ft)	Area(ac)
-----------	----------

9.200	0.0006
10.200	0.1188
11.200	1.0709
12.200	3.3838
13.200	7.6997



Long Branch BMP Model Results  
Input Data Report Summary

14.200	13.8826
15.200	17.3387
16.200	18.6209
16.700	18.7362

Name: NH0030      Base Flow(cfs): 0.000      Init Stage(ft): 7.700  
Group: H      Warn Stage(ft): 15.800  
Type: Stage/Area

322916\_059

Stage(ft)	Area(ac)
-----------	----------

7.700	0.2032
8.700	0.2198
9.700	0.2560
10.700	0.2824
11.700	0.3019
12.700	0.3730
13.700	2.0173
14.700	3.3092
15.800	3.6737

Name: NH0040      Base Flow(cfs): 0.000      Init Stage(ft): 6.660  
Group: H      Warn Stage(ft): 15.800  
Type: Stage/Area

322916\_057

Stage(ft)	Area(ac)
-----------	----------

6.660	0.0006
7.660	0.3093
8.660	0.3639
9.660	0.4614
10.600	0.6181
11.600	0.8270
12.600	2.0380
13.600	5.9521
14.600	7.4162
15.800	7.7210

Long Branch BMP Model Results  
Input Data Report Summary

Name: NH0050      Base Flow(cfs): 0.000      Init Stage(ft): 4.400  
Group: H              Warn Stage(ft): 16.500  
Type: Stage/Area

322916\_111

Stage(ft)	Area(ac)
-----------	----------

4.400	0.0006
5.400	0.0270
6.400	0.5200
7.400	0.6451
8.400	1.6626
9.400	4.2585
10.400	9.3216
11.400	18.2042
12.400	27.4529
13.400	38.1807
14.400	44.8445
15.400	45.9332
16.500	46.0635

Name: NH0051      Base Flow(cfs): 0.000      Init Stage(ft): 1.750  
Group: H              Warn Stage(ft): 9.000  
Type: Stage/Area

Stage(ft)	Area(ac)
-----------	----------

1.750	0.1000
9.000	0.1000

Name: NH0060      Base Flow(cfs): 0.000      Init Stage(ft): 3.200  
Group: H              Warn Stage(ft): 15.900  
Type: Stage/Area

322916\_066

Stage(ft)	Area(ac)
-----------	----------

3.200	0.0029
5.000	0.0039

Long Branch BMP Model Results  
Input Data Report Summary

6.000	0.0049
7.000	0.0050
8.000	0.0092
9.000	0.0258
10.000	0.0769
11.000	0.4804
12.000	1.1628
13.000	2.0047
14.000	3.2983
15.000	3.9537
15.900	4.1598

---

Name: NH0070	Base Flow(cfs): 0.000	Init Stage(ft): 2.860
Group: H	Warn Stage(ft): 19.400	
Type: Stage/Area		

322916\_128

Stage(ft)	Area(ac)
-----------	----------

---

2.860	0.0057
5.800	0.0067
6.800	0.0083
7.800	0.1297
8.800	0.6066
9.800	1.9083
10.800	5.0115
11.800	8.8487
12.800	14.0536
13.800	18.5956
14.800	19.8445
15.800	19.9725
16.800	20.0092
17.800	20.0390
18.800	20.0666
19.400	20.0735

---

Name: NH0071	Base Flow(cfs): 0.000	Init Stage(ft): 2.660
Group: H	Warn Stage(ft): 15.700	
Type: Stage/Area		

322916\_179

Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

2.660	0.1000
-------	--------

8.000	0.1000
-------	--------

Name: NH0080	Base Flow(cfs): 0.000	Init Stage(ft): 6.800
Group: H	Warn Stage(ft): 12.400	
Type: Stage/Area		

322916\_110

Stage(ft)	Area(ac)
-----------	----------

6.800	0.0006
-------	--------

7.800	0.1825
-------	--------

8.800	0.2296
-------	--------

9.800	0.3553
-------	--------

10.800	1.7522
--------	--------

11.800	3.0538
--------	--------

12.400	3.0929
--------	--------

Name: NH0090	Base Flow(cfs): 0.000	Init Stage(ft): 2.450
Group: H	Warn Stage(ft): 15.700	
Type: Stage/Area		

322916\_091

Stage(ft)	Area(ac)
-----------	----------

2.450	0.0030
-------	--------

3.500	0.0050
-------	--------

4.500	0.0080
-------	--------

5.500	0.0172
-------	--------

6.500	0.0476
-------	--------

7.500	0.1165
-------	--------

8.500	0.5871
-------	--------

9.500	1.8331
-------	--------

10.500	4.8112
--------	--------

11.500	8.0240
--------	--------

12.500	10.9303
--------	---------

13.500	14.2878
--------	---------

14.500	17.8926
--------	---------

15.700	18.3247
--------	---------



Long Branch BMP Model Results  
Input Data Report Summary

Name: NH0091      Base Flow(cfs): 0.000      Init Stage(ft): 1.930  
Group: H              Warn Stage(ft): 18.000  
Type: Stage/Area

322916\_178

Stage(ft)	Area(ac)
1.930	0.1000
8.000	0.1000

Name: NH0165      Base Flow(cfs): 0.000      Init Stage(ft): 1.750  
Group: H              Warn Stage(ft): 9.000  
Type: Stage/Area

Stage(ft)	Area(ac)
1.750	0.1000
9.000	0.1000

Name: NJ0010      Base Flow(cfs): 0.000      Init Stage(ft): 13.800  
Group: J              Warn Stage(ft): 17.900  
Type: Stage/Area

322916\_024

Stage(ft)	Area(ac)
13.800	0.0011
14.800	1.1059
15.800	2.4105
16.800	2.8225
17.900	2.8277

Name: NJ0020      Base Flow(cfs): 0.000      Init Stage(ft): 6.800  
Group: J              Warn Stage(ft): 17.400  
Type: Stage/Area

Long Branch BMP Model Results  
Input Data Report Summary

322916\_023

Stage(ft)	Area(ac)
-----------	----------

6.800	0.4959
7.800	0.5906
8.800	0.6416
9.800	0.6962
10.800	0.7593
11.800	0.8385
12.800	0.9148
13.800	1.2385
14.800	7.9029
15.800	13.8281
16.800	14.5162
17.400	14.5196

Name: NJ0030      Base Flow(cfs): 0.000      Init Stage(ft): 4.890  
Group: J      Warn Stage(ft): 17.800  
Type: Stage/Area

322916\_037

Stage(ft)	Area(ac)
-----------	----------

4.890	1.6700
6.600	1.9800
7.600	2.5600
8.600	3.6909
9.600	3.7994
10.600	3.9308
11.600	4.3291
12.600	4.7050
13.600	5.3650
14.600	6.1800
15.600	9.0306
16.600	10.9854
17.800	11.2001

Name: NJ0040      Base Flow(cfs): 0.000      Init Stage(ft): 8.770  
Group: J      Warn Stage(ft): 16.600  
Type: Stage/Area

Long Branch BMP Model Results  
Input Data Report Summary

322916\_048

Stage(ft)	Area(ac)
-----------	----------

8.770	0.1000
12.100	0.2000
13.100	0.3428
14.100	0.4583
15.100	1.9909
16.100	2.8845
16.600	3.3798

Name: NJ0050      Base Flow(cfs): 0.000      Init Stage(ft): 8.500  
Group: J      Warn Stage(ft): 16.200  
Type: Stage/Area

322916\_095

Stage(ft)	Area(ac)
-----------	----------

8.500	0.1000
9.500	0.1740
10.500	0.2115
11.500	0.2515
12.500	0.4830
13.500	0.6965
14.500	0.9539
15.500	2.7261
16.200	2.9172

Name: NJ0060      Base Flow(cfs): 0.000      Init Stage(ft): 7.370  
Group: J      Warn Stage(ft): 16.800  
Type: Stage/Area

322916\_129

Stage(ft)	Area(ac)
-----------	----------

7.370	0.1557
13.400	0.2115
14.400	0.3059
15.400	1.2873
16.800	1.7332

Long Branch BMP Model Results  
Input Data Report Summary

Name: NJ0070      Base Flow(cfs): 0.000      Init Stage(ft): 7.000  
Group: J      Warn Stage(ft): 16.500  
Type: Stage/Area

322916\_020

Stage(ft)	Area(ac)
-----------	----------

7.000	0.0023
8.700	0.0029
9.700	0.0052
10.700	0.0264
11.700	0.0735
12.700	0.1532
13.700	0.2141
14.700	0.3300
15.700	1.6202
16.500	2.0380

Name: NJ0080      Base Flow(cfs): 0.000      Init Stage(ft): 7.320  
Group: J      Warn Stage(ft): 38.500  
Type: Stage/Area

322916\_156

Stage(ft)	Area(ac)
-----------	----------

7.320	0.0006
8.900	0.0009
9.900	0.0046
10.900	0.0241
11.900	0.1194
12.900	0.2376
13.900	0.4614
14.900	1.5289
15.900	3.0263
16.900	3.6932
17.900	4.0117
18.900	4.1380
19.900	4.2304
20.900	4.3090
21.900	4.3836



Long Branch BMP Model Results  
Input Data Report Summary

22.900	4.4513
23.900	4.5110
24.900	4.5736
25.900	4.6310
26.900	4.6838
27.900	4.7423
28.900	4.8003
29.900	4.8559
30.900	4.9208
31.900	4.9828
32.900	5.0534
33.900	5.1228
34.900	5.1992
35.900	5.2795
36.900	5.3828
37.900	5.4850
38.500	5.5435

Name: NJ0090      Base Flow(cfs): 0.000      Init Stage(ft): 11.630  
Group: J      Warn Stage(ft): 39.200  
Type: Stage/Area

322916\_149

Stage(ft)	Area(ac)
-----------	----------

11.630	0.1647
12.300	0.4865
13.300	0.8235
14.300	1.2339
15.300	16.4842
16.300	28.5681
17.300	28.8269
18.300	28.8539
19.300	28.8774
20.300	28.9015
21.300	28.9130
22.300	28.9256
23.300	28.9423
24.300	28.9549
25.300	28.9669
26.300	28.9807
27.300	28.9945
28.300	29.0174

Long Branch BMP Model Results  
Input Data Report Summary

29.300	29.0404
30.300	29.0536
31.300	29.0657
32.300	29.0737
33.300	29.0863
34.300	29.0961
35.300	29.1064
36.300	29.1127
37.300	29.1208
38.300	29.1248
39.210	29.1265

Name: NJ0100      Base Flow(cfs): 0.000      Init Stage(ft): 6.760  
Group: J      Warn Stage(ft): 18.300  
Type: Stage/Area

322916\_088

Stage(ft)	Area(ac)
-----------	----------

6.760	0.0057
6.800	0.0097
7.800	0.0132
8.800	0.0212
9.800	0.0494
10.800	0.2204
11.800	0.5326
12.800	0.9016
13.800	1.2953
14.800	1.7671
15.800	3.0263
16.800	3.6593
17.800	4.2573
18.300	4.3968

Name: NJ0101      Base Flow(cfs): 0.000      Init Stage(ft): 6.670  
Group: J      Warn Stage(ft): 18.300  
Type: Stage/Area

322916\_184

Stage(ft)	Area(ac)
-----------	----------

Long Branch BMP Model Results  
Input Data Report Summary

6.670 0.1000  
10.000 0.1000

---

Name: NJ0110 Base Flow(cfs): 0.000 Init Stage(ft): 6.800  
Group: J Warn Stage(ft): 17.200  
Type: Stage/Area

322916\_011

Stage(ft)	Area(ac)
-----------	----------

---

6.800	0.0069
7.800	0.0373
8.800	0.0626
9.800	0.0913
10.800	0.1538
11.800	0.3685
12.800	0.6491
13.800	0.9430
14.800	2.7428
15.800	14.3211
17.200	20.1785

---

Name: NJ0120 Base Flow(cfs): 0.000 Init Stage(ft): 6.000  
Group: J Warn Stage(ft): 22.500  
Type: Stage/Area

322916\_012

Stage(ft)	Area(ac)
-----------	----------

---

6.000	1.2000
10.000	2.3000
11.300	3.1000
12.300	3.4000
18.300	4.1200
19.300	5.3200
20.300	6.0700
21.300	6.5500
22.500	6.6900

---

Name: NJ0121 Base Flow(cfs): 0.000 Init Stage(ft): 6.180

Long Branch BMP Model Results  
Input Data Report Summary

Group: J Warn Stage(ft): 9.000  
Type: Stage/Area

Stage(ft)	Area(ac)
6.180	0.1000
12.000	0.1000

Name: NJ0130 Base Flow(cfs): 0.000 Init Stage(ft): 3.100  
Group: J Warn Stage(ft): 23.100  
Type: Stage/Area

322916\_079

Stage(ft)	Area(ac)
3.100	0.1000
6.600	0.2000
7.600	0.3788
8.600	0.4281
9.600	0.9826
10.600	1.5588
11.600	2.2113
12.600	2.9930
13.600	4.2028
14.600	8.1703
15.600	12.1350
16.600	14.4657
17.600	15.8970
18.600	16.3166
19.600	16.6776
20.600	16.9766
21.600	17.2303
22.600	17.2561
23.100	17.2590

Name: NJ0140 Base Flow(cfs): 0.000 Init Stage(ft): 6.180  
Group: J Warn Stage(ft): 18.000  
Type: Stage/Area

322916\_017



Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

6.180	0.0253
8.600	0.0253
9.600	0.0362
10.600	0.2244
11.600	0.8844
12.600	1.8101
13.600	2.6969
14.600	3.2656
15.600	4.1357
16.600	4.6057
18.000	4.8175

Name: NJ0141      Base Flow(cfs): 0.000      Init Stage(ft): 5.200  
Group: J      Warn Stage(ft): 22.560  
Type: Stage/Area

322916\_016

Stage(ft)	Area(ac)
-----------	----------

5.200	0.1000
10.000	0.1000

Name: NJ0150      Base Flow(cfs): 0.000      Init Stage(ft): 11.900  
Group: J      Warn Stage(ft): 18.700  
Type: Stage/Area

322916\_152

Stage(ft)	Area(ac)
-----------	----------

11.900	0.7995
12.900	0.8821
13.900	0.9137
14.900	0.9969
15.900	3.6433
16.900	8.2289
17.900	10.4769
18.700	10.7662

Long Branch BMP Model Results  
Input Data Report Summary

Name: NJ0160      Base Flow(cfs): 0.000      Init Stage(ft): 5.300  
Group: J      Warn Stage(ft): 18.500  
Type: Stage/Area

322916\_083

Stage(ft)	Area(ac)
-----------	----------

5.300	0.0574
6.300	0.0874
7.300	0.1974
8.300	0.2174
9.300	0.3257
10.300	0.4315
11.300	0.5459
12.300	0.6746
13.300	0.7208
14.300	1.7200
15.300	14.2637
16.300	35.9435
17.300	42.8908
18.500	44.0588

Name: NJ0170      Base Flow(cfs): 0.000      Init Stage(ft): 12.400  
Group: J      Warn Stage(ft): 17.700  
Type: Stage/Area

322916\_115

Stage(ft)	Area(ac)
-----------	----------

12.400	0.0052
13.400	0.1905
14.400	0.9504
15.400	8.7787
16.400	16.0859
17.700	16.8750

Name: NJ0190      Base Flow(cfs): 0.000      Init Stage(ft): 11.100  
Group: J      Warn Stage(ft): 18.000  
Type: Stage/Area

Long Branch BMP Model Results  
Input Data Report Summary

322916\_071

Stage(ft)	Area(ac)
-----------	----------

11.100	0.0057
12.100	0.0499
13.100	0.1567
14.103	0.3088
15.103	2.0104
16.103	5.0781
17.103	5.8609
18.005	5.9320

Name: NJ0200      Base Flow(cfs): 0.000      Init Stage(ft): 9.900  
Group: J      Warn Stage(ft): 16.700  
Type: Stage/Area

322916\_073

Stage(ft)	Area(ac)
-----------	----------

9.900	0.0023
10.900	0.1182
11.903	0.2256
12.903	0.5286
13.903	1.4658
14.903	4.1942
15.903	7.5396
16.704	7.8604

Name: NJ0210      Base Flow(cfs): 0.000      Init Stage(ft): 9.000  
Group: J      Warn Stage(ft): 18.100  
Type: Stage/Area

322916\_107

Stage(ft)	Area(ac)
-----------	----------

9.000	0.0023
10.000	0.0913
11.000	0.3002
12.000	0.7249
13.000	0.9407

Long Branch BMP Model Results  
Input Data Report Summary

14.000	3.1927
15.000	5.9097
16.000	8.9159
17.000	10.1251
18.100	10.7065

Name: NJ0220      Base Flow(cfs): 0.000      Init Stage(ft): 7.600  
Group: J      Warn Stage(ft): 17.000  
Type: Stage/Area

322916\_117

Stage(ft)	Area(ac)
-----------	----------

7.600	0.0172
8.600	0.0379
9.600	0.0907
10.600	0.1492
11.600	0.2215
12.600	0.2646
13.600	0.4540
14.600	3.2714
15.600	5.4695
17.000	6.5295

Name: NJ0230      Base Flow(cfs): 0.000      Init Stage(ft): 8.300  
Group: J      Warn Stage(ft): 17.700  
Type: Stage/Area

322916\_139

Stage(ft)	Area(ac)
-----------	----------

8.300	0.0046
9.302	0.0402
10.302	0.1957
11.302	0.3576
12.302	0.5228
13.302	0.9837
14.302	10.4901
15.302	21.0577
16.302	23.0550
17.704	23.1107



Long Branch BMP Model Results  
Input Data Report Summary

Name: NJ0240      Base Flow(cfs): 0.000      Init Stage(ft): 10.200  
Group: J      Warn Stage(ft): 16.300  
Type: Stage/Area

322916\_113

Stage(ft)	Area(ac)
10.200	0.0057
11.200	0.0149
12.200	0.1217
13.200	1.1473
14.200	15.9372
15.200	21.3642
16.300	21.5243

Name: NJ0250      Base Flow(cfs): 0.000      Init Stage(ft): 4.500  
Group: J      Warn Stage(ft): 22.500  
Type: Stage/Area

322916\_068

Stage(ft)	Area(ac)
4.500	0.0080
7.700	0.0090
8.700	0.0149
9.700	0.0298
10.700	0.2743
11.700	0.7237
12.700	1.3200
13.700	2.4971
14.700	3.4648
15.700	4.0467
16.700	4.2172
17.700	4.3199
18.700	4.3779
19.700	4.4456
20.700	4.4967
21.700	4.5219
22.510	4.5386

Long Branch BMP Model Results  
Input Data Report Summary

Name: NJ0260      Base Flow(cfs): 0.000      Init Stage(ft): 6.180  
Group: J      Warn Stage(ft): 16.500  
Type: Stage/Area

322916\_151

Stage(ft)	Area(ac)
-----------	----------

6.180	0.0006
7.300	0.0057
8.300	0.0087
9.300	0.0097
10.300	0.0124
11.300	0.0134
12.300	0.0155
13.300	0.1464
14.300	0.5722
15.300	3.2777
16.500	5.9280

Name: NJ0261      Base Flow(cfs): 0.000      Init Stage(ft): 3.500  
Group: J      Warn Stage(ft): 16.500  
Type: Stage/Area

322916\_118

Stage(ft)	Area(ac)
-----------	----------

3.500	0.1000
8.000	0.1000

Name: NK0010      Base Flow(cfs): 0.000      Init Stage(ft): 14.000  
Group: K      Warn Stage(ft): 18.300  
Type: Stage/Area

053016\_026

Stage(ft)	Area(ac)
-----------	----------

14.000	0.1722
15.000	1.4050
16.000	2.8880

Long Branch BMP Model Results  
Input Data Report Summary

17.000	6.5966
18.300	9.4318

---

Name: NK0020      Base Flow(cfs): 0.000      Init Stage(ft): 14.300  
Group: K              Warn Stage(ft): 17.900  
Type: Stage/Area

053016\_021

Stage(ft)	Area(ac)
-----------	----------

---

14.300	0.1544
15.300	0.2095
16.300	0.8454
17.300	2.7606
17.900	2.9982

---

Name: NK0030      Base Flow(cfs): 0.000      Init Stage(ft): 12.700  
Group: K              Warn Stage(ft): 19.200  
Type: Stage/Area

053016\_017

Stage(ft)	Area(ac)
-----------	----------

---

12.700	0.5940
13.700	0.6525
14.700	0.7444
15.700	0.9831
16.700	5.9384
17.700	17.4793
18.700	19.8818
19.200	19.9145

---

Name: NK0040      Base Flow(cfs): 0.000      Init Stage(ft): 8.800  
Group: K              Warn Stage(ft): 18.400  
Type: Stage/Area

053016\_023

Stage(ft)	Area(ac)
-----------	----------

Long Branch BMP Model Results  
Input Data Report Summary

8.800	0.1574
9.800	0.2631
10.800	0.3115
11.800	0.4379
12.800	0.5911
13.800	0.7748
14.800	1.0686
15.800	3.4521
16.800	10.4465
17.800	13.9118
18.400	13.9933

Name: NK0050      Base Flow(cfs): 0.000      Init Stage(ft): 13.700  
Group: K      Warn Stage(ft): 18.000  
Type: Stage/Area

053016\_001

Stage(ft)	Area(ac)
13.700	0.1574
14.700	0.4649
15.700	1.8704
16.700	8.9704
18.000	10.9550

Name: NK0060      Base Flow(cfs): 0.000      Init Stage(ft): 13.200  
Group: K      Warn Stage(ft): 18.300  
Type: Stage/Area

053016\_019

Stage(ft)	Area(ac)
13.200	0.1402
14.200	0.2967
15.200	0.6382
16.200	1.0939
17.200	5.8678
18.300	8.4630

Name: NK0070      Base Flow(cfs): 0.000      Init Stage(ft): 10.800



Long Branch BMP Model Results  
Input Data Report Summary

Group: K Warn Stage(ft): 18.700  
Type: Stage/Area

053016\_005

Stage(ft)	Area(ac)
-----------	----------

10.800	0.0006
11.800	0.0109
12.800	0.0448
13.800	0.1687
14.800	0.6084
15.800	7.8168
16.800	20.1251
17.800	21.7694
18.700	21.8325

Name: NK0080 Base Flow(cfs): 0.000 Init Stage(ft): 11.500  
Group: K Warn Stage(ft): 18.200  
Type: Stage/Area

053016\_018

Stage(ft)	Area(ac)
-----------	----------

11.500	0.0017
12.500	0.1596
13.500	0.1963
14.500	0.3289
15.500	1.3918
16.500	3.4877
17.500	4.2378
18.200	4.4743

Name: NK0090 Base Flow(cfs): 0.000 Init Stage(ft): 9.500  
Group: K Warn Stage(ft): 39.100  
Type: Stage/Area

053016\_065

Stage(ft)	Area(ac)
-----------	----------

9.500	0.0011
-------	--------

Long Branch BMP Model Results  
Input Data Report Summary

10.500	0.0063
11.500	0.0562
12.500	0.0924
13.500	0.1303
14.500	0.3065
15.500	1.1375
16.500	3.5577
17.500	5.2370
18.500	5.9917
19.500	6.1473
20.502	6.2718
21.502	6.3774
22.502	6.4761
23.502	6.5622
24.502	6.6426
25.502	6.7246
26.502	6.7947
27.502	6.8652
28.502	6.9347
29.502	7.0024
30.502	7.0678
31.502	7.1327
32.502	7.1970
33.502	7.2653
34.502	7.3399
35.502	7.4122
36.502	7.4908
37.502	7.5620
38.502	7.6148
39.110	7.6280

---

Name: NK0091	Base Flow(cfs): 0.000	Init Stage(ft): 9.500
Group: K	Warn Stage(ft): 39.100	
Type: Stage/Area		

053016\_066

Stage(ft)	Area(ac)
9.500	0.1000
15.000	0.1000

---

Name: NK0100	Base Flow(cfs): 0.000	Init Stage(ft): 12.700
--------------	-----------------------	------------------------

Long Branch BMP Model Results  
Input Data Report Summary

Group: K Warn Stage(ft): 17.100  
Type: Stage/Area

053016\_032

Stage(ft)	Area(ac)
-----------	----------

12.700	0.0006
13.700	0.0195
14.700	0.4092
15.700	1.2167
17.100	1.7401

Name: NK0110 Base Flow(cfs): 0.000 Init Stage(ft): 11.700  
Group: K Warn Stage(ft): 17.700  
Type: Stage/Area

053016\_009

Stage(ft)	Area(ac)
-----------	----------

11.700	0.0838
12.800	0.0918
13.800	0.1205
14.800	1.2282
15.800	2.4937
16.800	3.2874
17.700	3.3247

Name: NK0120 Base Flow(cfs): 0.000 Init Stage(ft): 11.800  
Group: K Warn Stage(ft): 17.200  
Type: Stage/Area

053016\_042

Stage(ft)	Area(ac)
-----------	----------

11.800	1.0336
12.800	1.0939
13.800	1.2196
14.800	2.1614
15.800	4.4364
17.200	6.6598

Long Branch BMP Model Results  
Input Data Report Summary

Name: NK0130      Base Flow(cfs): 0.000      Init Stage(ft): 10.000  
Group: K      Warn Stage(ft): 17.500  
Type: Stage/Area

053016\_033

Stage(ft)	Area(ac)
-----------	----------

10.000	0.0006
11.000	0.0321
12.000	0.1504
13.000	0.2640
14.000	0.5435
15.000	1.6678
16.000	2.3244
17.000	2.4053
17.500	2.4478

Name: NK0140      Base Flow(cfs): 0.000      Init Stage(ft): 10.600  
Group: K      Warn Stage(ft): 17.300  
Type: Stage/Area

053016\_037

Stage(ft)	Area(ac)
-----------	----------

10.600	0.2192
11.600	0.2353
12.600	0.2640
13.600	0.2961
14.600	0.8970
15.600	3.7253
16.600	7.5040
17.300	7.6860

Name: NK0150      Base Flow(cfs): 0.000      Init Stage(ft): 9.100  
Group: K      Warn Stage(ft): 17.000  
Type: Stage/Area

053016\_012



Long Branch BMP Model Results  
Input Data Report Summary

Stage(ft)	Area(ac)
-----------	----------

9.100	0.2032
10.100	0.2198
11.100	0.2520
12.100	0.2761
13.100	0.3151
14.100	1.1788
15.100	5.6732
16.100	11.2282
17.000	11.9972

Name: NK0160      Base Flow(cfs): 0.000      Init Stage(ft): 8.600  
Group: K      Warn Stage(ft): 18.300  
Type: Stage/Area

053016\_043

Stage(ft)	Area(ac)
-----------	----------

8.600	0.0063
9.600	0.0161
10.600	0.0275
11.600	0.0407
12.600	0.0545
13.600	0.0677
14.600	0.4953
15.600	1.8394
16.600	2.6521
17.600	3.4774
18.300	3.8057

Name: NK0161      Base Flow(cfs): 0.000      Init Stage(ft): 8.450  
Group: K      Warn Stage(ft): 18.000  
Type: Stage/Area

322916\_155

Stage(ft)	Area(ac)
-----------	----------

8.450	0.1000
10.000	0.1000

Long Branch BMP Model Results  
Input Data Report Summary

==== Cross Sections =====

Name: RC0160A                      Group: BASE  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----  
0.000        11.520      0.050000  
204.000      8.670      0.050000

-----  
Name: XA0010A                      Group: A  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----  
0.000        17.357      0.030000  
4.944        17.439      0.030000  
9.888        17.516      0.030000  
14.832       17.862      0.030000  
19.776       18.146      0.030000  
24.721       18.425      0.030000  
29.665       18.728      0.030000  
34.609       18.886      0.030000  
39.553       19.008      0.030000  
44.497       18.851      0.030000  
49.441       18.801      0.030000  
54.385       18.907      0.030000  
59.329       18.959      0.030000  
64.273       19.136      0.030000  
69.217       19.083      0.030000  
74.162       18.990      0.030000  
79.106       18.925      0.030000  
84.050       18.789      0.030000  
88.994       18.798      0.030000  
93.938       18.878      0.030000  
98.882       19.025      0.030000  
103.826      19.103      0.030000  
108.770      19.134      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

113.714	19.207	0.030000
118.659	19.290	0.030000
123.603	19.396	0.030000
128.547	19.387	0.030000
133.491	19.193	0.030000
138.435	19.109	0.030000
143.379	19.235	0.030000
148.323	19.298	0.030000
153.267	19.186	0.030000
158.211	19.209	0.030000
163.155	19.323	0.030000
168.100	19.385	0.030000
173.044	19.537	0.030000
177.988	19.699	0.030000
182.932	19.775	0.030000
187.876	19.713	0.030000
192.820	19.482	0.030000
197.764	19.236	0.030000
202.708	19.110	0.030000
207.652	19.079	0.030000
212.596	19.115	0.030000
217.541	19.328	0.030000
222.485	19.617	0.030000
227.429	19.742	0.030000
232.373	19.696	0.030000
237.317	19.601	0.030000
242.261	19.423	0.030000
247.205	19.584	0.030000
252.149	19.984	0.030000
257.093	19.998	0.030000
262.038	19.942	0.030000
266.982	19.915	0.030000
271.926	19.983	0.030000
276.870	20.050	0.030000
281.814	20.073	0.030000
286.758	19.928	0.030000
291.702	19.710	0.030000
296.646	19.635	0.030000
301.590	19.506	0.030000
306.534	19.315	0.030000
311.479	19.207	0.030000
316.423	19.182	0.030000
321.367	19.173	0.030000
326.311	19.166	0.030000
331.255	19.159	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

336.199	19.146	0.030000
341.143	19.101	0.030000
346.087	19.123	0.030000
351.031	18.993	0.030000
355.975	18.939	0.030000
360.920	18.895	0.030000
365.864	18.982	0.030000
370.808	19.166	0.030000
375.752	19.128	0.030000
380.696	19.171	0.030000
385.640	19.213	0.030000
390.584	19.231	0.030000
395.528	19.242	0.030000
400.472	19.259	0.030000
405.174	19.387	0.030000
409.876	19.458	0.030000
414.579	19.626	0.030000
419.552	19.403	0.030000
424.526	19.256	0.030000
429.500	18.979	0.030000
434.473	18.783	0.030000
439.447	18.858	0.030000
444.421	18.983	0.030000
449.394	19.022	0.030000
454.368	19.023	0.030000
459.342	18.982	0.030000
464.315	18.941	0.030000
469.289	18.855	0.030000
474.263	18.679	0.030000
479.237	18.540	0.030000
484.210	18.502	0.030000
489.184	18.668	0.030000
494.158	18.722	0.030000
499.131	18.806	0.030000
504.105	18.850	0.030000
509.079	18.869	0.030000
514.053	18.773	0.030000
519.026	18.615	0.030000
524.000	18.585	0.030000
528.974	18.535	0.030000
533.947	18.495	0.030000
538.921	18.474	0.030000
543.895	18.537	0.030000
548.868	18.577	0.030000
553.842	18.557	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

558.816	18.486	0.030000
563.789	18.503	0.030000
568.763	18.558	0.030000
573.737	18.608	0.030000
578.711	18.654	0.030000
583.684	18.695	0.030000
588.658	18.736	0.030000
593.632	18.777	0.030000
598.605	18.818	0.030000
603.579	18.859	0.030000
608.553	18.900	0.030000
613.527	18.936	0.030000
618.500	18.953	0.030000
623.474	18.966	0.030000
628.448	19.016	0.030000
633.421	19.041	0.030000
638.395	18.955	0.030000
643.369	18.764	0.030000
648.342	18.834	0.030000
653.316	18.966	0.030000
658.290	18.871	0.030000
663.264	19.127	0.030000
668.237	19.375	0.030000
673.211	19.198	0.030000
678.185	19.276	0.030000
683.158	19.250	0.030000
688.132	19.211	0.030000
693.106	19.205	0.030000
698.080	19.266	0.030000
703.053	19.371	0.030000
708.027	19.019	0.030000
713.001	19.220	0.030000
717.974	19.167	0.030000
722.948	19.096	0.030000
727.922	19.185	0.030000
732.895	19.220	0.030000
737.869	19.207	0.030000
742.843	19.248	0.030000
747.817	19.503	0.030000
752.790	19.507	0.030000
757.764	19.496	0.030000
762.738	19.488	0.030000
767.711	19.483	0.030000
772.685	19.534	0.030000
777.659	19.500	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

782.632	19.367	0.030000
787.606	19.558	0.030000
792.580	19.718	0.030000
797.553	19.633	0.030000
802.527	19.638	0.030000
807.501	19.552	0.030000
812.475	19.680	0.030000
817.448	19.784	0.030000
822.422	19.714	0.030000
827.396	19.584	0.030000
832.369	19.425	0.030000
837.343	19.587	0.030000
842.317	19.760	0.030000
847.290	19.951	0.030000
852.264	20.142	0.030000
857.238	20.029	0.030000
862.212	20.058	0.030000
867.185	20.078	0.030000
872.159	19.945	0.030000
877.133	19.836	0.030000
882.106	19.907	0.030000
887.080	19.961	0.030000
892.054	20.077	0.030000
897.028	20.176	0.030000
902.001	20.253	0.030000
906.975	20.104	0.030000
911.949	19.935	0.030000
916.922	19.836	0.030000
921.896	19.683	0.030000
926.870	19.561	0.030000
931.843	19.505	0.030000
936.817	19.570	0.030000
941.791	19.511	0.030000
946.765	19.251	0.030000
951.738	19.279	0.030000
956.712	19.127	0.030000
961.686	19.109	0.030000
966.659	19.086	0.030000
971.633	19.086	0.030000
976.607	19.115	0.030000
981.580	19.139	0.030000
986.554	19.204	0.030000
991.528	19.399	0.030000
996.501	19.687	0.030000
1001.475	19.696	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1006.449	19.599	0.030000
1011.423	19.566	0.030000
1016.396	19.584	0.030000
1021.370	19.586	0.030000
1026.344	19.535	0.030000
1031.317	19.409	0.030000
1036.291	19.365	0.030000
1041.265	19.267	0.030000
1046.238	19.469	0.030000
1051.212	19.614	0.030000
1056.186	19.642	0.030000
1061.160	19.757	0.030000
1066.133	19.878	0.030000
1071.107	19.836	0.030000
1076.081	19.600	0.030000
1081.054	19.379	0.030000
1086.028	19.142	0.030000
1091.002	18.860	0.030000
1095.976	18.798	0.030000
1100.949	18.797	0.030000
1105.923	18.843	0.030000
1110.897	18.928	0.030000
1115.870	19.031	0.030000
1120.844	19.130	0.030000
1125.818	19.150	0.030000
1130.792	19.173	0.030000
1135.765	19.206	0.030000
1140.739	19.124	0.030000
1145.713	18.931	0.030000
1150.686	18.638	0.030000
1155.660	18.424	0.030000
1159.270	18.299	0.030000
1162.880	18.683	0.030000
1166.490	19.201	0.030000
1170.240	19.501	0.030000
1173.990	19.240	0.030000
1177.740	19.077	0.030000
1181.490	19.044	0.030000
1186.458	18.979	0.030000
1191.426	18.808	0.030000
1196.394	18.621	0.030000

Name: XA0020A

Group: A

Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	17.596	0.030000
4.955	17.559	0.030000
9.909	17.501	0.030000
14.864	17.497	0.030000
19.819	17.466	0.030000
24.773	17.409	0.030000
29.728	17.376	0.030000
34.682	17.361	0.030000
39.637	17.394	0.030000
44.592	17.410	0.030000
49.547	17.359	0.030000
54.501	17.344	0.030000
59.456	17.368	0.030000
64.410	17.369	0.030000
69.365	17.340	0.030000
74.320	17.351	0.030000
79.274	17.356	0.030000
84.229	17.358	0.030000
89.184	17.359	0.030000
94.138	17.331	0.030000
99.093	17.322	0.030000
104.048	17.306	0.030000
109.002	17.234	0.030000
113.957	17.226	0.030000
118.912	17.224	0.030000
123.866	17.241	0.030000
128.821	17.235	0.030000
133.775	17.200	0.030000
138.730	17.210	0.030000
143.685	17.180	0.030000
148.639	17.197	0.030000
153.594	17.191	0.030000
158.549	17.150	0.030000
163.503	17.162	0.030000
168.458	17.149	0.030000
173.413	17.162	0.030000
178.367	17.082	0.030000
183.322	17.071	0.030000
188.277	17.051	0.030000
193.231	17.020	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

198.186	16.974	0.030000
203.141	16.995	0.030000
208.095	17.014	0.030000
213.050	17.007	0.030000
218.005	17.088	0.030000
222.959	17.052	0.030000
227.914	17.057	0.030000
232.868	17.059	0.030000
237.823	17.105	0.030000
242.778	17.106	0.030000
247.732	17.116	0.030000
252.687	17.177	0.030000
257.642	17.057	0.030000
262.596	16.989	0.030000
267.551	16.998	0.030000
272.506	16.805	0.030000
277.460	16.830	0.030000
282.415	16.675	0.030000
287.370	16.743	0.030000
292.324	16.755	0.030000
297.279	16.813	0.030000
302.233	16.782	0.030000
307.188	16.975	0.030000
312.143	16.940	0.030000
317.097	16.758	0.030000
322.052	16.874	0.030000
327.007	16.875	0.030000
331.961	16.848	0.030000
336.916	16.892	0.030000
341.871	16.905	0.030000
346.825	16.830	0.030000
351.780	16.848	0.030000
356.735	16.849	0.030000
361.689	16.840	0.030000
366.644	16.678	0.030000
371.599	16.773	0.030000
376.553	16.782	0.030000
381.508	16.781	0.030000
386.462	16.792	0.030000
391.417	16.767	0.030000

-----  
Name: XA0030C  
Encroachment: No

Group: A



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	17.994	0.030000
4.996	17.950	0.030000
9.992	17.982	0.030000
14.988	17.936	0.030000
19.984	17.875	0.030000
24.980	17.856	0.030000
29.975	17.787	0.030000
34.971	17.733	0.030000
39.967	17.759	0.030000
44.963	17.796	0.030000
49.959	17.795	0.030000
54.955	17.772	0.030000
59.951	17.787	0.030000
64.947	17.854	0.030000
69.943	17.866	0.030000
74.939	17.889	0.030000
79.934	17.883	0.030000
84.930	17.920	0.030000
89.926	17.929	0.030000
94.922	17.976	0.030000
99.918	17.996	0.030000
104.914	17.982	0.030000
109.910	18.002	0.030000
114.906	18.051	0.030000
119.902	18.070	0.030000
124.897	18.060	0.030000
129.893	18.060	0.030000
134.889	18.077	0.030000
139.885	18.097	0.030000
144.881	18.135	0.030000
149.877	18.163	0.030000
154.873	18.170	0.030000
159.869	18.223	0.030000
164.865	18.293	0.030000
169.861	18.271	0.030000
174.857	18.299	0.030000
179.852	18.290	0.030000
184.848	18.289	0.030000
189.844	18.323	0.030000
194.840	18.381	0.030000
199.836	18.431	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

204.832	18.392	0.030000
209.828	18.389	0.030000
214.824	18.404	0.030000
219.820	18.415	0.030000
224.815	18.476	0.030000
229.811	18.450	0.030000
234.807	18.508	0.030000
239.803	18.533	0.030000
244.799	18.534	0.030000
249.795	18.560	0.030000
254.791	18.584	0.030000
259.787	18.532	0.030000
264.783	18.563	0.030000
269.779	18.629	0.030000
274.774	18.653	0.030000
279.770	18.683	0.030000
284.766	18.759	0.030000
289.762	18.813	0.030000
294.758	18.821	0.030000
299.754	18.810	0.030000
304.750	18.803	0.030000
309.746	18.875	0.030000
314.742	18.977	0.030000
319.738	18.932	0.030000
324.733	18.996	0.030000
329.729	18.966	0.030000
334.725	18.942	0.030000
339.721	18.841	0.030000
344.717	18.796	0.030000
349.713	18.780	0.030000
354.709	18.753	0.030000
359.705	18.901	0.030000
364.701	19.009	0.030000

-----

Name: XA0040A	Group: A
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	16.018	0.030000
4.982	15.978	0.030000
9.965	15.906	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

14.947	15.854	0.030000
19.930	15.795	0.030000
24.912	15.707	0.030000
29.895	15.620	0.030000
34.877	15.496	0.030000
39.859	15.324	0.030000
44.842	15.457	0.030000
49.824	15.733	0.030000
54.807	16.088	0.030000
59.789	16.896	0.030000
64.772	17.535	0.030000
69.754	18.051	0.030000
74.736	18.293	0.030000
79.719	18.446	0.030000
84.701	18.906	0.030000
89.684	19.048	0.030000
94.666	18.865	0.030000
99.648	18.593	0.030000
104.631	18.480	0.030000
109.613	18.366	0.030000
114.596	18.357	0.030000
119.578	18.400	0.030000
124.561	18.381	0.030000
129.543	18.389	0.030000
134.525	18.384	0.030000
139.508	18.344	0.030000
144.490	18.337	0.030000
149.473	18.367	0.030000
154.455	18.369	0.030000
159.437	18.409	0.030000
164.420	18.438	0.030000
169.402	18.419	0.030000
174.385	18.423	0.030000
179.367	18.360	0.030000
184.350	18.371	0.030000
189.332	18.486	0.030000
194.314	18.499	0.030000
199.297	18.631	0.030000
204.279	18.681	0.030000
209.262	18.615	0.030000
214.244	18.565	0.030000
219.226	18.529	0.030000
224.209	18.555	0.030000
229.191	18.701	0.030000
234.174	18.697	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

239.156	18.607	0.030000
244.139	18.593	0.030000
249.121	18.536	0.030000
254.103	18.616	0.030000
259.086	18.747	0.030000
264.068	18.702	0.030000
269.051	18.574	0.030000
274.033	18.523	0.030000
279.015	18.443	0.030000
283.998	18.425	0.030000
288.980	18.431	0.030000
293.963	18.393	0.030000
298.945	18.375	0.030000
303.928	18.337	0.030000
308.910	18.327	0.030000
313.892	18.313	0.030000
318.875	18.305	0.030000
323.857	18.472	0.030000
328.840	18.576	0.030000
333.822	18.488	0.030000
338.805	18.500	0.030000
343.787	18.613	0.030000
348.769	18.597	0.030000
353.752	18.386	0.030000
358.734	18.155	0.030000
363.717	18.143	0.030000
368.699	18.155	0.030000
373.682	18.006	0.030000
378.664	18.127	0.030000
383.646	18.184	0.030000
388.629	18.240	0.030000
393.611	18.082	0.030000
398.594	18.071	0.030000
403.576	18.061	0.030000
408.558	18.153	0.030000
413.541	18.455	0.030000
418.523	18.564	0.030000
423.506	18.756	0.030000
428.488	18.933	0.030000
433.471	18.842	0.030000
438.453	18.517	0.030000
443.435	18.449	0.030000
448.418	18.460	0.030000
453.400	18.602	0.030000
458.383	18.768	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

463.365	18.736	0.030000
468.348	18.671	0.030000
473.330	18.407	0.030000
478.312	18.426	0.030000
483.295	18.408	0.030000
488.277	18.702	0.030000
493.260	18.690	0.030000
498.242	18.797	0.030000
503.224	18.795	0.030000
508.207	18.415	0.030000
513.189	18.430	0.030000
518.172	18.537	0.030000
523.154	18.564	0.030000
528.136	18.533	0.030000
533.119	18.509	0.030000
538.101	18.491	0.030000
543.084	18.428	0.030000
548.066	18.174	0.030000
553.049	18.192	0.030000
558.031	18.278	0.030000
563.013	18.349	0.030000
567.996	18.404	0.030000
572.978	18.439	0.030000
577.961	18.472	0.030000
582.943	18.589	0.030000
587.926	18.615	0.030000
592.908	18.599	0.030000
597.890	18.635	0.030000
602.873	18.650	0.030000
607.855	18.742	0.030000
612.838	18.759	0.030000
617.820	18.571	0.030000
622.803	18.529	0.030000
627.785	18.524	0.030000
632.767	18.608	0.030000
637.750	18.584	0.030000
642.732	18.615	0.030000
647.715	18.416	0.030000
652.697	18.371	0.030000
657.679	18.378	0.030000
662.662	18.202	0.030000
667.644	18.108	0.030000
672.627	18.063	0.030000
677.609	17.913	0.030000
682.592	17.775	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

687.574 17.922 0.030000  
692.556 17.994 0.030000

Name: XA0040B Group: A  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 16.767 0.030000  
4.990 16.741 0.030000  
9.980 16.658 0.030000  
14.970 16.579 0.030000  
19.960 16.488 0.030000  
24.950 16.362 0.030000  
29.940 16.199 0.030000  
34.930 16.110 0.030000  
39.920 15.953 0.030000  
44.910 15.771 0.030000  
49.900 15.983 0.030000  
54.889 16.027 0.030000  
59.879 16.102 0.030000  
64.869 16.150 0.030000  
69.859 16.339 0.030000  
74.849 17.109 0.030000  
79.839 17.376 0.030000  
84.829 17.431 0.030000  
89.819 17.596 0.030000  
94.809 17.765 0.030000  
99.799 17.787 0.030000  
104.789 17.888 0.030000  
109.779 17.861 0.030000  
114.769 17.973 0.030000  
119.759 18.049 0.030000  
124.749 18.102 0.030000  
129.739 18.075 0.030000  
134.729 18.097 0.030000  
139.719 17.614 0.030000  
144.708 17.067 0.030000  
149.698 17.084 0.030000  
154.688 17.143 0.030000  
159.678 17.208 0.030000  
164.668 17.269 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

169.658	17.354	0.030000
174.648	17.427	0.030000
179.638	17.462	0.030000
184.628	17.535	0.030000
189.618	17.652	0.030000
194.608	17.741	0.030000
199.598	17.764	0.030000
204.588	17.801	0.030000
209.578	17.987	0.030000
214.568	18.044	0.030000
219.558	18.888	0.030000
224.548	19.137	0.030000
229.538	19.082	0.030000
234.528	19.015	0.030000
239.518	19.258	0.030000
244.507	19.489	0.030000
249.497	19.634	0.030000
254.487	19.511	0.030000
259.477	19.128	0.030000
264.467	19.006	0.030000
269.457	18.773	0.030000
274.447	18.639	0.030000
279.437	18.674	0.030000
284.427	18.237	0.030000
289.417	18.129	0.030000
294.407	18.574	0.030000
299.397	18.490	0.030000
304.387	18.206	0.030000
309.377	17.928	0.030000
314.367	17.748	0.030000
319.357	17.771	0.030000
324.347	17.936	0.030000
329.337	17.844	0.030000
334.327	17.896	0.030000
339.316	17.778	0.030000
344.306	17.855	0.030000
349.296	17.837	0.030000
354.286	17.935	0.030000
359.276	17.873	0.030000
364.266	17.907	0.030000
369.256	17.957	0.030000
374.246	17.892	0.030000
379.236	18.076	0.030000
384.226	18.413	0.030000
389.216	18.767	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

394.206	18.939	0.030000
399.196	19.061	0.030000
404.186	19.129	0.030000
409.176	18.909	0.030000
414.166	18.702	0.030000
419.156	18.820	0.030000
424.146	18.857	0.030000
429.135	18.926	0.030000
434.125	19.093	0.030000
439.115	18.963	0.030000
444.105	18.621	0.030000
449.095	18.874	0.030000
454.085	18.977	0.030000
459.075	18.830	0.030000
464.065	18.524	0.030000
469.055	18.439	0.030000
474.045	18.422	0.030000
479.035	18.477	0.030000
484.025	18.714	0.030000
489.015	18.747	0.030000
494.005	18.471	0.030000
498.995	18.201	0.030000
503.985	17.796	0.030000
508.975	17.760	0.030000
513.965	17.822	0.030000
518.955	17.826	0.030000
523.944	17.861	0.030000
528.934	17.847	0.030000
533.924	17.861	0.030000
538.914	17.807	0.030000
543.904	17.767	0.030000
548.894	17.673	0.030000
553.884	17.677	0.030000
558.874	17.711	0.030000
563.864	17.620	0.030000
568.854	17.861	0.030000
573.844	18.033	0.030000
578.834	18.037	0.030000
583.824	18.062	0.030000
588.814	17.932	0.030000
593.804	17.954	0.030000
598.794	18.138	0.030000
603.784	18.239	0.030000
608.774	18.180	0.030000
613.764	18.157	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

618.754	18.162	0.030000
623.743	18.223	0.030000
628.733	18.221	0.030000
633.723	18.201	0.030000
638.713	18.338	0.030000
643.703	18.242	0.030000
648.693	18.218	0.030000
653.683	18.056	0.030000
658.673	17.792	0.030000
663.663	17.777	0.030000
668.653	17.936	0.030000
673.643	18.134	0.030000
678.633	18.346	0.030000
683.623	18.477	0.030000
688.613	18.487	0.030000
693.603	18.430	0.030000

Name: XA0040C                      Group: A  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.446	0.030000
4.994	16.481	0.030000
9.988	16.505	0.030000
14.983	16.529	0.030000
19.977	16.545	0.030000
24.971	16.467	0.030000
29.965	16.406	0.030000
34.959	16.573	0.030000
39.953	16.650	0.030000
44.947	16.716	0.030000
49.941	16.897	0.030000
54.936	16.885	0.030000
59.930	16.952	0.030000
64.924	16.974	0.030000
69.918	17.010	0.030000
74.912	17.048	0.030000
79.906	17.049	0.030000
84.901	17.023	0.030000
89.895	17.035	0.030000
94.889	16.949	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

99.883	16.968	0.030000
104.877	17.025	0.030000
109.871	17.171	0.030000
114.866	17.185	0.030000
119.860	17.210	0.030000
124.854	17.229	0.030000
129.848	17.253	0.030000
134.842	17.267	0.030000
139.836	17.258	0.030000
144.830	17.298	0.030000
149.825	17.269	0.030000
154.819	17.352	0.030000
159.738	17.314	0.030000
164.656	17.257	0.030000
169.576	17.275	0.030000
174.494	17.273	0.030000
179.413	17.171	0.030000
184.332	17.177	0.030000
189.251	17.110	0.030000
194.170	17.160	0.030000
199.089	17.171	0.030000
204.008	17.105	0.030000
208.927	17.122	0.030000
213.846	17.157	0.030000
218.765	17.047	0.030000
223.684	16.856	0.030000
228.603	16.964	0.030000
233.522	16.956	0.030000
238.440	16.759	0.030000
243.359	16.676	0.030000
248.278	16.645	0.030000
253.197	16.652	0.030000
258.116	16.709	0.030000
263.035	16.730	0.030000
267.954	16.744	0.030000
272.873	16.759	0.030000
277.792	16.776	0.030000
282.711	16.830	0.030000
287.630	16.814	0.030000
292.549	16.841	0.030000
297.468	16.878	0.030000
302.387	16.880	0.030000
307.305	16.883	0.030000
312.224	16.885	0.030000
317.143	16.879	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

322.062	16.884	0.030000
326.981	16.914	0.030000
331.900	16.950	0.030000
336.819	16.925	0.030000
341.738	16.904	0.030000
346.657	16.974	0.030000
351.576	16.972	0.030000
356.495	16.937	0.030000
361.414	16.978	0.030000
366.333	16.975	0.030000
371.252	16.951	0.030000
376.171	16.930	0.030000
381.089	16.907	0.030000
386.008	16.892	0.030000
390.927	16.870	0.030000
395.846	16.866	0.030000
400.765	16.846	0.030000
405.684	16.812	0.030000
410.603	16.809	0.030000
415.522	16.778	0.030000
420.441	16.772	0.030000
425.360	16.767	0.030000

Name: XA0040D      Group: A  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.994	0.030000
4.959	18.018	0.030000
9.918	18.010	0.030000
14.877	17.996	0.030000
19.836	17.987	0.030000
24.794	18.003	0.030000
29.753	18.040	0.030000
34.712	18.112	0.030000
39.671	18.128	0.030000
44.630	18.076	0.030000
49.589	18.130	0.030000
54.548	18.193	0.030000
59.507	18.152	0.030000
64.465	18.146	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

69.424	18.160	0.030000
74.383	18.168	0.030000
79.342	18.209	0.030000
84.301	18.204	0.030000
89.260	18.225	0.030000
94.219	18.282	0.030000
99.177	18.276	0.030000
104.136	18.219	0.030000
109.095	18.172	0.030000
114.054	18.163	0.030000
119.013	18.182	0.030000
123.972	18.186	0.030000
128.931	18.091	0.030000
133.890	18.041	0.030000
138.848	18.068	0.030000
143.807	18.113	0.030000
148.766	18.139	0.030000
153.725	18.051	0.030000
158.684	18.002	0.030000
163.643	17.956	0.030000
168.602	17.907	0.030000
173.560	17.854	0.030000
178.519	17.845	0.030000
183.478	17.792	0.030000
188.437	17.713	0.030000
193.396	17.664	0.030000
198.355	17.693	0.030000
203.314	17.701	0.030000
208.273	17.700	0.030000
213.232	17.677	0.030000
218.190	17.646	0.030000
223.149	17.646	0.030000
228.108	17.616	0.030000
233.067	17.660	0.030000
238.026	17.683	0.030000
242.985	17.682	0.030000
247.944	17.711	0.030000
252.903	17.658	0.030000
257.861	17.627	0.030000
262.820	17.637	0.030000
267.779	17.695	0.030000
272.738	17.630	0.030000
277.697	17.566	0.030000
282.656	17.588	0.030000
287.615	17.619	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

292.574	17.712	0.030000
297.532	17.688	0.030000
302.491	17.710	0.030000
307.450	17.741	0.030000
312.409	17.756	0.030000
317.368	17.747	0.030000
322.327	17.678	0.030000
327.286	17.811	0.030000
332.244	17.814	0.030000
337.203	17.918	0.030000
342.162	17.905	0.030000
347.121	17.923	0.030000
352.080	17.902	0.030000
357.039	18.000	0.030000
361.998	18.028	0.030000
366.957	18.009	0.030000
371.915	17.993	0.030000
376.874	18.021	0.030000
381.833	17.949	0.030000
386.792	17.950	0.030000
391.751	17.898	0.030000
396.710	17.937	0.030000
401.669	17.784	0.030000
406.628	17.803	0.030000
411.586	17.763	0.030000
416.545	17.779	0.030000
421.504	17.757	0.030000
426.463	17.736	0.030000
431.422	17.691	0.030000
436.381	17.662	0.030000
441.340	17.726	0.030000
446.298	17.650	0.030000
451.257	17.638	0.030000
456.216	17.627	0.030000
461.175	17.547	0.030000
466.134	17.624	0.030000
471.093	17.584	0.030000
476.052	17.614	0.030000
481.011	17.679	0.030000
485.969	17.791	0.030000
490.928	17.922	0.030000
495.887	18.187	0.030000
500.846	17.956	0.030000
505.805	17.922	0.030000
510.764	18.065	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

515.723	17.994	0.030000
520.682	18.061	0.030000
525.640	18.126	0.030000
530.599	18.183	0.030000
535.558	18.213	0.030000
540.517	18.253	0.030000
545.476	18.287	0.030000
550.435	18.346	0.030000
555.394	18.430	0.030000

Name: XA0060A                      Group: A  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.829	0.030000
4.981	17.291	0.030000
9.961	17.743	0.030000
14.942	18.167	0.030000
19.922	18.543	0.030000
24.903	18.836	0.030000
29.884	19.017	0.030000
34.864	19.099	0.030000
39.845	19.130	0.030000
44.825	19.134	0.030000
49.806	19.069	0.030000
54.786	18.730	0.030000
59.767	18.402	0.030000
64.748	18.250	0.030000
69.728	18.061	0.030000
74.709	17.892	0.030000
79.689	17.771	0.030000
84.670	17.754	0.030000
89.650	17.792	0.030000
94.631	17.659	0.030000
99.612	17.564	0.030000
104.592	17.599	0.030000
109.573	17.589	0.030000
114.554	17.535	0.030000
119.534	17.577	0.030000
124.515	17.662	0.030000
129.495	17.592	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

134.476	17.548	0.030000
139.456	17.676	0.030000
144.437	17.873	0.030000
149.418	17.923	0.030000
154.398	17.887	0.030000
159.379	17.947	0.030000
164.359	18.119	0.030000
169.340	18.317	0.030000
174.321	18.373	0.030000
179.301	18.253	0.030000
184.282	18.195	0.030000
189.262	18.362	0.030000
194.243	18.660	0.030000

Name: XA0070A                      Group: A  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.656	0.030000
4.842	16.670	0.030000
9.684	16.677	0.030000
14.302	16.663	0.030000
18.919	16.647	0.030000
23.537	16.684	0.030000
28.154	16.678	0.030000
32.772	16.706	0.030000
37.389	16.709	0.030000
42.007	16.718	0.030000
46.624	16.711	0.030000
51.242	16.728	0.030000
55.859	16.750	0.030000
60.476	16.784	0.030000
65.476	17.117	0.030000
70.476	17.730	0.030000
75.476	17.966	0.030000
79.777	18.090	0.030000
84.078	18.098	0.030000
88.378	17.957	0.030000
92.679	17.863	0.030000
96.979	17.968	0.030000
101.280	18.019	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

105.580	17.925	0.030000
109.580	17.611	0.030000
113.580	17.133	0.030000
117.580	17.174	0.030000
121.580	17.166	0.030000
125.580	17.214	0.030000
130.330	17.245	0.030000
135.080	17.218	0.030000
139.830	17.322	0.030000
144.580	17.671	0.030000
149.330	18.144	0.030000
154.080	18.491	0.030000
158.830	18.467	0.030000
163.580	18.224	0.030000
168.330	18.434	0.030000
173.080	18.442	0.030000
177.247	18.423	0.030000
181.414	18.428	0.030000
185.580	18.244	0.030000
189.533	18.067	0.030000
193.486	18.096	0.030000
197.439	18.167	0.030000
201.392	18.327	0.030000
205.558	18.413	0.030000
209.725	18.366	0.030000
213.892	18.241	0.030000
218.876	18.328	0.030000
223.860	17.222	0.030000
228.844	16.953	0.030000
233.828	16.935	0.030000
238.812	16.442	0.030000
243.797	17.503	0.030000
248.781	17.925	0.030000
253.765	18.159	0.030000
258.749	18.191	0.030000
263.733	18.519	0.030000
268.717	18.529	0.030000
273.701	18.500	0.030000
278.685	18.464	0.030000
283.669	18.435	0.030000
288.654	18.465	0.030000
293.638	18.466	0.030000
298.622	18.538	0.030000
303.606	18.497	0.030000
308.590	18.317	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

313.574	18.198	0.030000
318.558	18.198	0.030000
323.542	18.226	0.030000
328.526	18.368	0.030000
333.510	18.607	0.030000
338.495	18.852	0.030000
343.479	18.975	0.030000
348.463	19.025	0.030000
353.447	18.971	0.030000
358.431	18.938	0.030000
363.415	18.783	0.030000
368.399	18.843	0.030000
373.383	18.840	0.030000
378.368	18.930	0.030000
383.352	18.924	0.030000
388.336	18.946	0.030000
393.320	18.928	0.030000
398.304	18.957	0.030000
403.288	19.142	0.030000
408.272	19.288	0.030000
413.256	19.078	0.030000
418.241	19.107	0.030000
423.225	19.057	0.030000
428.209	18.930	0.030000
433.193	18.868	0.030000
438.177	18.703	0.030000
443.161	18.714	0.030000
448.145	18.848	0.030000
453.129	18.761	0.030000
458.113	18.692	0.030000
463.098	18.652	0.030000
468.082	18.690	0.030000
473.066	18.792	0.030000
478.050	18.881	0.030000
483.034	18.809	0.030000
488.018	18.607	0.030000
493.002	18.496	0.030000
497.986	18.547	0.030000
502.970	18.513	0.030000
507.955	18.733	0.030000
512.939	18.732	0.030000
517.923	18.689	0.030000
522.907	18.647	0.030000
527.891	18.699	0.030000
532.875	18.832	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

537.859	18.848	0.030000
542.843	19.046	0.030000
547.827	19.104	0.030000
552.812	18.960	0.030000
557.796	18.789	0.030000
562.780	18.753	0.030000
567.764	18.695	0.030000
572.748	18.638	0.030000
577.732	18.749	0.030000
582.716	18.785	0.030000
587.700	18.810	0.030000
592.684	18.790	0.030000
597.669	18.643	0.030000
602.653	18.648	0.030000
607.637	18.657	0.030000
612.621	18.595	0.030000
617.605	18.561	0.030000
622.589	18.493	0.030000
627.573	18.500	0.030000
632.557	18.434	0.030000
637.542	18.477	0.030000
642.526	18.429	0.030000
647.510	18.390	0.030000
652.494	18.354	0.030000
657.478	18.279	0.030000
662.462	18.331	0.030000
667.446	18.349	0.030000
672.430	18.259	0.030000
677.414	18.170	0.030000
682.399	18.189	0.030000
687.383	18.174	0.030000
692.367	18.224	0.030000
697.351	18.362	0.030000
702.335	18.289	0.030000
707.319	18.273	0.030000
712.303	18.339	0.030000
717.287	18.454	0.030000
722.271	18.586	0.030000
727.256	18.744	0.030000
732.240	18.814	0.030000
737.224	18.632	0.030000
742.208	18.544	0.030000
747.192	18.660	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XA0070B  
Encroachment: No

Group: A

Station(ft) Elevation(ft) Manning's N

0.000	16.769	0.030000
4.953	16.762	0.030000
9.906	16.793	0.030000
14.860	16.732	0.030000
19.813	16.725	0.030000
24.766	16.767	0.030000
29.719	16.874	0.030000
34.672	16.915	0.030000
39.626	16.818	0.030000
44.579	16.753	0.030000
49.532	16.721	0.030000
54.485	16.645	0.030000
59.438	16.634	0.030000
64.392	16.674	0.030000
69.345	16.651	0.030000
74.298	16.658	0.030000
79.251	16.724	0.030000
84.204	16.820	0.030000
89.158	16.810	0.030000
94.111	16.683	0.030000
99.064	16.636	0.030000
104.017	16.648	0.030000
108.971	16.752	0.030000
113.924	16.821	0.030000
118.877	16.896	0.030000
123.830	16.994	0.030000
128.783	16.872	0.030000
133.737	16.817	0.030000
138.690	16.821	0.030000
143.643	16.866	0.030000
148.596	16.882	0.030000
153.549	16.872	0.030000
158.503	16.886	0.030000
163.456	16.870	0.030000
168.409	16.869	0.030000
173.362	16.829	0.030000
178.315	16.914	0.030000
183.269	17.045	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

188.222	17.029	0.030000
193.175	16.932	0.030000
198.128	16.931	0.030000
203.081	16.968	0.030000
208.035	16.942	0.030000
212.988	16.926	0.030000
217.941	16.920	0.030000
222.894	16.879	0.030000
227.847	16.867	0.030000
232.801	16.941	0.030000
237.754	16.978	0.030000
242.707	17.091	0.030000
247.660	17.062	0.030000
252.613	17.120	0.030000
257.567	17.272	0.030000
262.520	17.403	0.030000
267.473	17.308	0.030000
272.426	17.073	0.030000
277.380	17.085	0.030000
282.333	17.078	0.030000
287.286	17.109	0.030000
292.239	17.047	0.030000
297.192	17.159	0.030000
302.146	17.218	0.030000
307.099	17.246	0.030000
312.052	17.203	0.030000
317.005	17.169	0.030000
321.958	17.064	0.030000
326.911	16.442	0.030000
331.865	16.642	0.030000
336.818	16.537	0.030000
341.771	16.569	0.030000
346.724	16.692	0.030000
351.678	16.845	0.030000
356.631	16.840	0.030000
361.584	16.783	0.030000
366.537	16.744	0.030000
371.490	16.706	0.030000
376.444	16.699	0.030000
381.397	16.656	0.030000

-----  
Name: XA0080A  
Encroachment: No

Group: A



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	16.881	0.030000
4.990	16.884	0.030000
9.981	16.954	0.030000
14.971	16.919	0.030000
19.962	16.813	0.030000
24.952	16.666	0.030000
29.942	16.630	0.030000
34.933	16.593	0.030000
39.923	16.635	0.030000
44.913	16.596	0.030000
49.904	16.639	0.030000
54.894	16.750	0.030000
59.885	16.820	0.030000
64.875	16.848	0.030000
69.865	16.953	0.030000
74.856	16.927	0.030000
79.846	16.952	0.030000
84.837	16.970	0.030000
89.827	16.977	0.030000
94.817	17.004	0.030000
99.808	16.940	0.030000
104.798	16.947	0.030000
109.789	16.974	0.030000
114.779	17.258	0.030000
119.769	17.411	0.030000
124.760	17.539	0.030000
129.750	17.608	0.030000
134.741	17.574	0.030000
139.731	17.412	0.030000
144.721	17.496	0.030000
149.712	17.540	0.030000
154.702	17.385	0.030000
159.693	17.372	0.030000
164.683	17.322	0.030000
169.673	17.319	0.030000
174.664	17.351	0.030000
179.654	17.497	0.030000
184.644	17.547	0.030000
189.635	17.501	0.030000
194.625	17.449	0.030000
199.616	17.435	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

204.606	17.404	0.030000
209.596	17.370	0.030000
214.587	17.527	0.030000
219.577	17.786	0.030000
224.568	17.656	0.030000
229.558	17.412	0.030000
234.548	17.423	0.030000
239.539	17.468	0.030000
244.529	17.563	0.030000
249.519	17.695	0.030000
254.510	17.473	0.030000
259.500	17.366	0.030000
264.491	17.341	0.030000
269.481	17.398	0.030000
274.471	17.375	0.030000
279.462	17.433	0.030000
284.452	17.395	0.030000
289.443	17.364	0.030000
294.433	17.409	0.030000
299.423	17.445	0.030000
304.414	17.384	0.030000
309.404	17.429	0.030000
314.395	17.554	0.030000
319.385	17.594	0.030000
324.375	17.537	0.030000
329.366	17.396	0.030000
334.356	17.318	0.030000
339.346	17.375	0.030000
344.337	17.454	0.030000
349.327	17.359	0.030000
354.318	17.308	0.030000
359.308	17.164	0.030000
364.298	17.177	0.030000
369.289	17.161	0.030000
374.279	17.133	0.030000
379.270	17.093	0.030000
384.260	17.068	0.030000
389.250	16.982	0.030000
394.241	16.874	0.030000
399.231	16.819	0.030000
404.222	16.894	0.030000
409.212	16.843	0.030000
414.202	16.923	0.030000
419.193	17.044	0.030000
424.183	17.078	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

429.173	17.124	0.030000
434.164	17.140	0.030000
439.154	17.232	0.030000
444.145	17.326	0.030000
449.135	17.379	0.030000
454.125	17.430	0.030000
459.116	17.476	0.030000
464.106	17.535	0.030000
469.097	17.551	0.030000
474.087	17.567	0.030000
479.077	17.634	0.030000
484.068	17.661	0.030000
489.058	17.643	0.030000
494.049	17.680	0.030000
499.039	17.753	0.030000
504.029	17.730	0.030000
509.020	17.678	0.030000
514.010	17.661	0.030000
519.001	17.668	0.030000
523.991	17.629	0.030000
528.981	17.634	0.030000
533.972	17.682	0.030000
538.962	17.701	0.030000
543.952	17.744	0.030000
548.943	17.753	0.030000
553.933	17.783	0.030000
558.924	17.758	0.030000
563.914	17.737	0.030000
568.904	17.746	0.030000
573.895	17.676	0.030000
578.885	17.639	0.030000
583.876	17.650	0.030000
588.866	17.627	0.030000
593.856	17.667	0.030000
598.847	17.723	0.030000
603.837	17.741	0.030000
608.828	17.700	0.030000
613.818	17.589	0.030000
618.808	17.583	0.030000
623.799	17.641	0.030000
628.789	17.631	0.030000
633.779	17.627	0.030000
638.770	17.629	0.030000
643.760	17.608	0.030000
648.751	17.554	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

653.741	17.769	0.030000
658.731	17.820	0.030000
663.722	17.525	0.030000
668.712	17.345	0.030000
673.703	17.383	0.030000
678.693	17.431	0.030000
683.683	17.473	0.030000
688.674	17.581	0.030000
693.664	17.608	0.030000
698.655	17.653	0.030000
703.645	17.678	0.030000
708.635	17.663	0.030000
713.626	17.727	0.030000
718.616	17.789	0.030000
723.606	17.798	0.030000
728.597	17.799	0.030000
733.587	17.790	0.030000
738.578	17.757	0.030000
743.568	17.772	0.030000
748.558	17.844	0.030000
753.549	17.860	0.030000
758.539	17.851	0.030000
763.530	17.869	0.030000
768.520	17.894	0.030000
773.510	17.851	0.030000
778.501	17.857	0.030000
783.491	17.855	0.030000
788.482	17.813	0.030000
793.472	17.826	0.030000
798.462	17.848	0.030000
803.453	17.933	0.030000
808.443	18.051	0.030000
813.434	18.089	0.030000
818.424	18.060	0.030000
823.414	18.039	0.030000
828.405	17.959	0.030000
833.395	17.856	0.030000
838.385	17.799	0.030000
843.376	17.746	0.030000
848.366	17.720	0.030000
853.357	17.763	0.030000
858.347	17.809	0.030000
863.337	17.795	0.030000
868.328	17.741	0.030000
873.318	17.733	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

878.309	17.725	0.030000
883.299	17.664	0.030000
888.289	17.682	0.030000
893.280	17.758	0.030000
898.270	17.791	0.030000
903.261	17.847	0.030000
908.251	17.895	0.030000
913.241	17.907	0.030000
918.232	17.935	0.030000
923.222	17.931	0.030000
928.212	17.902	0.030000
933.203	17.933	0.030000
938.193	17.992	0.030000
943.184	18.072	0.030000
948.174	18.149	0.030000
953.164	18.173	0.030000
958.155	18.041	0.030000
963.145	17.934	0.030000
968.136	17.963	0.030000
973.126	17.907	0.030000
978.116	17.946	0.030000
983.107	17.905	0.030000
988.097	17.802	0.030000
993.088	17.813	0.030000
998.078	17.840	0.030000
1003.068	17.807	0.030000
1008.059	17.738	0.030000
1013.049	17.721	0.030000
1018.040	17.694	0.030000
1023.030	17.682	0.030000
1028.020	17.662	0.030000
1033.011	17.619	0.030000
1038.001	17.556	0.030000

-----

Name: XA0081B	Group: A
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	19.009	0.030000
4.998	19.020	0.030000
9.996	19.109	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

14.995	18.759	0.030000
19.993	18.330	0.030000
24.991	18.069	0.030000
29.990	17.812	0.030000
34.988	17.818	0.030000
39.986	17.873	0.030000
44.984	17.917	0.030000
49.983	17.991	0.030000
54.981	18.006	0.030000
59.979	18.042	0.030000
64.977	18.029	0.030000
69.975	18.130	0.030000
74.974	18.258	0.030000
79.972	18.490	0.030000
84.970	18.596	0.030000
89.969	18.456	0.030000
94.967	18.304	0.030000
99.965	17.891	0.030000
104.963	17.755	0.030000
109.962	17.767	0.030000
114.960	17.831	0.030000
119.958	17.781	0.030000
124.956	17.809	0.030000
129.955	17.873	0.030000
134.953	18.018	0.030000
139.951	17.911	0.030000
144.949	17.911	0.030000
149.947	17.956	0.030000
154.946	18.005	0.030000
159.944	17.985	0.030000
164.942	17.965	0.030000
169.940	18.049	0.030000
174.939	18.178	0.030000
179.937	17.935	0.030000
184.935	18.190	0.030000
189.934	18.398	0.030000
194.932	18.433	0.030000
199.930	17.990	0.030000
204.928	18.009	0.030000
209.927	17.926	0.030000
214.925	17.965	0.030000
219.923	17.938	0.030000
224.921	17.871	0.030000
229.920	17.792	0.030000
234.918	17.783	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

239.916	17.827	0.030000
244.914	18.093	0.030000
249.912	18.246	0.030000
254.911	18.120	0.030000
259.909	18.157	0.030000
264.907	18.050	0.030000
269.906	18.074	0.030000
274.904	18.064	0.030000
279.902	18.157	0.030000
284.900	18.096	0.030000
289.899	17.930	0.030000
294.897	18.005	0.030000
299.895	18.083	0.030000
304.893	18.114	0.030000
309.892	18.093	0.030000
314.890	18.121	0.030000
319.888	18.229	0.030000
324.886	18.119	0.030000
329.885	18.012	0.030000
334.883	17.955	0.030000
339.881	17.863	0.030000
344.879	18.017	0.030000
349.878	18.229	0.030000
354.876	18.441	0.030000
359.874	18.547	0.030000
364.872	18.262	0.030000
369.871	17.946	0.030000
374.869	17.813	0.030000
379.867	17.771	0.030000
384.865	17.713	0.030000
389.864	17.660	0.030000
394.862	17.724	0.030000
399.860	17.811	0.030000
404.858	17.681	0.030000
409.857	17.594	0.030000
414.855	17.491	0.030000
419.853	17.509	0.030000
424.851	17.413	0.030000
429.850	17.406	0.030000
434.848	17.426	0.030000
439.846	17.375	0.030000
444.844	17.372	0.030000
449.843	17.386	0.030000
454.841	17.358	0.030000
459.839	17.386	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

464.837	17.406	0.030000
469.836	17.354	0.030000
474.834	17.346	0.030000
479.832	17.291	0.030000
484.830	17.248	0.030000
489.829	17.263	0.030000
494.827	17.277	0.030000
499.825	17.201	0.030000
504.823	17.168	0.030000
509.822	17.201	0.030000
514.820	17.241	0.030000
519.818	17.199	0.030000
524.816	17.221	0.030000
529.815	17.247	0.030000
534.813	17.214	0.030000
539.811	17.243	0.030000
544.809	17.269	0.030000
549.808	17.333	0.030000
554.806	17.372	0.030000
559.804	17.454	0.030000
564.802	17.419	0.030000
569.801	17.578	0.030000
574.799	17.595	0.030000
579.797	17.352	0.030000
584.795	17.400	0.030000
589.794	17.326	0.030000
594.792	17.520	0.030000
599.790	17.610	0.030000
604.788	17.703	0.030000
609.787	17.645	0.030000
614.785	17.439	0.030000
619.783	17.253	0.030000
624.781	16.904	0.030000
629.780	16.740	0.030000
634.778	16.285	0.030000
639.776	15.878	0.030000
644.774	15.384	0.030000
649.773	15.117	0.030000
654.771	15.276	0.030000
659.769	15.449	0.030000
664.767	15.520	0.030000
669.766	15.558	0.030000
674.764	15.649	0.030000
679.762	15.755	0.030000
684.760	15.776	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

689.759	15.785	0.030000
694.757	15.841	0.030000

---

Name: XA0081C	Group: A
Encroachment: No	

---

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

---

0.000	15.841	0.030000
3.836	15.848	0.030000
7.671	15.848	0.030000
11.507	15.835	0.030000
16.398	15.844	0.030000
21.288	15.878	0.030000
26.179	15.907	0.030000
31.069	15.939	0.030000
36.028	15.910	0.030000
40.987	15.985	0.030000
45.945	16.033	0.030000
50.904	16.069	0.030000
55.863	16.038	0.030000
60.822	16.011	0.030000
65.780	16.035	0.030000

---

Name: XA0081D	Group: A
Encroachment: No	

---

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

---

0.000	18.709	0.030000
4.969	19.036	0.030000
9.938	19.109	0.030000
14.907	19.218	0.030000
19.876	19.368	0.030000
24.845	19.419	0.030000
29.814	19.453	0.030000
34.783	19.492	0.030000
39.752	19.375	0.030000
44.721	19.372	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

49.690	19.294	0.030000
54.659	19.401	0.030000
59.628	19.645	0.030000
64.597	19.673	0.030000
69.566	19.539	0.030000
74.535	19.258	0.030000
79.504	19.075	0.030000
84.473	19.042	0.030000
89.442	19.091	0.030000
94.411	19.126	0.030000
99.380	19.136	0.030000
104.349	19.133	0.030000
109.318	19.097	0.030000
114.287	19.022	0.030000
119.257	18.909	0.030000
124.226	18.902	0.030000
129.195	18.881	0.030000
134.164	18.775	0.030000
139.133	18.874	0.030000
144.102	19.104	0.030000
149.071	19.094	0.030000
154.040	19.055	0.030000
159.009	19.018	0.030000
163.978	19.046	0.030000
168.947	19.009	0.030000
173.916	18.954	0.030000
178.885	18.919	0.030000
183.854	18.894	0.030000
188.823	18.856	0.030000
193.792	18.817	0.030000
198.761	18.762	0.030000
203.730	18.744	0.030000
208.699	18.699	0.030000
213.668	18.782	0.030000
218.637	19.001	0.030000
223.606	18.922	0.030000
228.575	18.788	0.030000
233.544	18.679	0.030000
238.513	18.673	0.030000
243.482	18.759	0.030000
248.451	18.775	0.030000
253.420	18.753	0.030000
258.389	18.716	0.030000
263.358	18.662	0.030000
268.327	18.566	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

273.296	18.462	0.030000
278.265	18.400	0.030000
283.234	18.514	0.030000
288.203	18.671	0.030000
293.172	18.695	0.030000
298.141	18.558	0.030000
303.110	18.369	0.030000
308.079	18.269	0.030000
313.048	18.229	0.030000
318.017	18.317	0.030000
322.986	18.377	0.030000
327.955	18.342	0.030000
332.924	18.327	0.030000
337.893	18.391	0.030000
342.862	18.677	0.030000
347.831	18.972	0.030000
352.800	18.871	0.030000
357.769	18.593	0.030000
362.738	18.304	0.030000
367.707	18.252	0.030000
372.676	18.232	0.030000
377.646	18.177	0.030000
382.615	18.158	0.030000
387.584	18.135	0.030000
392.553	18.317	0.030000
397.522	18.589	0.030000
402.491	18.374	0.030000
407.460	18.106	0.030000
412.429	18.099	0.030000
417.398	18.161	0.030000
422.367	18.433	0.030000
427.336	18.311	0.030000
432.305	18.145	0.030000
437.274	18.375	0.030000
442.243	18.593	0.030000
447.212	18.664	0.030000
452.181	18.275	0.030000
457.150	18.010	0.030000
462.119	18.065	0.030000
467.088	18.124	0.030000
472.057	18.124	0.030000
477.026	18.046	0.030000
481.995	17.995	0.030000
486.964	17.922	0.030000
491.933	17.854	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

496.902	17.786	0.030000
501.871	17.869	0.030000
506.840	18.219	0.030000
511.809	18.628	0.030000
516.778	18.575	0.030000
521.747	18.136	0.030000
526.716	17.930	0.030000
531.685	17.814	0.030000
536.654	17.938	0.030000
541.623	18.108	0.030000
546.592	18.149	0.030000
551.561	18.208	0.030000
556.530	18.245	0.030000
561.499	18.197	0.030000
566.468	18.294	0.030000
571.437	18.133	0.030000
576.406	18.041	0.030000
581.375	18.054	0.030000
586.344	17.906	0.030000
591.313	17.843	0.030000
596.282	17.847	0.030000
601.251	17.921	0.030000
606.221	18.008	0.030000
611.189	18.384	0.030000
616.159	18.795	0.030000
621.128	18.853	0.030000
626.097	19.009	0.030000

-----

Name: XA0081E	Group: A
Encroachment: No	

-----

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	16.035	0.030000
4.971	16.085	0.030000
9.943	16.049	0.030000
14.914	16.121	0.030000
19.886	16.140	0.030000
24.857	16.186	0.030000
29.829	16.228	0.030000
34.800	16.223	0.030000
39.772	16.154	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

44.743	16.208	0.030000
49.714	16.198	0.030000
54.686	16.149	0.030000
59.657	16.205	0.030000
64.629	16.181	0.030000
69.600	16.075	0.030000
74.572	16.187	0.030000
79.543	16.185	0.030000
84.514	16.201	0.030000
89.486	16.262	0.030000
94.457	16.283	0.030000
99.429	16.340	0.030000
104.400	16.315	0.030000
109.372	16.450	0.030000
114.343	16.457	0.030000
119.314	16.567	0.030000
124.286	16.667	0.030000
129.257	16.799	0.030000
134.229	16.898	0.030000
139.200	16.955	0.030000
144.172	16.941	0.030000
149.143	16.929	0.030000
154.114	17.012	0.030000
159.086	17.008	0.030000
164.057	17.013	0.030000
169.029	17.029	0.030000
174.000	17.046	0.030000
178.972	17.064	0.030000
183.943	17.055	0.030000
188.915	17.084	0.030000
193.886	17.130	0.030000
198.857	17.172	0.030000
203.829	17.179	0.030000
208.800	17.193	0.030000
213.772	17.161	0.030000
218.743	17.157	0.030000
223.714	17.208	0.030000
228.686	17.202	0.030000
233.657	17.249	0.030000
238.629	17.258	0.030000
243.600	17.314	0.030000
248.572	17.330	0.030000
253.543	17.341	0.030000
258.515	17.379	0.030000
263.486	17.334	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

268.457	17.332	0.030000
273.429	17.324	0.030000
278.400	17.265	0.030000
283.372	17.314	0.030000
288.343	17.316	0.030000
293.315	17.291	0.030000
298.286	17.305	0.030000
303.257	17.348	0.030000
308.229	17.365	0.030000
313.200	17.310	0.030000
318.172	17.190	0.030000
323.143	17.193	0.030000
328.115	17.166	0.030000
333.086	17.096	0.030000
338.057	17.075	0.030000
343.029	17.016	0.030000
348.000	17.065	0.030000
352.972	17.175	0.030000
357.943	17.240	0.030000
362.915	17.297	0.030000
367.886	17.299	0.030000
372.858	17.282	0.030000
377.829	17.319	0.030000
382.800	17.346	0.030000
387.772	17.319	0.030000
392.743	17.317	0.030000
397.715	17.337	0.030000
402.686	17.350	0.030000
407.658	17.369	0.030000
412.629	17.389	0.030000
417.600	17.340	0.030000
422.572	17.283	0.030000
427.543	17.226	0.030000
432.515	17.180	0.030000
437.486	17.181	0.030000
441.288	17.174	0.030000
445.090	17.150	0.030000
448.891	17.179	0.030000
452.693	17.274	0.030000
456.445	17.404	0.030000
460.197	17.546	0.030000
463.949	17.349	0.030000
467.701	17.267	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XA0081F  
Encroachment: No

Group: A

Station(ft) Elevation(ft) Manning's N

0.000	17.267	0.030000
4.501	17.243	0.030000
9.002	17.240	0.030000
13.503	17.276	0.030000
18.004	17.294	0.030000
22.506	17.133	0.030000
27.278	17.682	0.030000
32.051	18.086	0.030000
36.824	18.096	0.030000
41.596	18.184	0.030000
46.369	18.124	0.030000
51.142	18.068	0.030000
55.915	17.966	0.030000
60.687	18.001	0.030000
65.460	18.026	0.030000
70.233	18.047	0.030000
75.006	18.105	0.030000
79.037	18.099	0.030000
83.068	18.065	0.030000
87.099	18.123	0.030000
91.130	17.820	0.030000
95.161	17.682	0.030000
98.597	17.744	0.030000
102.033	17.417	0.030000
105.469	17.327	0.030000
108.802	17.315	0.030000
112.136	17.228	0.030000
115.469	17.179	0.030000
119.196	17.140	0.030000
122.923	17.031	0.030000
126.649	17.011	0.030000
130.401	16.979	0.030000
134.154	16.803	0.030000
137.906	16.712	0.030000
141.658	16.656	0.030000

Name: XA0082A\_1

Group: A



Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 13.698 0.085000  
4.657 12.172 0.085000  
9.315 11.044 0.085000  
13.973 11.043 0.085000  
18.630 11.234 0.085000  
23.288 13.885 0.085000

-----  
Name: XA0082A\_2

Group: A

Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 13.351 0.085000  
4.879 10.650 0.085000  
9.758 10.650 0.085000  
14.638 10.812 0.085000  
19.517 12.009 0.085000  
24.396 13.918 0.085000

-----  
Name: XB0010B

Group: B

Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 18.252 0.030000  
4.003 18.369 0.030000  
8.007 18.374 0.030000  
12.010 18.263 0.030000  
16.522 18.154 0.030000  
21.035 18.273 0.030000  
25.547 18.337 0.030000  
30.060 18.330 0.030000  
34.572 18.376 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

39.084	18.169	0.030000
43.597	17.872	0.030000
48.456	17.798	0.030000
53.315	17.873	0.030000
58.175	17.864	0.030000
63.034	17.744	0.030000
67.893	17.703	0.030000
72.752	17.848	0.030000
77.612	18.007	0.030000
82.471	18.153	0.030000
87.330	18.084	0.030000
92.189	18.151	0.030000
97.049	18.220	0.030000
101.908	18.147	0.030000
106.767	18.119	0.030000
111.626	18.013	0.030000
116.486	17.908	0.030000
121.345	17.899	0.030000
126.204	18.068	0.030000
131.063	17.944	0.030000
135.923	17.906	0.030000
140.782	17.969	0.030000
145.641	18.149	0.030000
150.500	18.320	0.030000
155.360	18.384	0.030000
160.219	18.385	0.030000
165.078	18.369	0.030000
169.937	18.363	0.030000
174.797	18.253	0.030000
179.656	18.236	0.030000
184.515	18.319	0.030000
189.374	18.181	0.030000
194.233	18.147	0.030000
199.093	18.315	0.030000
203.952	18.297	0.030000
208.811	18.126	0.030000
213.671	18.145	0.030000
218.454	18.219	0.030000
223.238	18.252	0.030000
228.022	18.333	0.030000
232.806	18.354	0.030000
237.590	18.213	0.030000
242.374	18.044	0.030000
247.157	18.146	0.030000
251.941	18.200	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

256.725	18.270	0.030000
261.509	18.220	0.030000
266.293	18.200	0.030000
271.077	18.109	0.030000
275.860	18.134	0.030000
280.644	18.081	0.030000
285.428	18.183	0.030000
290.212	18.103	0.030000
294.996	18.070	0.030000
299.780	18.085	0.030000
304.563	18.061	0.030000
309.347	17.993	0.030000
314.131	18.014	0.030000
318.915	18.083	0.030000
323.699	18.038	0.030000
328.619	17.964	0.030000
333.539	17.972	0.030000
338.459	18.046	0.030000
343.379	18.125	0.030000
348.299	18.094	0.030000
353.219	18.019	0.030000
358.139	18.010	0.030000
363.059	18.081	0.030000
367.979	18.100	0.030000
372.899	17.998	0.030000
377.819	18.049	0.030000
382.739	18.363	0.030000
387.659	18.420	0.030000
392.579	18.270	0.030000
397.499	18.297	0.030000
402.419	18.309	0.030000
407.339	18.296	0.030000
412.259	18.451	0.030000
417.179	18.572	0.030000
422.099	18.593	0.030000
427.019	18.613	0.030000
431.939	18.654	0.030000
436.859	18.446	0.030000
441.779	18.491	0.030000
446.699	18.640	0.030000
451.619	18.641	0.030000
456.539	18.812	0.030000
461.459	19.096	0.030000
466.379	19.231	0.030000
471.299	18.831	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

476.219	18.765	0.030000
479.553	18.628	0.030000
482.886	18.596	0.030000
486.219	18.668	0.030000
488.719	18.624	0.030000
491.219	18.580	0.030000
496.219	18.626	0.030000
500.386	18.627	0.030000
504.553	18.642	0.030000
508.719	18.667	0.030000
511.219	18.684	0.030000
513.719	18.814	0.030000
518.719	18.981	0.030000
523.719	19.019	0.030000
528.719	18.974	0.030000
533.719	19.093	0.030000
536.219	19.256	0.030000
538.719	19.373	0.030000
543.719	19.569	0.030000
548.719	19.703	0.030000
553.719	19.683	0.030000
557.155	19.588	0.030000
560.591	19.473	0.030000
564.027	19.350	0.030000

-----

Name: XB0020A	Group: B
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	18.252	0.030000
4.973	17.777	0.030000
9.946	17.487	0.030000
14.919	17.472	0.030000
19.891	17.438	0.030000
24.864	17.421	0.030000
29.837	17.410	0.030000
34.810	17.404	0.030000
39.783	17.480	0.030000
44.755	17.571	0.030000
49.728	17.649	0.030000
54.701	17.903	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

59.674	18.225	0.030000
64.647	18.203	0.030000
69.620	17.955	0.030000
74.593	17.645	0.030000
79.565	17.422	0.030000
84.538	17.398	0.030000
89.511	17.340	0.030000
94.484	17.392	0.030000
99.457	17.438	0.030000
104.430	17.404	0.030000
109.402	17.603	0.030000
114.375	17.962	0.030000
119.348	18.050	0.030000
124.321	17.931	0.030000
129.294	17.869	0.030000
134.267	17.872	0.030000
139.239	17.820	0.030000
144.212	17.799	0.030000
149.185	17.705	0.030000
154.158	17.588	0.030000
159.131	17.488	0.030000
164.104	17.430	0.030000
169.076	17.403	0.030000
174.049	17.454	0.030000
179.022	17.551	0.030000
183.995	17.752	0.030000
188.968	17.960	0.030000
193.940	18.077	0.030000
198.913	17.836	0.030000
203.886	17.372	0.030000
208.859	17.296	0.030000
213.832	17.230	0.030000
218.805	17.087	0.030000
223.778	16.909	0.030000
228.750	16.570	0.030000
233.723	16.628	0.030000
238.696	16.754	0.030000
243.669	17.085	0.030000
248.642	17.341	0.030000
253.614	17.512	0.030000
258.587	17.722	0.030000
263.560	17.897	0.030000
268.533	17.950	0.030000
273.506	17.953	0.030000
278.479	18.011	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

283.452	17.968	0.030000
288.424	17.855	0.030000
293.397	17.809	0.030000
298.370	17.798	0.030000
303.343	17.616	0.030000
308.316	17.597	0.030000
313.289	17.565	0.030000
318.261	17.567	0.030000
323.234	17.564	0.030000
328.207	17.596	0.030000
333.180	17.519	0.030000
338.153	17.592	0.030000
343.125	17.569	0.030000
348.098	17.566	0.030000
353.071	17.654	0.030000
358.044	17.646	0.030000
363.017	17.672	0.030000
367.990	17.632	0.030000
372.962	17.738	0.030000
377.935	17.742	0.030000
382.908	17.705	0.030000
387.881	17.690	0.030000
392.854	17.686	0.030000
397.827	17.761	0.030000
402.800	17.500	0.030000
407.772	17.442	0.030000
412.745	17.101	0.030000
417.718	16.733	0.030000
422.691	16.573	0.030000
427.664	16.947	0.030000
432.637	17.389	0.030000
437.609	17.456	0.030000
442.582	17.539	0.030000
447.555	17.617	0.030000
452.528	17.707	0.030000
457.501	17.677	0.030000
462.474	17.658	0.030000
467.446	17.585	0.030000
472.419	17.449	0.030000
477.392	17.407	0.030000
482.365	18.002	0.030000
487.338	18.621	0.030000
492.310	18.712	0.030000
497.283	18.457	0.030000
502.256	18.470	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

507.229	18.455	0.030000
512.202	18.348	0.030000
517.175	18.269	0.030000
522.148	18.345	0.030000
527.120	18.312	0.030000
532.093	18.350	0.030000
537.066	18.396	0.030000
542.039	18.331	0.030000
547.012	18.312	0.030000
551.985	18.231	0.030000
556.957	18.134	0.030000
561.930	18.119	0.030000
566.903	18.087	0.030000
571.876	18.146	0.030000
576.849	18.134	0.030000
581.822	18.108	0.030000
586.794	18.160	0.030000
591.767	18.243	0.030000
596.740	18.441	0.030000
601.713	18.387	0.030000
606.686	18.405	0.030000
611.659	18.420	0.030000
616.631	18.422	0.030000
621.604	18.674	0.030000
626.577	18.807	0.030000
631.550	18.775	0.030000
636.523	18.771	0.030000
641.496	18.652	0.030000
646.468	18.736	0.030000
651.441	18.863	0.030000
656.414	18.978	0.030000
661.387	19.067	0.030000
666.360	19.150	0.030000
671.333	19.246	0.030000

Name: XB0030A      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.999	0.030000
4.959	16.910	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

9.917	16.854	0.030000
14.876	16.813	0.030000
19.835	16.768	0.030000
24.793	16.865	0.030000
29.752	16.853	0.030000
34.711	16.730	0.030000
39.669	16.686	0.030000
44.628	16.634	0.030000
49.587	16.656	0.030000
54.545	16.578	0.030000
59.504	16.529	0.030000
64.463	16.518	0.030000
69.422	16.500	0.030000
74.380	16.446	0.030000
79.339	16.387	0.030000
84.298	16.351	0.030000
89.256	16.303	0.030000
94.215	16.291	0.030000
99.174	16.340	0.030000
104.132	16.335	0.030000
109.091	16.331	0.030000
114.050	16.347	0.030000
119.008	16.358	0.030000
123.967	16.312	0.030000
128.926	16.243	0.030000
133.885	16.202	0.030000
138.843	16.196	0.030000
143.802	16.174	0.030000
148.761	16.145	0.030000
153.719	16.130	0.030000
158.678	16.139	0.030000
163.637	16.137	0.030000
168.595	16.109	0.030000
173.554	16.092	0.030000
178.513	16.133	0.030000
183.471	16.103	0.030000
188.430	16.011	0.030000
193.389	15.959	0.030000
198.347	15.972	0.030000
203.306	16.032	0.030000
208.265	15.991	0.030000
213.223	15.918	0.030000
218.182	15.906	0.030000
223.141	15.947	0.030000
228.099	15.935	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

233.058	15.870	0.030000
238.017	15.830	0.030000
242.976	15.855	0.030000
247.934	15.869	0.030000
252.893	15.859	0.030000
257.851	15.782	0.030000
262.810	15.726	0.030000
267.769	15.737	0.030000
272.728	15.702	0.030000
277.686	15.706	0.030000
282.645	15.734	0.030000
287.604	15.704	0.030000
292.562	15.656	0.030000
297.521	15.726	0.030000
302.480	15.666	0.030000
307.438	15.640	0.030000
312.397	15.616	0.030000
317.356	15.566	0.030000
322.314	15.527	0.030000
327.273	15.504	0.030000
332.232	15.512	0.030000
337.190	15.484	0.030000
342.149	15.470	0.030000
347.108	15.359	0.030000
352.067	15.361	0.030000
357.025	15.296	0.030000
361.984	15.309	0.030000
366.943	15.157	0.030000

Name: XB0030B      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	18.603	0.030000
4.969	18.593	0.030000
9.938	18.494	0.030000
14.908	18.409	0.030000
19.877	18.203	0.030000
24.846	18.026	0.030000
29.816	18.131	0.030000
34.785	18.316	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

39.754	18.508	0.030000
44.723	18.574	0.030000
49.693	18.501	0.030000
54.662	18.408	0.030000
59.631	18.318	0.030000
64.600	18.234	0.030000
69.570	18.150	0.030000
74.539	18.199	0.030000
79.508	18.434	0.030000
84.478	18.598	0.030000
89.447	18.730	0.030000
94.416	18.729	0.030000
99.385	18.707	0.030000
104.355	18.782	0.030000
109.324	18.874	0.030000
114.293	18.811	0.030000
119.262	18.709	0.030000
124.232	18.611	0.030000
129.201	18.576	0.030000
134.170	18.593	0.030000
139.140	18.609	0.030000
144.109	18.618	0.030000
149.078	18.633	0.030000
154.047	18.651	0.030000
159.017	18.665	0.030000
163.986	18.479	0.030000
168.955	18.277	0.030000
173.924	18.168	0.030000
178.894	18.041	0.030000
183.863	17.992	0.030000
188.809	18.071	0.030000
193.755	18.028	0.030000
198.701	18.013	0.030000
203.648	17.994	0.030000
208.594	18.061	0.030000
213.540	17.916	0.030000
218.486	17.961	0.030000
223.432	18.108	0.030000
228.378	18.200	0.030000
233.324	18.325	0.030000
238.271	18.434	0.030000

Name: XB0030C  
Encroachment: No

Group: B



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
0.000	15.157	0.030000
4.999	15.198	0.030000
9.999	15.126	0.030000
14.998	15.266	0.030000
19.998	15.508	0.030000
24.997	15.573	0.030000
29.997	15.557	0.030000
34.996	15.699	0.030000
39.996	15.851	0.030000
44.995	15.876	0.030000
49.994	15.958	0.030000
54.994	16.283	0.030000
59.993	16.380	0.030000
64.993	16.662	0.030000
69.992	16.740	0.030000
74.992	16.711	0.030000
79.991	16.678	0.030000
84.990	16.356	0.030000
89.990	16.295	0.030000
94.989	16.401	0.030000
99.989	16.419	0.030000
104.988	16.438	0.030000
109.988	16.661	0.030000
114.987	16.825	0.030000
119.987	17.039	0.030000
124.986	17.125	0.030000
129.985	16.631	0.030000
134.985	16.659	0.030000
139.984	16.611	0.030000
144.984	16.592	0.030000
149.983	16.796	0.030000
154.982	16.862	0.030000
159.982	17.193	0.030000
164.981	17.224	0.030000
169.981	17.316	0.030000
174.980	17.176	0.030000
179.980	17.053	0.030000
184.979	17.045	0.030000
189.979	16.773	0.030000
194.978	16.755	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

199.977	16.655	0.030000
204.977	16.600	0.030000
209.976	16.280	0.030000
214.976	16.048	0.030000
219.975	16.055	0.030000
224.975	15.981	0.030000
229.974	15.902	0.030000
234.974	15.933	0.030000
239.973	15.851	0.030000
244.972	16.299	0.030000
249.972	16.882	0.030000
254.971	17.163	0.030000
259.971	17.268	0.030000
264.970	16.927	0.030000
269.969	16.579	0.030000
274.969	16.644	0.030000
279.968	16.590	0.030000
284.968	16.593	0.030000
289.967	16.733	0.030000
294.967	16.760	0.030000
299.966	16.785	0.030000
304.966	16.817	0.030000
309.965	16.814	0.030000
314.964	16.812	0.030000
319.964	16.816	0.030000
324.963	16.881	0.030000
329.963	16.811	0.030000
334.962	16.999	0.030000
339.962	17.296	0.030000
344.961	17.333	0.030000
349.961	17.296	0.030000
354.960	17.133	0.030000
359.959	16.962	0.030000
364.959	16.903	0.030000
369.958	16.898	0.030000
374.958	16.959	0.030000
379.957	17.010	0.030000
384.957	17.013	0.030000
389.956	17.043	0.030000
394.955	17.076	0.030000
399.955	17.123	0.030000
404.954	17.209	0.030000
409.954	17.087	0.030000
414.953	17.054	0.030000
419.953	17.127	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

424.952	17.204	0.030000
429.952	17.234	0.030000
434.951	17.111	0.030000
439.950	17.051	0.030000
444.950	17.121	0.030000
449.949	17.185	0.030000
454.949	17.222	0.030000
459.948	17.197	0.030000
464.947	17.223	0.030000
469.947	17.198	0.030000
474.946	17.135	0.030000
479.946	17.090	0.030000
484.945	17.065	0.030000
489.945	17.100	0.030000
494.944	17.327	0.030000
499.944	17.433	0.030000
504.943	17.240	0.030000
509.943	17.206	0.030000
514.942	17.111	0.030000
519.941	17.084	0.030000
524.941	17.145	0.030000
529.940	17.266	0.030000
534.940	17.205	0.030000
539.939	17.175	0.030000
544.938	17.030	0.030000
549.938	16.709	0.030000
554.937	16.527	0.030000
559.937	16.473	0.030000
564.936	16.554	0.030000
569.936	16.554	0.030000
574.935	16.571	0.030000
579.935	16.906	0.030000
584.934	16.990	0.030000
589.933	16.938	0.030000
594.933	17.058	0.030000
599.932	17.335	0.030000
604.932	17.379	0.030000
609.931	17.343	0.030000
614.931	17.206	0.030000
619.930	17.015	0.030000
624.929	17.059	0.030000
629.929	17.122	0.030000
634.928	17.209	0.030000
639.928	17.262	0.030000
644.927	17.317	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

649.927	17.382	0.030000
654.926	17.502	0.030000
659.926	17.605	0.030000
664.925	17.595	0.030000
669.924	17.606	0.030000
674.924	17.645	0.030000
679.923	17.686	0.030000
684.923	17.709	0.030000
689.922	17.715	0.030000
694.922	17.755	0.030000
699.921	17.784	0.030000
704.920	17.813	0.030000
709.920	17.870	0.030000
714.919	17.910	0.030000
719.919	17.973	0.030000
724.918	18.037	0.030000

Name: XB0040A      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	18.037	0.030000
3.655	18.002	0.030000
7.311	17.961	0.030000
10.966	17.920	0.030000
15.316	17.890	0.030000
19.666	17.884	0.030000
24.016	17.878	0.030000
28.366	17.873	0.030000
32.717	17.881	0.030000
37.067	17.908	0.030000
41.574	17.843	0.030000
46.081	17.787	0.030000
49.414	17.787	0.030000
52.747	17.781	0.030000
56.081	17.786	0.030000
60.631	17.768	0.030000
65.181	17.765	0.030000
69.731	17.796	0.030000
74.281	17.890	0.030000
78.656	17.925	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

83.031	17.840	0.030000
87.406	17.842	0.030000
91.781	17.831	0.030000
95.508	17.808	0.030000
99.234	17.866	0.030000
102.961	17.869	0.030000
107.309	17.767	0.030000
111.657	17.784	0.030000
116.005	17.797	0.030000
120.098	17.831	0.030000
124.191	17.940	0.030000
128.284	18.038	0.030000
132.377	18.084	0.030000
135.999	18.100	0.030000
139.621	18.078	0.030000
143.243	18.084	0.030000
147.372	18.162	0.030000
151.501	18.150	0.030000
155.631	18.084	0.030000
160.208	18.085	0.030000
164.784	18.278	0.030000
169.361	18.440	0.030000
173.937	18.624	0.030000
178.513	18.641	0.030000
182.967	18.524	0.030000
187.421	18.388	0.030000
191.875	18.282	0.030000
196.328	18.102	0.030000
201.050	18.004	0.030000
205.773	18.011	0.030000
210.495	17.923	0.030000
215.217	18.007	0.030000
219.939	18.048	0.030000
224.661	18.058	0.030000
229.384	18.066	0.030000
234.106	18.091	0.030000
238.828	18.162	0.030000
242.781	18.189	0.030000
246.734	18.111	0.030000
250.687	18.186	0.030000
254.640	18.214	0.030000
258.763	18.084	0.030000
262.886	17.830	0.030000
267.009	17.906	0.030000
271.132	17.942	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

275.255	18.006	0.030000
278.588	18.082	0.030000
281.922	18.255	0.030000
285.255	18.365	0.030000
289.734	18.469	0.030000
294.213	18.492	0.030000
298.692	18.439	0.030000
303.171	18.444	0.030000
307.650	18.439	0.030000
312.129	18.517	0.030000
316.608	18.562	0.030000
321.087	18.571	0.030000
325.566	18.499	0.030000
328.900	18.384	0.030000
332.233	18.226	0.030000
335.566	18.264	0.030000
340.328	18.291	0.030000
345.090	18.308	0.030000
349.852	18.342	0.030000
354.614	18.172	0.030000
359.376	18.188	0.030000
364.138	18.440	0.030000
368.900	18.701	0.030000
373.662	18.476	0.030000
378.423	18.051	0.030000
383.185	18.054	0.030000
387.947	18.086	0.030000
392.709	18.131	0.030000
397.471	18.415	0.030000
402.233	18.602	0.030000
406.995	18.612	0.030000
411.757	18.558	0.030000
416.519	18.535	0.030000
421.281	18.508	0.030000
426.043	18.401	0.030000
430.805	18.409	0.030000
435.566	18.369	0.030000
439.815	18.344	0.030000
444.065	18.417	0.030000
448.314	18.349	0.030000
453.173	18.206	0.030000
458.032	18.215	0.030000
462.891	18.413	0.030000
466.693	18.622	0.030000
470.495	18.767	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

474.296	18.863	0.030000
478.098	18.994	0.030000
481.432	19.132	0.030000
484.765	19.207	0.030000
488.098	19.143	0.030000
492.570	19.009	0.030000
497.043	18.881	0.030000
501.515	18.962	0.030000
506.266	18.965	0.030000
511.018	18.806	0.030000
515.769	18.651	0.030000
520.521	18.485	0.030000
524.248	18.315	0.030000
527.975	18.266	0.030000
531.702	18.262	0.030000
535.702	18.262	0.030000
539.702	18.262	0.030000
543.702	18.263	0.030000
547.702	18.259	0.030000
551.702	18.296	0.030000
555.654	18.315	0.030000
559.607	18.254	0.030000
563.560	18.192	0.030000
567.513	18.172	0.030000
570.846	18.179	0.030000
574.180	18.204	0.030000
577.513	18.198	0.030000
581.240	18.184	0.030000
584.967	18.179	0.030000
588.693	18.181	0.030000
592.129	18.193	0.030000
595.565	18.233	0.030000
599.001	18.231	0.030000
604.001	18.230	0.030000
609.001	18.230	0.030000
614.001	18.229	0.030000
618.032	18.224	0.030000
622.063	18.296	0.030000
626.094	18.369	0.030000
630.125	18.443	0.030000
634.157	18.516	0.030000
638.505	18.591	0.030000
642.852	18.664	0.030000
647.200	18.683	0.030000
650.591	18.717	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

653.982	18.759	0.030000
657.372	18.791	0.030000
660.808	18.812	0.030000
664.244	18.825	0.030000
667.680	18.838	0.030000
671.116	18.883	0.030000
674.552	18.901	0.030000
677.988	18.896	0.030000
682.988	18.940	0.030000
687.988	18.985	0.030000
692.336	18.992	0.030000
696.684	18.997	0.030000
701.032	19.002	0.030000
705.281	19.034	0.030000
709.530	19.066	0.030000
713.779	19.098	0.030000
718.029	19.127	0.030000
721.362	19.121	0.030000
724.695	19.111	0.030000
728.029	19.102	0.030000
731.830	19.131	0.030000
735.632	19.160	0.030000
739.434	19.189	0.030000
743.235	19.219	0.030000
748.045	19.252	0.030000
752.855	19.282	0.030000
757.665	19.312	0.030000
762.474	19.334	0.030000
767.331	19.254	0.030000
772.187	19.104	0.030000
777.043	19.075	0.030000
781.899	18.990	0.030000
786.755	19.053	0.030000
791.612	19.076	0.030000
796.468	19.101	0.030000
800.597	19.094	0.030000
804.727	19.079	0.030000
808.856	19.111	0.030000
812.392	19.158	0.030000
815.927	19.158	0.030000
819.463	19.159	0.030000
824.218	19.148	0.030000
828.972	19.178	0.030000
833.727	19.224	0.030000
838.482	19.272	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

843.237	19.321	0.030000
847.992	19.369	0.030000
852.746	19.417	0.030000
857.501	19.466	0.030000
862.256	19.514	0.030000
866.301	19.533	0.030000
870.345	19.552	0.030000
874.390	19.582	0.030000
878.804	19.675	0.030000
883.218	19.769	0.030000
887.633	19.677	0.030000
892.048	19.663	0.030000
895.774	19.728	0.030000
899.501	19.782	0.030000
903.228	19.863	0.030000
906.978	19.890	0.030000
910.728	19.761	0.030000
914.478	19.736	0.030000
918.228	19.765	0.030000
923.049	19.785	0.030000
927.870	19.754	0.030000
932.691	19.731	0.030000
937.513	19.754	0.030000
942.334	19.794	0.030000
947.155	19.803	0.030000
951.976	19.789	0.030000
956.797	19.751	0.030000
961.619	19.684	0.030000
966.440	19.712	0.030000
971.261	19.720	0.030000
974.796	19.711	0.030000
978.332	19.702	0.030000
981.867	19.691	0.030000
986.410	19.657	0.030000
990.952	19.643	0.030000
995.495	19.650	0.030000
1000.038	19.672	0.030000
1004.580	19.685	0.030000

Name: XB0040B  
Encroachment: No

Group: B

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
0.000	19.092	0.030000
4.888	18.965	0.030000
9.775	18.865	0.030000
14.663	18.801	0.030000
19.551	18.762	0.030000
24.438	18.841	0.030000
29.326	18.959	0.030000
34.214	19.039	0.030000
39.102	19.131	0.030000
43.989	19.018	0.030000
48.877	18.641	0.030000
53.764	18.479	0.030000
58.652	18.614	0.030000
63.540	18.668	0.030000
68.428	18.654	0.030000
73.315	18.564	0.030000
78.203	18.639	0.030000
83.091	18.747	0.030000
87.978	18.672	0.030000
92.866	19.086	0.030000
97.754	18.802	0.030000
102.641	18.587	0.030000
107.529	18.825	0.030000
111.696	18.868	0.030000
115.862	18.893	0.030000
120.029	18.891	0.030000
124.092	18.899	0.030000
128.154	18.897	0.030000
132.217	18.615	0.030000
136.279	18.562	0.030000
140.342	18.752	0.030000
144.404	18.894	0.030000
148.467	18.855	0.030000
152.529	18.795	0.030000
157.325	19.006	0.030000
162.122	18.711	0.030000
166.918	18.657	0.030000
171.714	18.724	0.030000
176.571	18.853	0.030000
181.429	19.017	0.030000
186.286	18.939	0.030000
191.143	18.672	0.030000
196.001	18.639	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

200.858	18.627	0.030000
205.715	18.469	0.030000
210.573	18.249	0.030000
215.430	17.956	0.030000
220.288	17.968	0.030000
225.145	18.126	0.030000
230.003	18.196	0.030000
234.860	18.305	0.030000
239.717	18.450	0.030000
244.575	18.441	0.030000
249.432	18.419	0.030000
254.289	18.599	0.030000
259.147	18.645	0.030000
264.004	18.570	0.030000
268.862	18.507	0.030000
273.719	18.544	0.030000

Name: XB0040C                      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	19.092	0.030000
4.384	18.950	0.030000
8.769	18.732	0.030000
13.153	18.579	0.030000
17.537	18.615	0.030000
21.922	18.541	0.030000
26.503	18.554	0.030000
31.084	18.612	0.030000
35.665	18.777	0.030000
40.665	18.933	0.030000
45.665	19.286	0.030000
50.665	19.345	0.030000
55.310	19.333	0.030000
59.954	19.284	0.030000
64.599	19.244	0.030000
69.243	19.192	0.030000
73.887	19.272	0.030000
78.532	19.317	0.030000
83.176	19.231	0.030000
87.821	19.152	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

92.465	18.988	0.030000
96.880	18.938	0.030000
101.294	18.880	0.030000
105.709	18.923	0.030000
110.123	18.938	0.030000
114.552	18.954	0.030000
118.982	18.971	0.030000
122.539	19.083	0.030000
126.096	19.298	0.030000
129.653	19.396	0.030000
134.256	19.520	0.030000
138.858	19.628	0.030000
143.636	19.622	0.030000
148.414	19.617	0.030000
153.192	19.613	0.030000
157.970	19.610	0.030000
162.749	19.609	0.030000
167.527	19.608	0.030000
172.305	19.608	0.030000
177.083	19.606	0.030000
181.861	19.603	0.030000
186.639	19.598	0.030000
191.417	19.593	0.030000
194.853	19.568	0.030000
198.289	19.575	0.030000
201.725	19.583	0.030000
205.452	19.589	0.030000
209.179	19.595	0.030000
212.905	19.602	0.030000
217.335	19.606	0.030000
221.764	19.611	0.030000
225.321	19.613	0.030000
228.879	19.616	0.030000
232.436	19.618	0.030000
236.565	19.622	0.030000
240.695	19.627	0.030000
244.824	19.631	0.030000
248.360	19.634	0.030000
251.895	19.638	0.030000
255.431	19.641	0.030000
260.221	19.652	0.030000
265.011	19.662	0.030000
269.801	19.673	0.030000
274.591	19.684	0.030000
279.381	19.695	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

284.171	19.706	0.030000
288.961	19.716	0.030000
293.751	19.728	0.030000
298.541	19.738	0.030000
303.331	19.786	0.030000
308.121	19.769	0.030000
311.475	19.770	0.030000
314.829	19.771	0.030000
318.183	19.772	0.030000
322.733	19.769	0.030000
327.283	19.767	0.030000
331.833	19.764	0.030000
336.384	19.762	0.030000
340.550	19.746	0.030000
344.717	19.730	0.030000
348.884	19.726	0.030000
353.303	19.723	0.030000
357.722	19.730	0.030000
362.142	19.746	0.030000
366.561	19.768	0.030000
371.561	19.785	0.030000
376.561	19.789	0.030000
381.561	19.778	0.030000
386.561	19.764	0.030000
390.363	19.744	0.030000
394.165	19.726	0.030000
397.966	19.708	0.030000
401.768	19.692	0.030000
405.204	19.653	0.030000
408.640	19.626	0.030000
412.076	19.621	0.030000
415.512	19.624	0.030000
418.948	19.634	0.030000
422.384	19.631	0.030000
426.134	19.627	0.030000
429.884	19.627	0.030000
433.634	19.712	0.030000
437.384	19.727	0.030000
440.820	19.729	0.030000
444.255	19.707	0.030000
447.691	19.711	0.030000
452.551	19.719	0.030000
457.410	19.724	0.030000
462.269	19.743	0.030000
466.518	19.750	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

470.767	19.702	0.030000
475.016	19.616	0.030000
479.523	19.624	0.030000
484.030	19.714	0.030000
487.652	19.704	0.030000
491.274	19.706	0.030000
494.896	19.698	0.030000
499.325	19.705	0.030000
503.754	19.710	0.030000
508.102	19.702	0.030000
512.450	19.698	0.030000
516.798	19.677	0.030000
521.553	19.666	0.030000
526.307	19.508	0.030000
531.062	19.360	0.030000
535.550	19.500	0.030000
540.037	19.576	0.030000
544.525	19.579	0.030000
547.858	19.586	0.030000
551.192	19.589	0.030000
554.525	19.598	0.030000
558.826	19.567	0.030000
563.126	19.504	0.030000
567.427	19.445	0.030000
571.727	19.428	0.030000
576.028	19.302	0.030000
580.328	19.333	0.030000
584.629	19.405	0.030000
588.164	19.363	0.030000
591.700	19.386	0.030000
595.236	19.449	0.030000
599.485	19.423	0.030000
603.734	19.410	0.030000
607.983	19.412	0.030000
611.936	19.386	0.030000
615.889	19.408	0.030000
619.842	19.316	0.030000
623.794	19.291	0.030000
628.385	19.362	0.030000
632.975	19.380	0.030000
637.566	19.328	0.030000
642.156	19.379	0.030000
646.746	19.422	0.030000
651.337	19.476	0.030000
655.278	19.475	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

659.219	19.384	0.030000
663.161	19.398	0.030000
667.192	19.388	0.030000
671.223	19.343	0.030000
675.254	19.367	0.030000
679.285	19.413	0.030000
683.316	19.428	0.030000
687.995	19.428	0.030000
692.673	19.414	0.030000
697.352	19.380	0.030000
702.031	19.376	0.030000
706.709	19.372	0.030000
711.388	19.404	0.030000
716.066	19.407	0.030000
720.745	19.397	0.030000
725.423	19.378	0.030000
730.102	19.393	0.030000
734.780	19.438	0.030000
739.459	19.417	0.030000
744.138	19.430	0.030000
748.816	19.448	0.030000
753.495	19.457	0.030000
758.495	19.430	0.030000
763.495	19.395	0.030000
767.661	19.377	0.030000
771.828	19.444	0.030000
775.995	19.628	0.030000
780.919	19.648	0.030000
785.844	19.427	0.030000
790.768	19.296	0.030000
795.692	19.159	0.030000
800.617	18.943	0.030000
805.046	19.004	0.030000
809.475	18.963	0.030000
813.823	18.883	0.030000
818.171	18.897	0.030000
822.519	18.844	0.030000
826.321	18.919	0.030000
830.122	19.076	0.030000
833.924	19.085	0.030000
837.726	19.235	0.030000
842.580	19.502	0.030000
847.433	19.763	0.030000
852.287	19.796	0.030000
857.140	19.775	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

861.994	19.773	0.030000
866.848	19.738	0.030000
871.701	19.630	0.030000
876.555	19.600	0.030000
881.409	19.690	0.030000
886.262	19.685	0.030000

-----

Name: XB0050B	Group: B
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	19.685	0.030000
3.817	19.667	0.030000
7.635	19.643	0.030000
11.453	19.600	0.030000
15.270	19.651	0.030000
20.270	19.733	0.030000
25.270	19.738	0.030000
30.270	19.724	0.030000
34.656	19.730	0.030000
39.042	19.772	0.030000
43.428	19.829	0.030000
47.815	19.879	0.030000
52.201	19.929	0.030000
56.587	19.979	0.030000
60.973	20.063	0.030000
65.359	20.050	0.030000
70.359	20.058	0.030000
75.359	19.934	0.030000
79.847	19.848	0.030000
84.335	19.755	0.030000
88.822	19.631	0.030000
93.071	19.818	0.030000
97.320	20.089	0.030000
101.570	20.252	0.030000
106.077	20.267	0.030000
110.584	20.260	0.030000
114.750	20.258	0.030000
118.917	20.256	0.030000
123.084	20.254	0.030000
127.207	20.176	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

131.330	19.966	0.030000
135.453	19.647	0.030000
139.576	19.582	0.030000
143.699	19.590	0.030000
147.948	19.630	0.030000
152.197	19.688	0.030000
156.447	19.738	0.030000
160.696	19.722	0.030000
164.945	19.776	0.030000
169.194	19.798	0.030000
172.630	19.795	0.030000
176.066	19.822	0.030000
179.502	19.839	0.030000
182.835	19.841	0.030000
186.169	19.843	0.030000
189.502	19.845	0.030000
193.689	19.860	0.030000
197.877	19.874	0.030000
202.064	19.889	0.030000
206.252	19.905	0.030000
210.439	19.922	0.030000
214.627	19.965	0.030000
219.627	20.049	0.030000
224.627	20.074	0.030000
228.579	20.055	0.030000
232.532	20.051	0.030000
236.485	20.036	0.030000
241.396	19.979	0.030000
246.306	20.026	0.030000
251.217	19.995	0.030000
255.601	19.892	0.030000
259.985	19.772	0.030000
264.370	19.749	0.030000
268.754	19.603	0.030000
273.138	19.509	0.030000
276.574	19.488	0.030000
280.010	19.406	0.030000
283.446	19.369	0.030000
287.248	19.387	0.030000
291.049	19.498	0.030000
294.851	19.410	0.030000
298.653	19.320	0.030000
302.902	19.284	0.030000
307.151	19.161	0.030000
311.400	18.878	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

315.649	18.964	0.030000
320.137	18.887	0.030000
324.625	18.798	0.030000
327.958	18.759	0.030000
331.291	18.849	0.030000
334.625	18.899	0.030000
337.958	18.837	0.030000
341.291	18.758	0.030000
344.625	18.725	0.030000
348.375	18.762	0.030000
352.125	18.781	0.030000
355.875	19.122	0.030000
359.625	19.031	0.030000
363.061	19.042	0.030000
366.497	19.029	0.030000
369.933	19.034	0.030000
374.233	18.990	0.030000
378.534	18.927	0.030000
382.834	18.914	0.030000
387.135	19.018	0.030000
391.435	18.906	0.030000
395.736	18.759	0.030000
400.036	18.674	0.030000
404.585	18.620	0.030000
409.134	18.500	0.030000
413.683	18.472	0.030000
418.232	18.444	0.030000
422.781	18.379	0.030000
427.329	18.289	0.030000
431.878	18.224	0.030000
435.923	18.270	0.030000
439.967	18.248	0.030000
444.012	18.251	0.030000
447.448	18.275	0.030000
450.884	18.277	0.030000
454.319	18.295	0.030000
458.734	18.356	0.030000
463.148	18.345	0.030000
467.563	18.401	0.030000
471.978	18.396	0.030000
476.465	18.353	0.030000
480.953	18.454	0.030000
485.440	18.472	0.030000
489.928	18.507	0.030000
494.416	18.551	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

498.142	18.533	0.030000
501.869	18.535	0.030000
505.596	18.501	0.030000
509.323	18.457	0.030000
513.049	18.430	0.030000
516.776	18.520	0.030000
520.675	18.529	0.030000
524.574	18.330	0.030000
528.473	18.412	0.030000
532.821	18.331	0.030000
537.168	18.279	0.030000
541.516	18.285	0.030000
545.864	18.315	0.030000
550.212	18.429	0.030000
554.560	18.514	0.030000
558.897	18.401	0.030000
563.233	18.267	0.030000
567.570	18.143	0.030000
571.906	18.122	0.030000
576.243	18.079	0.030000
579.970	18.053	0.030000
583.696	18.049	0.030000
587.423	18.004	0.030000
591.771	18.015	0.030000
596.119	18.040	0.030000
600.467	17.935	0.030000
605.436	17.937	0.030000
610.405	17.945	0.030000
615.374	17.914	0.030000
618.931	17.945	0.030000
622.489	17.915	0.030000
626.046	17.868	0.030000
629.603	17.852	0.030000
633.160	17.852	0.030000
636.718	17.850	0.030000
641.066	17.772	0.030000
645.414	17.740	0.030000
649.761	17.776	0.030000
653.714	17.818	0.030000
657.667	17.943	0.030000
661.620	18.430	0.030000
665.573	18.558	0.030000
670.002	18.341	0.030000
674.431	18.226	0.030000
677.989	18.144	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

681.546	18.064	0.030000
685.103	18.018	0.030000
689.451	17.828	0.030000
693.799	17.778	0.030000
698.147	17.834	0.030000
701.874	17.737	0.030000
705.601	17.708	0.030000
709.327	17.769	0.030000
712.863	17.847	0.030000
716.398	17.902	0.030000
719.934	17.944	0.030000
724.793	17.933	0.030000
729.652	17.907	0.030000
734.511	17.866	0.030000
738.634	17.933	0.030000
742.758	18.005	0.030000
746.881	18.012	0.030000
751.004	17.968	0.030000
755.127	17.968	0.030000
759.080	18.052	0.030000
763.033	18.155	0.030000
766.985	18.150	0.030000
770.938	18.115	0.030000
774.891	18.050	0.030000
778.844	18.016	0.030000
782.797	18.031	0.030000
786.750	18.100	0.030000
790.702	18.360	0.030000
794.655	18.808	0.030000
798.608	18.863	0.030000
802.561	18.950	0.030000
806.163	19.080	0.030000
809.764	18.967	0.030000
813.366	18.551	0.030000

-----

Name: XB0050C	Group: B
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	14.758	0.030000
4.964	14.772	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

9.927	14.814	0.030000
14.891	14.840	0.030000
19.854	14.762	0.030000
24.818	14.769	0.030000
29.782	14.779	0.030000
34.745	14.906	0.030000
39.709	14.998	0.030000
44.672	14.932	0.030000
49.636	14.822	0.030000
54.599	14.589	0.030000
59.563	14.498	0.030000
64.527	14.506	0.030000
69.490	14.443	0.030000
74.454	14.484	0.030000
79.418	14.522	0.030000
84.381	14.527	0.030000
89.345	14.668	0.030000
94.308	14.743	0.030000
99.272	14.687	0.030000
104.235	14.736	0.030000
108.726	14.692	0.030000
113.216	14.667	0.030000
117.706	14.654	0.030000
122.196	14.607	0.030000
126.686	14.605	0.030000
131.176	14.605	0.030000
135.666	14.635	0.030000
140.156	14.575	0.030000
144.646	14.466	0.030000
149.635	14.472	0.030000
154.624	14.459	0.030000
159.614	14.508	0.030000
164.603	14.383	0.030000
169.592	14.443	0.030000
174.581	14.429	0.030000
179.571	14.443	0.030000
184.560	14.323	0.030000
189.549	14.315	0.030000
194.539	14.371	0.030000
199.021	14.427	0.030000
203.504	14.477	0.030000
207.986	14.529	0.030000
212.469	14.528	0.030000
216.952	14.632	0.030000
221.434	14.647	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

225.917	14.649	0.030000
230.399	14.700	0.030000
234.882	14.693	0.030000
239.571	14.788	0.030000
244.261	14.838	0.030000
248.950	14.839	0.030000
253.640	14.925	0.030000
258.329	14.972	0.030000
263.019	15.004	0.030000
267.708	15.127	0.030000
272.398	15.147	0.030000
277.087	15.077	0.030000
281.777	15.102	0.030000
286.696	15.141	0.030000
291.615	15.163	0.030000
296.534	15.147	0.030000
301.453	15.134	0.030000
306.372	15.191	0.030000
311.291	15.223	0.030000
316.210	15.256	0.030000
321.129	15.221	0.030000
326.048	15.297	0.030000
330.967	15.271	0.030000
335.886	15.242	0.030000
340.805	15.270	0.030000
345.724	15.178	0.030000
350.643	15.107	0.030000
355.562	15.173	0.030000
360.481	15.215	0.030000
365.400	15.194	0.030000
370.319	15.234	0.030000
375.238	15.231	0.030000
380.157	15.247	0.030000
385.140	15.260	0.030000
390.122	15.280	0.030000
395.105	15.275	0.030000
400.087	15.332	0.030000
405.070	15.410	0.030000
410.052	15.325	0.030000
415.034	15.375	0.030000
420.017	15.352	0.030000
424.999	15.371	0.030000
429.982	15.393	0.030000
434.964	15.427	0.030000
439.947	15.450	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

444.929	15.391	0.030000
449.911	15.416	0.030000
454.894	15.504	0.030000
459.876	15.450	0.030000
464.859	15.452	0.030000
469.841	15.451	0.030000
474.824	15.492	0.030000
479.806	15.431	0.030000
484.788	15.435	0.030000
489.771	15.398	0.030000
494.753	15.411	0.030000
499.736	15.355	0.030000
504.718	15.248	0.030000
509.700	15.286	0.030000
514.683	15.242	0.030000
519.665	15.209	0.030000
524.648	15.207	0.030000
529.630	15.320	0.030000
534.613	15.216	0.030000
539.595	15.277	0.030000
544.577	15.229	0.030000
549.560	15.187	0.030000
554.542	15.167	0.030000
559.525	15.263	0.030000
564.507	15.218	0.030000
569.490	15.160	0.030000
574.472	15.168	0.030000
579.455	15.170	0.030000
584.437	15.209	0.030000
589.419	15.242	0.030000
594.402	15.302	0.030000
599.384	15.434	0.030000
604.367	15.668	0.030000
609.349	15.918	0.030000
614.331	16.051	0.030000
619.314	15.723	0.030000
624.296	15.444	0.030000
629.279	15.468	0.030000
634.261	15.440	0.030000
639.244	15.413	0.030000
644.226	15.389	0.030000
649.208	15.376	0.030000
654.191	15.391	0.030000
659.173	15.488	0.030000
664.156	15.565	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

669.138	15.560	0.030000
674.121	15.610	0.030000
679.103	15.714	0.030000
684.085	15.703	0.030000
689.068	15.698	0.030000
694.050	15.718	0.030000
699.033	15.745	0.030000
704.015	15.746	0.030000
708.997	15.734	0.030000
713.980	15.736	0.030000
718.962	15.773	0.030000
723.945	15.797	0.030000
728.927	15.795	0.030000
733.910	15.795	0.030000
738.892	15.815	0.030000
743.875	15.843	0.030000
748.857	15.868	0.030000
753.839	15.897	0.030000
758.822	15.897	0.030000
763.804	15.904	0.030000
768.787	15.935	0.030000
773.769	15.943	0.030000
778.751	15.924	0.030000
783.734	15.921	0.030000
788.716	15.925	0.030000
793.699	15.923	0.030000
798.681	15.951	0.030000
803.664	15.944	0.030000
808.646	15.889	0.030000
813.629	15.938	0.030000
818.611	15.946	0.030000
823.593	15.911	0.030000
828.576	15.930	0.030000
833.558	15.916	0.030000
838.541	15.881	0.030000
843.523	15.869	0.030000
848.505	15.908	0.030000
853.488	15.948	0.030000
858.470	15.947	0.030000
863.453	15.947	0.030000
868.435	15.956	0.030000
873.418	15.952	0.030000
878.400	15.959	0.030000
883.382	15.982	0.030000
888.365	16.016	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

893.347	16.090	0.030000
898.330	16.202	0.030000
903.312	16.267	0.030000
908.295	16.274	0.030000
913.277	16.221	0.030000
918.259	16.122	0.030000
923.242	16.063	0.030000
928.224	16.067	0.030000
933.207	16.079	0.030000
938.189	16.044	0.030000
943.172	16.075	0.030000
948.154	16.095	0.030000
953.136	16.124	0.030000
958.119	16.125	0.030000
963.101	16.116	0.030000
968.084	16.033	0.030000
973.066	15.938	0.030000
978.048	15.892	0.030000
983.031	15.915	0.030000
988.013	16.033	0.030000
992.996	16.092	0.030000
997.978	16.146	0.030000
1002.961	16.192	0.030000
1007.943	16.291	0.030000
1012.926	16.361	0.030000
1017.908	16.479	0.030000
1022.890	16.530	0.030000
1027.873	16.604	0.030000
1032.855	16.627	0.030000
1037.838	16.611	0.030000
1042.820	16.604	0.030000
1047.803	16.610	0.030000
1052.785	16.641	0.030000
1057.767	16.630	0.030000
1062.750	16.640	0.030000
1067.732	16.612	0.030000
1072.715	16.641	0.030000
1077.697	16.629	0.030000
1082.680	16.659	0.030000
1087.662	16.655	0.030000
1092.644	16.619	0.030000
1097.627	16.644	0.030000
1102.609	16.637	0.030000
1107.592	16.618	0.030000
1112.574	16.614	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1117.556	16.576	0.030000
1122.539	16.594	0.030000
1127.521	16.584	0.030000
1132.504	16.546	0.030000
1137.486	16.450	0.030000
1142.469	16.407	0.030000
1147.451	16.394	0.030000
1152.433	16.372	0.030000
1157.416	16.346	0.030000
1162.398	16.318	0.030000
1167.381	16.270	0.030000
1172.363	16.263	0.030000
1177.346	16.377	0.030000
1182.328	16.351	0.030000
1187.310	16.091	0.030000
1192.293	16.090	0.030000
1197.275	16.085	0.030000
1202.258	16.444	0.030000
1207.240	16.232	0.030000
1212.223	16.172	0.030000
1217.205	16.118	0.030000
1222.187	16.157	0.030000
1227.170	16.194	0.030000
1232.152	16.513	0.030000
1237.135	17.084	0.030000
1242.117	17.327	0.030000
1247.100	17.584	0.030000
1252.082	17.813	0.030000
1257.064	18.007	0.030000
1262.047	18.233	0.030000
1267.029	18.404	0.030000
1272.012	18.509	0.030000
1276.994	18.554	0.030000
1281.977	18.498	0.030000
1286.959	18.495	0.030000
1291.941	18.637	0.030000
1296.924	18.594	0.030000
1301.906	18.708	0.030000
1306.889	18.733	0.030000
1311.871	18.818	0.030000
1316.853	18.758	0.030000
1321.836	18.680	0.030000
1326.818	18.623	0.030000
1331.801	18.596	0.030000
1336.783	18.528	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1341.766	18.484	0.030000
1346.748	18.501	0.030000
1351.730	18.508	0.030000
1356.713	18.456	0.030000
1361.695	18.293	0.030000
1366.678	18.401	0.030000
1371.660	18.557	0.030000
1376.643	18.925	0.030000
1381.625	18.753	0.030000
1386.607	18.598	0.030000
1391.590	18.597	0.030000
1396.572	18.388	0.030000
1401.555	18.337	0.030000
1406.537	18.458	0.030000
1411.520	18.508	0.030000
1416.502	18.497	0.030000
1421.484	18.328	0.030000
1426.467	18.378	0.030000
1431.449	18.851	0.030000
1436.432	19.520	0.030000
1441.414	19.888	0.030000
1446.397	18.722	0.030000
1451.379	18.212	0.030000
1456.361	18.302	0.030000
1461.344	18.085	0.030000
1466.326	18.156	0.030000
1471.124	18.279	0.030000
1475.922	18.167	0.030000
1480.719	18.109	0.030000
1485.517	18.116	0.030000
1490.315	18.059	0.030000
1495.113	18.034	0.030000
1499.910	17.923	0.030000
1504.708	17.949	0.030000
1509.506	17.968	0.030000
1514.304	17.956	0.030000
1519.101	18.022	0.030000
1523.899	18.141	0.030000

---

Name: XB0050D                      Group: B  
Encroachment: No



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
0.000	14.847	0.030000
4.965	14.752	0.030000
9.930	14.537	0.030000
14.895	14.441	0.030000
19.860	14.446	0.030000
24.826	14.507	0.030000
29.791	14.528	0.030000
34.756	14.562	0.030000
39.721	14.630	0.030000
44.686	14.666	0.030000
49.651	14.706	0.030000
54.617	14.763	0.030000
59.582	14.772	0.030000
64.547	14.830	0.030000
69.512	14.927	0.030000
74.477	14.871	0.030000
79.442	14.952	0.030000
84.407	15.020	0.030000
89.373	14.991	0.030000
94.338	14.995	0.030000
99.303	15.072	0.030000
104.268	15.126	0.030000
109.233	15.112	0.030000
114.198	15.174	0.030000
119.163	15.200	0.030000
124.128	15.143	0.030000
129.094	15.238	0.030000
134.059	15.333	0.030000
139.024	15.390	0.030000
143.989	15.396	0.030000
148.954	15.500	0.030000
153.919	15.447	0.030000
158.884	15.537	0.030000
163.850	15.489	0.030000
168.815	15.660	0.030000
173.780	15.673	0.030000
178.745	15.678	0.030000
183.710	15.706	0.030000
188.675	15.806	0.030000
193.640	15.820	0.030000
198.606	15.884	0.030000
203.571	15.883	0.030000
208.536	15.871	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

213.501	15.748	0.030000
218.466	15.695	0.030000
223.431	15.786	0.030000
228.396	15.876	0.030000
233.361	15.961	0.030000
238.327	16.067	0.030000
243.292	16.405	0.030000
248.257	16.735	0.030000
253.242	16.729	0.030000
258.228	16.661	0.030000
263.213	16.600	0.030000
268.198	16.533	0.030000
273.184	16.527	0.030000
278.169	16.668	0.030000
283.154	16.614	0.030000
288.140	16.679	0.030000
293.125	16.739	0.030000
298.110	16.596	0.030000
303.096	16.630	0.030000
308.081	16.716	0.030000
313.067	16.703	0.030000
318.052	16.616	0.030000
323.037	16.643	0.030000
328.023	16.586	0.030000
333.008	16.522	0.030000
337.993	16.480	0.030000
342.979	16.530	0.030000
347.964	16.586	0.030000
352.949	16.516	0.030000
357.935	16.470	0.030000
362.920	16.502	0.030000
367.906	16.530	0.030000
372.891	16.550	0.030000
377.876	16.676	0.030000
382.862	16.714	0.030000
387.847	16.712	0.030000
392.832	16.714	0.030000
397.818	16.752	0.030000
402.803	16.743	0.030000
407.788	16.675	0.030000
412.774	16.779	0.030000
417.759	16.887	0.030000
422.745	16.752	0.030000
427.730	16.816	0.030000
432.715	16.979	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

437.701	17.011	0.030000
442.686	16.992	0.030000
447.671	16.880	0.030000
452.657	17.064	0.030000
457.642	17.118	0.030000
462.627	17.012	0.030000
467.613	16.995	0.030000
472.598	16.902	0.030000
477.584	16.842	0.030000
482.569	16.818	0.030000
487.554	16.828	0.030000
492.540	16.898	0.030000
497.525	16.952	0.030000
502.510	16.845	0.030000
507.496	16.833	0.030000
512.481	16.859	0.030000
517.466	16.813	0.030000
522.452	16.781	0.030000
527.437	16.830	0.030000
532.423	16.794	0.030000
537.408	16.759	0.030000
542.393	16.824	0.030000
547.379	16.794	0.030000
552.364	16.718	0.030000
557.349	16.733	0.030000
562.335	16.739	0.030000
567.320	16.658	0.030000
572.305	16.691	0.030000
577.291	16.786	0.030000
582.276	16.816	0.030000
587.261	16.742	0.030000
592.247	17.010	0.030000
597.232	17.229	0.030000
602.218	17.227	0.030000
607.203	17.301	0.030000
612.188	17.198	0.030000
617.174	16.942	0.030000
622.159	16.762	0.030000
627.144	16.801	0.030000
632.130	16.708	0.030000
637.115	16.762	0.030000
642.101	16.796	0.030000
647.086	16.769	0.030000
652.071	16.711	0.030000
657.057	16.734	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

662.042	16.748	0.030000
667.027	16.782	0.030000
672.013	16.749	0.030000
676.998	16.745	0.030000
681.983	16.739	0.030000
686.969	16.616	0.030000
691.954	16.676	0.030000
696.939	16.675	0.030000
701.925	16.717	0.030000
706.910	16.602	0.030000
711.896	16.841	0.030000
716.881	16.888	0.030000
721.866	17.183	0.030000
726.852	17.339	0.030000
731.837	17.109	0.030000
736.822	16.766	0.030000
741.808	16.762	0.030000
746.793	16.725	0.030000
751.779	16.677	0.030000
756.764	16.749	0.030000
761.749	16.700	0.030000
766.735	16.694	0.030000
771.720	16.788	0.030000
776.705	16.786	0.030000
781.691	16.694	0.030000
786.676	16.752	0.030000
791.661	16.832	0.030000
796.647	16.786	0.030000
801.632	16.854	0.030000
806.617	16.778	0.030000
811.603	16.862	0.030000
816.588	16.946	0.030000
821.574	16.863	0.030000
826.559	16.814	0.030000
831.544	16.820	0.030000
836.530	16.964	0.030000
841.515	17.074	0.030000
846.500	16.993	0.030000
851.492	16.843	0.030000
856.483	16.656	0.030000
861.474	16.613	0.030000
866.466	16.573	0.030000
871.457	16.556	0.030000
876.448	16.416	0.030000
881.440	16.419	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

886.431	16.414	0.030000
891.423	16.404	0.030000
896.414	16.288	0.030000
901.405	16.190	0.030000
906.396	16.149	0.030000
911.388	16.108	0.030000
916.379	16.056	0.030000
921.370	15.972	0.030000
926.362	15.960	0.030000
931.353	15.934	0.030000
936.345	15.915	0.030000
941.336	15.912	0.030000
946.327	16.173	0.030000
951.318	16.353	0.030000
956.310	16.402	0.030000
961.301	16.277	0.030000
966.293	15.904	0.030000
971.284	15.801	0.030000
976.275	15.803	0.030000
981.267	15.762	0.030000
986.258	15.731	0.030000
991.249	15.613	0.030000
996.241	15.598	0.030000
1001.232	15.635	0.030000
1006.223	15.500	0.030000
1011.215	15.573	0.030000
1016.206	15.506	0.030000
1021.197	15.519	0.030000
1026.189	15.431	0.030000
1031.180	15.435	0.030000
1036.171	15.412	0.030000
1041.163	15.378	0.030000
1046.154	15.387	0.030000
1051.145	15.774	0.030000
1056.137	15.360	0.030000
1061.128	15.341	0.030000
1066.119	15.422	0.030000
1071.111	15.333	0.030000
1076.102	15.206	0.030000
1081.093	14.758	0.030000

-----  
Name: XB0050E  
Encroachment: No

Group: B

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)   Elevation(ft)   Manning's N

0.000	15.157	0.030000
4.969	15.009	0.030000
9.938	14.903	0.030000
14.907	14.923	0.030000
19.876	14.906	0.030000
24.845	14.816	0.030000
29.814	15.037	0.030000
34.782	15.030	0.030000
39.751	15.010	0.030000
44.720	14.982	0.030000
49.689	15.026	0.030000
54.658	15.081	0.030000
59.627	14.847	0.030000

Name: XB0055B                      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.758	0.030000
4.949	14.767	0.030000
9.898	14.909	0.030000
14.846	14.883	0.030000
19.795	14.923	0.030000
24.744	14.985	0.030000
29.692	15.009	0.030000
34.641	14.989	0.030000
39.590	14.896	0.030000
44.539	15.014	0.030000
49.487	15.012	0.030000
54.436	14.913	0.030000
59.385	15.034	0.030000
64.334	14.787	0.030000
69.282	14.766	0.030000
74.231	14.796	0.030000
79.180	14.717	0.030000
84.128	14.694	0.030000
89.077	14.754	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

94.026	14.778	0.030000
98.975	14.678	0.030000
103.923	14.748	0.030000
108.872	14.749	0.030000
113.821	14.741	0.030000
118.769	14.730	0.030000
123.718	14.668	0.030000
128.667	14.550	0.030000
133.616	14.591	0.030000
138.564	14.503	0.030000
143.513	14.482	0.030000
148.462	14.566	0.030000
153.411	14.467	0.030000
158.359	14.579	0.030000
163.308	14.542	0.030000
168.257	14.540	0.030000
173.206	14.512	0.030000
178.154	14.504	0.030000
183.103	14.565	0.030000
188.052	14.488	0.030000
193.000	14.387	0.030000
197.949	14.356	0.030000
202.898	14.295	0.030000
207.847	14.272	0.030000
212.795	14.270	0.030000
217.744	14.251	0.030000
222.693	14.240	0.030000
227.642	14.269	0.030000
232.590	14.275	0.030000
237.539	14.287	0.030000
242.488	14.313	0.030000
247.437	14.260	0.030000
252.385	14.213	0.030000
257.334	14.118	0.030000
262.283	14.012	0.030000
267.231	13.947	0.030000
272.180	13.950	0.030000
277.129	13.974	0.030000
282.078	13.960	0.030000
287.026	13.960	0.030000
291.975	13.958	0.030000
296.924	13.950	0.030000
301.873	13.966	0.030000
306.821	14.034	0.030000
311.770	14.074	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

316.719	14.035	0.030000
321.668	13.999	0.030000
326.616	13.985	0.030000
331.565	13.865	0.030000
336.514	13.835	0.030000
341.462	13.959	0.030000
346.411	14.040	0.030000
351.360	14.167	0.030000
356.309	14.029	0.030000
361.257	13.913	0.030000
366.206	13.900	0.030000
371.193	13.998	0.030000
376.180	13.999	0.030000
381.167	13.973	0.030000
386.154	13.933	0.030000
391.142	14.066	0.030000
396.129	14.076	0.030000
401.116	14.098	0.030000
406.103	13.937	0.030000
411.090	14.033	0.030000
416.077	14.324	0.030000
421.064	14.345	0.030000
426.051	14.362	0.030000
431.039	14.415	0.030000
436.026	14.371	0.030000
441.013	14.306	0.030000
446.000	14.287	0.030000
450.987	14.403	0.030000
455.974	14.332	0.030000
460.961	14.482	0.030000
465.948	14.399	0.030000
470.936	14.425	0.030000
475.923	14.415	0.030000
480.910	14.461	0.030000
485.897	14.562	0.030000
490.884	14.640	0.030000
495.871	14.621	0.030000
500.858	14.644	0.030000
505.845	14.652	0.030000
510.832	14.754	0.030000
515.820	14.673	0.030000
520.807	14.627	0.030000
525.794	14.795	0.030000
530.781	14.830	0.030000
535.768	14.807	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

540.755	14.898	0.030000
545.742	15.035	0.030000
550.730	14.928	0.030000
555.717	14.949	0.030000
560.704	15.029	0.030000
565.691	14.939	0.030000
570.678	14.989	0.030000
575.665	15.069	0.030000
580.652	15.012	0.030000
585.639	15.034	0.030000
590.626	15.034	0.030000
595.614	14.925	0.030000
600.601	14.847	0.030000

Name: XB0060A                      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	18.154	0.030000
3.337	18.313	0.030000
6.675	18.529	0.030000
10.012	18.705	0.030000
15.012	19.156	0.030000
20.012	19.517	0.030000
25.012	19.463	0.030000
30.012	19.270	0.030000
33.739	19.130	0.030000
37.466	19.060	0.030000
41.193	19.077	0.030000
44.629	19.114	0.030000
48.065	19.152	0.030000
51.501	19.159	0.030000
55.988	19.142	0.030000
60.476	19.129	0.030000
65.076	19.121	0.030000
69.676	19.069	0.030000
74.276	19.086	0.030000
78.876	19.110	0.030000
83.475	19.157	0.030000
88.075	19.253	0.030000
92.675	19.299	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

96.066	19.313	0.030000
99.457	19.253	0.030000
102.848	19.186	0.030000
107.447	19.097	0.030000
112.047	18.762	0.030000
116.647	18.840	0.030000
121.247	18.879	0.030000
125.847	18.831	0.030000
130.447	18.780	0.030000
135.047	18.794	0.030000
139.176	18.805	0.030000
143.306	18.789	0.030000
147.435	18.747	0.030000
151.480	18.808	0.030000
155.524	18.806	0.030000
159.569	18.838	0.030000
164.171	18.776	0.030000
168.773	18.737	0.030000
173.375	18.719	0.030000
177.978	18.755	0.030000
182.580	18.732	0.030000
187.182	18.686	0.030000
191.661	18.632	0.030000
196.140	18.533	0.030000
200.619	18.562	0.030000
205.098	18.485	0.030000
209.577	18.430	0.030000
214.056	18.535	0.030000
218.536	18.717	0.030000
223.015	18.930	0.030000
227.494	18.919	0.030000
232.021	19.006	0.030000
236.549	18.744	0.030000
241.077	18.426	0.030000
245.604	18.397	0.030000
250.132	18.497	0.030000
254.660	18.468	0.030000
259.187	18.435	0.030000
263.715	18.609	0.030000
268.243	18.604	0.030000
272.771	18.615	0.030000
277.501	18.628	0.030000
282.231	18.349	0.030000
286.962	18.382	0.030000
291.310	18.395	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

295.657	18.464	0.030000
300.005	18.567	0.030000
305.005	18.548	0.030000
310.005	18.492	0.030000
315.005	18.531	0.030000
320.005	18.583	0.030000
325.005	18.811	0.030000
330.005	19.169	0.030000
334.005	19.262	0.030000
338.005	19.173	0.030000
342.005	19.202	0.030000
346.005	18.782	0.030000
350.005	18.595	0.030000
354.177	18.604	0.030000
358.349	18.679	0.030000
362.521	18.912	0.030000
366.693	19.066	0.030000
371.199	18.867	0.030000
375.704	18.366	0.030000
380.210	18.141	0.030000
384.716	18.154	0.030000
389.222	18.175	0.030000
393.727	18.372	0.030000
398.233	18.346	0.030000
402.739	18.609	0.030000
407.245	18.706	0.030000
412.217	18.737	0.030000
417.189	18.852	0.030000
422.161	19.021	0.030000
427.133	19.059	0.030000
432.105	18.890	0.030000
436.198	18.858	0.030000
440.291	18.541	0.030000
444.385	18.262	0.030000
448.478	18.151	0.030000
452.922	18.224	0.030000
457.367	18.357	0.030000
461.811	18.468	0.030000
465.202	18.470	0.030000
468.592	18.448	0.030000
471.983	18.429	0.030000
475.936	18.435	0.030000
479.889	18.415	0.030000
483.842	18.467	0.030000
487.795	18.491	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

492.378	18.456	0.030000
496.961	18.438	0.030000
501.545	18.470	0.030000
506.128	18.434	0.030000
510.711	18.597	0.030000
515.295	18.554	0.030000
519.782	18.423	0.030000
524.270	18.492	0.030000
528.758	18.488	0.030000
532.091	18.423	0.030000
535.424	18.360	0.030000
538.758	18.410	0.030000
543.758	18.495	0.030000
546.258	18.514	0.030000
548.758	18.515	0.030000
553.758	18.525	0.030000
558.758	18.597	0.030000
563.758	18.572	0.030000
568.758	18.491	0.030000
571.258	18.498	0.030000
573.758	18.480	0.030000
578.758	18.502	0.030000
583.758	18.637	0.030000
588.758	18.826	0.030000
592.758	18.922	0.030000
596.758	18.918	0.030000
600.758	18.816	0.030000
604.758	18.890	0.030000
608.758	18.856	0.030000
613.346	18.648	0.030000
617.934	18.474	0.030000
622.522	18.605	0.030000
627.110	18.833	0.030000
631.554	18.727	0.030000
635.999	18.777	0.030000
640.443	18.861	0.030000
644.858	18.956	0.030000
649.272	19.006	0.030000
653.687	19.063	0.030000
658.101	19.149	0.030000
661.828	19.196	0.030000
665.555	19.061	0.030000
669.281	18.944	0.030000
673.031	18.838	0.030000
676.781	18.772	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

680.531	18.659	0.030000
684.281	18.683	0.030000
688.008	18.705	0.030000
691.735	18.676	0.030000
695.462	18.740	0.030000
699.628	18.912	0.030000
703.795	19.068	0.030000
707.962	18.879	0.030000
712.128	18.642	0.030000
716.295	18.512	0.030000
720.462	18.482	0.030000
725.462	18.459	0.030000
730.462	18.388	0.030000
735.462	18.526	0.030000
740.462	18.801	0.030000
743.898	18.870	0.030000
747.334	18.847	0.030000
750.769	18.779	0.030000
754.205	18.761	0.030000
757.641	18.821	0.030000
761.077	18.918	0.030000
765.506	18.822	0.030000
769.936	18.811	0.030000
774.284	18.887	0.030000
778.632	18.954	0.030000
782.980	19.043	0.030000
786.730	19.043	0.030000
790.480	19.025	0.030000
794.230	19.010	0.030000
797.980	19.025	0.030000
802.324	19.074	0.030000
806.669	19.148	0.030000
811.014	19.160	0.030000
815.359	19.131	0.030000
819.704	18.978	0.030000
824.048	18.841	0.030000
828.393	18.773	0.030000
832.516	18.673	0.030000
836.640	18.525	0.030000
840.763	18.585	0.030000
844.886	18.576	0.030000
849.009	18.501	0.030000
853.176	18.413	0.030000
857.342	18.360	0.030000
861.509	18.230	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

865.676	18.362	0.030000
869.842	18.453	0.030000
874.009	18.522	0.030000
878.132	18.596	0.030000
882.255	18.711	0.030000
886.378	18.912	0.030000
890.501	18.991	0.030000
894.624	18.975	0.030000
898.972	18.945	0.030000
903.320	18.901	0.030000
907.668	18.860	0.030000
912.224	18.845	0.030000
916.780	18.792	0.030000
921.336	18.735	0.030000
925.445	18.633	0.030000
929.554	18.539	0.030000
933.663	18.545	0.030000
937.772	18.424	0.030000
942.216	18.042	0.030000
946.660	17.770	0.030000
951.105	17.675	0.030000
955.077	17.686	0.030000
959.050	17.730	0.030000
963.022	17.684	0.030000
967.779	17.635	0.030000
972.535	17.796	0.030000
977.292	18.256	0.030000
982.048	18.648	0.030000
986.805	18.813	0.030000

Name: XB0070A      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	18.603	0.030000
4.985	18.702	0.030000
9.970	18.798	0.030000
14.955	18.749	0.030000
19.940	18.818	0.030000
24.925	18.968	0.030000
29.910	18.817	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

34.895	18.694	0.030000
39.880	18.641	0.030000
44.865	18.647	0.030000
49.850	18.776	0.030000
54.835	18.591	0.030000
59.820	18.201	0.030000
64.805	17.988	0.030000
69.790	17.965	0.030000
74.775	18.023	0.030000
79.760	17.935	0.030000
84.745	18.057	0.030000
89.730	18.005	0.030000
94.715	18.017	0.030000
99.700	17.956	0.030000
104.685	17.995	0.030000
109.670	18.128	0.030000
114.655	18.108	0.030000
119.640	18.007	0.030000
124.625	17.897	0.030000
129.610	17.840	0.030000
134.595	17.737	0.030000
139.580	17.820	0.030000
144.565	17.849	0.030000
149.550	17.933	0.030000
154.535	17.919	0.030000
159.520	17.938	0.030000
164.505	17.960	0.030000
169.490	17.980	0.030000
174.475	18.022	0.030000
179.460	17.991	0.030000
184.445	17.990	0.030000
189.430	17.958	0.030000
194.415	17.863	0.030000
199.400	17.857	0.030000
204.385	17.901	0.030000
209.370	17.928	0.030000
214.355	17.905	0.030000
219.340	17.852	0.030000
224.325	18.014	0.030000
229.310	18.046	0.030000
234.295	17.990	0.030000
239.280	17.960	0.030000
244.265	17.921	0.030000
249.250	17.904	0.030000
254.235	17.940	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

259.220	17.925	0.030000
264.205	17.990	0.030000
269.190	18.043	0.030000
274.175	18.008	0.030000
279.160	17.905	0.030000
284.145	17.968	0.030000
289.130	17.936	0.030000
294.115	17.877	0.030000
299.100	17.870	0.030000
304.085	17.864	0.030000
309.070	17.831	0.030000
314.055	17.819	0.030000
319.040	17.831	0.030000
324.025	17.840	0.030000
329.010	17.836	0.030000
333.995	17.789	0.030000
338.980	17.722	0.030000
343.965	17.691	0.030000
348.950	17.747	0.030000
353.935	17.802	0.030000
358.920	17.763	0.030000
363.905	17.808	0.030000
368.890	17.746	0.030000
373.875	17.762	0.030000
378.860	17.802	0.030000
383.845	17.719	0.030000
388.830	17.749	0.030000
393.815	17.793	0.030000
398.800	17.737	0.030000
403.785	17.786	0.030000
408.770	17.800	0.030000
413.755	17.840	0.030000
418.740	17.846	0.030000
423.725	17.745	0.030000
428.710	17.696	0.030000
433.695	17.691	0.030000
438.680	17.723	0.030000
443.665	17.755	0.030000
448.650	17.779	0.030000
453.635	17.780	0.030000
458.620	17.700	0.030000
463.605	17.662	0.030000
468.590	17.709	0.030000
473.575	17.748	0.030000
478.560	17.806	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

483.545	17.949	0.030000
488.530	17.977	0.030000
493.515	17.912	0.030000
498.500	17.846	0.030000
503.486	17.835	0.030000
508.471	17.879	0.030000
513.456	17.910	0.030000
518.441	17.901	0.030000
523.426	17.835	0.030000
528.410	17.739	0.030000
533.395	17.589	0.030000
538.380	17.418	0.030000
543.366	17.278	0.030000
548.351	17.211	0.030000
553.336	17.222	0.030000
558.321	17.224	0.030000
563.306	17.184	0.030000
568.290	17.118	0.030000
573.275	17.128	0.030000
578.260	17.208	0.030000
583.245	17.242	0.030000
588.231	17.282	0.030000
593.216	17.362	0.030000
598.201	17.385	0.030000
603.186	17.435	0.030000
608.171	17.546	0.030000
613.156	17.332	0.030000
618.096	18.194	0.030000
623.036	18.486	0.030000
627.977	18.646	0.030000
632.917	18.917	0.030000
637.857	18.256	0.030000
642.798	18.115	0.030000
647.738	18.180	0.030000
652.679	18.227	0.030000
657.619	18.373	0.030000
662.559	18.308	0.030000
667.500	18.285	0.030000
672.440	18.136	0.030000
677.380	18.229	0.030000
682.321	18.265	0.030000
687.261	18.123	0.030000
692.202	18.220	0.030000
697.142	18.299	0.030000
702.082	18.196	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

707.023	18.189	0.030000
711.963	18.151	0.030000
716.904	18.172	0.030000
721.844	18.195	0.030000
726.784	18.172	0.030000
731.725	18.210	0.030000
736.665	18.337	0.030000
741.606	18.354	0.030000
746.546	18.226	0.030000
751.486	18.287	0.030000
756.427	18.299	0.030000
761.367	18.402	0.030000
766.307	18.176	0.030000
771.248	17.987	0.030000
776.188	17.953	0.030000
781.129	18.088	0.030000
786.069	18.093	0.030000
791.009	18.046	0.030000
795.950	18.089	0.030000
800.890	18.124	0.030000
805.830	18.220	0.030000
810.771	18.168	0.030000
815.711	18.186	0.030000
820.652	18.136	0.030000
825.487	18.314	0.030000
830.322	18.385	0.030000
835.157	18.753	0.030000
839.991	18.924	0.030000
844.827	18.845	0.030000
849.662	18.800	0.030000
854.496	18.642	0.030000
859.331	18.482	0.030000
864.166	18.598	0.030000
869.001	18.618	0.030000
873.836	18.714	0.030000
878.671	18.813	0.030000

-----

Name: XB0080A	Group: B
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----



Long Branch BMP Model Results  
Input Data Report Summary

0.000	18.154	0.030000
4.973	18.095	0.030000
9.947	18.122	0.030000
14.920	18.163	0.030000
19.894	18.263	0.030000
24.867	18.291	0.030000
29.841	18.296	0.030000
34.814	18.256	0.030000
39.788	18.267	0.030000
44.761	18.343	0.030000
49.734	18.810	0.030000
54.708	18.971	0.030000
59.681	18.887	0.030000
64.655	18.590	0.030000
69.628	18.274	0.030000
74.602	17.876	0.030000
79.575	17.503	0.030000
84.548	17.017	0.030000
89.522	16.971	0.030000
94.495	16.963	0.030000
99.469	17.070	0.030000
104.442	17.101	0.030000
109.416	16.991	0.030000
114.389	16.833	0.030000
119.363	16.736	0.030000
124.336	16.876	0.030000
129.309	16.940	0.030000
134.283	16.804	0.030000
139.256	16.842	0.030000
144.230	16.849	0.030000
149.203	16.771	0.030000
154.177	16.781	0.030000
159.150	16.794	0.030000
164.123	16.815	0.030000
169.097	16.786	0.030000
174.070	16.790	0.030000
179.044	16.801	0.030000
184.017	16.781	0.030000
188.991	16.781	0.030000
193.964	16.833	0.030000
198.938	16.846	0.030000
203.911	16.774	0.030000
208.884	16.735	0.030000
213.858	16.768	0.030000
218.831	16.787	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

223.805	16.774	0.030000
228.778	16.750	0.030000
233.752	16.761	0.030000
238.725	16.730	0.030000
243.699	16.767	0.030000
248.672	16.793	0.030000
253.645	16.712	0.030000
258.619	16.711	0.030000
263.592	16.788	0.030000
268.566	16.937	0.030000
273.539	17.128	0.030000
278.512	17.102	0.030000
283.486	16.906	0.030000
288.459	16.791	0.030000
293.433	16.942	0.030000
298.406	17.170	0.030000
303.380	17.315	0.030000
308.353	17.443	0.030000
313.327	17.546	0.030000
318.300	17.648	0.030000
323.274	17.704	0.030000
328.247	17.729	0.030000
333.220	17.866	0.030000
338.194	17.872	0.030000
343.167	17.795	0.030000
348.141	17.788	0.030000
353.114	17.751	0.030000
358.087	17.596	0.030000
363.061	17.498	0.030000
368.034	17.500	0.030000
373.008	17.477	0.030000
377.981	17.408	0.030000
382.955	17.277	0.030000
387.928	17.172	0.030000
392.902	17.050	0.030000
397.875	16.973	0.030000
402.849	17.004	0.030000
407.822	17.040	0.030000
412.795	17.037	0.030000
417.769	17.029	0.030000
422.742	17.021	0.030000
427.679	17.058	0.030000
432.615	17.338	0.030000
437.551	17.788	0.030000
442.488	17.933	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

447.424	17.798	0.030000
452.361	17.671	0.030000
457.297	17.629	0.030000
462.234	17.604	0.030000
467.170	17.527	0.030000
472.107	17.503	0.030000
477.043	17.497	0.030000
481.979	17.267	0.030000
486.916	17.033	0.030000
491.852	16.923	0.030000
496.789	16.992	0.030000
501.725	17.014	0.030000
506.662	17.145	0.030000
511.598	17.228	0.030000
516.535	17.251	0.030000
521.471	17.189	0.030000
526.408	17.396	0.030000
531.344	17.486	0.030000
536.280	17.517	0.030000
541.217	17.549	0.030000
546.153	17.563	0.030000
551.090	17.562	0.030000
556.026	17.458	0.030000
560.963	17.373	0.030000
565.899	17.334	0.030000
570.836	17.389	0.030000
575.772	17.268	0.030000
580.708	17.246	0.030000
585.645	17.317	0.030000
590.581	17.252	0.030000
595.518	17.226	0.030000
600.454	17.160	0.030000
605.391	17.292	0.030000
610.327	17.136	0.030000
615.264	17.203	0.030000
620.200	17.429	0.030000
625.136	17.242	0.030000
630.073	17.244	0.030000
635.009	17.341	0.030000
639.946	17.424	0.030000
644.882	17.519	0.030000
649.819	17.569	0.030000
654.755	17.608	0.030000
659.691	17.626	0.030000
664.628	17.623	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

669.564	17.608	0.030000
674.501	17.629	0.030000
679.437	17.536	0.030000
684.374	17.534	0.030000
689.310	17.628	0.030000
694.246	17.709	0.030000
699.183	17.808	0.030000
704.119	17.887	0.030000
709.056	17.876	0.030000
713.992	17.722	0.030000
718.929	17.506	0.030000
723.865	17.359	0.030000
728.802	17.695	0.030000
733.738	18.021	0.030000
738.674	18.081	0.030000
743.611	17.843	0.030000
748.547	17.228	0.030000
753.484	17.061	0.030000
758.420	17.218	0.030000
763.357	17.326	0.030000
768.293	17.381	0.030000

Name: XB0090B                      Group: B  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.578	0.030000
19.983	15.238	0.030000
39.966	14.858	0.030000
59.949	14.454	0.030000
79.932	14.110	0.030000
99.915	14.091	0.030000
119.898	14.091	0.030000
139.881	14.400	0.030000
159.863	21.901	0.030000
179.846	29.782	0.030000
199.829	37.763	0.030000
219.812	38.516	0.030000
239.795	38.418	0.030000
259.778	38.079	0.030000
279.761	37.898	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

299.744	37.530	0.030000
319.727	37.222	0.030000
339.710	36.927	0.030000
359.693	36.618	0.030000
379.676	36.308	0.030000
399.659	35.840	0.030000
419.642	35.457	0.030000
439.624	34.907	0.030000
459.607	34.581	0.030000
479.590	34.042	0.030000
499.573	33.541	0.030000
519.556	33.161	0.030000
539.539	32.590	0.030000
559.522	32.137	0.030000
579.505	31.429	0.030000
599.488	30.947	0.030000
619.471	30.466	0.030000
639.454	29.866	0.030000
659.437	29.083	0.030000
679.420	28.457	0.030000
699.403	27.770	0.030000
719.385	27.482	0.030000
739.368	26.624	0.030000
759.351	25.837	0.030000
779.334	25.086	0.030000
799.317	24.620	0.030000
819.300	24.020	0.030000
839.283	23.586	0.030000
859.266	22.815	0.030000
879.249	22.375	0.030000
899.232	21.968	0.030000
919.215	21.628	0.030000
939.198	21.106	0.030000
959.181	20.937	0.030000
979.164	20.374	0.030000
999.146	20.110	0.030000
1019.129	19.816	0.030000
1039.112	19.634	0.030000
1059.095	19.258	0.030000
1079.078	19.310	0.030000
1099.061	18.982	0.030000
1119.011	18.980	0.030000
1138.950	19.030	0.030000
1158.888	18.771	0.030000
1178.827	18.994	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1198.766	19.013	0.030000
1218.705	18.976	0.030000
1238.643	18.991	0.030000
1258.582	18.998	0.030000
1278.521	19.079	0.030000
1298.459	19.123	0.030000
1318.398	19.005	0.030000
1338.337	19.324	0.030000
1358.276	19.410	0.030000
1378.214	19.278	0.030000
1398.153	19.644	0.030000
1418.092	19.539	0.030000
1438.031	19.520	0.030000
1457.969	19.690	0.030000
1477.908	19.589	0.030000
1497.847	19.771	0.030000
1517.785	19.836	0.030000
1537.724	19.937	0.030000
1557.663	19.949	0.030000
1577.602	19.911	0.030000
1597.540	20.027	0.030000
1617.479	20.108	0.030000
1637.418	20.137	0.030000
1657.357	20.392	0.030000
1677.295	20.519	0.030000
1697.234	20.554	0.030000
1717.173	20.665	0.030000
1737.112	20.775	0.030000
1757.050	20.981	0.030000
1776.989	21.196	0.030000
1796.928	21.331	0.030000
1816.866	21.632	0.030000
1836.805	21.850	0.030000
1856.744	22.345	0.030000
1876.683	22.824	0.030000
1896.621	23.369	0.030000
1916.560	23.965	0.030000
1936.499	24.531	0.030000
1956.438	25.075	0.030000
1976.376	25.660	0.030000
1996.315	26.238	0.030000
2016.254	26.810	0.030000
2036.192	27.382	0.030000
2056.131	28.905	0.030000
2076.070	28.945	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

2096.009	29.463	0.030000
2115.947	30.196	0.030000
2135.886	30.721	0.030000
2155.825	31.322	0.030000
2175.764	31.919	0.030000
2195.702	32.221	0.030000
2215.641	32.936	0.030000
2235.580	33.353	0.030000
2255.518	33.662	0.030000
2275.457	34.136	0.030000
2295.396	34.533	0.030000
2315.335	35.028	0.030000
2335.273	35.430	0.030000
2355.212	35.641	0.030000
2375.151	35.953	0.030000
2395.090	36.302	0.030000
2415.028	36.598	0.030000
2434.967	37.081	0.030000
2454.906	37.143	0.030000
2474.845	37.324	0.030000
2494.783	37.639	0.030000
2514.722	37.882	0.030000
2534.661	38.092	0.030000
2554.599	38.258	0.030000
2574.538	38.399	0.030000
2594.379	38.464	0.030000
2613.927	38.562	0.030000
2633.475	38.729	0.030000
2653.023	24.952	0.030000
2672.570	14.596	0.030000
2692.118	14.860	0.030000
2711.666	15.123	0.030000

Name: XC0010B                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	18.733	0.030000
4.998	18.460	0.030000
9.996	18.370	0.030000
14.994	18.240	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

19.992	18.180	0.030000
24.990	18.150	0.030000
29.988	18.220	0.030000
34.986	18.790	0.030000
49.980	18.720	0.030000
59.976	18.250	0.030000
79.968	18.280	0.030000
99.960	18.130	0.030000
119.952	18.980	0.030000
134.946	18.690	0.030000
154.938	18.080	0.030000
174.930	18.110	0.030000
194.922	18.210	0.030000
229.908	18.750	0.030000
264.894	18.670	0.030000
299.880	18.340	0.030000
349.860	18.350	0.030000
399.840	18.770	0.030000
449.820	18.280	0.030000
499.800	18.430	0.030000
549.780	187.310	0.030000
599.760	187.120	0.030000
649.740	18.530	0.030000
684.726	187.120	0.030000

Name: XC0010C      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.381	0.030000
4.997	17.364	0.030000
9.994	17.310	0.030000
14.992	17.311	0.030000
19.989	17.628	0.030000
24.986	18.105	0.030000
29.983	18.371	0.030000
34.980	18.400	0.030000
39.978	18.312	0.030000
44.975	18.224	0.030000
49.972	18.162	0.030000
54.969	18.138	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

59.967	18.126	0.030000
64.964	18.078	0.030000
69.961	18.039	0.030000
74.958	18.063	0.030000
79.955	17.985	0.030000
84.953	17.638	0.030000
89.950	17.287	0.030000
94.947	17.321	0.030000
99.944	17.438	0.030000
104.941	17.360	0.030000
109.939	17.288	0.030000
114.936	17.574	0.030000
119.933	17.922	0.030000
124.930	18.044	0.030000
129.927	18.005	0.030000
134.925	17.898	0.030000
139.922	17.871	0.030000
144.919	17.889	0.030000
149.916	17.853	0.030000
154.914	17.764	0.030000
159.911	17.754	0.030000
164.908	17.810	0.030000
169.905	17.751	0.030000
174.902	17.496	0.030000
179.899	17.179	0.030000
184.897	17.095	0.030000
189.894	17.199	0.030000
194.891	17.273	0.030000
199.888	17.374	0.030000
204.886	17.408	0.030000
209.883	17.341	0.030000
214.880	17.345	0.030000
219.877	17.384	0.030000
224.874	17.417	0.030000
229.872	17.462	0.030000
234.869	17.441	0.030000
239.866	17.422	0.030000
244.863	17.423	0.030000
249.860	17.421	0.030000
254.858	17.565	0.030000
259.855	17.617	0.030000
264.852	17.514	0.030000
269.849	17.595	0.030000
274.846	17.656	0.030000
279.844	17.504	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

284.841	17.305	0.030000
289.838	17.118	0.030000
294.835	17.204	0.030000
299.832	17.507	0.030000
304.830	17.604	0.030000
309.827	17.530	0.030000
314.824	17.386	0.030000
319.821	17.745	0.030000

Name: XC0020A\_1                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.385	0.035000
4.522	13.597	0.035000
9.045	11.100	0.035000
13.567	11.100	0.035000
18.089	11.100	0.035000
22.612	12.744	0.035000
27.134	13.550	0.035000
31.656	14.108	0.035000

Name: XC0020A\_2                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.385	0.035000
4.522	13.597	0.035000
9.045	11.100	0.035000
13.567	11.100	0.035000
18.089	11.100	0.035000
22.612	12.744	0.035000
27.134	13.550	0.035000
31.656	14.108	0.035000

Name: XC0021A\_1                      Group: C

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	15.650	0.035000
5.000	14.490	0.035000
30.000	8.300	0.035000
40.000	8.300	0.035000
65.000	14.490	0.035000
70.000	15.290	0.035000

Name: XC0021A\_2

Group: C

Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	15.650	0.035000
5.000	14.490	0.035000
30.000	8.300	0.035000
40.000	8.300	0.035000
65.000	14.490	0.035000
70.000	15.290	0.035000

Name: XC0021B\_1

Group: C

Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	13.289	0.035000
4.362	11.400	0.035000
8.723	11.400	0.035000
13.085	11.400	0.035000
17.446	13.264	0.035000

Name: XC0021B\_2

Group: C

Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	12.855	0.035000
4.551	10.600	0.035000
9.103	10.600	0.035000
13.654	10.600	0.035000
18.206	11.839	0.035000
22.757	13.095	0.035000

Name: XC0022B	Group: C
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.822	0.030000
19.538	16.253	0.030000
39.077	15.979	0.030000
58.615	15.711	0.030000
78.153	15.585	0.030000
97.691	15.317	0.030000
117.230	14.944	0.030000
136.313	15.375	0.030000
152.600	15.363	0.030000
168.412	15.492	0.030000
184.927	15.864	0.030000
201.738	16.114	0.030000
218.900	15.975	0.030000
236.492	16.197	0.030000
252.848	16.405	0.030000
269.007	16.485	0.030000
287.505	16.545	0.030000
304.297	16.826	0.030000
319.990	16.910	0.030000
335.926	16.707	0.030000
351.952	16.767	0.030000
367.511	16.798	0.030000
385.707	16.438	0.030000
403.306	16.668	0.030000
418.758	16.802	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

436.404	16.419	0.030000
454.951	16.241	0.030000
473.487	16.737	0.030000
492.296	16.451	0.030000
508.377	16.393	0.030000
524.663	16.192	0.030000
543.902	16.203	0.030000
561.987	16.064	0.030000
580.409	15.502	0.030000
599.444	15.028	0.030000
618.078	15.414	0.030000
634.950	15.383	0.030000
651.719	15.347	0.030000
669.497	15.433	0.030000
687.244	15.521	0.030000
704.378	15.912	0.030000
720.783	16.152	0.030000
735.765	16.354	0.030000
753.793	16.330	0.030000
769.433	16.024	0.030000
785.726	16.241	0.030000
800.687	16.241	0.030000
816.880	16.318	0.030000
833.374	16.478	0.030000
849.855	16.793	0.030000
867.392	16.286	0.030000
885.020	16.457	0.030000
902.678	16.784	0.030000
919.387	16.451	0.030000
935.028	16.311	0.030000
952.595	16.243	0.030000
969.274	16.315	0.030000
984.480	16.360	0.030000
1001.146	16.167	0.030000
1016.146	16.505	0.030000
1029.990	16.673	0.030000
1044.132	16.552	0.030000
1060.711	16.583	0.030000
1078.201	16.691	0.030000
1095.988	16.580	0.030000
1113.478	16.531	0.030000
1132.543	16.445	0.030000
1149.122	16.388	0.030000
1165.632	16.369	0.030000
1183.444	16.554	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1200.848	16.281	0.030000
1218.365	16.333	0.030000
1235.595	16.752	0.030000
1251.860	16.660	0.030000
1266.794	16.630	0.030000
1283.576	16.573	0.030000
1301.527	16.311	0.030000
1318.019	16.171	0.030000
1333.323	16.091	0.030000
1351.039	15.379	0.030000
1368.756	15.253	0.030000
1385.249	15.117	0.030000
1402.416	15.414	0.030000
1417.882	15.973	0.030000
1432.152	16.009	0.030000
1447.662	16.188	0.030000
1464.581	16.490	0.030000
1480.706	16.417	0.030000
1498.712	16.324	0.030000
1516.489	16.359	0.030000
1531.331	16.546	0.030000
1546.701	16.629	0.030000
1564.058	16.675	0.030000
1578.167	16.647	0.030000
1593.008	16.614	0.030000
1608.378	16.566	0.030000
1623.991	16.576	0.030000
1639.570	16.915	0.030000
1656.788	16.834	0.030000
1675.197	16.373	0.030000
1690.364	16.245	0.030000
1708.341	16.483	0.030000
1723.336	16.552	0.030000
1738.656	16.325	0.030000
1756.373	16.243	0.030000
1771.840	16.089	0.030000
1787.607	15.742	0.030000
1806.135	15.229	0.030000
1825.383	14.919	0.030000
1842.188	15.023	0.030000
1858.789	14.981	0.030000
1875.072	15.601	0.030000
1890.155	16.128	0.030000
1908.479	16.322	0.030000
1925.822	16.399	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1942.964	16.567	0.030000
1962.238	16.462	0.030000
1980.215	16.469	0.030000
1997.388	16.480	0.030000
2014.888	16.672	0.030000
2032.916	16.803	0.030000
2048.802	16.930	0.030000
2066.067	16.807	0.030000
2084.126	16.755	0.030000
2099.836	16.703	0.030000
2113.272	16.586	0.030000
2127.916	16.701	0.030000
2145.262	16.153	0.030000
2163.878	16.081	0.030000
2182.493	16.119	0.030000
2201.354	16.168	0.030000
2220.955	16.157	0.030000
2240.556	15.755	0.030000
2260.456	14.829	0.030000
2279.804	14.110	0.030000
2297.850	14.463	0.030000
2316.549	15.105	0.030000
2334.874	16.710	0.030000
2352.076	17.447	0.030000
2367.344	17.541	0.030000
2383.240	17.546	0.030000
2399.552	18.401	0.030000
2415.150	17.466	0.030000
2430.960	17.113	0.030000
2447.561	16.724	0.030000
2464.228	16.871	0.030000
2479.433	17.108	0.030000
2493.177	17.017	0.030000
2508.658	16.836	0.030000
2525.860	16.735	0.030000
2541.961	16.710	0.030000
2556.333	16.667	0.030000
2572.067	16.531	0.030000
2589.727	17.079	0.030000
2608.648	16.801	0.030000
2627.702	16.755	0.030000
2646.023	16.728	0.030000
2662.148	16.708	0.030000
2682.148	16.760	0.030000
2697.456	16.842	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

2711.808	16.883	0.030000
2728.418	16.633	0.030000
2745.460	16.704	0.030000
2764.287	16.777	0.030000
2781.760	16.489	0.030000
2798.995	16.323	0.030000
2817.196	16.781	0.030000
2832.403	16.788	0.030000
2850.032	16.792	0.030000
2867.466	16.741	0.030000
2885.785	16.698	0.030000
2903.990	17.110	0.030000
2921.622	16.976	0.030000
2938.678	16.461	0.030000
2954.270	16.425	0.030000
2971.312	16.552	0.030000
2987.727	16.477	0.030000
3004.491	16.991	0.030000
3021.235	17.913	0.030000
3038.913	17.608	0.030000
3057.752	17.280	0.030000
3076.368	16.699	0.030000
3094.777	16.610	0.030000
3111.513	17.181	0.030000
3127.154	18.176	0.030000
3145.310	18.477	0.030000
3162.472	18.012	0.030000
3180.018	18.272	0.030000
3196.798	17.862	0.030000
3213.840	17.338	0.030000
3231.347	17.128	0.030000
3247.525	17.274	0.030000
3263.570	17.189	0.030000
3278.236	17.061	0.030000
3295.614	17.099	0.030000
3312.738	17.548	0.030000
3330.809	18.241	0.030000
3348.370	17.781	0.030000
3363.577	17.535	0.030000
3379.819	17.256	0.030000
3396.906	17.099	0.030000
3414.622	17.089	0.030000
3429.868	17.415	0.030000
3446.618	17.476	0.030000
3463.305	17.404	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

3478.325	16.899	0.030000
3493.688	17.350	0.030000
3512.021	17.887	0.030000
3532.021	17.855	0.030000
3548.880	17.399	0.030000
3565.876	17.815	0.030000
3583.268	17.991	0.030000
3600.053	18.451	0.030000
3617.747	18.447	0.030000
3636.875	17.904	0.030000
3654.633	17.756	0.030000
3670.212	18.376	0.030000
3687.890	17.506	0.030000
3706.378	17.430	0.030000
3724.084	17.624	0.030000
3742.753	17.549	0.030000
3761.423	17.713	0.030000
3779.450	17.829	0.030000
3796.987	17.816	0.030000
3811.679	17.764	0.030000
3826.371	17.515	0.030000
3843.909	17.412	0.030000
3860.306	17.392	0.030000
3875.656	17.315	0.030000
3891.968	17.228	0.030000
3908.575	17.208	0.030000
3926.418	16.935	0.030000
3946.110	17.569	0.030000
3965.986	17.113	0.030000
3981.102	17.197	0.030000
3999.005	17.224	0.030000
4016.108	17.343	0.030000
4030.460	17.393	0.030000
4046.585	17.395	0.030000
4064.137	17.665	0.030000
4082.786	17.507	0.030000
4099.572	17.383	0.030000

Name: XC0030A      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	16.788	0.030000
4.962	16.373	0.030000
9.924	15.689	0.030000
14.887	15.035	0.030000
19.849	15.187	0.030000
24.811	15.210	0.030000
29.773	15.147	0.030000
34.735	15.060	0.030000
39.697	14.961	0.030000
44.660	14.762	0.030000
49.622	15.308	0.030000
54.584	15.800	0.030000
59.546	16.425	0.030000
64.508	17.080	0.030000
69.471	17.134	0.030000
74.433	17.213	0.030000
79.395	17.343	0.030000
84.357	17.384	0.030000
89.319	17.458	0.030000
94.282	17.499	0.030000
99.244	17.521	0.030000
104.206	17.512	0.030000
109.168	17.467	0.030000
114.130	17.454	0.030000
119.093	17.434	0.030000
124.055	17.454	0.030000
129.017	17.399	0.030000
133.979	17.395	0.030000
138.941	17.352	0.030000
143.904	17.318	0.030000
148.866	17.323	0.030000
153.828	17.347	0.030000
158.790	17.355	0.030000
163.752	17.349	0.030000
168.714	17.404	0.030000
173.677	17.431	0.030000
178.639	17.395	0.030000
183.601	17.396	0.030000
188.563	17.439	0.030000
193.525	17.512	0.030000
198.488	17.493	0.030000
203.450	17.421	0.030000
208.412	17.509	0.030000
213.374	17.568	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

218.336	17.538	0.030000
223.299	17.467	0.030000
228.261	17.521	0.030000
233.223	17.558	0.030000
238.185	17.556	0.030000
243.147	17.543	0.030000
248.110	17.581	0.030000
253.072	17.628	0.030000
258.034	17.687	0.030000
262.996	17.682	0.030000
267.958	17.646	0.030000
272.921	17.644	0.030000
277.883	17.644	0.030000
282.845	17.624	0.030000
287.807	17.600	0.030000
292.769	17.605	0.030000
297.731	17.623	0.030000
302.694	17.688	0.030000
307.656	17.717	0.030000
312.618	17.710	0.030000
317.580	17.748	0.030000
322.542	17.812	0.030000
327.505	17.843	0.030000
332.467	17.858	0.030000
337.429	17.926	0.030000
342.391	18.065	0.030000
347.353	18.229	0.030000
352.316	18.458	0.030000
357.278	18.722	0.030000
362.240	18.704	0.030000
367.202	18.560	0.030000
372.164	18.337	0.030000
377.127	18.212	0.030000
382.089	18.119	0.030000
387.051	18.094	0.030000
392.013	18.069	0.030000
396.975	17.987	0.030000
401.938	17.996	0.030000
406.900	18.008	0.030000
411.862	17.987	0.030000
416.824	18.001	0.030000
421.786	18.093	0.030000
426.748	18.181	0.030000
431.711	18.141	0.030000
436.673	18.326	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

441.635	18.651	0.030000
446.597	18.835	0.030000
451.559	18.868	0.030000
456.522	18.789	0.030000

Name: XC0031B                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.822	0.030000
3.566	17.095	0.030000
7.132	17.060	0.030000
10.698	17.013	0.030000
15.577	16.936	0.030000
20.455	17.175	0.030000
25.334	16.922	0.030000
30.212	16.575	0.030000
35.090	16.463	0.030000
39.968	16.533	0.030000
44.847	16.415	0.030000
49.725	16.345	0.030000
54.603	16.306	0.030000
59.482	16.291	0.030000
64.360	16.329	0.030000
69.239	16.377	0.030000
74.117	16.424	0.030000
78.995	16.523	0.030000
83.767	16.668	0.030000
88.539	16.696	0.030000
93.311	16.774	0.030000
98.264	16.833	0.030000
103.218	16.842	0.030000
108.171	16.817	0.030000
113.124	16.660	0.030000
118.077	16.553	0.030000
123.030	16.679	0.030000
127.983	16.633	0.030000
132.936	16.321	0.030000
137.889	16.304	0.030000
142.843	16.349	0.030000
147.796	16.431	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

152.749	16.449	0.030000
157.702	16.411	0.030000
162.655	16.283	0.030000
167.608	16.187	0.030000
172.561	16.234	0.030000
177.514	16.331	0.030000
182.467	16.413	0.030000
187.420	16.492	0.030000
192.374	16.567	0.030000
197.327	16.612	0.030000
202.280	16.607	0.030000
207.233	16.491	0.030000
212.186	16.482	0.030000
217.139	16.357	0.030000
222.092	16.277	0.030000
227.045	16.205	0.030000
231.998	16.195	0.030000
236.952	16.157	0.030000
241.905	16.086	0.030000
246.858	16.118	0.030000
251.811	16.207	0.030000
256.764	16.283	0.030000
261.717	16.261	0.030000
266.670	16.333	0.030000
271.623	16.376	0.030000
276.576	16.414	0.030000
281.529	16.376	0.030000
286.483	16.610	0.030000
291.436	16.097	0.030000
296.389	16.264	0.030000
301.342	16.340	0.030000
306.295	16.326	0.030000
311.253	16.393	0.030000
316.210	16.375	0.030000
321.168	16.349	0.030000
326.125	16.324	0.030000
331.083	16.298	0.030000
336.040	16.272	0.030000
340.998	16.417	0.030000
345.956	16.349	0.030000
350.913	16.493	0.030000
355.871	16.676	0.030000
360.828	16.831	0.030000
365.786	16.458	0.030000
370.743	16.394	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

375.701	16.442	0.030000
380.659	16.372	0.030000
385.616	16.454	0.030000
390.574	16.447	0.030000
395.531	16.418	0.030000
400.489	16.407	0.030000
405.446	16.424	0.030000
410.404	16.531	0.030000
415.362	16.565	0.030000
420.319	16.683	0.030000
425.277	16.685	0.030000
430.234	16.612	0.030000
435.192	16.557	0.030000
440.149	16.544	0.030000
445.107	16.453	0.030000
450.062	16.435	0.030000
455.017	16.679	0.030000
459.972	16.884	0.030000
464.927	17.013	0.030000
469.882	17.034	0.030000
474.837	17.002	0.030000
479.792	16.946	0.030000
484.747	16.950	0.030000
489.702	16.993	0.030000
494.657	16.988	0.030000
499.612	16.967	0.030000
504.567	16.968	0.030000
509.522	16.970	0.030000
514.477	16.972	0.030000
519.432	16.973	0.030000
524.387	16.946	0.030000
529.342	16.880	0.030000
534.297	16.835	0.030000
539.252	16.866	0.030000
544.207	16.942	0.030000
549.162	16.972	0.030000
554.117	16.996	0.030000
559.072	16.923	0.030000
564.028	16.860	0.030000
568.982	16.785	0.030000
573.938	16.727	0.030000
578.893	16.794	0.030000
583.848	16.785	0.030000
588.803	16.745	0.030000
593.758	16.706	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

598.545	16.667	0.030000
603.333	16.629	0.030000
608.121	16.591	0.030000
612.909	16.558	0.030000
617.697	16.624	0.030000
622.485	16.587	0.030000
627.272	16.617	0.030000
632.060	16.668	0.030000
636.848	16.815	0.030000
641.530	16.846	0.030000
646.213	16.835	0.030000
650.895	16.844	0.030000
655.578	16.853	0.030000
660.260	16.844	0.030000
664.943	16.834	0.030000
669.625	16.838	0.030000
674.308	16.852	0.030000
678.990	16.855	0.030000
683.673	16.755	0.030000
688.355	16.641	0.030000
693.300	16.578	0.030000
698.244	16.474	0.030000
703.188	16.408	0.030000
708.133	16.726	0.030000
713.077	16.799	0.030000
718.022	16.797	0.030000
722.967	16.809	0.030000
727.911	16.909	0.030000
732.855	16.956	0.030000
737.800	17.021	0.030000
742.744	16.917	0.030000
747.689	16.992	0.030000
752.633	16.954	0.030000
757.578	16.851	0.030000
762.522	16.784	0.030000
767.467	16.727	0.030000
772.411	16.761	0.030000
777.356	16.755	0.030000
782.300	16.780	0.030000
787.245	16.847	0.030000
792.189	16.736	0.030000
797.134	17.035	0.030000
802.078	17.113	0.030000
807.023	17.091	0.030000
811.967	17.048	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

816.912	17.074	0.030000
821.856	17.072	0.030000
826.801	16.996	0.030000
831.745	16.890	0.030000
836.689	16.830	0.030000
841.634	16.890	0.030000
846.578	16.977	0.030000
851.523	17.013	0.030000
856.467	17.009	0.030000
861.412	17.044	0.030000
866.356	17.036	0.030000
871.301	17.042	0.030000
876.245	16.819	0.030000
881.190	16.704	0.030000
886.134	16.734	0.030000
891.079	16.270	0.030000
896.023	15.767	0.030000
900.968	15.439	0.030000
905.912	14.924	0.030000
910.857	14.296	0.030000
915.801	14.038	0.030000
920.746	14.213	0.030000
925.690	14.315	0.030000
930.635	14.144	0.030000
935.579	14.530	0.030000
940.524	15.261	0.030000
945.468	15.551	0.030000
950.413	15.798	0.030000
955.357	16.060	0.030000

Name: XC0040A      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.361	0.030000
4.549	17.406	0.030000
9.097	17.312	0.030000
13.646	17.352	0.030000
18.195	17.656	0.030000
22.743	17.762	0.030000
27.330	17.808	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

31.916	17.895	0.030000
36.739	17.935	0.030000
41.562	18.030	0.030000
46.384	17.961	0.030000
51.207	17.880	0.030000
56.029	17.810	0.030000
60.852	17.724	0.030000
65.674	17.700	0.030000
70.497	17.682	0.030000
75.048	17.620	0.030000
79.599	17.551	0.030000
84.150	17.487	0.030000
88.701	17.406	0.030000
93.253	17.307	0.030000
97.804	17.320	0.030000
102.355	17.306	0.030000
106.906	17.291	0.030000
111.457	17.299	0.030000
116.008	17.343	0.030000
120.559	17.422	0.030000
124.286	17.497	0.030000
128.013	17.589	0.030000
131.740	17.569	0.030000
136.740	17.502	0.030000
141.740	17.429	0.030000
146.740	17.379	0.030000
150.771	17.319	0.030000
154.802	17.216	0.030000
158.833	17.217	0.030000
162.864	17.333	0.030000
166.895	17.261	0.030000
171.895	17.127	0.030000
176.895	17.084	0.030000
179.395	17.056	0.030000
181.895	16.959	0.030000
186.895	16.788	0.030000
191.895	16.668	0.030000
194.395	16.624	0.030000
196.895	16.575	0.030000
201.895	16.404	0.030000
206.895	16.238	0.030000
209.395	16.195	0.030000
211.895	16.160	0.030000
216.895	16.091	0.030000
221.895	16.078	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

226.895	16.112	0.030000
231.895	16.101	0.030000
234.395	16.078	0.030000
236.895	16.068	0.030000
241.895	16.034	0.030000
246.895	16.007	0.030000
249.395	16.006	0.030000
251.895	16.038	0.030000
256.895	16.098	0.030000
261.895	16.190	0.030000
264.395	16.255	0.030000
266.895	16.294	0.030000
271.895	16.361	0.030000
276.895	16.644	0.030000
281.895	16.848	0.030000
286.895	16.912	0.030000
291.895	16.872	0.030000
296.145	16.724	0.030000
300.394	16.458	0.030000
304.643	16.119	0.030000
308.892	15.989	0.030000
313.651	16.049	0.030000
318.411	16.093	0.030000
323.170	16.155	0.030000
327.929	16.219	0.030000
332.688	16.298	0.030000
337.447	16.340	0.030000
342.206	16.379	0.030000
346.965	16.513	0.030000
351.725	16.605	0.030000
356.484	16.660	0.030000
361.243	16.808	0.030000
366.002	16.919	0.030000
370.761	16.973	0.030000
375.730	16.878	0.030000
380.699	16.912	0.030000
385.668	16.910	0.030000
390.175	16.969	0.030000
394.682	16.991	0.030000
399.189	16.903	0.030000
403.696	16.599	0.030000
408.203	16.204	0.030000
412.710	16.073	0.030000
417.217	16.015	0.030000
421.724	16.001	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

426.231	16.078	0.030000
430.738	16.099	0.030000
434.464	16.064	0.030000
438.191	16.076	0.030000
441.918	16.036	0.030000
446.293	16.066	0.030000
450.668	16.191	0.030000
455.043	16.337	0.030000
459.418	16.197	0.030000
463.585	16.035	0.030000
467.751	16.077	0.030000
471.918	16.076	0.030000
476.418	16.029	0.030000
480.918	15.999	0.030000
485.418	15.906	0.030000
489.918	15.705	0.030000
494.418	15.703	0.030000
499.140	15.537	0.030000
503.863	15.492	0.030000
508.585	15.487	0.030000
513.307	15.522	0.030000
518.029	15.450	0.030000
522.751	15.488	0.030000
527.474	15.544	0.030000
532.196	15.557	0.030000
536.918	15.642	0.030000
541.918	15.718	0.030000
546.918	15.738	0.030000
551.501	15.849	0.030000
556.085	16.010	0.030000
560.668	16.141	0.030000
565.251	16.281	0.030000
569.835	16.456	0.030000
574.418	16.538	0.030000
578.906	16.388	0.030000
583.393	16.246	0.030000
587.881	16.248	0.030000
592.229	16.241	0.030000
596.577	16.186	0.030000
600.925	16.232	0.030000
605.273	16.210	0.030000
609.620	16.287	0.030000
613.968	16.318	0.030000
618.313	16.376	0.030000
622.658	16.386	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

627.003	16.246	0.030000
631.348	16.161	0.030000
635.693	16.159	0.030000
640.037	16.189	0.030000
644.382	16.291	0.030000
648.132	16.340	0.030000
651.882	16.256	0.030000
655.632	16.361	0.030000
660.484	16.183	0.030000
665.335	16.082	0.030000
670.186	16.079	0.030000
675.038	16.222	0.030000
679.385	16.284	0.030000
683.733	16.282	0.030000
688.081	16.309	0.030000
691.639	16.339	0.030000
695.196	16.391	0.030000
698.753	16.413	0.030000
703.101	16.545	0.030000
707.449	16.409	0.030000
711.797	16.362	0.030000
715.233	16.363	0.030000
718.669	16.415	0.030000
722.105	16.384	0.030000
725.438	16.502	0.030000
728.771	16.464	0.030000
732.105	16.321	0.030000
736.292	16.400	0.030000
740.479	16.370	0.030000
744.667	16.265	0.030000
748.854	16.158	0.030000
753.042	16.264	0.030000
757.229	16.305	0.030000
761.229	16.273	0.030000
765.229	16.271	0.030000
769.229	16.321	0.030000
773.229	16.332	0.030000
777.229	16.343	0.030000
782.229	16.323	0.030000
787.229	16.308	0.030000
790.979	16.327	0.030000
794.729	16.344	0.030000
798.479	16.297	0.030000
802.229	16.248	0.030000
806.352	16.229	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

810.476	16.297	0.030000
814.599	16.400	0.030000
818.722	16.257	0.030000
822.845	16.209	0.030000
827.145	16.249	0.030000
831.446	16.227	0.030000
835.746	16.209	0.030000
840.047	16.153	0.030000
844.348	16.186	0.030000
848.648	16.233	0.030000
852.949	16.210	0.030000
857.949	16.306	0.030000
862.949	16.440	0.030000
866.699	16.578	0.030000
870.449	16.912	0.030000
874.199	16.866	0.030000
877.949	16.730	0.030000
882.949	16.649	0.030000
887.949	16.680	0.030000
892.949	16.750	0.030000
896.750	16.783	0.030000
900.552	16.830	0.030000
904.354	16.860	0.030000
908.156	16.922	0.030000
911.882	16.975	0.030000
915.609	17.130	0.030000
919.336	17.130	0.030000
923.289	17.113	0.030000
927.242	17.202	0.030000
931.194	17.087	0.030000
935.147	17.031	0.030000
939.694	16.989	0.030000
944.241	16.960	0.030000
948.788	16.956	0.030000
953.334	16.910	0.030000
958.303	16.877	0.030000
963.273	16.834	0.030000
968.242	16.776	0.030000
973.211	16.767	0.030000
978.180	16.724	0.030000
983.149	16.751	0.030000
988.118	16.730	0.030000
993.087	16.619	0.030000
998.056	16.684	0.030000
1003.025	16.805	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1007.995	16.831	0.030000
1012.964	16.839	0.030000
1017.933	16.856	0.030000
1022.902	16.877	0.030000
1027.871	16.904	0.030000
1032.840	16.836	0.030000
1037.809	16.726	0.030000
1042.778	16.773	0.030000
1047.747	16.811	0.030000
1052.716	16.710	0.030000
1057.686	16.614	0.030000
1062.655	16.568	0.030000
1067.624	16.586	0.030000
1072.593	16.653	0.030000
1077.562	16.737	0.030000
1082.531	16.853	0.030000
1087.500	16.938	0.030000
1092.469	16.921	0.030000
1097.438	16.947	0.030000
1102.408	17.007	0.030000
1107.377	17.079	0.030000
1112.346	17.184	0.030000
1117.315	17.169	0.030000
1122.284	17.209	0.030000
1127.253	17.028	0.030000
1132.222	16.769	0.030000
1137.191	16.908	0.030000
1142.160	16.943	0.030000
1147.129	16.971	0.030000
1152.099	16.906	0.030000
1157.068	16.850	0.030000
1162.037	16.909	0.030000
1167.006	17.111	0.030000
1171.975	16.989	0.030000
1176.944	16.835	0.030000
1181.913	16.805	0.030000
1186.882	16.624	0.030000
1191.851	16.402	0.030000
1196.820	16.602	0.030000
1201.790	16.640	0.030000
1206.759	16.614	0.030000
1211.728	16.507	0.030000
1216.697	16.395	0.030000
1221.666	16.422	0.030000
1226.635	16.376	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1231.604	16.293	0.030000
1236.573	16.257	0.030000
1241.542	16.270	0.030000
1246.512	16.136	0.030000
1251.481	16.145	0.030000
1256.450	16.203	0.030000
1261.419	16.164	0.030000
1266.388	16.167	0.030000
1271.357	16.125	0.030000
1276.326	16.216	0.030000
1281.295	16.265	0.030000
1286.264	16.312	0.030000
1291.233	16.366	0.030000
1296.203	16.398	0.030000
1301.172	16.369	0.030000
1306.141	16.348	0.030000
1311.110	16.426	0.030000
1316.079	16.364	0.030000
1321.048	16.421	0.030000
1326.017	16.399	0.030000
1330.986	16.390	0.030000
1335.955	16.407	0.030000
1340.924	16.449	0.030000
1345.893	16.447	0.030000
1350.863	16.558	0.030000
1355.832	16.571	0.030000
1360.801	16.453	0.030000
1365.770	16.469	0.030000
1370.739	16.446	0.030000
1375.708	16.424	0.030000
1380.677	16.369	0.030000
1385.646	16.429	0.030000
1390.616	16.461	0.030000
1395.585	16.393	0.030000
1400.554	16.320	0.030000
1405.523	16.432	0.030000
1410.492	16.279	0.030000
1415.461	16.251	0.030000
1420.430	16.230	0.030000
1425.399	16.309	0.030000
1430.368	16.219	0.030000
1435.337	16.210	0.030000
1440.306	16.278	0.030000
1445.276	16.129	0.030000
1450.245	16.111	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1455.214	16.129	0.030000
1460.183	16.157	0.030000
1465.152	16.099	0.030000
1470.121	16.042	0.030000
1475.090	16.080	0.030000
1480.059	16.076	0.030000
1485.028	16.049	0.030000
1489.997	16.035	0.030000
1494.967	16.091	0.030000
1499.936	16.152	0.030000
1504.905	16.111	0.030000
1509.874	16.129	0.030000
1514.843	16.088	0.030000
1519.812	16.093	0.030000
1524.781	16.060	0.030000
1529.750	16.097	0.030000
1534.719	16.110	0.030000
1539.689	16.065	0.030000
1544.658	16.142	0.030000
1549.627	16.240	0.030000
1554.596	16.230	0.030000
1559.565	16.282	0.030000
1564.534	16.343	0.030000
1569.503	16.387	0.030000
1574.472	16.424	0.030000
1579.441	16.407	0.030000
1584.411	16.467	0.030000
1589.380	16.465	0.030000
1594.349	16.516	0.030000
1599.318	16.604	0.030000
1604.287	16.719	0.030000
1609.256	16.818	0.030000
1614.225	16.895	0.030000
1619.194	16.931	0.030000
1624.163	16.923	0.030000
1629.132	16.985	0.030000
1634.102	16.941	0.030000
1639.071	16.981	0.030000
1644.040	16.958	0.030000
1649.009	16.846	0.030000
1653.978	16.722	0.030000
1658.947	16.638	0.030000
1663.916	16.577	0.030000
1668.885	16.719	0.030000
1673.854	17.010	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1678.824	17.119	0.030000
1683.793	17.173	0.030000
1688.762	17.226	0.030000
1693.731	17.323	0.030000
1698.700	17.316	0.030000
1703.669	17.009	0.030000
1708.638	16.872	0.030000
1713.607	16.914	0.030000
1718.576	17.034	0.030000
1723.545	17.034	0.030000
1728.515	16.960	0.030000
1733.484	16.876	0.030000
1738.453	17.049	0.030000
1743.422	17.278	0.030000
1748.391	17.262	0.030000
1753.360	17.149	0.030000

Name: XC0050B      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.944	0.030000
4.988	16.876	0.030000
9.976	16.780	0.030000
14.964	16.688	0.030000
19.952	16.658	0.030000
24.941	16.587	0.030000
29.929	16.607	0.030000
34.917	16.556	0.030000
39.905	16.488	0.030000
44.893	16.432	0.030000
49.881	16.411	0.030000
54.869	16.328	0.030000
59.857	16.225	0.030000
64.845	16.214	0.030000
69.833	16.181	0.030000
74.822	16.127	0.030000
79.810	16.088	0.030000
84.798	16.023	0.030000
89.786	15.970	0.030000
94.774	15.991	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

99.762	15.958	0.030000
104.750	15.886	0.030000
109.738	15.861	0.030000
114.726	15.814	0.030000
119.714	15.774	0.030000
124.702	15.724	0.030000
129.690	15.733	0.030000
134.679	15.589	0.030000
139.667	15.622	0.030000
144.655	15.591	0.030000
149.643	15.533	0.030000
154.631	15.497	0.030000
159.619	15.420	0.030000
164.607	15.345	0.030000
169.595	15.322	0.030000
174.583	15.285	0.030000
179.571	15.210	0.030000
184.560	15.145	0.030000
189.548	15.080	0.030000
194.536	15.029	0.030000
199.524	14.993	0.030000
204.512	14.964	0.030000
209.500	14.899	0.030000
214.488	14.846	0.030000
219.476	14.814	0.030000
224.464	14.753	0.030000
229.452	14.704	0.030000
234.441	14.652	0.030000
239.429	14.646	0.030000
244.417	14.599	0.030000
249.405	14.505	0.030000
254.393	14.489	0.030000
259.381	14.463	0.030000
264.369	14.430	0.030000
269.357	14.408	0.030000
274.345	14.373	0.030000
279.334	14.322	0.030000
284.322	14.249	0.030000
289.310	14.227	0.030000
294.298	14.242	0.030000
299.286	14.186	0.030000
304.274	14.066	0.030000
309.262	14.041	0.030000
314.250	14.041	0.030000
319.238	13.962	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

324.226	13.927	0.030000
329.214	13.841	0.030000
334.202	13.826	0.030000
339.191	13.808	0.030000
344.179	13.818	0.030000
349.167	13.773	0.030000
354.155	13.707	0.030000
359.143	13.691	0.030000
364.131	13.671	0.030000
369.119	13.627	0.030000
374.107	13.609	0.030000
379.095	13.564	0.030000
384.084	13.534	0.030000
389.072	13.526	0.030000
394.060	13.515	0.030000
399.048	13.591	0.030000
404.036	13.605	0.030000
409.024	13.569	0.030000
414.012	13.598	0.030000
419.000	13.633	0.030000
423.988	13.651	0.030000
428.976	13.665	0.030000
433.964	13.701	0.030000
438.953	13.767	0.030000
443.941	13.774	0.030000
448.929	13.793	0.030000
453.917	13.824	0.030000
458.905	13.859	0.030000
463.893	13.924	0.030000
468.881	13.938	0.030000
473.869	13.971	0.030000
478.857	13.972	0.030000
483.846	13.957	0.030000
488.834	13.926	0.030000
493.822	13.937	0.030000
498.810	13.955	0.030000
503.798	13.993	0.030000
508.786	13.972	0.030000
513.774	13.960	0.030000
518.762	13.985	0.030000
523.750	14.033	0.030000
528.738	14.024	0.030000
533.726	13.963	0.030000
538.715	13.964	0.030000
543.703	13.952	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

548.691	13.963	0.030000
553.679	13.972	0.030000
558.667	13.957	0.030000
563.655	13.968	0.030000
568.643	13.992	0.030000
573.631	14.057	0.030000
578.619	14.042	0.030000
583.607	14.108	0.030000
588.596	14.222	0.030000
593.584	14.280	0.030000
598.572	14.309	0.030000
603.560	14.380	0.030000
608.548	14.444	0.030000
613.536	14.459	0.030000
618.524	14.386	0.030000
623.512	14.358	0.030000
628.500	14.393	0.030000
633.488	14.260	0.030000
638.476	14.175	0.030000
643.465	14.155	0.030000
648.453	14.144	0.030000
653.441	14.296	0.030000
658.429	14.301	0.030000
663.417	14.206	0.030000
668.405	14.214	0.030000
673.393	14.314	0.030000
678.381	14.458	0.030000
683.369	14.493	0.030000
688.357	14.433	0.030000
693.346	14.325	0.030000
698.334	14.315	0.030000
703.322	14.346	0.030000
708.310	14.324	0.030000
713.298	14.317	0.030000
718.286	14.328	0.030000
723.274	14.348	0.030000
728.262	14.378	0.030000
733.250	14.430	0.030000
738.239	14.391	0.030000
743.226	14.390	0.030000
748.215	14.420	0.030000
753.203	14.399	0.030000
758.191	14.390	0.030000
763.179	14.347	0.030000
768.167	14.336	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

773.155	14.396	0.030000
778.143	14.475	0.030000
783.131	14.427	0.030000
788.119	14.467	0.030000
793.107	14.517	0.030000
798.096	14.452	0.030000
803.084	14.489	0.030000
808.072	14.470	0.030000
813.060	14.641	0.030000
818.048	14.865	0.030000
823.036	14.790	0.030000
828.024	14.637	0.030000
833.012	14.517	0.030000
838.000	14.509	0.030000
842.989	14.508	0.030000
847.977	14.558	0.030000
852.965	14.560	0.030000
857.953	14.742	0.030000

-----

Name: XC0050C	Group: C
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	17.460	0.030000
18.355	16.102	0.030000
36.709	15.501	0.030000
55.771	15.751	0.030000
75.538	16.355	0.030000
95.306	16.128	0.030000
115.073	16.363	0.030000
134.841	16.544	0.030000
153.057	16.937	0.030000
168.183	16.880	0.030000
183.398	16.824	0.030000
196.834	16.715	0.030000
211.642	16.515	0.030000
229.642	16.215	0.030000
246.412	15.994	0.030000
263.667	16.013	0.030000
279.441	15.981	0.030000
294.516	15.912	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

311.333	16.017	0.030000
329.020	15.904	0.030000
346.863	15.695	0.030000
364.736	15.834	0.030000
381.946	16.002	0.030000
398.707	15.851	0.030000
415.749	15.448	0.030000
433.985	15.175	0.030000
452.379	15.389	0.030000
470.057	15.799	0.030000
487.065	15.394	0.030000
503.315	15.074	0.030000
523.315	14.860	0.030000
539.720	14.358	0.030000
553.830	14.481	0.030000
573.813	13.986	0.030000
593.795	14.233	0.030000
613.778	15.060	0.030000
633.760	15.570	0.030000
653.743	15.510	0.030000
673.725	15.525	0.030000
693.678	15.578	0.030000
713.538	15.710	0.030000
733.398	15.972	0.030000
753.259	15.887	0.030000
772.139	15.710	0.030000
789.043	15.659	0.030000
808.836	15.935	0.030000
828.629	15.592	0.030000
848.422	15.687	0.030000
868.215	16.167	0.030000
888.008	16.193	0.030000
907.801	15.928	0.030000
927.594	16.338	0.030000
947.387	16.220	0.030000
967.180	16.124	0.030000
986.973	15.652	0.030000
1006.766	15.762	0.030000
1026.559	15.941	0.030000
1046.356	15.724	0.030000
1065.243	16.113	0.030000
1081.367	15.554	0.030000
1096.367	15.580	0.030000
1112.178	14.855	0.030000
1125.922	14.814	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1140.294	14.669	0.030000
1154.794	14.592	0.030000
1170.294	14.597	0.030000
1187.094	14.591	0.030000
1204.297	14.588	0.030000
1221.953	14.552	0.030000
1239.703	15.528	0.030000
1257.012	16.212	0.030000
1271.807	16.336	0.030000
1289.361	16.287	0.030000
1306.953	16.321	0.030000
1323.501	16.323	0.030000
1341.038	16.466	0.030000
1359.166	16.555	0.030000
1374.373	16.718	0.030000
1391.060	16.808	0.030000
1406.908	16.797	0.030000
1423.091	16.623	0.030000
1439.811	16.383	0.030000
1456.124	16.612	0.030000
1474.533	16.078	0.030000
1492.838	15.557	0.030000
1510.436	15.036	0.030000
1527.433	15.243	0.030000
1545.403	15.739	0.030000
1563.560	16.287	0.030000
1580.858	16.602	0.030000
1598.001	16.667	0.030000
1615.858	16.382	0.030000
1632.263	16.452	0.030000
1647.761	16.281	0.030000
1665.146	16.532	0.030000
1682.724	16.517	0.030000
1697.658	16.390	0.030000
1713.187	16.144	0.030000
1727.130	16.074	0.030000
1741.846	16.111	0.030000
1755.955	16.292	0.030000
1772.361	16.573	0.030000
1790.707	16.393	0.030000
1808.657	16.584	0.030000
1822.401	16.614	0.030000
1837.519	16.697	0.030000
1854.303	16.484	0.030000
1871.655	16.311	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1888.500	16.934	0.030000
1906.570	16.689	0.030000
1925.125	16.756	0.030000
1939.644	17.034	0.030000
1957.144	17.018	0.030000
1974.404	16.471	0.030000
1992.876	15.865	0.030000
2010.183	15.989	0.030000
2029.099	15.714	0.030000
2047.361	15.823	0.030000
2063.900	16.288	0.030000
2081.162	16.672	0.030000
2096.853	16.154	0.030000
2112.664	15.854	0.030000
2130.802	15.932	0.030000

Name: XC0051C                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.859	0.030000
4.957	14.865	0.030000
9.915	14.870	0.030000
14.872	14.937	0.030000
19.829	14.890	0.030000
24.786	14.794	0.030000
29.744	14.785	0.030000
34.701	14.813	0.030000
39.658	14.870	0.030000
44.615	14.868	0.030000
49.572	14.849	0.030000
54.530	14.829	0.030000
59.487	14.866	0.030000
64.444	14.888	0.030000
69.401	14.879	0.030000
74.359	14.803	0.030000
79.316	14.837	0.030000
84.273	14.848	0.030000
89.231	14.830	0.030000
94.188	14.809	0.030000
99.145	14.800	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

104.102	14.882	0.030000
109.060	14.930	0.030000
114.059	14.975	0.030000
119.059	15.068	0.030000
124.059	15.132	0.030000
129.058	15.128	0.030000
134.058	15.070	0.030000
139.058	14.998	0.030000
144.057	14.952	0.030000
149.057	14.924	0.030000
154.057	14.942	0.030000
159.056	14.840	0.030000
164.056	14.803	0.030000
169.056	14.812	0.030000
174.055	14.818	0.030000
179.055	14.824	0.030000
184.055	14.829	0.030000
189.055	14.832	0.030000
194.054	14.848	0.030000
199.054	14.759	0.030000
204.054	14.928	0.030000
209.053	14.975	0.030000
214.053	14.932	0.030000
219.053	14.914	0.030000
224.053	14.916	0.030000
229.052	14.925	0.030000
234.052	14.910	0.030000
239.052	14.836	0.030000
244.051	14.789	0.030000
249.051	14.748	0.030000
254.051	14.725	0.030000
259.050	14.719	0.030000
264.050	14.716	0.030000
269.050	14.713	0.030000
274.050	14.712	0.030000
279.049	14.713	0.030000
284.049	14.714	0.030000
289.049	14.695	0.030000
294.048	14.650	0.030000
299.048	14.687	0.030000
304.048	14.769	0.030000
309.047	14.801	0.030000
314.047	14.756	0.030000
319.047	14.688	0.030000
324.046	14.639	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

329.046	14.598	0.030000
334.046	14.608	0.030000
339.046	14.529	0.030000
344.045	14.561	0.030000
349.045	14.731	0.030000
354.045	14.908	0.030000
359.044	14.917	0.030000
364.044	14.841	0.030000
369.044	14.748	0.030000
374.043	14.603	0.030000
379.043	14.596	0.030000
384.043	14.763	0.030000
389.043	14.663	0.030000
394.042	14.566	0.030000
399.042	14.619	0.030000
404.042	14.704	0.030000
409.041	14.735	0.030000
414.041	14.765	0.030000
419.041	14.752	0.030000
424.041	14.567	0.030000
429.040	14.552	0.030000
434.040	14.653	0.030000
439.040	14.700	0.030000
444.039	14.669	0.030000
449.039	14.613	0.030000
454.039	14.561	0.030000
459.038	14.506	0.030000
464.038	14.448	0.030000
469.038	14.594	0.030000
474.038	14.607	0.030000
479.037	14.689	0.030000
484.037	14.826	0.030000
489.037	14.870	0.030000
494.036	14.852	0.030000
499.036	14.824	0.030000
504.036	14.805	0.030000
509.035	14.796	0.030000
514.035	14.813	0.030000
519.035	14.928	0.030000
524.034	14.917	0.030000
529.034	14.852	0.030000
534.034	14.856	0.030000
539.034	14.880	0.030000
544.033	14.897	0.030000
549.033	14.909	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

554.033	14.907	0.030000
559.032	14.919	0.030000
564.032	14.951	0.030000
569.032	14.944	0.030000
574.032	14.924	0.030000
579.031	14.988	0.030000
584.031	15.096	0.030000
589.031	15.130	0.030000
594.030	15.063	0.030000
599.030	15.009	0.030000
604.030	15.000	0.030000
609.029	15.133	0.030000
614.029	15.248	0.030000
619.029	15.287	0.030000
624.029	15.365	0.030000
629.028	15.407	0.030000
634.028	15.404	0.030000
639.028	15.389	0.030000
643.949	15.357	0.030000
648.871	15.338	0.030000
653.793	15.321	0.030000
658.715	15.336	0.030000
663.637	15.387	0.030000
668.558	15.428	0.030000
673.480	15.465	0.030000
678.402	15.499	0.030000
683.324	15.533	0.030000
688.245	15.567	0.030000
693.167	15.600	0.030000
698.089	15.617	0.030000
703.011	15.607	0.030000
707.933	15.606	0.030000
712.854	15.648	0.030000
717.776	15.692	0.030000
722.698	15.737	0.030000
727.620	15.781	0.030000
732.542	15.827	0.030000
737.463	15.873	0.030000
742.385	15.938	0.030000
747.307	16.041	0.030000
752.229	16.084	0.030000
757.150	16.115	0.030000
762.072	16.148	0.030000
766.994	16.176	0.030000
771.916	16.204	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

776.838	16.238	0.030000
781.760	16.290	0.030000
786.681	16.346	0.030000
791.603	16.401	0.030000
796.525	16.459	0.030000
801.447	16.494	0.030000
806.368	16.529	0.030000
811.290	16.564	0.030000
816.212	16.598	0.030000
821.134	16.633	0.030000
826.056	16.665	0.030000
830.977	16.487	0.030000
835.899	16.862	0.030000
840.821	17.002	0.030000

---

Name: XC0060A	Group: C
Encroachment: No	

---

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

---

0.000	17.596	0.030000
4.928	17.278	0.030000
9.856	16.951	0.030000
14.785	16.867	0.030000
19.713	16.754	0.030000
24.641	16.664	0.030000
29.570	16.518	0.030000
34.498	16.353	0.030000
39.426	16.245	0.030000
44.354	16.785	0.030000
49.283	16.914	0.030000
54.211	17.051	0.030000
59.139	17.314	0.030000
64.067	17.449	0.030000
68.996	17.198	0.030000
73.924	17.034	0.030000
78.852	17.087	0.030000
83.781	17.189	0.030000
88.709	17.192	0.030000
93.637	17.073	0.030000
98.565	16.948	0.030000
103.494	17.251	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

108.422	17.508	0.030000
113.350	17.515	0.030000
118.278	17.429	0.030000
123.207	17.292	0.030000
128.135	17.299	0.030000
133.063	17.534	0.030000
137.992	17.617	0.030000
142.893	17.417	0.030000
147.794	17.218	0.030000
152.695	17.096	0.030000
157.596	17.010	0.030000
162.497	16.990	0.030000
167.398	17.021	0.030000
172.299	17.131	0.030000
177.201	17.496	0.030000
182.102	17.788	0.030000
187.003	17.804	0.030000
191.904	17.765	0.030000
196.805	17.779	0.030000
201.706	17.667	0.030000
206.607	17.418	0.030000
211.509	17.281	0.030000
216.410	17.509	0.030000
221.311	17.642	0.030000
226.212	17.478	0.030000
231.113	17.413	0.030000
236.014	17.629	0.030000
240.916	17.610	0.030000
245.817	17.364	0.030000
250.718	17.422	0.030000
255.619	17.368	0.030000
260.520	17.529	0.030000
265.421	17.848	0.030000
270.322	17.912	0.030000
275.224	17.985	0.030000
280.125	17.994	0.030000
285.026	17.935	0.030000
289.927	17.914	0.030000
294.828	17.922	0.030000
299.729	17.919	0.030000
304.630	17.845	0.030000
309.614	18.098	0.030000
314.598	18.197	0.030000
319.581	18.230	0.030000
324.565	18.242	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

329.548	18.129	0.030000
334.532	18.003	0.030000
339.515	18.008	0.030000
344.499	18.029	0.030000
349.483	18.098	0.030000
354.466	18.113	0.030000
359.450	18.072	0.030000
364.433	18.301	0.030000
369.417	18.302	0.030000
374.401	18.231	0.030000
379.384	18.302	0.030000
384.368	18.246	0.030000
389.351	18.335	0.030000
394.335	18.319	0.030000
399.319	18.351	0.030000
404.302	18.314	0.030000
409.286	18.052	0.030000
414.270	18.063	0.030000
419.253	18.186	0.030000
424.237	18.191	0.030000
429.220	18.168	0.030000
434.204	18.259	0.030000
439.188	18.257	0.030000
444.171	18.198	0.030000
449.155	18.344	0.030000
454.138	18.464	0.030000
459.122	18.473	0.030000
464.106	18.361	0.030000
469.089	18.232	0.030000
474.073	18.297	0.030000
479.056	18.457	0.030000
484.040	18.263	0.030000
489.024	18.157	0.030000
494.007	18.145	0.030000
498.991	18.086	0.030000
503.974	17.991	0.030000
508.958	18.111	0.030000
513.942	18.245	0.030000
518.925	18.087	0.030000
523.909	18.107	0.030000
528.892	18.297	0.030000
533.876	18.251	0.030000
538.860	18.206	0.030000
543.843	18.168	0.030000
548.827	18.133	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

553.810	18.373	0.030000
558.794	18.149	0.030000
563.778	18.191	0.030000
568.761	18.264	0.030000
573.745	18.173	0.030000
578.728	18.096	0.030000

-----

Name: XC0070B	Group: C
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	17.661	0.030000
4.651	17.480	0.030000
9.302	17.355	0.030000
13.953	17.366	0.030000
18.604	17.455	0.030000
23.254	17.778	0.030000
27.905	17.840	0.030000
32.556	17.786	0.030000
37.207	17.633	0.030000
41.858	17.429	0.030000
46.509	17.133	0.030000
51.160	16.879	0.030000
55.810	16.824	0.030000
60.461	16.751	0.030000
65.112	16.715	0.030000
69.641	16.689	0.030000
74.170	16.680	0.030000
78.699	16.647	0.030000
83.500	16.636	0.030000
88.301	16.621	0.030000
93.273	16.665	0.030000
98.246	16.573	0.030000
103.220	16.563	0.030000
108.193	16.568	0.030000
113.165	16.465	0.030000
118.138	16.480	0.030000
123.111	16.493	0.030000
128.084	16.448	0.030000
133.057	16.382	0.030000
138.030	16.317	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

143.003	16.216	0.030000
147.976	16.167	0.030000
152.949	16.182	0.030000
157.922	16.274	0.030000
162.895	16.383	0.030000
167.868	16.462	0.030000
172.841	16.613	0.030000
177.814	16.686	0.030000
182.787	16.772	0.030000
187.760	16.797	0.030000
192.733	16.839	0.030000
197.706	16.898	0.030000
202.679	16.904	0.030000
207.652	16.900	0.030000
212.625	16.932	0.030000
217.598	16.959	0.030000
222.571	16.954	0.030000
227.544	16.932	0.030000
232.517	17.008	0.030000
237.430	16.985	0.030000
242.343	16.955	0.030000
247.256	16.955	0.030000
252.170	16.939	0.030000
257.083	16.958	0.030000
261.996	17.038	0.030000
266.909	17.113	0.030000
271.822	17.169	0.030000
276.735	17.241	0.030000
281.649	17.327	0.030000
286.562	17.437	0.030000
291.475	17.467	0.030000
296.388	17.494	0.030000
301.222	17.542	0.030000
306.056	17.612	0.030000
310.890	17.659	0.030000
315.724	17.713	0.030000
320.559	17.679	0.030000
325.393	17.651	0.030000
330.227	17.790	0.030000
335.061	17.773	0.030000
339.895	17.846	0.030000
344.729	17.799	0.030000
349.563	17.873	0.030000
354.558	17.838	0.030000
359.552	17.864	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

364.546	17.921	0.030000
369.541	17.904	0.030000
374.535	17.774	0.030000
379.530	17.508	0.030000
384.524	17.406	0.030000
389.519	17.113	0.030000
394.513	16.771	0.030000
399.507	16.453	0.030000
404.502	16.528	0.030000
409.496	16.789	0.030000
414.491	16.690	0.030000
419.485	16.685	0.030000
424.480	16.710	0.030000
429.474	16.645	0.030000
434.468	16.623	0.030000
439.463	16.645	0.030000
444.457	16.610	0.030000
449.452	16.608	0.030000
454.446	16.398	0.030000
459.440	16.276	0.030000
464.435	16.346	0.030000
469.429	16.263	0.030000
474.424	16.331	0.030000
479.418	16.371	0.030000
484.413	16.239	0.030000
489.407	16.163	0.030000
494.402	16.199	0.030000
499.396	16.100	0.030000
504.390	16.080	0.030000
509.385	16.316	0.030000
514.379	16.369	0.030000
519.374	16.319	0.030000
524.368	16.366	0.030000
529.362	16.363	0.030000
534.357	16.284	0.030000
539.351	16.580	0.030000
544.346	16.863	0.030000
549.340	16.877	0.030000
554.335	16.760	0.030000
559.329	16.615	0.030000
564.323	16.642	0.030000
569.318	16.628	0.030000
574.312	16.681	0.030000
579.307	16.609	0.030000
584.301	16.498	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

589.295	16.532	0.030000
594.290	16.514	0.030000
599.284	16.544	0.030000
604.279	16.616	0.030000
609.273	16.669	0.030000
614.268	16.686	0.030000
619.262	16.656	0.030000
624.256	16.655	0.030000
629.251	16.681	0.030000
634.245	16.688	0.030000
639.240	16.728	0.030000
644.234	16.747	0.030000
649.229	16.729	0.030000
654.223	16.669	0.030000
659.217	16.576	0.030000
664.212	16.573	0.030000
669.206	16.650	0.030000
674.201	16.758	0.030000
679.195	16.703	0.030000
684.190	16.682	0.030000
689.184	16.795	0.030000
694.178	16.704	0.030000
699.173	16.484	0.030000
704.167	16.579	0.030000
709.162	16.724	0.030000
714.156	16.777	0.030000
719.151	16.987	0.030000
724.145	17.087	0.030000
729.139	17.154	0.030000
734.134	17.170	0.030000
739.128	17.203	0.030000
744.123	17.286	0.030000
749.117	17.373	0.030000
754.111	17.438	0.030000
759.106	17.356	0.030000
764.100	17.392	0.030000
769.095	17.639	0.030000
774.089	17.752	0.030000
779.084	17.783	0.030000
784.078	17.602	0.030000
789.072	17.400	0.030000
794.067	17.326	0.030000
799.061	17.240	0.030000
804.056	17.252	0.030000
809.050	17.321	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

814.045	17.355	0.030000
819.039	17.439	0.030000
824.033	17.531	0.030000
829.028	17.485	0.030000
834.022	17.375	0.030000
839.017	17.464	0.030000
844.011	17.571	0.030000
849.006	17.565	0.030000
853.955	17.591	0.030000
858.904	17.767	0.030000
863.853	17.773	0.030000
868.803	17.845	0.030000
873.752	17.854	0.030000
878.701	17.764	0.030000
883.650	17.829	0.030000
888.599	17.927	0.030000
893.549	17.862	0.030000
898.498	18.121	0.030000
903.447	18.444	0.030000
908.396	18.804	0.030000
913.346	18.681	0.030000
918.295	18.483	0.030000
923.244	18.282	0.030000
928.193	18.138	0.030000
933.142	18.120	0.030000
938.092	18.188	0.030000
943.041	18.194	0.030000
947.990	18.321	0.030000
952.939	18.453	0.030000
957.889	18.513	0.030000
962.838	18.667	0.030000
967.787	18.674	0.030000
972.736	18.680	0.030000
977.685	18.616	0.030000
982.635	18.484	0.030000
987.584	18.391	0.030000
992.533	18.159	0.030000
997.482	17.803	0.030000
1002.432	17.789	0.030000
1007.381	17.898	0.030000
1012.330	17.843	0.030000
1017.279	17.955	0.030000
1022.229	17.982	0.030000
1027.178	17.706	0.030000
1032.127	17.646	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1037.076	17.696	0.030000
1042.025	17.817	0.030000
1046.975	18.071	0.030000
1051.924	18.228	0.030000
1056.873	18.257	0.030000
1061.822	18.154	0.030000
1066.772	18.110	0.030000
1071.721	18.065	0.030000
1076.670	17.921	0.030000
1081.619	17.833	0.030000
1086.568	17.883	0.030000
1091.518	17.885	0.030000
1096.467	17.930	0.030000
1101.416	18.036	0.030000
1106.365	18.053	0.030000
1111.315	17.892	0.030000
1116.264	17.666	0.030000
1121.213	17.513	0.030000
1125.977	17.590	0.030000
1130.740	17.668	0.030000
1135.504	17.629	0.030000
1140.267	17.513	0.030000
1145.031	17.483	0.030000
1149.794	17.483	0.030000
1154.558	17.562	0.030000
1159.321	17.623	0.030000
1164.085	17.785	0.030000
1168.848	17.721	0.030000
1173.612	17.660	0.030000
1178.376	17.789	0.030000
1183.139	18.035	0.030000
1187.902	17.983	0.030000
1192.666	17.922	0.030000
1197.430	17.883	0.030000
1202.193	17.704	0.030000
1206.957	17.866	0.030000
1211.720	18.096	0.030000

-----  
Name: XC0100A\_1                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	13.009	0.085000
4.678	11.528	0.085000
9.355	11.360	0.085000
14.033	12.295	0.085000
18.710	12.982	0.085000

Name: XC0100A\_2                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.051	0.085000
4.536	11.470	0.085000
9.071	10.244	0.085000
13.607	10.805	0.085000
18.143	12.981	0.085000

Name: XC0100B                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.163	0.030000
4.886	14.139	0.030000
9.772	14.303	0.030000
14.658	14.342	0.030000
19.544	14.347	0.030000
24.429	14.283	0.030000
29.315	14.324	0.030000
34.201	14.291	0.030000
39.087	14.214	0.030000
43.973	14.336	0.030000
48.859	14.311	0.030000
53.745	14.396	0.030000
58.631	14.387	0.030000
63.517	14.462	0.030000
68.402	14.487	0.030000
73.288	14.434	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

78.174	14.320	0.030000
83.017	14.243	0.030000
87.861	14.152	0.030000
92.704	14.259	0.030000
97.547	14.309	0.030000
102.391	14.486	0.030000
107.234	14.810	0.030000
112.077	14.979	0.030000
116.921	15.081	0.030000
121.764	15.529	0.030000
126.607	15.685	0.030000
131.450	15.621	0.030000
136.294	15.613	0.030000
141.137	15.743	0.030000
145.980	15.758	0.030000
150.824	15.505	0.030000
155.667	15.328	0.030000
160.510	15.225	0.030000
165.353	15.454	0.030000
170.197	15.478	0.030000
175.040	15.263	0.030000
179.883	15.498	0.030000
184.727	15.746	0.030000
189.570	15.871	0.030000
194.413	15.762	0.030000
199.256	15.653	0.030000
204.100	15.551	0.030000
208.943	15.490	0.030000
213.924	15.476	0.030000
218.905	15.456	0.030000
223.887	15.513	0.030000
228.868	15.633	0.030000
233.849	15.557	0.030000
238.830	15.631	0.030000
243.811	15.490	0.030000
248.792	15.545	0.030000
253.773	15.476	0.030000
258.755	15.535	0.030000
263.736	15.471	0.030000
268.717	15.164	0.030000
273.698	15.191	0.030000
278.679	15.355	0.030000
283.660	15.393	0.030000
288.641	15.517	0.030000
293.622	15.540	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

298.604	15.499	0.030000
303.585	15.461	0.030000
308.566	15.423	0.030000
313.547	15.386	0.030000
318.528	15.361	0.030000
323.509	15.353	0.030000
328.490	15.388	0.030000
333.471	15.415	0.030000
338.453	15.607	0.030000
343.434	15.822	0.030000
348.415	15.821	0.030000
353.396	15.753	0.030000
358.377	15.744	0.030000
363.358	15.775	0.030000
368.339	15.771	0.030000
373.321	15.748	0.030000
378.302	15.804	0.030000
383.283	15.850	0.030000
388.264	15.809	0.030000
393.245	15.738	0.030000
398.226	15.666	0.030000
403.207	15.564	0.030000
408.189	15.358	0.030000
413.170	15.317	0.030000
418.151	15.268	0.030000
423.132	15.202	0.030000
428.113	15.254	0.030000
433.094	15.321	0.030000
438.075	15.521	0.030000
443.057	15.712	0.030000
448.038	15.768	0.030000
453.019	15.722	0.030000
458.000	15.841	0.030000
462.981	15.942	0.030000
467.962	15.884	0.030000
472.943	15.525	0.030000
477.925	15.263	0.030000
482.906	15.251	0.030000
487.887	15.121	0.030000
492.868	15.045	0.030000
497.849	15.066	0.030000
502.830	15.079	0.030000
507.811	15.552	0.030000
512.792	15.958	0.030000
517.774	15.805	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

522.755	15.512	0.030000
527.736	15.463	0.030000
532.717	15.669	0.030000
537.698	15.740	0.030000
542.679	15.745	0.030000
547.660	15.846	0.030000
552.641	15.949	0.030000
557.623	16.049	0.030000
562.604	16.079	0.030000

Name: XC0101B\_1                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.266	0.085000
4.179	12.291	0.085000
8.358	11.258	0.085000
12.538	10.924	0.085000
16.717	11.009	0.085000
20.896	11.666	0.085000
25.075	12.809	0.085000

Name: XC0101B\_2                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	12.975	0.085000
4.452	11.663	0.085000
8.904	10.847	0.085000
13.356	11.324	0.085000
17.808	12.810	0.085000

Name: XC0101C                      Group: C  
Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	14.163	0.030000
3.337	14.201	0.030000
6.675	14.374	0.030000
10.012	14.494	0.030000
14.540	14.627	0.030000
19.068	14.725	0.030000
23.596	14.763	0.030000
28.123	14.985	0.030000
32.651	14.917	0.030000
36.187	14.875	0.030000
39.722	14.829	0.030000
43.258	14.786	0.030000
48.258	14.747	0.030000
53.258	14.713	0.030000
55.758	14.698	0.030000
58.258	14.712	0.030000
63.258	14.757	0.030000
68.258	14.787	0.030000
73.258	14.817	0.030000
75.758	14.847	0.030000
78.258	14.851	0.030000
81.984	14.865	0.030000
85.711	14.874	0.030000
89.438	14.969	0.030000
93.188	14.967	0.030000
96.938	14.738	0.030000
100.688	14.781	0.030000
104.438	14.763	0.030000
109.038	14.691	0.030000
113.638	14.659	0.030000
118.238	14.676	0.030000
122.838	14.773	0.030000
127.438	14.754	0.030000
132.037	14.789	0.030000
136.637	14.814	0.030000
141.125	14.722	0.030000
145.613	14.697	0.030000
148.946	14.709	0.030000
152.279	14.636	0.030000
155.613	14.642	0.030000
160.271	14.667	0.030000
164.930	14.663	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

169.588	14.653	0.030000
174.247	14.664	0.030000
178.887	14.665	0.030000
183.529	14.653	0.030000
188.170	14.867	0.030000
192.810	14.632	0.030000
197.451	14.552	0.030000
202.092	14.567	0.030000
206.733	14.532	0.030000
211.374	14.512	0.030000
215.958	14.522	0.030000
220.541	14.541	0.030000
225.124	14.595	0.030000
229.187	14.558	0.030000
233.249	14.661	0.030000
237.312	14.670	0.030000
241.374	14.672	0.030000
244.708	14.664	0.030000
248.041	14.613	0.030000
251.374	14.606	0.030000
255.327	14.625	0.030000
259.280	14.652	0.030000
263.233	14.591	0.030000
267.186	14.574	0.030000
271.352	14.605	0.030000
275.519	14.646	0.030000
279.686	14.637	0.030000
283.852	14.600	0.030000
288.019	14.621	0.030000
292.186	14.662	0.030000
296.693	14.659	0.030000
301.200	14.600	0.030000
305.809	14.673	0.030000
310.419	14.646	0.030000
315.029	14.621	0.030000
319.639	14.808	0.030000
324.248	14.958	0.030000
327.998	14.916	0.030000
331.748	14.790	0.030000
335.498	14.940	0.030000
339.248	14.997	0.030000
343.848	14.997	0.030000
348.448	14.989	0.030000
353.048	14.978	0.030000
357.648	14.961	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

362.248	14.910	0.030000
366.848	14.873	0.030000
371.448	14.820	0.030000
375.577	14.732	0.030000
379.707	14.684	0.030000
383.836	14.619	0.030000
388.324	14.598	0.030000
392.812	14.623	0.030000
397.299	14.599	0.030000
401.466	14.641	0.030000
405.632	14.725	0.030000
409.799	14.775	0.030000
414.219	14.795	0.030000
418.638	14.812	0.030000
423.058	14.795	0.030000
427.477	14.761	0.030000
431.600	14.651	0.030000
435.723	14.554	0.030000
439.846	14.491	0.030000
443.969	14.575	0.030000
448.092	14.562	0.030000
452.490	14.472	0.030000
456.887	14.472	0.030000
461.757	14.486	0.030000
466.628	14.484	0.030000
471.498	14.481	0.030000
476.368	14.457	0.030000
481.238	14.403	0.030000
486.108	14.341	0.030000
490.978	14.280	0.030000
495.848	14.268	0.030000
500.718	14.290	0.030000
505.588	14.381	0.030000
510.458	14.523	0.030000
515.328	14.449	0.030000
520.198	14.458	0.030000
525.068	14.544	0.030000
529.938	14.615	0.030000
534.808	14.681	0.030000
539.679	14.685	0.030000
544.549	14.732	0.030000
549.419	14.776	0.030000
554.289	14.827	0.030000
559.159	14.871	0.030000
564.029	14.899	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

568.899	14.924	0.030000
573.769	14.820	0.030000
578.639	14.836	0.030000
583.509	14.896	0.030000
588.379	14.779	0.030000
593.249	14.847	0.030000
598.119	14.905	0.030000
602.990	14.866	0.030000
607.860	14.838	0.030000
612.730	14.855	0.030000
617.508	14.955	0.030000
622.286	15.121	0.030000
627.065	15.128	0.030000
631.843	14.973	0.030000
636.621	14.920	0.030000
641.400	14.889	0.030000
646.178	15.063	0.030000
650.957	15.147	0.030000
655.735	15.457	0.030000
660.513	15.237	0.030000
665.292	14.963	0.030000
670.070	14.911	0.030000
674.848	15.253	0.030000
679.627	15.349	0.030000
684.405	15.306	0.030000
689.184	15.289	0.030000
693.962	15.279	0.030000
698.740	15.303	0.030000
703.519	15.334	0.030000
708.297	15.319	0.030000
712.750	15.276	0.030000
717.203	15.233	0.030000
721.657	15.199	0.030000
726.110	15.228	0.030000
730.563	15.757	0.030000
735.016	15.626	0.030000
739.469	15.781	0.030000
743.922	15.677	0.030000
748.375	15.419	0.030000
752.177	15.396	0.030000
755.979	15.709	0.030000
759.780	15.936	0.030000
763.582	16.096	0.030000
768.582	16.197	0.030000
773.582	16.217	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

778.582	16.241	0.030000
781.082	16.292	0.030000
783.582	16.251	0.030000
787.384	16.309	0.030000
791.186	16.294	0.030000
794.987	16.230	0.030000
798.789	16.271	0.030000
803.647	16.397	0.030000
808.504	16.477	0.030000
813.362	16.352	0.030000
818.220	16.198	0.030000
823.077	16.236	0.030000
827.935	16.246	0.030000
832.793	16.248	0.030000
837.038	16.080	0.030000
841.284	15.868	0.030000
845.529	15.728	0.030000
850.113	15.692	0.030000
854.696	15.626	0.030000
859.279	15.466	0.030000
863.863	15.540	0.030000
868.208	15.491	0.030000
872.554	15.490	0.030000
876.900	15.559	0.030000
881.245	15.717	0.030000
885.591	15.991	0.030000
889.937	16.055	0.030000
894.282	15.810	0.030000
898.868	15.797	0.030000
903.453	15.740	0.030000
908.039	15.788	0.030000
912.624	15.805	0.030000
917.209	15.902	0.030000
921.795	15.919	0.030000
926.380	16.013	0.030000
930.966	15.992	0.030000
935.551	15.872	0.030000
939.800	15.919	0.030000
944.049	16.039	0.030000
948.299	16.201	0.030000
952.548	16.260	0.030000
955.938	16.118	0.030000
959.329	15.969	0.030000
962.720	15.959	0.030000
967.720	15.932	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

972.720	15.923	0.030000
976.111	15.965	0.030000
979.501	16.053	0.030000
982.892	16.072	0.030000
987.379	15.883	0.030000
991.866	15.792	0.030000
996.353	15.781	0.030000
1000.840	15.629	0.030000

Name: XC0102B                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.954	0.030000
4.989	13.911	0.030000
9.977	13.837	0.030000
14.966	13.878	0.030000
19.955	13.918	0.030000
24.944	13.891	0.030000
29.933	13.835	0.030000
34.921	13.887	0.030000
39.910	13.829	0.030000
44.899	13.788	0.030000
49.888	13.778	0.030000
54.876	13.884	0.030000
59.865	13.836	0.030000
64.854	13.679	0.030000
69.843	13.752	0.030000
74.831	13.756	0.030000
79.820	13.620	0.030000
84.809	13.589	0.030000
89.797	13.605	0.030000
94.786	13.828	0.030000
99.775	13.789	0.030000
104.764	13.613	0.030000
109.753	13.555	0.030000
114.741	13.585	0.030000
119.730	13.612	0.030000
124.719	13.576	0.030000
129.708	13.495	0.030000
134.696	13.463	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

139.685	13.465	0.030000
144.674	13.446	0.030000
149.662	13.418	0.030000
154.651	13.392	0.030000
159.640	13.442	0.030000
164.629	13.465	0.030000
169.618	13.502	0.030000
174.606	13.481	0.030000
179.595	13.424	0.030000
184.584	13.415	0.030000
189.573	13.411	0.030000
194.561	13.449	0.030000
199.550	13.376	0.030000
204.539	13.353	0.030000
209.528	13.508	0.030000
214.516	13.517	0.030000
219.505	13.485	0.030000
224.494	13.528	0.030000
229.483	13.502	0.030000
234.471	13.473	0.030000
239.460	13.544	0.030000
244.449	13.599	0.030000
249.438	13.547	0.030000
254.426	13.539	0.030000
259.415	13.546	0.030000
264.404	13.517	0.030000
269.393	13.548	0.030000
274.381	13.548	0.030000
279.370	13.550	0.030000
284.359	13.543	0.030000
289.348	13.553	0.030000
294.336	13.555	0.030000
299.325	13.584	0.030000
304.314	13.663	0.030000
309.303	13.684	0.030000
314.291	13.666	0.030000
319.280	13.664	0.030000
324.269	13.714	0.030000
329.258	13.778	0.030000
334.246	13.743	0.030000
339.235	13.779	0.030000
344.224	13.822	0.030000
349.213	13.847	0.030000
354.201	13.849	0.030000
359.190	13.874	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

364.179	13.883	0.030000
369.168	13.772	0.030000
374.156	13.879	0.030000

Name: XC0103A\_1                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.351	0.085000
4.320	11.703	0.085000
8.640	10.972	0.085000
12.960	11.187	0.085000
17.280	11.770	0.085000
21.600	12.699	0.085000

Name: XC0103A\_2                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.900	0.085000
4.210	11.748	0.085000
8.419	11.255	0.085000
12.628	11.288	0.085000
16.838	11.855	0.085000

Name: XC0104B                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.473	0.030000
4.981	13.483	0.030000
9.961	13.476	0.030000
14.941	13.532	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

19.922	13.525	0.030000
24.902	13.499	0.030000
29.883	13.429	0.030000
34.863	13.414	0.030000
39.844	13.439	0.030000
44.824	13.394	0.030000
49.804	13.384	0.030000
54.785	13.377	0.030000
59.765	13.383	0.030000
64.746	13.370	0.030000
69.726	13.352	0.030000
74.707	13.370	0.030000
79.687	13.364	0.030000
84.668	13.317	0.030000
89.648	13.333	0.030000
94.629	13.318	0.030000
99.609	13.314	0.030000
104.590	13.308	0.030000
109.570	13.314	0.030000
114.550	13.309	0.030000
119.531	13.237	0.030000
124.511	13.276	0.030000
129.492	13.283	0.030000
134.472	13.245	0.030000
139.453	13.257	0.030000
144.433	13.270	0.030000
149.414	13.330	0.030000
154.394	13.353	0.030000
159.375	13.351	0.030000
164.355	13.447	0.030000
169.335	13.456	0.030000
174.316	13.423	0.030000
179.296	13.414	0.030000
184.277	13.491	0.030000
189.257	13.537	0.030000
194.238	13.485	0.030000
199.218	13.526	0.030000
204.199	13.597	0.030000
209.179	13.649	0.030000
214.159	13.694	0.030000
219.140	13.708	0.030000
224.120	13.785	0.030000
229.101	13.802	0.030000
234.081	13.813	0.030000
239.062	13.846	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

244.042	13.854	0.030000
249.023	13.831	0.030000
254.003	13.862	0.030000
258.983	13.924	0.030000
263.964	14.016	0.030000
268.944	14.065	0.030000
273.925	14.088	0.030000
278.905	14.096	0.030000
283.886	14.212	0.030000
288.866	14.170	0.030000
293.847	14.222	0.030000
298.827	14.304	0.030000
303.808	14.303	0.030000
308.788	14.258	0.030000
313.769	14.309	0.030000

Name: XC0105B                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.366	0.030000
4.960	15.306	0.030000
9.919	15.311	0.030000
14.879	15.292	0.030000
19.839	15.132	0.030000
24.799	14.935	0.030000
29.759	14.929	0.030000
34.718	14.891	0.030000
39.678	14.801	0.030000
44.638	14.743	0.030000
49.598	14.716	0.030000
54.557	14.788	0.030000
59.517	14.791	0.030000
64.477	14.739	0.030000
69.437	14.726	0.030000
74.396	14.680	0.030000
79.356	14.628	0.030000
84.316	14.631	0.030000
89.276	14.630	0.030000
94.236	14.773	0.030000
99.195	14.717	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

104.155	14.738	0.030000
109.115	14.620	0.030000
114.075	14.677	0.030000
119.034	14.928	0.030000
123.994	15.021	0.030000
128.954	14.794	0.030000
133.914	14.583	0.030000
138.873	14.546	0.030000
143.833	14.518	0.030000
148.793	14.522	0.030000
153.753	14.507	0.030000
158.712	14.470	0.030000
163.672	14.499	0.030000
168.632	14.396	0.030000
173.592	14.373	0.030000
178.551	14.404	0.030000
183.511	14.359	0.030000
188.471	14.445	0.030000
193.431	14.355	0.030000
198.390	14.383	0.030000
203.350	14.409	0.030000
208.310	14.341	0.030000
213.270	14.303	0.030000
218.230	14.298	0.030000
223.189	14.323	0.030000
228.149	14.358	0.030000
233.109	14.349	0.030000
238.069	14.285	0.030000
243.028	14.187	0.030000
247.988	14.222	0.030000
252.948	14.373	0.030000
257.908	14.414	0.030000
262.867	14.415	0.030000
267.827	14.395	0.030000
272.787	14.447	0.030000
277.747	14.422	0.030000
282.706	14.353	0.030000
287.666	14.214	0.030000
292.626	14.266	0.030000
297.586	14.362	0.030000
302.545	14.266	0.030000
307.505	14.412	0.030000
312.465	14.104	0.030000
317.425	14.143	0.030000
322.384	14.156	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

327.344 14.248 0.030000

Name: XC0105C Group: C  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	15.366	0.030000
4.341	15.172	0.030000
8.683	15.027	0.030000
13.025	14.996	0.030000
17.366	14.897	0.030000
21.708	14.871	0.030000
25.265	14.796	0.030000
28.822	14.783	0.030000
32.380	14.817	0.030000
37.024	14.841	0.030000
41.668	14.852	0.030000
46.313	14.862	0.030000
50.957	14.874	0.030000
55.602	14.869	0.030000
60.246	14.854	0.030000
64.891	14.863	0.030000
69.535	14.946	0.030000
74.179	14.909	0.030000
78.224	14.940	0.030000
82.268	14.914	0.030000
86.313	14.898	0.030000
90.801	14.835	0.030000
95.288	14.822	0.030000
99.776	14.847	0.030000
104.263	14.762	0.030000
108.600	14.791	0.030000
112.937	14.743	0.030000
117.273	14.815	0.030000
121.610	14.833	0.030000
125.946	14.832	0.030000
130.434	14.826	0.030000
134.921	14.810	0.030000
139.409	14.820	0.030000
143.658	14.848	0.030000
147.907	14.874	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

152.156	14.901	0.030000
156.644	14.910	0.030000
161.132	14.917	0.030000
165.031	14.935	0.030000
168.929	14.932	0.030000
172.828	14.921	0.030000
177.077	14.877	0.030000
181.327	14.853	0.030000
185.576	14.869	0.030000
189.825	14.889	0.030000
194.074	14.910	0.030000
198.323	14.929	0.030000
201.657	14.934	0.030000
204.990	14.939	0.030000
208.323	14.944	0.030000
212.276	14.957	0.030000
216.229	15.011	0.030000
220.182	15.132	0.030000
224.135	15.155	0.030000
228.635	15.093	0.030000
233.135	15.018	0.030000
237.635	14.977	0.030000
242.135	14.982	0.030000
246.635	14.987	0.030000
251.218	14.991	0.030000
255.801	14.996	0.030000
260.385	15.004	0.030000
264.968	15.025	0.030000
269.551	15.169	0.030000
274.135	15.322	0.030000
277.468	15.379	0.030000
280.801	15.385	0.030000
284.135	15.390	0.030000
287.468	15.395	0.030000
290.801	15.400	0.030000
294.135	15.405	0.030000
299.135	15.413	0.030000
304.135	15.482	0.030000
309.135	15.476	0.030000
314.135	15.416	0.030000
319.135	15.421	0.030000
323.034	15.383	0.030000
326.932	15.337	0.030000
330.831	15.418	0.030000
334.876	15.541	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

338.920	15.639	0.030000
342.965	15.645	0.030000
346.401	15.686	0.030000
349.836	15.552	0.030000
353.272	15.528	0.030000
357.074	15.551	0.030000
360.876	15.554	0.030000
364.678	15.590	0.030000
368.479	15.561	0.030000
371.915	15.576	0.030000
375.351	15.584	0.030000
378.787	15.572	0.030000
382.910	15.658	0.030000
387.033	15.773	0.030000
391.156	15.831	0.030000
395.279	16.326	0.030000
399.402	16.558	0.030000
403.832	16.538	0.030000
408.261	16.419	0.030000
412.690	16.340	0.030000
417.120	16.216	0.030000
421.979	15.954	0.030000
426.838	15.723	0.030000
431.697	15.501	0.030000
436.556	15.436	0.030000
441.415	15.318	0.030000
446.274	15.178	0.030000
450.001	15.111	0.030000
453.728	15.079	0.030000
457.455	15.215	0.030000
462.235	15.332	0.030000
467.015	15.264	0.030000
471.796	15.196	0.030000
476.576	15.221	0.030000
481.356	14.997	0.030000
486.137	14.972	0.030000
490.917	15.015	0.030000
495.697	14.986	0.030000
500.395	15.088	0.030000
505.092	14.868	0.030000
509.790	14.714	0.030000
514.487	14.713	0.030000
519.185	14.714	0.030000
523.882	14.670	0.030000
528.580	14.596	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

532.624	14.570	0.030000
536.669	14.572	0.030000
540.713	14.684	0.030000
545.097	14.765	0.030000
549.482	14.784	0.030000
553.866	14.810	0.030000
558.250	14.851	0.030000
562.635	14.906	0.030000
567.107	14.773	0.030000
571.579	14.577	0.030000
576.051	14.517	0.030000
580.808	14.496	0.030000
585.564	14.507	0.030000
590.321	14.327	0.030000
595.077	14.163	0.030000

Name: XC0106                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.700	0.035000
16.000	10.300	0.035000
25.000	10.300	0.035000
45.000	8.300	0.035000
65.000	8.300	0.035000
80.000	10.300	0.035000
90.000	10.300	0.035000
106.000	14.700	0.035000

Name: XC0106B                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.428	0.030000
16.000	10.300	0.030000
162.000	10.300	0.030000
178.000	8.300	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

198.000	8.300	0.030000
214.000	10.300	0.030000
220.000	10.300	0.030000
240.000	15.300	0.030000

Name: XC0110A                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.800	0.050000
250.000	14.700	0.050000
435.000	15.600	0.050000

Name: XC0110B                      Group: C  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.056	0.030000
4.737	15.097	0.030000
9.474	15.125	0.030000
14.211	15.120	0.030000
18.947	15.137	0.030000
23.684	15.158	0.030000
28.421	15.069	0.030000
33.158	15.135	0.030000
37.895	15.320	0.030000
42.632	15.488	0.030000
47.368	15.373	0.030000
52.105	15.423	0.030000
56.842	15.413	0.030000
61.579	15.396	0.030000
66.316	15.382	0.030000
71.053	15.497	0.030000
75.790	15.652	0.030000
80.526	15.781	0.030000
85.263	15.919	0.030000
90.000	15.938	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

94.690	15.879	0.030000
99.380	15.861	0.030000
104.070	15.858	0.030000
108.760	15.894	0.030000
113.451	15.884	0.030000
118.141	15.830	0.030000
122.831	15.835	0.030000
127.521	16.089	0.030000
132.211	16.163	0.030000
136.901	16.130	0.030000
141.591	16.083	0.030000
146.281	15.932	0.030000
150.971	15.963	0.030000
155.661	16.105	0.030000
160.352	16.179	0.030000
165.042	16.204	0.030000
170.017	16.139	0.030000
174.992	15.978	0.030000
179.967	15.879	0.030000
184.942	15.867	0.030000
189.917	15.928	0.030000
194.892	16.175	0.030000
199.867	16.350	0.030000
204.842	16.276	0.030000
209.817	16.288	0.030000
214.792	16.267	0.030000
219.768	16.120	0.030000
224.743	16.090	0.030000
229.718	16.301	0.030000
234.693	16.494	0.030000
239.668	16.532	0.030000
244.643	16.601	0.030000
249.618	16.496	0.030000

-----

Name: XC0115B	Group: C
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	13.448	0.030000
4.962	13.313	0.030000
9.924	13.313	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

14.886	13.377	0.030000
19.848	13.498	0.030000
24.810	13.709	0.030000
29.772	13.988	0.030000
34.734	14.177	0.030000
39.697	14.245	0.030000
44.659	14.309	0.030000
49.621	14.259	0.030000
54.583	14.004	0.030000
59.545	13.602	0.030000
64.507	13.386	0.030000
69.469	13.287	0.030000
74.431	13.380	0.030000
79.393	13.626	0.030000
84.355	13.757	0.030000
89.317	13.861	0.030000
94.279	13.828	0.030000
99.241	13.904	0.030000
104.203	14.134	0.030000
109.165	14.053	0.030000
114.128	14.008	0.030000
119.090	14.579	0.030000
124.052	15.033	0.030000
129.014	14.876	0.030000
133.976	14.451	0.030000
138.938	14.323	0.030000
143.900	14.304	0.030000
148.862	14.390	0.030000
153.824	14.576	0.030000
158.786	14.364	0.030000
163.748	14.181	0.030000
168.710	14.285	0.030000
173.672	14.291	0.030000
178.634	14.512	0.030000
183.596	14.693	0.030000
188.559	14.765	0.030000
193.521	14.684	0.030000
198.483	14.583	0.030000
203.445	14.511	0.030000
208.407	14.555	0.030000
213.369	14.626	0.030000
218.331	14.703	0.030000
223.293	14.714	0.030000
228.255	14.891	0.030000
233.217	14.907	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

238.179	14.822	0.030000
243.141	14.657	0.030000
248.103	14.585	0.030000
253.065	14.543	0.030000
258.027	14.634	0.030000
262.990	14.818	0.030000
267.952	14.745	0.030000
272.914	14.781	0.030000
277.876	14.631	0.030000
282.838	14.627	0.030000
287.800	14.499	0.030000
292.762	14.537	0.030000
297.724	14.571	0.030000
302.686	14.840	0.030000
307.648	15.063	0.030000
312.591	15.083	0.030000
317.533	14.220	0.030000
322.476	13.323	0.030000
327.418	12.996	0.030000
332.361	13.045	0.030000
337.303	13.575	0.030000
342.246	14.081	0.030000
347.188	14.326	0.030000
352.131	14.603	0.030000
357.074	14.653	0.030000
362.016	15.024	0.030000
366.959	14.659	0.030000
371.901	14.639	0.030000
376.844	14.857	0.030000
381.786	14.879	0.030000
386.729	14.748	0.030000
391.671	14.653	0.030000
396.614	14.640	0.030000
401.557	14.661	0.030000
406.499	14.674	0.030000
411.442	14.785	0.030000
416.384	14.717	0.030000
421.327	14.598	0.030000
426.269	14.550	0.030000
431.212	14.519	0.030000
436.154	14.449	0.030000
441.097	14.444	0.030000
446.040	14.483	0.030000
450.982	14.519	0.030000
455.925	14.570	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

460.867	14.620	0.030000
465.810	14.746	0.030000
470.752	14.861	0.030000
475.695	14.903	0.030000
480.637	14.912	0.030000
485.580	14.879	0.030000
490.523	14.847	0.030000
495.465	14.928	0.030000
500.408	15.048	0.030000
504.574	15.088	0.030000
508.741	15.087	0.030000
512.908	15.021	0.030000
517.074	15.019	0.030000
521.241	15.118	0.030000
525.408	15.131	0.030000
530.269	15.066	0.030000
535.130	14.975	0.030000
539.991	14.914	0.030000
544.852	14.988	0.030000
549.713	15.162	0.030000
554.574	15.248	0.030000
559.436	15.051	0.030000
564.297	14.899	0.030000
569.158	14.855	0.030000
574.019	14.795	0.030000
578.880	14.807	0.030000
583.741	14.830	0.030000
588.602	14.875	0.030000
593.463	14.815	0.030000
598.324	14.726	0.030000
603.186	14.785	0.030000
608.047	14.815	0.030000
612.908	14.831	0.030000
617.777	14.624	0.030000
622.646	14.655	0.030000
627.515	14.676	0.030000
632.384	14.701	0.030000
637.253	14.693	0.030000
642.122	14.745	0.030000
646.991	14.640	0.030000
651.860	14.507	0.030000
656.729	14.429	0.030000
661.598	14.424	0.030000
666.467	14.506	0.030000
671.336	14.488	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

676.205	14.346	0.030000
681.074	14.364	0.030000
685.943	14.523	0.030000
690.812	14.696	0.030000
695.681	14.924	0.030000
700.550	15.056	0.030000

-----

Name: XC0120B	Group: C
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	16.103	0.030000
4.444	16.212	0.030000
8.889	16.198	0.030000
13.333	16.208	0.030000
17.778	16.127	0.030000
22.222	16.093	0.030000
26.667	16.165	0.030000
31.111	16.115	0.030000
35.556	16.116	0.030000
40.000	16.063	0.030000
44.249	16.161	0.030000
48.498	16.229	0.030000
52.748	16.218	0.030000
56.997	16.270	0.030000
61.504	16.198	0.030000
66.011	16.232	0.030000
70.517	16.317	0.030000
75.025	16.371	0.030000
79.531	16.416	0.030000
84.038	16.324	0.030000
88.545	16.272	0.030000
93.052	16.160	0.030000
97.481	16.033	0.030000
101.911	16.017	0.030000
105.638	15.951	0.030000
109.364	15.993	0.030000
113.091	15.911	0.030000
117.436	15.738	0.030000
121.781	15.713	0.030000
126.126	15.705	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

130.470	15.478	0.030000
134.815	15.328	0.030000
139.160	15.285	0.030000
143.505	15.191	0.030000
147.458	15.052	0.030000
151.411	15.013	0.030000
155.363	14.836	0.030000
159.316	14.766	0.030000
163.269	14.807	0.030000
167.222	14.980	0.030000
171.175	14.879	0.030000
175.128	14.893	0.030000
179.635	14.841	0.030000
184.142	14.893	0.030000
188.173	14.781	0.030000
192.204	14.785	0.030000
196.235	14.854	0.030000
200.266	14.907	0.030000
204.297	14.815	0.030000
209.011	14.934	0.030000
213.725	15.060	0.030000
218.439	15.015	0.030000
223.298	14.523	0.030000
228.158	14.674	0.030000
233.017	14.707	0.030000
236.453	14.611	0.030000
239.888	14.666	0.030000
243.324	14.668	0.030000
246.760	14.753	0.030000
250.196	14.768	0.030000
253.632	14.758	0.030000
258.376	14.675	0.030000
263.119	14.704	0.030000
267.862	14.734	0.030000
272.606	14.756	0.030000
277.349	14.749	0.030000
281.479	14.876	0.030000
285.608	15.005	0.030000
289.738	15.123	0.030000
294.468	15.151	0.030000
299.198	15.108	0.030000
303.929	15.102	0.030000
308.436	14.851	0.030000
312.943	14.538	0.030000
317.599	14.357	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

322.256	14.303	0.030000
326.912	14.467	0.030000
331.569	14.407	0.030000
336.226	14.369	0.030000
340.882	14.441	0.030000
345.539	14.524	0.030000
350.066	14.471	0.030000
354.594	14.401	0.030000
359.122	14.291	0.030000
363.649	14.223	0.030000
368.177	14.292	0.030000
371.510	14.377	0.030000
374.844	14.433	0.030000
378.177	14.489	0.030000
381.613	14.487	0.030000
385.049	14.415	0.030000
388.485	14.286	0.030000

Name: XC0120C      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.286	0.030000
4.973	14.078	0.030000
9.947	14.060	0.030000
14.921	14.207	0.030000
19.894	14.192	0.030000
24.868	14.197	0.030000
29.841	14.073	0.030000
34.815	14.021	0.030000
39.788	14.063	0.030000
44.762	13.946	0.030000
49.735	13.512	0.030000
54.709	13.406	0.030000
59.682	13.508	0.030000
64.656	13.508	0.030000
69.629	13.371	0.030000
74.603	13.235	0.030000
79.576	13.489	0.030000
84.550	14.003	0.030000
89.523	14.240	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

94.497	13.898	0.030000
99.470	13.803	0.030000
104.444	13.904	0.030000
109.418	14.061	0.030000
114.391	13.995	0.030000
119.365	13.690	0.030000
124.338	13.762	0.030000
129.312	13.882	0.030000
134.285	14.060	0.030000
139.259	14.298	0.030000
144.232	14.623	0.030000
149.206	14.907	0.030000
154.179	14.752	0.030000
159.153	14.507	0.030000
164.126	14.312	0.030000
169.100	14.224	0.030000
174.073	14.231	0.030000
179.047	14.347	0.030000
184.020	14.465	0.030000
188.994	14.469	0.030000
193.967	14.497	0.030000
198.941	14.671	0.030000
203.914	14.718	0.030000
208.888	14.805	0.030000
213.862	14.795	0.030000
218.835	14.912	0.030000
223.809	15.320	0.030000
228.782	15.267	0.030000
233.756	15.182	0.030000
238.719	15.080	0.030000
243.682	15.074	0.030000
248.646	15.166	0.030000
253.609	15.236	0.030000
258.573	15.252	0.030000
263.536	15.219	0.030000
268.500	15.154	0.030000
273.463	15.181	0.030000
278.426	15.268	0.030000
283.390	15.152	0.030000
288.353	15.045	0.030000
293.317	15.083	0.030000
298.280	15.085	0.030000
303.244	15.022	0.030000
308.207	14.930	0.030000
313.170	14.913	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

318.134	14.913	0.030000
323.097	14.857	0.030000
328.061	14.901	0.030000
333.024	14.894	0.030000
337.988	14.871	0.030000
342.951	14.879	0.030000
347.914	14.760	0.030000
352.878	14.650	0.030000
357.841	14.600	0.030000
362.805	14.643	0.030000
367.768	14.714	0.030000
372.732	14.728	0.030000
377.695	14.835	0.030000
382.659	14.929	0.030000
387.622	14.862	0.030000
392.585	14.880	0.030000
397.549	14.989	0.030000
402.512	15.079	0.030000
407.476	15.028	0.030000
412.439	15.058	0.030000
417.402	15.079	0.030000
422.366	15.106	0.030000
427.329	15.076	0.030000
432.293	15.048	0.030000
437.256	15.023	0.030000
442.220	15.061	0.030000
447.183	15.116	0.030000
452.147	15.107	0.030000
457.110	15.078	0.030000
462.073	15.117	0.030000
467.037	15.134	0.030000
472.000	15.242	0.030000
476.964	15.319	0.030000
481.927	15.220	0.030000
486.890	15.278	0.030000
491.854	15.215	0.030000
496.817	15.112	0.030000
501.781	15.051	0.030000

Name: XC0130A  
Encroachment: No

Group: C

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	14.000	0.050000
20.000	14.200	0.050000
40.000	14.500	0.050000
60.000	14.800	0.050000
103.000	15.000	0.050000

Name: XC0140B                      Group: C  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	13.000	0.030000
341.676	13.000	0.030000

Name: XC0140C                      Group: C  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	15.265	0.030000
3.860	15.250	0.030000
7.720	15.009	0.030000
11.580	14.908	0.030000
15.440	15.079	0.030000
19.927	14.888	0.030000
24.415	14.764	0.030000
27.851	14.737	0.030000
31.287	14.689	0.030000
34.723	14.690	0.030000
39.071	14.727	0.030000
43.418	14.829	0.030000
47.766	14.844	0.030000
51.324	14.806	0.030000
54.881	14.802	0.030000
58.438	14.776	0.030000
61.781	14.799	0.030000
65.123	14.771	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

68.466	14.764	0.030000
71.820	14.774	0.030000
75.174	14.693	0.030000
78.528	14.676	0.030000
81.964	14.698	0.030000
85.400	14.743	0.030000
88.836	14.681	0.030000
92.638	14.638	0.030000
96.439	14.706	0.030000
100.241	14.728	0.030000
104.043	14.952	0.030000
108.531	15.264	0.030000
113.018	15.790	0.030000
117.506	16.263	0.030000
122.108	16.122	0.030000
126.710	15.861	0.030000
131.140	15.716	0.030000
135.569	15.691	0.030000
139.998	15.614	0.030000
144.427	15.797	0.030000
149.281	15.693	0.030000
154.134	15.275	0.030000
158.987	14.955	0.030000
163.841	14.638	0.030000
168.694	14.788	0.030000
172.739	14.577	0.030000
176.783	14.582	0.030000
180.828	14.627	0.030000
185.828	14.736	0.030000
190.828	14.895	0.030000
194.872	15.040	0.030000
198.917	15.384	0.030000
202.961	15.563	0.030000
207.705	15.650	0.030000
212.449	15.729	0.030000
217.193	15.865	0.030000
221.937	15.792	0.030000
226.681	15.912	0.030000
231.425	16.246	0.030000
236.169	16.154	0.030000
240.913	16.055	0.030000
245.657	16.370	0.030000
250.402	16.469	0.030000
255.146	16.277	0.030000
259.890	16.328	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

264.634	16.291	0.030000
269.634	15.986	0.030000
274.634	15.983	0.030000
277.134	16.113	0.030000
279.634	16.227	0.030000
283.360	16.366	0.030000
287.087	16.371	0.030000
290.814	16.362	0.030000
295.814	16.269	0.030000
300.814	16.270	0.030000
303.314	16.314	0.030000
305.814	16.374	0.030000
310.814	16.639	0.030000
314.981	16.855	0.030000
319.147	16.822	0.030000
323.314	16.556	0.030000
327.788	16.462	0.030000
332.262	16.311	0.030000
336.737	16.484	0.030000
341.211	16.589	0.030000
345.685	16.541	0.030000
350.160	16.331	0.030000
354.634	16.098	0.030000
359.108	16.023	0.030000
363.636	15.943	0.030000
368.164	16.016	0.030000
372.692	15.864	0.030000
377.219	15.813	0.030000
381.747	15.839	0.030000
386.092	15.796	0.030000
390.437	15.710	0.030000
394.781	15.647	0.030000
399.126	15.616	0.030000
403.471	15.558	0.030000
407.816	15.531	0.030000
412.161	15.450	0.030000
416.113	15.324	0.030000
420.066	15.195	0.030000
424.019	15.046	0.030000
427.972	15.044	0.030000
431.508	15.043	0.030000
435.043	14.787	0.030000
438.579	14.493	0.030000
443.188	14.114	0.030000
447.798	13.733	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

452.408	13.428	0.030000
457.018	13.436	0.030000
461.628	13.688	0.030000
465.815	14.005	0.030000
470.002	13.449	0.030000
474.190	13.161	0.030000
478.377	12.854	0.030000
482.565	12.929	0.030000
486.752	12.725	0.030000
491.628	12.288	0.030000
496.503	12.354	0.030000
501.379	12.430	0.030000
506.254	12.146	0.030000
511.130	11.978	0.030000
516.005	11.934	0.030000
520.881	11.853	0.030000
525.756	11.776	0.030000
530.632	11.651	0.030000
535.508	11.594	0.030000
540.383	11.626	0.030000
545.259	11.572	0.030000
550.134	11.634	0.030000
555.010	11.620	0.030000
559.885	11.500	0.030000
564.761	11.445	0.030000
569.636	11.438	0.030000
574.512	11.356	0.030000
579.387	11.416	0.030000
584.046	11.380	0.030000
588.704	11.398	0.030000
593.363	11.616	0.030000
598.021	11.795	0.030000
602.680	11.825	0.030000
607.338	12.381	0.030000
611.369	12.649	0.030000
615.400	12.259	0.030000
619.432	12.656	0.030000
623.463	12.712	0.030000
627.494	12.631	0.030000

---

Name: XC0160A                      Group: C  
Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000 14.700 0.050000  
166.000 14.900 0.050000

Name: XC0160B Group: C  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 14.500 0.056000  
76.000 15.460 0.056000  
164.000 14.700 0.056000  
212.000 15.300 0.056000  
294.000 12.700 0.056000  
428.000 12.300 0.056000

Name: XC0161A\_1 Group: C  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 15.200 0.035000  
20.000 10.300 0.035000  
342.000 10.300 0.035000  
358.000 8.300 0.035000  
378.000 8.300 0.035000  
398.000 10.300 0.035000  
846.000 10.300 0.035000  
862.000 14.200 0.035000

Name: XC0161A\_2 Group: C  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	15.200	0.035000
20.000	10.300	0.035000
112.000	8.300	0.035000
128.000	10.300	0.035000
176.000	10.300	0.035000
192.000	8.300	0.035000
821.000	10.300	0.035000
837.000	14.200	0.035000

Name: XC0161B\_2                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	11.098	0.085000
4.504	8.932	0.085000
9.007	7.851	0.085000
13.511	7.680	0.085000
18.014	7.805	0.085000
22.518	9.101	0.085000

Name: XC0170B                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.645	0.030000
4.995	17.504	0.030000
9.991	17.385	0.030000
14.986	17.342	0.030000
19.982	17.201	0.030000
24.977	17.117	0.030000
29.973	17.032	0.030000
34.968	16.914	0.030000
39.964	16.753	0.030000
44.959	16.590	0.030000
49.955	16.411	0.030000
54.950	16.203	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

59.946	16.092	0.030000
64.942	15.888	0.030000
69.937	15.723	0.030000
74.933	15.516	0.030000
79.928	15.343	0.030000
84.924	15.179	0.030000
89.919	14.859	0.030000
94.915	14.765	0.030000
99.910	14.986	0.030000
104.906	15.101	0.030000
109.901	14.885	0.030000
114.897	14.725	0.030000
119.892	14.608	0.030000
124.888	14.427	0.030000
129.883	14.285	0.030000
134.879	14.220	0.030000
139.874	14.105	0.030000
144.869	14.302	0.030000
149.865	14.437	0.030000

Name: XC0170C                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.578	0.030000
4.989	15.487	0.030000
9.977	15.401	0.030000
14.966	15.357	0.030000
19.954	15.356	0.030000
24.943	15.361	0.030000
29.931	15.293	0.030000
34.920	15.214	0.030000
39.908	15.135	0.030000
44.897	15.056	0.030000
49.886	14.977	0.030000
54.874	14.898	0.030000
59.863	14.818	0.030000
64.851	14.742	0.030000
69.840	14.679	0.030000
74.829	14.620	0.030000
79.817	14.574	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

84.806	14.562	0.030000
89.794	14.555	0.030000
94.783	14.549	0.030000
99.771	14.543	0.030000
104.760	14.536	0.030000
109.749	14.530	0.030000
114.737	14.523	0.030000
119.726	14.517	0.030000
124.714	14.510	0.030000
129.703	14.538	0.030000
134.691	14.626	0.030000
139.680	14.728	0.030000
144.668	14.830	0.030000
149.657	15.406	0.030000
154.646	16.821	0.030000
159.634	18.376	0.030000
164.623	19.932	0.030000
169.611	21.486	0.030000
174.600	23.039	0.030000
179.588	24.594	0.030000
184.577	26.147	0.030000
189.566	27.696	0.030000
194.554	29.243	0.030000
199.543	30.785	0.030000
204.531	32.327	0.030000
209.520	33.870	0.030000
214.508	35.412	0.030000
219.497	36.954	0.030000
224.486	38.135	0.030000
229.474	38.442	0.030000
234.463	38.433	0.030000
239.451	38.362	0.030000
244.440	38.276	0.030000
249.428	38.195	0.030000
254.417	38.137	0.030000
259.406	38.072	0.030000
264.394	38.020	0.030000
269.383	37.991	0.030000
274.371	37.907	0.030000
279.360	37.837	0.030000
284.348	37.743	0.030000
289.337	37.658	0.030000
294.325	37.542	0.030000
299.314	37.496	0.030000
304.303	37.438	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

309.291	37.507	0.030000
314.280	37.602	0.030000
319.268	37.342	0.030000
324.257	37.245	0.030000
329.245	37.275	0.030000
334.234	37.049	0.030000
339.223	36.966	0.030000
344.211	36.862	0.030000
349.200	36.807	0.030000
354.188	36.685	0.030000
359.177	36.642	0.030000
364.166	36.568	0.030000
369.154	36.462	0.030000
374.143	36.334	0.030000
379.131	36.201	0.030000
384.120	36.321	0.030000
389.108	36.196	0.030000
394.097	35.986	0.030000
399.085	35.864	0.030000
404.074	35.818	0.030000
409.063	35.656	0.030000
414.051	35.513	0.030000
419.040	35.507	0.030000
424.028	35.418	0.030000
429.017	35.314	0.030000
434.005	35.189	0.030000
438.994	35.069	0.030000
443.983	34.941	0.030000
448.971	34.846	0.030000
453.960	34.732	0.030000
458.948	34.600	0.030000
463.937	34.618	0.030000
468.925	34.252	0.030000
473.914	34.241	0.030000
478.902	34.162	0.030000
483.891	34.144	0.030000
488.880	33.800	0.030000
493.868	33.766	0.030000
498.857	33.668	0.030000
503.845	33.567	0.030000
508.834	33.419	0.030000
513.822	33.303	0.030000
518.811	33.169	0.030000
523.800	33.099	0.030000
528.788	32.977	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

533.777	32.830	0.030000
538.765	32.608	0.030000
543.754	32.644	0.030000
548.742	32.423	0.030000
553.731	32.381	0.030000
558.720	32.193	0.030000
563.708	31.972	0.030000
568.697	31.930	0.030000
573.685	31.785	0.030000
578.674	31.683	0.030000
583.663	31.527	0.030000
588.651	31.348	0.030000
593.640	31.267	0.030000
598.628	31.002	0.030000
603.617	30.960	0.030000
608.605	30.789	0.030000
613.594	30.641	0.030000
618.582	30.515	0.030000
623.571	30.330	0.030000
628.560	30.215	0.030000
633.548	30.045	0.030000
638.537	29.907	0.030000
643.525	29.784	0.030000
648.514	29.635	0.030000
653.502	29.544	0.030000
658.491	29.275	0.030000
663.480	29.093	0.030000
668.468	29.056	0.030000
673.457	28.911	0.030000
678.445	28.684	0.030000
683.434	28.538	0.030000
688.422	28.402	0.030000
693.411	28.247	0.030000
698.399	28.022	0.030000
703.388	27.886	0.030000
708.377	27.681	0.030000
713.365	27.509	0.030000
718.354	27.371	0.030000
723.342	27.180	0.030000
728.331	26.977	0.030000
733.319	26.819	0.030000
738.308	26.631	0.030000
743.297	26.528	0.030000
748.285	26.293	0.030000
753.274	26.090	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

758.262	26.016	0.030000
763.251	25.810	0.030000
768.240	25.605	0.030000
773.228	25.535	0.030000
778.217	25.359	0.030000
783.205	25.082	0.030000
788.194	24.933	0.030000
793.182	24.707	0.030000
798.171	24.610	0.030000
803.159	24.535	0.030000
808.148	24.308	0.030000
813.137	24.114	0.030000
818.125	23.990	0.030000
823.114	23.781	0.030000
828.102	23.605	0.030000
833.091	23.406	0.030000
838.079	23.309	0.030000
843.068	23.147	0.030000
848.057	22.980	0.030000
853.045	22.806	0.030000
858.034	22.670	0.030000
863.022	22.526	0.030000
868.011	22.364	0.030000
872.999	22.221	0.030000
877.988	22.101	0.030000
882.976	22.019	0.030000
887.965	21.833	0.030000
892.954	21.691	0.030000
897.942	21.563	0.030000
902.931	21.404	0.030000
907.919	21.366	0.030000
912.908	21.196	0.030000
917.896	21.177	0.030000
922.885	20.950	0.030000
927.874	20.793	0.030000
932.862	20.731	0.030000
937.851	20.654	0.030000
942.839	20.543	0.030000
947.828	20.383	0.030000
952.817	20.326	0.030000
957.805	20.198	0.030000
962.794	20.034	0.030000
967.782	19.951	0.030000
972.771	19.837	0.030000
977.759	19.707	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

982.748	19.606	0.030000
987.736	19.530	0.030000
992.725	19.493	0.030000
997.714	19.375	0.030000
1002.702	19.232	0.030000
1007.691	19.171	0.030000
1012.679	19.132	0.030000
1017.668	19.010	0.030000
1022.656	18.955	0.030000
1027.645	18.854	0.030000
1032.634	18.830	0.030000
1037.622	18.697	0.030000
1042.611	18.725	0.030000
1047.599	18.580	0.030000
1052.588	18.485	0.030000
1057.576	18.486	0.030000
1062.565	18.482	0.030000
1067.554	18.373	0.030000
1072.542	18.252	0.030000
1077.531	18.212	0.030000
1082.519	18.144	0.030000
1087.508	18.055	0.030000
1092.496	17.997	0.030000
1097.485	17.945	0.030000
1102.474	17.880	0.030000
1107.462	17.840	0.030000
1112.451	17.811	0.030000
1117.439	17.775	0.030000
1122.428	17.723	0.030000
1127.416	17.735	0.030000
1132.405	17.723	0.030000
1137.393	17.641	0.030000
1142.382	17.571	0.030000
1147.371	17.608	0.030000
1152.359	17.643	0.030000
1157.348	17.642	0.030000
1162.336	17.612	0.030000
1167.325	17.542	0.030000
1172.314	17.508	0.030000
1177.302	17.482	0.030000
1182.291	17.427	0.030000
1187.279	17.455	0.030000
1192.268	17.492	0.030000
1197.256	17.515	0.030000
1202.245	17.519	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1207.234	17.422	0.030000
1212.222	17.383	0.030000
1217.211	17.430	0.030000
1222.199	17.472	0.030000
1227.188	17.470	0.030000
1232.176	17.488	0.030000
1237.165	17.501	0.030000
1242.153	17.486	0.030000
1247.142	17.443	0.030000
1252.131	17.406	0.030000
1257.119	17.441	0.030000
1262.108	17.505	0.030000
1267.096	17.507	0.030000
1272.085	17.477	0.030000
1277.073	17.477	0.030000
1282.062	17.491	0.030000
1287.051	17.576	0.030000
1292.039	17.600	0.030000
1297.028	17.563	0.030000
1302.016	17.614	0.030000
1307.005	17.671	0.030000
1311.993	17.788	0.030000
1316.982	17.822	0.030000
1321.970	17.723	0.030000
1326.959	17.645	0.030000

Name: XC0170D                      Group: C  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.000	0.030000
4.642	13.000	0.030000
9.285	13.000	0.030000
13.927	13.000	0.030000
18.570	13.000	0.030000
22.523	13.000	0.030000
26.475	13.000	0.030000
30.428	13.000	0.030000
34.381	13.000	0.030000
38.334	13.000	0.030000
42.287	13.000	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

46.240	13.000	0.030000
50.192	13.000	0.030000
54.795	13.060	0.030000
59.397	13.260	0.030000
63.999	13.325	0.030000
68.601	13.325	0.030000
73.204	13.514	0.030000
77.806	13.609	0.030000
82.408	13.679	0.030000
87.010	13.595	0.030000
91.612	13.592	0.030000
96.215	13.420	0.030000
100.817	13.289	0.030000
105.419	13.283	0.030000
109.169	13.416	0.030000
112.919	13.707	0.030000
116.669	13.538	0.030000
120.419	13.477	0.030000
124.607	13.672	0.030000
128.794	14.139	0.030000
132.982	14.577	0.030000
137.169	14.818	0.030000
141.356	15.059	0.030000
145.544	15.107	0.030000
149.844	15.158	0.030000
154.145	15.281	0.030000
158.446	15.278	0.030000
162.746	15.242	0.030000
167.047	15.278	0.030000
171.347	15.212	0.030000
175.648	15.244	0.030000
179.648	15.319	0.030000
183.648	15.309	0.030000
187.648	15.353	0.030000
191.648	15.347	0.030000
195.648	15.359	0.030000
200.482	15.336	0.030000
205.317	15.349	0.030000
210.152	15.382	0.030000
214.986	15.355	0.030000
219.821	15.402	0.030000
224.656	15.415	0.030000
229.490	15.421	0.030000
234.325	15.487	0.030000
239.160	15.493	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

243.994	15.470	0.030000
248.829	15.552	0.030000
253.664	15.448	0.030000
258.498	15.534	0.030000
263.333	15.586	0.030000
267.708	15.585	0.030000
272.083	15.658	0.030000
276.458	15.604	0.030000
280.833	15.601	0.030000
284.583	15.624	0.030000
288.333	15.565	0.030000
292.083	15.573	0.030000
295.833	15.632	0.030000
300.502	15.695	0.030000
305.172	15.714	0.030000
309.842	15.714	0.030000
314.511	15.697	0.030000
319.181	15.691	0.030000
323.851	15.647	0.030000
328.520	15.740	0.030000
333.190	15.857	0.030000
337.860	15.754	0.030000
342.529	15.724	0.030000
347.199	15.721	0.030000
351.868	15.829	0.030000
356.538	15.797	0.030000
361.208	15.741	0.030000
365.877	15.729	0.030000
370.536	15.741	0.030000
375.194	15.790	0.030000
379.853	15.739	0.030000
384.228	15.734	0.030000
388.603	15.880	0.030000
392.978	15.624	0.030000
397.353	15.666	0.030000
401.728	15.635	0.030000
406.103	15.613	0.030000
410.103	15.628	0.030000
414.103	15.620	0.030000
418.103	15.485	0.030000
422.103	15.500	0.030000
426.103	15.636	0.030000
431.103	15.597	0.030000
436.103	15.483	0.030000
438.603	15.529	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

441.103	15.478	0.030000
446.103	15.522	0.030000
451.103	15.607	0.030000
453.603	15.599	0.030000
456.103	15.538	0.030000
461.103	15.467	0.030000
466.103	15.400	0.030000
471.103	15.350	0.030000
476.103	15.349	0.030000
478.603	15.341	0.030000
481.103	15.325	0.030000
486.103	15.311	0.030000
491.103	15.316	0.030000
493.603	15.319	0.030000
496.103	15.298	0.030000
501.103	15.286	0.030000
506.103	15.260	0.030000
508.603	15.224	0.030000
511.103	15.265	0.030000
515.269	15.296	0.030000
519.436	15.270	0.030000
523.603	15.226	0.030000
528.107	15.404	0.030000
532.611	15.452	0.030000
537.116	15.412	0.030000
541.620	15.369	0.030000
546.124	15.309	0.030000
550.629	15.304	0.030000
555.133	15.265	0.030000

Name: XD0010B      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.952	0.030000
3.436	16.076	0.030000
6.872	16.175	0.030000
10.308	16.262	0.030000
14.035	16.289	0.030000
17.761	16.224	0.030000
21.488	16.138	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

26.384	16.181	0.030000
31.280	16.181	0.030000
36.176	16.210	0.030000
41.072	16.159	0.030000
45.968	16.138	0.030000
50.864	16.185	0.030000
55.759	16.420	0.030000
60.655	16.755	0.030000
65.551	16.837	0.030000
70.447	16.836	0.030000
75.343	16.866	0.030000
80.239	16.811	0.030000
85.135	16.881	0.030000
90.031	16.832	0.030000
94.927	16.795	0.030000
99.823	16.759	0.030000
104.718	16.661	0.030000
109.614	16.387	0.030000
114.510	16.045	0.030000
119.406	15.845	0.030000
124.302	15.867	0.030000
129.198	15.905	0.030000
134.094	15.948	0.030000
138.990	16.211	0.030000
143.886	16.484	0.030000
148.782	16.487	0.030000
153.678	16.503	0.030000
158.573	16.560	0.030000
163.469	16.571	0.030000
168.365	16.478	0.030000
173.261	16.114	0.030000
178.157	15.970	0.030000
182.505	16.046	0.030000
186.853	16.072	0.030000
191.201	16.012	0.030000
196.042	15.999	0.030000
200.884	16.152	0.030000
205.725	16.268	0.030000
210.566	16.177	0.030000
215.408	16.146	0.030000
220.249	16.096	0.030000
225.090	16.071	0.030000
229.932	16.130	0.030000
234.773	16.171	0.030000
239.615	16.406	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

244.456	16.712	0.030000
249.298	17.089	0.030000
254.139	16.665	0.030000
258.980	16.603	0.030000
263.822	16.383	0.030000
268.663	16.105	0.030000
273.505	16.034	0.030000
278.346	16.152	0.030000
283.187	16.132	0.030000
288.029	16.322	0.030000
292.870	16.135	0.030000
297.712	16.119	0.030000
302.553	15.989	0.030000
307.394	16.153	0.030000
312.236	16.044	0.030000
317.077	15.872	0.030000
321.918	15.858	0.030000
326.760	15.719	0.030000
331.601	15.616	0.030000
336.443	15.672	0.030000
341.284	15.601	0.030000
346.169	15.406	0.030000
351.053	15.301	0.030000
355.938	15.317	0.030000
360.823	15.286	0.030000
365.707	15.181	0.030000
370.592	15.222	0.030000
375.477	15.322	0.030000
380.361	15.277	0.030000
385.246	15.196	0.030000
390.131	15.327	0.030000
395.015	15.494	0.030000
399.900	15.656	0.030000
404.784	15.821	0.030000

-----

Name: XD0020A	Group: D
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	15.435	0.030000
4.949	15.456	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

9.899	15.346	0.030000
14.848	15.246	0.030000
19.798	15.100	0.030000
24.747	15.132	0.030000
29.697	15.070	0.030000
34.646	15.143	0.030000
39.596	15.078	0.030000
44.545	15.152	0.030000
49.494	15.129	0.030000
54.444	15.104	0.030000
59.393	15.136	0.030000
64.343	15.298	0.030000
69.292	15.429	0.030000
74.242	15.404	0.030000
79.191	15.469	0.030000
84.140	15.521	0.030000
89.090	15.561	0.030000
94.039	15.810	0.030000
98.989	15.715	0.030000
103.938	15.837	0.030000
108.888	15.774	0.030000
113.837	15.820	0.030000
118.787	15.863	0.030000
123.216	16.124	0.030000
127.645	16.362	0.030000
132.419	16.639	0.030000
137.193	16.810	0.030000
141.967	16.938	0.030000
146.741	16.968	0.030000
151.515	16.927	0.030000
156.289	16.944	0.030000
161.064	16.924	0.030000
165.838	16.909	0.030000
170.612	17.041	0.030000
175.386	17.160	0.030000
180.160	17.139	0.030000
184.934	17.136	0.030000
189.708	17.160	0.030000
194.482	17.204	0.030000
199.256	17.115	0.030000
204.030	17.101	0.030000
208.804	17.077	0.030000
213.578	17.067	0.030000
218.352	17.006	0.030000
223.126	16.948	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

227.901	16.909	0.030000
232.675	16.861	0.030000
236.476	16.782	0.030000
240.278	16.771	0.030000
244.080	16.705	0.030000
247.882	16.665	0.030000
252.649	16.630	0.030000
257.417	16.523	0.030000
262.185	16.384	0.030000
266.953	16.313	0.030000
271.721	16.296	0.030000
276.489	16.279	0.030000
281.257	16.221	0.030000
286.024	16.215	0.030000
290.792	16.148	0.030000
295.560	16.060	0.030000
300.328	16.002	0.030000
305.096	16.017	0.030000
309.864	15.862	0.030000
314.632	15.730	0.030000
319.399	15.691	0.030000
324.167	15.646	0.030000
328.935	15.618	0.030000
333.703	15.644	0.030000
338.471	15.665	0.030000
343.239	15.653	0.030000
348.007	15.734	0.030000
352.387	15.802	0.030000
356.766	15.762	0.030000
361.146	15.765	0.030000
365.526	15.876	0.030000

-----

Name: XD0030A	Group: D
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	16.726	0.030000
4.445	16.815	0.030000
8.891	16.913	0.030000
13.336	16.959	0.030000
17.922	16.958	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

22.507	16.965	0.030000
27.093	16.961	0.030000
31.678	16.914	0.030000
36.263	16.897	0.030000
40.849	16.849	0.030000
45.434	17.127	0.030000
50.020	17.028	0.030000
54.605	16.889	0.030000
59.455	16.918	0.030000
64.306	16.956	0.030000
69.156	16.950	0.030000
74.006	16.887	0.030000
78.856	17.151	0.030000
83.707	17.258	0.030000
88.557	17.340	0.030000
93.407	17.402	0.030000
98.257	17.237	0.030000
103.108	17.079	0.030000
107.958	16.901	0.030000
112.808	17.049	0.030000
117.659	17.714	0.030000
122.509	17.638	0.030000
127.359	17.662	0.030000
132.209	17.785	0.030000
137.060	17.743	0.030000
141.910	17.460	0.030000
146.760	17.450	0.030000
151.610	17.583	0.030000
156.461	17.638	0.030000
161.311	17.410	0.030000
166.161	16.928	0.030000
171.011	16.677	0.030000
175.862	16.722	0.030000
180.237	16.782	0.030000
184.612	16.824	0.030000
188.987	16.878	0.030000
193.362	16.880	0.030000
197.945	16.974	0.030000
202.528	17.020	0.030000
207.112	17.052	0.030000
211.695	17.220	0.030000
216.278	17.292	0.030000
220.862	17.349	0.030000
224.612	17.385	0.030000
228.362	17.302	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

232.112	17.255	0.030000
235.862	17.451	0.030000
240.730	17.669	0.030000
245.598	17.590	0.030000
250.467	17.355	0.030000
255.335	17.102	0.030000
260.204	16.957	0.030000
265.072	16.898	0.030000
269.941	16.926	0.030000
274.809	17.100	0.030000
279.677	17.275	0.030000
284.546	17.289	0.030000
289.414	17.281	0.030000
294.283	17.177	0.030000
299.151	16.980	0.030000
304.019	17.104	0.030000
308.888	17.396	0.030000
313.756	17.374	0.030000
318.625	17.203	0.030000
323.493	17.333	0.030000
328.362	17.351	0.030000
332.930	17.592	0.030000
337.498	17.623	0.030000
342.066	17.461	0.030000
346.634	17.393	0.030000
351.202	17.575	0.030000
355.770	17.817	0.030000
360.339	17.889	0.030000
364.907	17.832	0.030000
369.475	17.657	0.030000
374.043	17.433	0.030000
378.611	17.209	0.030000
382.778	17.093	0.030000
386.944	17.099	0.030000
391.111	17.119	0.030000
395.486	17.157	0.030000
399.861	17.229	0.030000
404.236	17.292	0.030000
408.611	17.393	0.030000
412.986	17.364	0.030000
417.361	17.451	0.030000
421.736	17.568	0.030000
426.111	17.571	0.030000
429.444	17.513	0.030000
432.778	17.483	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

436.111	17.537	0.030000
440.486	17.616	0.030000
444.861	17.646	0.030000
449.236	17.644	0.030000
453.611	17.584	0.030000
457.986	17.346	0.030000
462.361	17.161	0.030000
466.736	17.229	0.030000
471.111	17.496	0.030000
474.444	17.691	0.030000
477.778	17.683	0.030000
481.111	17.501	0.030000
486.035	17.155	0.030000
490.958	17.042	0.030000
495.882	17.141	0.030000
500.806	17.215	0.030000
505.729	17.305	0.030000
510.653	17.368	0.030000
515.577	17.335	0.030000
520.500	17.252	0.030000
525.424	17.216	0.030000
530.348	17.246	0.030000
535.271	17.271	0.030000
540.195	17.175	0.030000
545.119	17.335	0.030000
550.043	17.619	0.030000
554.943	17.828	0.030000
559.844	17.835	0.030000
564.744	17.686	0.030000
569.645	17.747	0.030000
574.545	17.677	0.030000
579.446	17.627	0.030000
584.346	17.509	0.030000
589.247	17.536	0.030000
594.147	17.619	0.030000
599.048	17.506	0.030000
603.948	17.400	0.030000
608.849	17.338	0.030000
613.749	17.318	0.030000
618.650	17.404	0.030000
623.550	17.390	0.030000
628.451	17.499	0.030000
633.351	17.406	0.030000
638.252	17.190	0.030000
643.152	17.074	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

648.053	17.123	0.030000
652.953	17.028	0.030000
657.854	16.998	0.030000
662.754	17.240	0.030000
667.655	17.593	0.030000
672.555	17.654	0.030000
677.456	17.292	0.030000
682.356	17.030	0.030000
687.257	17.006	0.030000
692.157	17.054	0.030000
697.058	17.058	0.030000
701.958	17.022	0.030000
706.859	16.975	0.030000
711.760	16.927	0.030000
716.660	16.815	0.030000
721.561	16.638	0.030000
726.461	16.727	0.030000
731.361	17.046	0.030000
736.136	17.114	0.030000
740.910	16.934	0.030000
745.684	16.881	0.030000
750.458	16.982	0.030000
755.232	16.957	0.030000
760.006	16.904	0.030000
764.780	16.833	0.030000
769.554	16.777	0.030000
774.328	16.938	0.030000
779.102	16.986	0.030000
783.876	16.871	0.030000
788.650	16.757	0.030000
793.425	16.640	0.030000
798.199	16.743	0.030000
802.973	16.784	0.030000
807.747	16.926	0.030000
812.521	17.046	0.030000
817.295	16.993	0.030000
822.069	17.051	0.030000
826.843	17.006	0.030000
831.617	16.851	0.030000
836.391	16.729	0.030000
841.287	16.698	0.030000
846.183	16.677	0.030000
851.079	16.625	0.030000
855.975	16.466	0.030000
860.870	16.288	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

865.766	16.268	0.030000
870.662	16.331	0.030000
875.558	16.351	0.030000
880.454	16.340	0.030000
885.350	16.348	0.030000
890.245	16.436	0.030000
895.141	16.584	0.030000
900.037	16.759	0.030000
904.933	16.813	0.030000
909.829	16.776	0.030000
914.725	16.734	0.030000
919.620	16.765	0.030000
924.516	16.852	0.030000
929.412	16.851	0.030000
934.308	16.886	0.030000
939.204	17.027	0.030000
944.100	16.943	0.030000
948.995	17.070	0.030000
953.891	17.143	0.030000
958.787	17.115	0.030000
963.683	17.153	0.030000
968.579	17.182	0.030000
973.475	17.301	0.030000
978.370	17.352	0.030000
983.266	17.478	0.030000
988.162	17.477	0.030000
993.058	17.342	0.030000
997.954	17.081	0.030000
1002.850	17.210	0.030000
1007.745	17.396	0.030000
1012.641	17.558	0.030000
1017.537	17.528	0.030000
1022.433	17.664	0.030000
1027.329	17.698	0.030000
1032.225	17.652	0.030000
1037.120	17.540	0.030000
1042.016	17.425	0.030000
1046.912	17.481	0.030000
1051.808	17.489	0.030000
1056.704	17.471	0.030000
1061.600	17.540	0.030000
1066.495	17.665	0.030000
1071.391	17.776	0.030000
1074.827	17.886	0.030000
1078.263	17.752	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1081.699	17.649	0.030000
1085.449	17.586	0.030000
1089.199	17.641	0.030000
1092.949	17.651	0.030000
1096.699	17.615	0.030000
1101.477	17.420	0.030000
1106.255	17.254	0.030000
1111.033	17.232	0.030000
1115.812	17.177	0.030000
1120.590	17.193	0.030000
1125.368	17.153	0.030000
1130.146	17.156	0.030000
1134.924	17.139	0.030000
1139.702	17.174	0.030000
1144.480	17.219	0.030000
1149.258	17.206	0.030000
1154.037	17.147	0.030000
1158.815	17.183	0.030000
1163.593	17.138	0.030000
1168.371	17.117	0.030000
1173.149	17.103	0.030000
1177.927	17.064	0.030000
1182.706	16.999	0.030000
1187.484	16.926	0.030000
1192.262	16.932	0.030000
1197.040	16.910	0.030000
1201.818	16.817	0.030000
1206.271	16.837	0.030000
1210.724	16.885	0.030000
1215.177	16.727	0.030000
1219.631	16.641	0.030000
1224.084	16.640	0.030000
1228.537	16.560	0.030000
1232.990	16.555	0.030000
1237.443	16.544	0.030000
1241.896	16.471	0.030000
1246.896	16.330	0.030000
1249.396	16.273	0.030000
1251.896	16.228	0.030000
1256.896	16.199	0.030000
1261.896	16.180	0.030000
1266.896	16.163	0.030000
1269.396	16.179	0.030000
1271.896	16.202	0.030000
1276.896	16.256	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1281.896	16.343	0.030000
1284.396	16.399	0.030000
1286.896	16.445	0.030000
1291.896	16.549	0.030000
1296.896	16.717	0.030000
1301.896	16.962	0.030000
1306.896	17.127	0.030000
1309.396	17.158	0.030000
1311.896	17.146	0.030000
1316.896	17.108	0.030000
1319.396	17.083	0.030000
1321.896	17.102	0.030000
1326.896	17.098	0.030000
1331.896	17.070	0.030000
1334.396	17.066	0.030000
1336.896	17.053	0.030000
1341.896	17.037	0.030000
1344.396	17.035	0.030000
1346.896	17.101	0.030000
1351.896	17.311	0.030000
1354.396	17.455	0.030000
1356.896	17.440	0.030000
1361.403	17.277	0.030000
1365.910	16.900	0.030000
1370.417	16.492	0.030000
1374.924	16.311	0.030000
1379.431	16.171	0.030000
1383.938	16.050	0.030000
1388.445	16.003	0.030000
1392.952	16.083	0.030000
1397.459	16.220	0.030000
1401.966	16.495	0.030000
1406.966	16.692	0.030000
1411.966	16.836	0.030000
1416.966	16.972	0.030000
1421.554	16.773	0.030000
1426.142	16.492	0.030000
1430.730	16.402	0.030000
1435.318	16.288	0.030000
1439.906	16.181	0.030000
1444.494	16.451	0.030000
1449.082	16.681	0.030000
1453.670	17.093	0.030000
1458.258	17.334	0.030000
1462.846	17.491	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1467.434      17.788      0.030000  
1472.022      17.857      0.030000

Name: XD0040A      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.769	0.030000
4.722	16.564	0.030000
9.443	16.107	0.030000
14.165	16.171	0.030000
18.886	16.297	0.030000
23.608	16.378	0.030000
28.330	16.495	0.030000
33.051	16.582	0.030000
37.773	16.725	0.030000
42.495	16.900	0.030000
47.216	16.891	0.030000
51.938	16.821	0.030000
56.873	16.869	0.030000
61.809	16.883	0.030000
66.745	16.862	0.030000
71.680	16.755	0.030000
76.616	16.654	0.030000
81.551	16.620	0.030000
86.487	16.398	0.030000
91.423	16.396	0.030000
96.358	16.094	0.030000
101.294	16.264	0.030000
106.230	16.407	0.030000
111.165	16.794	0.030000
116.101	17.006	0.030000
121.036	16.947	0.030000
125.972	16.910	0.030000
130.908	17.071	0.030000
135.843	17.055	0.030000
140.779	16.887	0.030000
145.714	16.959	0.030000
150.650	17.147	0.030000
155.586	17.358	0.030000
160.521	17.424	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

165.457	17.163	0.030000
170.393	17.317	0.030000
175.328	17.261	0.030000
180.264	17.333	0.030000
185.200	17.323	0.030000
190.135	17.432	0.030000
195.071	17.398	0.030000
200.006	17.297	0.030000
204.942	17.241	0.030000
209.878	17.231	0.030000
214.813	17.164	0.030000
219.749	17.082	0.030000
224.685	17.009	0.030000
229.620	17.100	0.030000
234.556	17.054	0.030000
239.491	16.947	0.030000
244.427	17.241	0.030000
249.363	17.209	0.030000
254.298	17.125	0.030000
259.234	17.358	0.030000
264.169	17.425	0.030000
269.105	17.269	0.030000
274.041	17.147	0.030000
278.976	17.054	0.030000
283.912	17.141	0.030000
288.848	17.248	0.030000
293.783	17.303	0.030000
298.719	17.309	0.030000
303.654	17.200	0.030000
308.590	17.065	0.030000
313.526	17.215	0.030000
318.461	17.390	0.030000
323.397	17.471	0.030000
328.332	17.541	0.030000
333.268	17.516	0.030000
338.170	17.482	0.030000
343.071	17.447	0.030000
347.973	17.339	0.030000
352.874	17.438	0.030000
357.775	17.596	0.030000
361.913	17.659	0.030000
366.050	17.738	0.030000
370.188	17.833	0.030000
374.325	17.837	0.030000
378.673	17.888	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

383.021	17.909	0.030000
387.369	17.926	0.030000
390.702	17.918	0.030000
394.035	17.894	0.030000
397.369	17.844	0.030000
401.159	17.772	0.030000
404.949	17.604	0.030000
408.740	17.569	0.030000
412.938	17.581	0.030000
417.136	17.628	0.030000
421.334	17.686	0.030000
425.532	17.711	0.030000
429.730	17.667	0.030000
433.928	17.658	0.030000
438.281	17.659	0.030000
442.633	17.700	0.030000
446.986	17.757	0.030000
451.338	17.823	0.030000
455.686	17.804	0.030000
460.034	17.810	0.030000
464.382	17.818	0.030000
468.767	17.806	0.030000
473.151	17.813	0.030000
477.535	17.822	0.030000
481.919	17.827	0.030000
486.304	17.829	0.030000
490.791	17.844	0.030000
495.279	17.850	0.030000
499.324	17.840	0.030000
503.368	17.877	0.030000
507.413	17.927	0.030000
511.662	17.919	0.030000
515.911	17.977	0.030000
520.160	18.145	0.030000
524.409	17.985	0.030000
528.658	17.933	0.030000
532.908	17.930	0.030000
537.908	17.844	0.030000
542.908	17.856	0.030000
547.208	17.825	0.030000
551.509	17.813	0.030000
555.809	17.878	0.030000
560.110	17.895	0.030000
564.410	17.914	0.030000
568.711	17.932	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

573.012	17.810	0.030000
577.135	17.736	0.030000
581.258	17.830	0.030000
585.381	17.805	0.030000
589.504	17.707	0.030000
593.627	17.670	0.030000
598.627	17.743	0.030000
603.627	17.758	0.030000
606.961	17.690	0.030000
610.294	17.679	0.030000
613.627	17.707	0.030000
617.377	17.736	0.030000
621.127	17.733	0.030000
624.877	17.706	0.030000
628.627	17.717	0.030000
632.377	17.739	0.030000
636.127	17.745	0.030000
639.877	17.691	0.030000
643.627	17.690	0.030000
647.163	17.682	0.030000
650.698	17.631	0.030000
654.234	17.602	0.030000
659.093	17.574	0.030000
663.952	17.602	0.030000
668.811	17.689	0.030000
672.911	17.685	0.030000
677.010	17.625	0.030000
681.110	17.664	0.030000
685.209	17.759	0.030000
689.308	17.868	0.030000
693.558	17.799	0.030000
697.807	17.695	0.030000
702.056	17.680	0.030000
706.305	17.697	0.030000
708.805	17.697	0.030000
711.305	17.650	0.030000
716.305	17.615	0.030000
718.805	17.628	0.030000
721.305	17.726	0.030000
726.305	17.853	0.030000
730.350	17.850	0.030000
734.394	17.864	0.030000
738.439	17.799	0.030000
742.868	17.805	0.030000
747.297	17.792	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

750.733	17.794	0.030000
754.169	17.844	0.030000
757.605	17.909	0.030000
761.649	17.935	0.030000
765.694	17.958	0.030000
769.738	17.952	0.030000
773.910	17.894	0.030000
778.082	17.732	0.030000
782.254	17.773	0.030000
786.426	17.898	0.030000
790.153	18.000	0.030000
793.879	18.043	0.030000
797.606	18.025	0.030000
801.042	18.027	0.030000
804.478	18.114	0.030000
807.914	18.159	0.030000
811.716	18.142	0.030000
815.517	18.133	0.030000
819.319	18.131	0.030000
823.121	18.130	0.030000
827.422	18.090	0.030000
831.722	18.049	0.030000
836.023	18.016	0.030000
840.323	17.990	0.030000
844.624	17.956	0.030000
848.924	17.922	0.030000
853.225	17.873	0.030000
857.269	17.821	0.030000
861.314	17.852	0.030000
865.358	17.785	0.030000
870.203	17.677	0.030000
875.048	17.658	0.030000
879.893	17.613	0.030000
884.738	17.686	0.030000
889.582	17.709	0.030000
894.070	17.671	0.030000
898.558	17.669	0.030000
903.045	17.666	0.030000
907.295	17.663	0.030000
911.544	17.666	0.030000
915.793	17.649	0.030000
920.042	17.707	0.030000
924.591	17.718	0.030000
929.140	17.713	0.030000
933.688	17.705	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

938.237	17.704	0.030000
942.786	17.705	0.030000
947.335	17.704	0.030000
951.884	17.701	0.030000
955.686	17.740	0.030000
959.487	17.750	0.030000
963.289	17.576	0.030000
967.091	17.487	0.030000
971.591	17.435	0.030000
976.091	17.371	0.030000
980.591	17.310	0.030000
985.091	17.317	0.030000
989.591	17.329	0.030000
993.598	17.267	0.030000
997.605	17.186	0.030000
1001.611	17.202	0.030000
1005.618	17.437	0.030000
1009.625	17.703	0.030000
1013.670	17.635	0.030000
1017.714	17.603	0.030000
1021.759	17.503	0.030000
1025.561	17.657	0.030000
1029.362	17.749	0.030000
1033.164	17.447	0.030000
1036.966	17.445	0.030000
1040.402	17.520	0.030000
1043.838	17.500	0.030000
1047.274	17.431	0.030000
1050.607	17.488	0.030000
1053.940	17.412	0.030000
1057.274	17.376	0.030000
1061.988	17.359	0.030000
1066.702	17.241	0.030000
1071.416	17.124	0.030000
1075.661	17.199	0.030000
1079.907	17.268	0.030000
1084.152	17.270	0.030000
1088.324	17.266	0.030000
1092.496	17.332	0.030000
1096.668	17.376	0.030000
1100.840	17.406	0.030000
1105.269	17.485	0.030000
1109.698	17.557	0.030000
1114.151	17.484	0.030000
1118.604	17.403	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1123.058	17.343	0.030000
1127.537	17.313	0.030000
1132.016	17.304	0.030000
1136.495	17.294	0.030000
1140.974	17.286	0.030000
1145.453	17.284	0.030000
1149.932	17.302	0.030000
1154.411	17.284	0.030000
1158.890	17.160	0.030000
1163.369	17.004	0.030000
1167.857	16.976	0.030000
1172.344	17.113	0.030000
1176.832	17.201	0.030000
1180.454	17.221	0.030000
1184.075	17.254	0.030000
1187.697	17.260	0.030000
1192.045	17.302	0.030000
1196.393	17.279	0.030000
1200.741	17.299	0.030000
1204.177	17.288	0.030000
1207.613	17.300	0.030000
1211.049	17.349	0.030000
1215.049	17.366	0.030000
1219.049	17.353	0.030000
1223.049	17.474	0.030000
1227.049	17.546	0.030000
1231.049	17.492	0.030000
1235.093	17.448	0.030000
1239.138	17.378	0.030000
1243.182	17.315	0.030000
1247.291	17.224	0.030000
1251.400	17.142	0.030000
1255.509	17.094	0.030000
1259.618	17.166	0.030000
1264.146	17.255	0.030000
1268.673	17.214	0.030000
1273.201	17.055	0.030000
1277.729	16.980	0.030000
1282.257	16.966	0.030000
1286.506	16.980	0.030000
1290.755	17.040	0.030000
1295.004	17.106	0.030000
1299.253	17.167	0.030000
1303.502	17.154	0.030000
1307.752	17.104	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1312.181	17.063	0.030000
1316.610	17.056	0.030000
1321.039	17.046	0.030000
1325.468	17.028	0.030000
1330.228	17.024	0.030000
1334.988	17.016	0.030000
1339.748	16.996	0.030000
1344.508	17.086	0.030000
1348.996	17.095	0.030000
1353.483	17.062	0.030000
1357.971	17.035	0.030000
1362.015	17.073	0.030000
1366.060	17.165	0.030000
1370.104	17.183	0.030000
1374.354	17.214	0.030000
1378.603	17.268	0.030000
1382.852	17.336	0.030000
1387.101	17.341	0.030000
1390.434	17.320	0.030000
1393.768	17.308	0.030000
1397.101	17.286	0.030000
1400.606	17.277	0.030000
1404.111	17.260	0.030000
1407.616	17.285	0.030000

-----

Name: XD0040B	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	17.285	0.030000
4.985	17.237	0.030000
9.969	17.186	0.030000
14.954	17.110	0.030000
19.938	17.049	0.030000
24.923	17.007	0.030000
29.907	16.997	0.030000
34.892	17.115	0.030000
39.877	17.256	0.030000
44.861	17.230	0.030000
49.846	17.093	0.030000
54.831	16.889	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

59.815	16.582	0.030000
64.800	16.412	0.030000
69.784	16.355	0.030000
74.769	16.239	0.030000
79.753	16.131	0.030000
84.738	15.976	0.030000
89.723	15.800	0.030000
94.707	15.555	0.030000
99.692	15.279	0.030000
104.676	15.085	0.030000
109.661	14.828	0.030000
114.646	14.724	0.030000
119.630	14.787	0.030000
124.615	14.785	0.030000
129.599	14.774	0.030000
134.584	14.740	0.030000
139.569	14.893	0.030000
144.553	14.870	0.030000
149.538	14.840	0.030000
154.522	14.921	0.030000
159.507	14.921	0.030000
164.491	14.989	0.030000
169.476	14.964	0.030000
174.461	15.010	0.030000
179.445	15.116	0.030000
184.430	15.073	0.030000
189.414	15.082	0.030000
194.399	14.996	0.030000
199.384	14.979	0.030000
204.368	15.015	0.030000
209.353	15.016	0.030000
214.337	14.989	0.030000
219.322	15.034	0.030000
224.307	15.208	0.030000
229.291	15.327	0.030000
234.276	15.294	0.030000
239.260	15.205	0.030000
244.245	15.184	0.030000
249.229	15.114	0.030000
254.214	15.103	0.030000
259.199	15.102	0.030000
264.183	15.120	0.030000
269.168	15.114	0.030000
274.152	15.146	0.030000
279.137	15.115	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

284.122	15.120	0.030000
289.106	15.129	0.030000
294.091	15.076	0.030000
299.075	15.107	0.030000
304.060	15.117	0.030000
309.045	15.079	0.030000
314.029	15.111	0.030000
319.014	15.124	0.030000
323.998	15.145	0.030000
328.983	15.178	0.030000
333.967	15.215	0.030000
338.952	15.194	0.030000
343.937	15.200	0.030000
348.921	15.216	0.030000
353.906	15.242	0.030000
358.890	15.300	0.030000
363.875	15.249	0.030000
368.860	15.293	0.030000
373.844	15.239	0.030000
378.829	15.328	0.030000
383.813	15.313	0.030000
388.798	15.319	0.030000
393.783	15.300	0.030000
398.767	15.307	0.030000
403.752	15.310	0.030000
408.736	15.282	0.030000
413.721	15.293	0.030000
418.705	15.268	0.030000
423.690	15.307	0.030000
428.675	15.285	0.030000
433.659	15.258	0.030000
438.644	15.320	0.030000
443.628	15.335	0.030000
448.613	15.332	0.030000
453.598	15.355	0.030000
458.582	15.355	0.030000
463.567	15.358	0.030000
468.551	15.354	0.030000
473.536	15.303	0.030000
478.521	15.308	0.030000
483.505	15.373	0.030000
488.490	15.398	0.030000
493.474	15.449	0.030000
498.459	15.416	0.030000
503.443	15.428	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

508.428	15.431	0.030000
513.413	15.463	0.030000
518.397	15.448	0.030000
523.382	15.468	0.030000
528.366	15.445	0.030000
533.351	15.475	0.030000
538.336	15.395	0.030000
543.320	15.436	0.030000
548.305	15.508	0.030000
553.289	15.447	0.030000
558.274	15.540	0.030000
563.259	15.533	0.030000
568.243	15.549	0.030000
573.228	15.566	0.030000
578.212	15.582	0.030000
583.197	15.619	0.030000
588.181	15.581	0.030000
593.166	15.562	0.030000
598.151	15.696	0.030000
603.135	15.629	0.030000
608.120	15.577	0.030000
613.104	15.668	0.030000
618.089	15.670	0.030000
623.073	15.621	0.030000
628.058	15.629	0.030000
633.043	15.706	0.030000
638.027	15.719	0.030000
643.012	15.688	0.030000
647.996	15.670	0.030000
652.981	15.753	0.030000
657.966	15.674	0.030000
662.950	15.746	0.030000
667.935	15.764	0.030000
672.919	15.744	0.030000
677.904	15.738	0.030000
682.889	15.825	0.030000
687.873	15.832	0.030000
692.858	15.906	0.030000
697.842	15.869	0.030000
702.827	15.907	0.030000
707.812	15.984	0.030000
712.796	15.967	0.030000
717.781	15.942	0.030000
722.765	16.033	0.030000
727.750	16.022	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

732.734	16.072	0.030000
737.719	16.115	0.030000
742.704	16.105	0.030000
747.688	16.169	0.030000
752.673	16.256	0.030000
757.657	16.218	0.030000
762.642	16.275	0.030000
767.627	16.314	0.030000
772.611	16.352	0.030000
777.596	16.407	0.030000
782.580	16.483	0.030000
787.565	16.507	0.030000
792.549	16.578	0.030000
797.534	16.526	0.030000
802.519	16.588	0.030000
807.503	16.627	0.030000
812.488	16.677	0.030000
817.472	16.723	0.030000
822.457	16.737	0.030000
827.442	16.792	0.030000
832.426	16.723	0.030000
837.411	16.747	0.030000
842.395	16.706	0.030000
847.380	16.648	0.030000
852.365	16.577	0.030000
857.349	16.488	0.030000
862.334	16.737	0.030000
867.318	16.874	0.030000
872.303	16.894	0.030000
877.288	17.096	0.030000
882.272	17.072	0.030000
887.257	17.235	0.030000
892.241	17.128	0.030000
897.226	17.177	0.030000
902.210	17.267	0.030000

Name: XD0050B      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      16.035      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

4.961	15.982	0.030000
9.922	16.029	0.030000
14.884	15.840	0.030000
19.845	15.792	0.030000
24.806	15.804	0.030000
29.767	15.624	0.030000
34.728	15.552	0.030000
39.690	15.192	0.030000
44.651	15.745	0.030000
49.612	15.828	0.030000
54.573	16.288	0.030000
59.534	16.395	0.030000
64.496	16.421	0.030000
69.457	16.464	0.030000
74.418	16.523	0.030000
79.379	16.464	0.030000
84.340	16.695	0.030000
89.301	16.655	0.030000
94.263	16.594	0.030000
99.224	16.718	0.030000
104.185	16.828	0.030000
109.146	16.902	0.030000
114.107	16.994	0.030000
119.069	17.029	0.030000
124.030	17.046	0.030000
128.991	16.923	0.030000
133.952	16.930	0.030000
138.913	16.973	0.030000
143.875	17.011	0.030000
148.836	17.031	0.030000
153.797	16.947	0.030000
158.758	16.948	0.030000
163.719	17.065	0.030000
168.680	17.082	0.030000
173.642	16.978	0.030000
178.603	16.952	0.030000
183.564	16.895	0.030000
188.525	16.821	0.030000
193.486	16.889	0.030000
198.448	17.287	0.030000
203.409	17.466	0.030000
208.370	17.478	0.030000
213.331	17.822	0.030000
218.292	17.902	0.030000
223.254	17.648	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

228.215	17.326	0.030000
233.176	17.256	0.030000
238.137	17.021	0.030000
243.098	16.783	0.030000
248.059	16.815	0.030000
253.021	16.861	0.030000
257.982	16.725	0.030000
262.943	16.540	0.030000
267.904	16.457	0.030000
272.865	16.505	0.030000
277.827	16.465	0.030000
282.788	16.119	0.030000
287.749	15.969	0.030000
292.710	16.324	0.030000
297.671	16.423	0.030000
302.632	16.321	0.030000
307.594	16.354	0.030000
312.555	16.451	0.030000
317.516	16.673	0.030000
322.477	16.793	0.030000
327.438	16.717	0.030000
332.400	16.562	0.030000
337.361	16.495	0.030000
342.322	16.508	0.030000
347.283	16.524	0.030000
352.244	16.749	0.030000
357.206	17.044	0.030000
362.167	17.202	0.030000
367.128	17.284	0.030000
372.089	17.259	0.030000
377.050	17.168	0.030000
382.012	17.152	0.030000
386.973	17.205	0.030000
391.934	17.216	0.030000
396.895	17.174	0.030000
401.856	17.131	0.030000
406.818	17.218	0.030000
411.779	17.384	0.030000
416.740	17.357	0.030000
421.701	17.377	0.030000
426.662	17.325	0.030000
431.623	17.257	0.030000
436.585	17.381	0.030000
441.546	17.416	0.030000
446.507	17.452	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

451.468	17.549	0.030000
456.429	17.622	0.030000
461.391	17.681	0.030000
466.352	17.659	0.030000
471.313	17.612	0.030000
476.274	17.636	0.030000
481.235	17.522	0.030000
486.197	17.360	0.030000
491.158	17.154	0.030000
496.119	16.939	0.030000
501.080	17.007	0.030000
506.041	17.160	0.030000
511.003	17.119	0.030000
515.964	17.081	0.030000
520.925	17.106	0.030000
525.886	17.199	0.030000
530.735	17.338	0.030000
535.583	17.427	0.030000
540.432	17.582	0.030000
545.281	17.512	0.030000
550.129	17.514	0.030000
554.978	17.493	0.030000
559.827	17.463	0.030000
564.675	17.462	0.030000
569.524	17.363	0.030000
574.373	17.222	0.030000
579.221	17.064	0.030000
583.346	16.870	0.030000
587.471	16.733	0.030000
591.595	16.729	0.030000
595.720	16.642	0.030000
599.845	16.503	0.030000
603.887	16.559	0.030000
607.929	16.615	0.030000
611.972	16.593	0.030000
615.730	16.610	0.030000
619.489	16.673	0.030000
623.248	16.682	0.030000
627.645	16.744	0.030000
632.041	16.778	0.030000
636.438	16.796	0.030000
641.256	16.765	0.030000
646.073	16.676	0.030000
650.891	16.684	0.030000
655.709	16.752	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

660.526	16.747	0.030000
665.344	16.741	0.030000
670.162	16.628	0.030000
674.980	16.601	0.030000
679.797	16.625	0.030000
684.615	16.691	0.030000
689.433	16.695	0.030000
694.250	16.778	0.030000
699.068	16.686	0.030000
703.885	16.760	0.030000
708.703	16.784	0.030000
713.521	16.822	0.030000
718.339	16.830	0.030000
723.156	16.866	0.030000
727.974	16.846	0.030000
732.792	16.804	0.030000
737.609	16.795	0.030000
742.427	16.830	0.030000
747.245	16.847	0.030000
752.062	16.842	0.030000
757.027	16.899	0.030000
761.992	16.924	0.030000
766.957	16.908	0.030000
771.922	16.855	0.030000
776.888	16.802	0.030000
781.852	16.763	0.030000
786.818	16.675	0.030000
791.783	16.603	0.030000
796.748	16.493	0.030000
801.713	16.372	0.030000
806.678	16.180	0.030000
811.643	16.071	0.030000
816.608	15.974	0.030000
821.573	15.901	0.030000
826.538	15.752	0.030000
831.503	15.905	0.030000
836.468	16.099	0.030000
841.433	16.195	0.030000
846.398	16.273	0.030000
851.363	16.305	0.030000
856.328	16.328	0.030000
861.293	16.331	0.030000
866.258	16.412	0.030000
871.223	16.488	0.030000
876.188	16.496	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

880.874	16.520	0.030000
885.560	16.615	0.030000
890.245	16.659	0.030000
894.931	16.630	0.030000
899.617	16.677	0.030000
904.303	16.683	0.030000
908.989	16.703	0.030000
913.675	16.707	0.030000
918.361	16.692	0.030000
923.047	16.703	0.030000
927.700	16.672	0.030000
932.354	16.571	0.030000
937.007	16.442	0.030000
941.661	16.248	0.030000
946.314	15.964	0.030000
950.968	15.680	0.030000
955.292	15.418	0.030000
959.615	15.174	0.030000
963.939	14.907	0.030000
968.262	14.584	0.030000
972.586	14.474	0.030000

Name: XD0050C                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.962	0.030000
4.959	15.977	0.030000
9.917	16.065	0.030000
14.876	16.037	0.030000
19.834	16.162	0.030000
24.793	16.139	0.030000
29.752	16.139	0.030000
34.711	16.154	0.030000
39.669	16.117	0.030000
44.628	16.031	0.030000
49.586	16.015	0.030000
54.545	16.010	0.030000
59.504	16.061	0.030000
64.462	16.144	0.030000
69.421	16.168	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

74.379	16.135	0.030000
79.338	16.177	0.030000
84.297	16.221	0.030000
89.255	16.192	0.030000
94.214	16.223	0.030000
99.173	16.290	0.030000
104.131	16.183	0.030000
109.090	16.225	0.030000
114.049	16.344	0.030000
119.007	16.344	0.030000
123.966	16.397	0.030000
128.925	16.547	0.030000
133.883	16.619	0.030000
138.842	16.629	0.030000
143.801	16.794	0.030000
148.759	16.941	0.030000
153.718	17.085	0.030000
158.676	17.102	0.030000
163.635	17.066	0.030000
168.594	17.033	0.030000
173.552	16.961	0.030000
178.511	16.863	0.030000
183.470	16.918	0.030000
188.428	17.021	0.030000
193.387	17.070	0.030000
198.345	16.764	0.030000
203.304	16.477	0.030000
208.263	16.193	0.030000
213.221	15.778	0.030000
218.180	15.520	0.030000
223.139	15.309	0.030000
228.097	15.063	0.030000
233.056	14.881	0.030000
238.015	14.565	0.030000
242.973	14.260	0.030000
247.932	14.097	0.030000
252.891	14.197	0.030000
257.849	14.223	0.030000
262.808	14.038	0.030000
267.766	13.971	0.030000
272.725	14.297	0.030000
277.684	14.580	0.030000
282.642	14.795	0.030000
287.368	14.749	0.030000
292.093	14.761	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

296.819	14.720	0.030000
301.544	14.669	0.030000
306.270	14.560	0.030000
310.995	14.474	0.030000

Name: XD0051B\_2      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.138	0.085000
4.863	12.801	0.085000
9.725	11.436	0.085000
14.588	10.650	0.085000
19.451	10.650	0.085000
24.313	11.378	0.085000
29.176	13.549	0.085000

Name: XD0060A      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	18.482	0.030000
4.825	18.464	0.030000
9.649	18.450	0.030000
14.474	18.436	0.030000
19.299	18.422	0.030000
23.026	18.420	0.030000
26.753	18.415	0.030000
30.479	18.415	0.030000
34.206	18.417	0.030000
37.933	18.409	0.030000
41.660	18.468	0.030000
44.993	18.534	0.030000
48.326	18.577	0.030000
51.660	18.521	0.030000
56.079	18.405	0.030000
60.499	18.300	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

64.918	18.268	0.030000
69.337	18.487	0.030000
73.757	18.490	0.030000
78.176	18.497	0.030000
82.596	18.505	0.030000
87.015	18.513	0.030000
91.264	18.519	0.030000
95.513	18.493	0.030000
99.763	18.474	0.030000
104.012	18.429	0.030000
108.261	18.311	0.030000
112.510	18.179	0.030000
116.541	18.053	0.030000
120.572	18.010	0.030000
124.603	17.946	0.030000
128.635	17.965	0.030000
132.666	18.133	0.030000
135.999	18.094	0.030000
139.332	18.102	0.030000
142.666	18.206	0.030000
147.666	18.386	0.030000
152.666	18.427	0.030000
155.999	18.420	0.030000
159.332	18.442	0.030000
162.666	18.397	0.030000

Name: XD0060B      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.595	0.030000
4.984	17.467	0.030000
9.968	17.327	0.030000
14.953	17.275	0.030000
19.937	17.159	0.030000
24.921	17.110	0.030000
29.905	17.137	0.030000
34.889	17.051	0.030000
39.873	17.013	0.030000
44.858	17.071	0.030000
49.842	17.025	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

54.826	16.906	0.030000
59.810	16.742	0.030000
64.794	16.651	0.030000
69.778	16.803	0.030000
74.763	16.813	0.030000
79.747	16.793	0.030000
84.731	17.021	0.030000
89.715	17.128	0.030000
94.699	17.144	0.030000
99.683	17.166	0.030000
104.668	17.186	0.030000
109.652	17.114	0.030000
114.636	16.983	0.030000
119.620	16.955	0.030000
124.604	17.010	0.030000
129.588	17.147	0.030000
134.572	17.346	0.030000
139.557	17.113	0.030000
144.541	16.780	0.030000
149.525	16.769	0.030000
154.509	16.670	0.030000
159.493	16.358	0.030000
164.477	16.179	0.030000
169.462	16.148	0.030000
174.446	16.194	0.030000
179.430	16.212	0.030000
184.414	16.221	0.030000
189.398	16.422	0.030000
194.382	16.622	0.030000
199.367	16.709	0.030000
204.351	16.812	0.030000
209.335	16.906	0.030000
214.319	16.622	0.030000
219.303	16.254	0.030000
224.287	16.315	0.030000
229.272	16.308	0.030000
234.256	16.472	0.030000
239.240	16.197	0.030000
244.224	16.157	0.030000
249.208	16.313	0.030000
254.193	16.491	0.030000
259.177	16.458	0.030000
264.161	16.102	0.030000
269.145	16.011	0.030000
274.129	16.042	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

279.113	16.162	0.030000
284.098	16.323	0.030000
289.082	16.293	0.030000
294.066	16.297	0.030000
299.050	16.326	0.030000
304.034	16.289	0.030000
309.018	16.321	0.030000
314.003	16.195	0.030000
318.987	16.153	0.030000
323.971	16.159	0.030000
328.955	16.194	0.030000
333.939	16.133	0.030000
338.923	16.047	0.030000
343.908	16.087	0.030000
348.892	15.905	0.030000
353.876	15.925	0.030000
358.860	16.110	0.030000
363.844	16.203	0.030000
368.828	16.376	0.030000
373.813	16.182	0.030000
378.797	15.797	0.030000
383.781	15.788	0.030000
388.765	15.943	0.030000
393.749	16.076	0.030000
398.733	16.233	0.030000
403.717	16.461	0.030000
408.702	16.666	0.030000
413.686	16.785	0.030000
418.670	16.689	0.030000
423.654	16.657	0.030000
428.638	16.646	0.030000
433.623	16.584	0.030000
438.607	16.583	0.030000
443.591	16.865	0.030000
448.575	16.695	0.030000
453.559	16.495	0.030000
458.543	16.246	0.030000
463.527	16.192	0.030000
468.512	16.047	0.030000
473.496	15.948	0.030000
478.480	15.922	0.030000
483.464	15.951	0.030000
488.448	15.943	0.030000
493.433	16.379	0.030000
498.417	16.925	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

503.401	16.920	0.030000
508.385	16.564	0.030000
513.369	16.478	0.030000
518.353	16.434	0.030000
523.337	16.172	0.030000
528.322	16.071	0.030000
533.306	16.274	0.030000
538.290	16.206	0.030000
543.274	16.180	0.030000
548.258	16.189	0.030000
553.242	16.280	0.030000
558.227	16.238	0.030000
563.211	16.360	0.030000
568.195	16.237	0.030000
573.179	15.740	0.030000
578.163	15.682	0.030000
583.148	15.727	0.030000
588.132	15.533	0.030000
593.116	15.535	0.030000
598.100	15.747	0.030000
603.084	16.269	0.030000
608.068	16.369	0.030000
613.053	16.381	0.030000
618.037	15.781	0.030000
623.021	15.757	0.030000
628.005	15.657	0.030000
632.989	15.570	0.030000
637.973	15.532	0.030000
642.957	15.390	0.030000
647.942	14.977	0.030000
652.926	15.195	0.030000
657.910	15.372	0.030000
662.894	15.588	0.030000
667.878	15.724	0.030000
672.862	15.877	0.030000
677.847	15.879	0.030000
682.831	15.821	0.030000
687.815	15.841	0.030000

Name: XD0060C  
Encroachment: No

Group: D



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	18.397	0.030000
4.966	18.388	0.030000
9.932	18.419	0.030000
14.897	18.407	0.030000
19.863	18.365	0.030000
24.829	18.246	0.030000
29.794	18.175	0.030000
34.760	18.184	0.030000
39.726	18.089	0.030000
44.691	18.020	0.030000
49.657	18.092	0.030000
54.623	18.023	0.030000
59.589	17.753	0.030000
64.555	17.583	0.030000
69.520	17.622	0.030000
74.486	17.634	0.030000
79.452	17.773	0.030000
84.417	17.858	0.030000
89.383	17.681	0.030000
94.349	17.621	0.030000
99.314	17.700	0.030000
104.280	17.690	0.030000
109.246	17.771	0.030000
114.212	17.656	0.030000
119.177	17.728	0.030000
124.143	17.767	0.030000
129.109	17.703	0.030000
134.075	17.650	0.030000
139.040	17.600	0.030000
144.006	17.521	0.030000
148.972	17.577	0.030000
153.938	17.493	0.030000
158.903	17.213	0.030000
163.869	17.240	0.030000
168.835	17.227	0.030000
173.801	17.125	0.030000
178.766	17.226	0.030000
183.732	17.369	0.030000
188.698	17.423	0.030000
193.663	17.157	0.030000
198.629	16.861	0.030000
203.595	16.816	0.030000
208.560	16.808	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

213.526	16.742	0.030000
218.492	16.772	0.030000
223.458	16.767	0.030000
228.423	16.782	0.030000
233.389	16.791	0.030000
238.355	16.783	0.030000
243.321	16.767	0.030000
248.286	16.864	0.030000
253.252	16.712	0.030000
258.218	16.720	0.030000
263.183	16.783	0.030000
268.149	16.749	0.030000
273.115	16.864	0.030000
278.081	17.120	0.030000
283.046	17.203	0.030000
288.012	16.964	0.030000
292.978	16.796	0.030000
297.944	16.758	0.030000
302.909	16.848	0.030000
307.875	16.817	0.030000
312.841	16.728	0.030000
317.807	16.891	0.030000
322.772	16.939	0.030000
327.738	17.007	0.030000
332.704	17.034	0.030000
337.670	17.236	0.030000
342.635	17.229	0.030000
347.601	17.272	0.030000
352.567	17.481	0.030000
357.532	17.260	0.030000
362.498	17.320	0.030000
367.464	17.305	0.030000
372.430	17.167	0.030000
377.395	17.169	0.030000
382.361	17.295	0.030000
387.327	17.111	0.030000
392.293	17.113	0.030000
397.258	17.122	0.030000
402.224	17.181	0.030000
407.190	17.200	0.030000
412.155	17.186	0.030000
417.121	17.117	0.030000
422.087	17.159	0.030000
427.053	17.203	0.030000
432.018	17.145	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

436.984	17.147	0.030000
441.950	17.192	0.030000
446.916	17.106	0.030000
451.881	17.110	0.030000
456.847	17.157	0.030000
461.813	17.199	0.030000
466.778	17.440	0.030000
471.744	17.632	0.030000
476.710	17.750	0.030000
481.676	17.872	0.030000
486.641	17.938	0.030000
491.607	17.910	0.030000
496.573	17.877	0.030000
501.539	17.839	0.030000
506.504	17.869	0.030000
511.470	17.959	0.030000
516.436	18.007	0.030000
521.401	18.016	0.030000
526.367	18.016	0.030000
531.333	18.062	0.030000
536.298	18.116	0.030000
541.264	18.170	0.030000
546.230	18.213	0.030000
551.196	18.062	0.030000
556.162	17.819	0.030000
561.127	17.567	0.030000
566.093	17.392	0.030000
571.059	17.640	0.030000
576.024	16.925	0.030000
580.990	16.127	0.030000
585.956	15.861	0.030000
590.922	15.752	0.030000
595.887	15.762	0.030000
600.853	15.802	0.030000
605.819	15.943	0.030000
610.784	16.029	0.030000
615.750	16.202	0.030000
620.716	16.259	0.030000
625.682	16.674	0.030000
630.647	16.446	0.030000

-----  
Name: XD0060D  
Encroachment: No

Group: D

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)   Elevation(ft)   Manning's N

0.000	16.446	0.030000
4.828	16.434	0.030000
9.656	16.472	0.030000
14.483	16.386	0.030000
19.311	16.327	0.030000
24.139	16.328	0.030000
28.967	16.336	0.030000
33.794	16.336	0.030000
38.622	16.349	0.030000
43.450	16.365	0.030000
48.278	16.371	0.030000
53.106	16.378	0.030000
57.933	16.385	0.030000
62.761	16.385	0.030000
67.589	16.375	0.030000
72.417	16.366	0.030000
77.245	16.381	0.030000
82.072	16.367	0.030000
86.900	16.336	0.030000
91.728	16.258	0.030000
96.556	16.143	0.030000
101.383	16.095	0.030000
106.211	16.052	0.030000
111.039	16.050	0.030000
115.867	16.030	0.030000
120.695	16.012	0.030000
125.522	16.018	0.030000

Name: XD0060E                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.841	0.030000
4.995	15.886	0.030000
9.989	15.849	0.030000
14.983	15.878	0.030000
19.978	15.902	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

24.973	15.884	0.030000
29.967	15.872	0.030000
34.962	15.956	0.030000
39.956	16.093	0.030000
44.950	16.112	0.030000
49.945	16.172	0.030000
54.940	16.177	0.030000
59.934	16.226	0.030000
64.929	16.221	0.030000
69.923	16.060	0.030000
74.918	16.138	0.030000
79.912	16.176	0.030000
84.907	16.129	0.030000
89.901	16.173	0.030000
94.896	16.104	0.030000
99.890	16.066	0.030000
104.885	16.106	0.030000
109.879	15.944	0.030000
114.874	15.914	0.030000
119.868	16.043	0.030000
124.863	16.011	0.030000
129.857	16.110	0.030000
134.852	16.030	0.030000
139.846	15.930	0.030000
144.841	16.043	0.030000
149.835	16.163	0.030000
154.830	16.053	0.030000
159.824	15.624	0.030000
164.819	15.800	0.030000
169.813	15.755	0.030000
174.808	15.918	0.030000
179.802	15.824	0.030000
184.797	15.863	0.030000
189.791	15.833	0.030000
194.786	15.764	0.030000
199.780	15.571	0.030000
204.775	15.801	0.030000
209.769	15.759	0.030000
214.764	15.766	0.030000
219.758	15.787	0.030000
224.753	15.743	0.030000
229.747	15.738	0.030000
234.742	15.769	0.030000
239.736	15.701	0.030000
244.731	15.721	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

249.725	15.776	0.030000
254.720	15.794	0.030000
259.714	15.824	0.030000
264.709	15.837	0.030000
269.703	15.858	0.030000
274.698	15.875	0.030000
279.692	15.846	0.030000
284.687	15.860	0.030000
289.681	15.875	0.030000
294.676	15.880	0.030000
299.670	15.890	0.030000
304.665	15.901	0.030000
309.659	15.884	0.030000
314.654	15.911	0.030000
319.648	15.893	0.030000
324.643	15.938	0.030000
329.637	15.956	0.030000
334.632	15.885	0.030000
339.626	15.900	0.030000
344.621	15.929	0.030000
349.615	15.906	0.030000
354.610	15.907	0.030000
359.604	15.903	0.030000
364.599	15.893	0.030000
369.593	15.931	0.030000
374.588	15.960	0.030000
379.582	15.993	0.030000
384.577	16.018	0.030000

Name: XD0070B      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.239	0.030000
4.999	17.060	0.030000
9.997	16.980	0.030000
14.996	16.924	0.030000
19.994	16.827	0.030000
24.993	16.467	0.030000
29.991	16.320	0.030000
34.990	16.130	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

39.989	16.121	0.030000
44.987	15.804	0.030000
49.986	15.741	0.030000
54.984	15.418	0.030000
59.983	15.200	0.030000
64.982	15.849	0.030000
69.980	15.772	0.030000
74.979	15.932	0.030000
79.977	15.405	0.030000
84.976	14.916	0.030000
89.975	15.424	0.030000
94.973	15.749	0.030000
99.972	15.682	0.030000
104.970	15.760	0.030000
109.969	15.860	0.030000
114.968	15.696	0.030000
119.966	15.741	0.030000
124.965	15.249	0.030000
129.963	15.525	0.030000
134.962	15.734	0.030000
139.960	15.654	0.030000
144.959	15.627	0.030000
149.958	15.627	0.030000
154.956	15.381	0.030000
159.955	15.456	0.030000
164.953	15.607	0.030000
169.952	15.158	0.030000
174.951	15.332	0.030000
179.949	15.262	0.030000
184.948	15.489	0.030000
189.946	15.489	0.030000
194.945	15.589	0.030000
199.943	15.643	0.030000
204.942	15.632	0.030000
209.941	15.532	0.030000
214.939	14.962	0.030000
219.938	14.613	0.030000
224.936	14.148	0.030000
229.935	13.821	0.030000
234.934	13.962	0.030000
239.932	14.312	0.030000
244.931	14.591	0.030000
249.929	15.117	0.030000
254.928	15.295	0.030000
259.926	15.084	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

264.925	14.770	0.030000
269.924	14.722	0.030000
274.922	14.687	0.030000
279.921	14.546	0.030000
284.919	14.181	0.030000
289.918	14.160	0.030000
294.917	14.055	0.030000
299.915	14.563	0.030000
304.914	14.465	0.030000
309.912	14.371	0.030000
314.911	14.316	0.030000
319.909	14.591	0.030000
324.908	14.603	0.030000
329.907	14.691	0.030000
334.905	14.698	0.030000
339.904	14.676	0.030000
344.902	14.429	0.030000
349.901	14.698	0.030000
354.900	14.701	0.030000
359.898	14.713	0.030000
364.897	14.707	0.030000
369.895	14.747	0.030000
374.894	14.829	0.030000
379.892	14.811	0.030000
384.891	14.772	0.030000
389.890	14.926	0.030000
394.888	14.996	0.030000
399.887	14.956	0.030000
404.885	14.958	0.030000
409.884	15.153	0.030000
414.883	15.245	0.030000
419.881	15.346	0.030000
424.880	15.520	0.030000
429.878	15.502	0.030000
434.877	15.693	0.030000
439.876	15.774	0.030000
444.874	15.876	0.030000
449.873	15.957	0.030000
454.871	16.016	0.030000
459.870	16.128	0.030000
464.868	16.143	0.030000
469.867	16.143	0.030000
474.866	16.398	0.030000
479.864	16.533	0.030000
484.863	16.442	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

489.763	16.250	0.030000
494.662	16.048	0.030000
499.562	15.847	0.030000
504.462	15.676	0.030000
509.361	15.562	0.030000
514.261	15.599	0.030000
519.161	15.700	0.030000
524.061	15.685	0.030000
528.961	15.728	0.030000
533.860	15.842	0.030000
538.760	15.956	0.030000
543.660	15.971	0.030000
548.559	15.902	0.030000
553.459	15.923	0.030000
558.359	15.983	0.030000
563.259	16.138	0.030000
568.158	16.386	0.030000
573.058	16.594	0.030000
577.958	16.690	0.030000
582.858	16.829	0.030000
587.757	16.511	0.030000
592.657	16.282	0.030000
597.557	16.413	0.030000
602.457	16.514	0.030000
607.356	16.499	0.030000
612.256	16.422	0.030000
617.156	16.416	0.030000
622.056	16.365	0.030000
626.955	16.318	0.030000
631.855	16.334	0.030000
636.755	16.370	0.030000
641.654	16.399	0.030000
646.554	16.413	0.030000
651.454	16.409	0.030000
656.354	16.376	0.030000
661.254	16.337	0.030000
666.153	16.397	0.030000
671.053	15.843	0.030000
675.919	15.746	0.030000
680.784	15.645	0.030000
685.650	15.580	0.030000
690.516	15.530	0.030000
695.381	15.493	0.030000
700.247	15.560	0.030000
705.112	15.565	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

709.978	15.305	0.030000
714.844	15.275	0.030000
719.710	15.487	0.030000
724.575	15.821	0.030000
729.441	15.451	0.030000
734.307	14.953	0.030000
739.172	15.134	0.030000
744.038	14.378	0.030000
748.903	14.042	0.030000
753.769	13.993	0.030000
758.635	13.972	0.030000
763.500	13.969	0.030000
768.366	13.985	0.030000
773.232	14.019	0.030000
778.097	14.071	0.030000
782.963	14.142	0.030000
787.829	14.231	0.030000
792.694	14.339	0.030000
797.560	14.465	0.030000
802.426	14.610	0.030000
807.291	14.743	0.030000
812.157	14.837	0.030000
817.023	14.895	0.030000
821.888	14.890	0.030000
826.754	14.903	0.030000
831.684	15.033	0.030000
836.613	15.512	0.030000
841.543	15.684	0.030000
846.473	15.058	0.030000
851.403	15.244	0.030000
856.332	15.732	0.030000
861.262	16.177	0.030000
866.192	16.329	0.030000
871.122	16.131	0.030000
876.052	15.934	0.030000
880.981	16.049	0.030000
885.911	16.176	0.030000
890.841	16.264	0.030000
895.771	16.254	0.030000
900.701	16.248	0.030000
905.630	16.593	0.030000
910.560	16.790	0.030000
915.490	14.935	0.030000
920.420	14.871	0.030000
925.349	14.797	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

930.279	14.833	0.030000
935.209	14.952	0.030000
940.139	15.072	0.030000
945.068	14.939	0.030000
949.998	14.765	0.030000
954.928	14.860	0.030000
959.858	14.761	0.030000
964.788	14.769	0.030000
969.717	15.127	0.030000
974.647	15.686	0.030000
979.577	15.607	0.030000
984.507	15.605	0.030000
989.437	16.083	0.030000
994.366	15.898	0.030000
999.296	15.343	0.030000
1004.226	15.067	0.030000
1009.156	15.052	0.030000
1014.085	15.103	0.030000
1019.015	15.293	0.030000
1023.945	15.151	0.030000
1028.875	15.019	0.030000
1033.804	14.992	0.030000
1038.734	14.736	0.030000
1043.664	14.758	0.030000
1048.594	15.020	0.030000
1053.524	14.472	0.030000
1058.453	15.266	0.030000
1063.383	14.558	0.030000
1068.313	14.756	0.030000
1073.243	14.926	0.030000
1078.172	14.398	0.030000
1083.102	14.789	0.030000
1088.032	14.867	0.030000
1092.962	14.500	0.030000
1097.892	14.659	0.030000
1102.821	14.254	0.030000
1107.751	14.128	0.030000
1112.681	14.042	0.030000
1117.611	13.849	0.030000
1122.540	13.728	0.030000
1127.470	13.503	0.030000
1132.400	13.300	0.030000
1137.330	13.092	0.030000
1142.259	12.717	0.030000
1147.189	12.746	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1152.119	12.644	0.030000
1156.739	13.526	0.030000
1161.359	14.405	0.030000
1165.979	14.999	0.030000
1170.599	14.842	0.030000
1175.218	14.991	0.030000
1179.838	15.053	0.030000
1184.458	15.259	0.030000
1189.078	15.237	0.030000
1193.698	15.179	0.030000
1198.318	15.396	0.030000
1202.938	15.977	0.030000
1207.772	16.356	0.030000
1212.607	15.935	0.030000
1217.441	15.483	0.030000
1222.276	15.463	0.030000
1227.110	15.601	0.030000
1231.945	15.708	0.030000
1236.779	15.744	0.030000
1241.614	16.062	0.030000
1246.448	15.853	0.030000
1251.283	15.504	0.030000
1256.275	15.661	0.030000
1261.266	15.605	0.030000
1266.258	15.809	0.030000
1271.250	15.925	0.030000
1276.242	15.819	0.030000
1281.233	15.722	0.030000
1286.225	15.456	0.030000
1291.217	15.462	0.030000
1296.209	15.651	0.030000
1301.201	15.476	0.030000
1306.192	15.719	0.030000
1311.184	15.521	0.030000
1316.176	15.342	0.030000
1321.168	15.476	0.030000
1326.160	15.570	0.030000
1331.151	16.039	0.030000
1336.143	15.796	0.030000
1341.135	15.585	0.030000
1346.127	15.640	0.030000
1351.119	15.648	0.030000
1356.110	15.897	0.030000
1361.102	15.926	0.030000
1366.094	16.089	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1371.086	16.289	0.030000
1376.078	16.106	0.030000
1381.069	15.929	0.030000
1386.061	15.648	0.030000
1391.053	15.343	0.030000
1396.045	15.167	0.030000
1401.036	15.132	0.030000
1406.028	15.167	0.030000
1411.020	15.255	0.030000
1416.012	15.304	0.030000
1421.004	15.417	0.030000
1425.996	15.467	0.030000
1430.987	15.433	0.030000
1435.979	15.309	0.030000
1440.971	15.408	0.030000
1445.963	15.356	0.030000
1450.955	15.368	0.030000
1455.946	15.320	0.030000
1460.938	15.187	0.030000
1465.930	15.274	0.030000
1470.922	15.514	0.030000
1475.913	15.738	0.030000
1480.905	15.923	0.030000
1485.897	15.953	0.030000
1490.889	15.948	0.030000
1495.881	16.043	0.030000
1500.872	16.092	0.030000
1505.864	16.133	0.030000
1510.856	16.153	0.030000
1515.790	16.138	0.030000
1520.723	16.068	0.030000
1525.656	16.201	0.030000
1530.590	16.436	0.030000
1535.523	16.636	0.030000
1540.457	16.647	0.030000
1545.390	16.369	0.030000
1550.324	16.476	0.030000
1555.257	16.540	0.030000
1560.190	16.515	0.030000
1565.124	16.527	0.030000
1570.057	16.438	0.030000
1574.991	16.324	0.030000
1579.924	16.163	0.030000
1584.858	16.280	0.030000
1589.791	16.370	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1594.725	16.317	0.030000
1599.658	16.442	0.030000
1604.592	16.449	0.030000
1609.525	16.402	0.030000
1614.459	16.484	0.030000
1619.392	16.546	0.030000
1624.325	16.470	0.030000
1629.259	16.443	0.030000
1634.192	16.414	0.030000
1639.126	16.619	0.030000
1644.059	16.428	0.030000
1648.993	16.489	0.030000
1653.926	16.545	0.030000
1658.860	16.486	0.030000
1663.793	16.491	0.030000
1668.727	16.554	0.030000
1673.660	16.671	0.030000
1678.593	16.728	0.030000
1683.527	16.843	0.030000
1688.460	16.903	0.030000
1693.394	16.983	0.030000
1698.327	17.070	0.030000
1703.261	17.171	0.030000
1708.194	17.033	0.030000
1713.128	16.951	0.030000
1718.061	16.986	0.030000
1722.995	17.124	0.030000
1727.928	17.220	0.030000
1732.862	17.169	0.030000
1737.795	17.618	0.030000
1742.728	17.642	0.030000
1747.662	17.420	0.030000
1752.595	17.278	0.030000
1757.529	17.412	0.030000
1762.462	17.567	0.030000
1767.396	17.592	0.030000
1772.329	17.593	0.030000
1777.263	17.765	0.030000
1782.196	17.749	0.030000
1787.130	17.870	0.030000
1792.063	17.911	0.030000
1796.996	18.025	0.030000
1801.930	18.079	0.030000
1806.863	18.067	0.030000
1811.797	18.147	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1816.730	18.335	0.030000
1821.664	18.332	0.030000
1826.597	18.292	0.030000
1831.531	18.354	0.030000
1836.464	18.367	0.030000
1841.398	18.521	0.030000
1846.331	18.346	0.030000
1851.264	18.262	0.030000
1856.198	18.360	0.030000
1861.131	18.174	0.030000
1866.065	17.951	0.030000
1870.998	17.770	0.030000
1875.932	17.697	0.030000
1880.865	17.455	0.030000
1885.842	17.098	0.030000
1890.819	16.799	0.030000
1895.796	16.331	0.030000
1900.774	15.862	0.030000
1905.751	15.359	0.030000
1910.728	14.849	0.030000
1915.705	14.233	0.030000
1920.682	14.063	0.030000
1925.659	14.212	0.030000
1930.636	14.162	0.030000

-----

Name: XD0070C	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	17.239	0.030000
15.880	16.663	0.030000
33.044	16.695	0.030000
51.422	16.944	0.030000
67.914	16.706	0.030000
82.896	16.555	0.030000
99.271	16.391	0.030000
117.221	16.249	0.030000
131.899	16.304	0.030000
150.363	16.063	0.030000
165.276	15.975	0.030000
181.033	16.177	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

198.030	16.429	0.030000
215.073	16.570	0.030000
231.073	16.422	0.030000
248.070	16.192	0.030000
264.474	15.980	0.030000
280.626	15.849	0.030000
296.431	15.649	0.030000
311.209	15.550	0.030000
329.503	15.389	0.030000
344.890	15.115	0.030000
361.546	15.066	0.030000
380.075	15.544	0.030000
396.417	15.745	0.030000
412.542	15.956	0.030000
430.220	16.388	0.030000
448.420	16.345	0.030000
466.137	16.414	0.030000
481.746	16.895	0.030000
499.893	16.707	0.030000
519.113	16.413	0.030000
536.733	16.411	0.030000
554.844	16.587	0.030000
571.872	16.649	0.030000
586.728	16.531	0.030000
604.923	16.519	0.030000
622.110	16.522	0.030000
637.404	16.654	0.030000
653.248	16.589	0.030000
670.149	17.035	0.030000
688.726	16.831	0.030000
708.202	16.903	0.030000
727.154	16.606	0.030000
741.909	16.878	0.030000
755.551	16.879	0.030000
772.930	16.774	0.030000
790.303	16.976	0.030000
808.205	16.711	0.030000
827.739	16.825	0.030000
844.827	16.940	0.030000
862.916	16.821	0.030000
874.788	16.852	0.030000
891.512	17.174	0.030000
908.985	16.879	0.030000
925.013	16.813	0.030000
942.482	16.759	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

958.975	16.851	0.030000
977.446	16.625	0.030000
994.155	15.841	0.030000
1010.369	15.695	0.030000
1026.723	15.592	0.030000
1042.341	15.506	0.030000
1059.779	16.195	0.030000
1075.419	16.497	0.030000
1091.557	17.024	0.030000
1107.211	16.724	0.030000
1121.013	16.762	0.030000
1139.851	17.016	0.030000
1156.893	17.088	0.030000
1174.897	17.058	0.030000
1188.641	16.878	0.030000
1203.116	16.890	0.030000
1218.323	16.876	0.030000
1232.798	17.000	0.030000
1247.930	17.102	0.030000
1267.438	16.722	0.030000
1284.079	17.055	0.030000
1302.183	17.420	0.030000
1320.362	17.121	0.030000
1338.035	16.926	0.030000
1353.121	16.757	0.030000
1369.056	16.644	0.030000
1383.898	16.935	0.030000
1399.268	16.962	0.030000
1416.766	16.998	0.030000
1434.855	16.875	0.030000
1452.771	16.543	0.030000
1470.228	16.657	0.030000
1485.393	16.550	0.030000
1501.474	16.799	0.030000
1517.856	16.904	0.030000
1535.772	16.765	0.030000
1552.014	16.695	0.030000
1567.071	16.831	0.030000
1583.992	16.866	0.030000
1602.625	16.886	0.030000
1620.826	16.993	0.030000
1637.698	16.840	0.030000
1652.314	16.767	0.030000
1669.402	16.485	0.030000
1682.491	16.611	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1699.584	16.428	0.030000
1715.250	16.758	0.030000
1732.016	17.103	0.030000
1750.597	17.116	0.030000
1768.627	17.155	0.030000
1785.273	17.166	0.030000
1801.561	17.232	0.030000
1820.605	17.204	0.030000
1838.758	17.569	0.030000
1855.871	17.310	0.030000
1873.932	17.371	0.030000
1889.398	17.344	0.030000
1907.599	16.975	0.030000
1925.709	16.953	0.030000
1940.237	16.937	0.030000
1954.725	16.926	0.030000
1970.771	17.139	0.030000
1988.884	17.034	0.030000
2007.188	16.932	0.030000
2022.704	17.427	0.030000
2038.828	17.370	0.030000
2054.953	17.474	0.030000
2070.764	17.547	0.030000
2087.514	16.750	0.030000
2105.889	16.757	0.030000
2122.067	17.041	0.030000
2138.654	16.996	0.030000
2157.173	16.973	0.030000
2175.754	17.032	0.030000
2193.890	17.215	0.030000
2209.625	17.184	0.030000
2226.421	17.131	0.030000
2244.415	17.343	0.030000
2263.126	17.308	0.030000
2282.511	16.999	0.030000
2300.109	17.440	0.030000
2317.182	17.494	0.030000
2335.515	17.365	0.030000
2352.767	17.494	0.030000
2372.219	17.568	0.030000
2389.830	17.414	0.030000
2405.520	17.383	0.030000
2420.724	17.473	0.030000
2438.769	17.552	0.030000
2454.769	17.748	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

2470.998	17.813	0.030000
2489.708	17.664	0.030000
2506.668	17.686	0.030000
2522.536	17.842	0.030000
2537.545	17.901	0.030000
2554.891	18.008	0.030000
2571.557	17.572	0.030000
2586.763	17.747	0.030000
2602.332	17.996	0.030000
2617.973	17.894	0.030000
2636.000	17.751	0.030000
2650.352	17.570	0.030000
2665.148	17.322	0.030000
2682.622	17.622	0.030000
2698.276	17.706	0.030000
2712.077	17.691	0.030000
2730.396	18.131	0.030000
2749.038	17.718	0.030000
2766.716	17.705	0.030000
2783.745	17.684	0.030000
2799.183	17.599	0.030000
2812.927	17.787	0.030000
2828.494	17.649	0.030000
2845.886	17.794	0.030000
2862.383	18.263	0.030000
2878.121	18.429	0.030000
2893.968	18.054	0.030000
2909.628	17.782	0.030000
2926.117	18.391	0.030000
2941.893	18.330	0.030000
2959.013	18.062	0.030000
2977.131	17.850	0.030000
2995.629	17.696	0.030000
3015.629	17.478	0.030000
3032.379	17.229	0.030000
3048.551	17.957	0.030000
3065.494	17.906	0.030000
3079.833	18.192	0.030000
3095.957	18.049	0.030000
3113.304	18.006	0.030000
3131.077	17.478	0.030000
3149.514	17.478	0.030000
3168.115	17.381	0.030000
3185.318	17.240	0.030000
3201.023	17.188	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

3216.959	17.151	0.030000
3231.188	17.158	0.030000
3246.998	17.229	0.030000
3265.873	16.677	0.030000
3285.241	16.068	0.030000
3304.610	16.432	0.030000
3323.796	16.859	0.030000
3342.799	17.392	0.030000
3357.107	17.420	0.030000
3373.107	18.040	0.030000
3391.908	18.049	0.030000
3407.040	18.010	0.030000
3423.352	17.537	0.030000
3438.673	17.826	0.030000
3458.125	18.227	0.030000
3476.350	17.726	0.030000
3493.449	18.405	0.030000
3510.652	18.470	0.030000

Name: XD0080B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.474	0.030000
3.818	14.339	0.030000
7.636	14.258	0.030000
11.454	14.021	0.030000
16.204	14.028	0.030000
20.955	14.114	0.030000
25.706	14.269	0.030000
30.308	14.131	0.030000
34.910	14.212	0.030000
39.513	14.159	0.030000
44.115	14.189	0.030000
48.717	14.202	0.030000
53.319	14.162	0.030000

Name: XD0080C                      Group: D  
Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	14.162	0.030000
3.333	14.101	0.030000
6.667	14.218	0.030000
10.000	14.238	0.030000
14.488	14.239	0.030000
18.975	14.448	0.030000
23.463	14.628	0.030000
27.572	14.925	0.030000
31.681	15.187	0.030000
35.790	15.467	0.030000
39.899	15.642	0.030000
44.499	15.914	0.030000
49.099	16.025	0.030000
53.699	16.687	0.030000
58.298	16.865	0.030000
62.898	16.980	0.030000
67.498	17.150	0.030000
72.098	17.358	0.030000
76.143	17.595	0.030000
80.189	17.693	0.030000
84.234	17.662	0.030000
88.279	17.555	0.030000
93.156	17.507	0.030000
98.033	17.499	0.030000
102.910	17.492	0.030000
107.787	17.490	0.030000
112.134	17.530	0.030000
116.482	17.504	0.030000
120.830	17.498	0.030000
124.266	17.499	0.030000
127.702	17.515	0.030000
131.138	17.551	0.030000
134.574	17.685	0.030000
138.010	17.934	0.030000
141.446	18.013	0.030000
145.875	17.931	0.030000
150.304	17.941	0.030000
154.476	17.812	0.030000
158.648	17.686	0.030000
162.820	17.812	0.030000
166.992	17.870	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

170.325	17.840	0.030000
173.658	17.809	0.030000
176.992	17.792	0.030000
181.992	17.802	0.030000
186.992	17.865	0.030000
191.992	17.851	0.030000
196.992	17.796	0.030000
201.992	17.745	0.030000
206.992	17.678	0.030000
210.793	17.711	0.030000
214.595	17.798	0.030000
218.397	17.845	0.030000
222.199	17.841	0.030000
226.686	17.829	0.030000
231.174	17.780	0.030000
235.073	17.787	0.030000
238.971	17.759	0.030000
242.870	17.882	0.030000
247.119	17.948	0.030000
251.369	17.868	0.030000
255.618	17.797	0.030000
259.867	17.762	0.030000
264.116	17.744	0.030000
268.365	17.730	0.030000
272.740	17.702	0.030000
277.115	17.683	0.030000
281.490	17.647	0.030000
285.865	17.535	0.030000
290.240	17.473	0.030000
294.615	17.612	0.030000
298.990	17.757	0.030000
303.365	17.592	0.030000
307.872	17.390	0.030000
312.379	17.500	0.030000
317.139	17.436	0.030000
321.899	17.407	0.030000
326.659	17.199	0.030000
331.420	17.566	0.030000
336.180	17.660	0.030000
340.940	17.595	0.030000

-----  
Name: XD0081A\_1

Group: D

Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

-----  
0.000 13.164 0.085000  
4.764 10.910 0.085000  
9.527 9.389 0.085000  
14.291 9.328 0.085000  
19.055 9.328 0.085000  
23.818 9.509 0.085000  
28.582 10.107 0.085000  
33.345 11.489 0.085000  
38.109 13.149 0.085000

-----  
Name: XD0081A\_2 Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 13.573 0.085000  
4.548 11.185 0.085000  
9.095 9.660 0.085000  
13.643 9.062 0.085000  
18.191 8.860 0.085000  
22.738 8.860 0.085000  
27.286 8.860 0.085000  
31.834 8.968 0.085000  
36.381 10.065 0.085000  
40.929 12.007 0.085000

-----  
Name: XD0090B Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 16.798 0.030000  
14.996 16.799 0.030000  
31.597 16.705 0.030000  
48.478 16.687 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

66.011	16.021	0.030000
87.135	16.143	0.030000
105.037	15.711	0.030000
122.240	15.664	0.030000
140.440	15.983	0.030000
159.625	15.714	0.030000
179.049	16.252	0.030000
197.662	15.830	0.030000
212.418	15.819	0.030000
228.314	15.862	0.030000
244.312	15.934	0.030000
259.273	16.041	0.030000
275.706	15.760	0.030000
290.114	15.616	0.030000
304.853	15.563	0.030000
319.894	15.586	0.030000
336.644	15.502	0.030000
352.769	15.641	0.030000
368.933	15.497	0.030000
385.245	15.398	0.030000
398.972	15.832	0.030000
416.043	15.978	0.030000
433.041	15.875	0.030000
452.000	15.782	0.030000
469.916	15.498	0.030000
485.017	15.545	0.030000
503.455	15.477	0.030000
520.741	15.516	0.030000
538.939	15.608	0.030000
554.669	15.995	0.030000
569.520	15.915	0.030000
583.569	15.927	0.030000
597.231	16.102	0.030000
611.074	15.843	0.030000
627.665	16.153	0.030000
645.881	16.287	0.030000
662.863	15.999	0.030000
678.360	16.055	0.030000
695.297	15.920	0.030000
712.770	16.080	0.030000
730.063	16.137	0.030000
746.842	15.940	0.030000
762.966	15.920	0.030000
780.439	16.342	0.030000
797.616	16.615	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

814.778	16.745	0.030000
832.991	16.452	0.030000
851.904	16.027	0.030000
869.320	16.007	0.030000
884.714	15.874	0.030000
900.760	16.069	0.030000
915.248	16.070	0.030000
931.342	15.971	0.030000
946.708	16.297	0.030000
961.324	16.538	0.030000
975.799	15.887	0.030000
991.465	15.897	0.030000
1007.360	15.882	0.030000
1022.099	16.103	0.030000
1036.671	16.222	0.030000
1051.449	16.283	0.030000
1067.018	16.272	0.030000
1085.216	16.003	0.030000
1103.065	16.141	0.030000
1120.791	16.248	0.030000
1138.403	15.954	0.030000
1156.429	15.846	0.030000
1171.585	15.862	0.030000
1189.785	15.924	0.030000
1203.119	16.255	0.030000
1216.452	16.132	0.030000
1233.044	15.894	0.030000
1250.367	15.972	0.030000
1268.298	15.981	0.030000
1287.195	15.743	0.030000
1305.694	15.873	0.030000
1322.453	15.813	0.030000
1336.197	15.716	0.030000
1349.633	15.725	0.030000
1364.840	15.837	0.030000
1379.973	15.795	0.030000
1396.081	15.677	0.030000
1413.077	15.783	0.030000
1431.579	15.598	0.030000
1450.080	15.557	0.030000
1466.078	15.649	0.030000
1483.432	15.513	0.030000
1503.139	15.431	0.030000
1522.197	15.393	0.030000
1540.377	15.188	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1557.127	15.299	0.030000
1573.407	15.313	0.030000
1590.219	15.117	0.030000
1608.031	15.117	0.030000
1626.391	15.350	0.030000
1646.391	15.480	0.030000
1651.391	15.411	0.030000
1669.724	15.227	0.030000
1686.391	15.262	0.030000
1705.848	15.307	0.030000
1724.046	15.389	0.030000
1741.158	15.193	0.030000
1758.227	15.557	0.030000
1776.384	15.325	0.030000
1793.027	15.205	0.030000
1809.349	15.366	0.030000
1825.805	15.372	0.030000
1844.491	15.394	0.030000
1860.172	15.522	0.030000
1878.172	15.570	0.030000
1893.492	15.636	0.030000
1908.006	15.595	0.030000
1932.278	15.910	0.030000
1949.274	15.815	0.030000
1966.567	15.800	0.030000
1983.515	15.931	0.030000
2001.022	15.786	0.030000
2020.062	15.812	0.030000
2037.739	15.891	0.030000
2054.246	16.099	0.030000
2070.274	16.053	0.030000
2087.271	15.976	0.030000
2104.749	15.826	0.030000
2123.670	15.685	0.030000
2142.592	15.853	0.030000
2162.346	15.662	0.030000
2180.189	15.862	0.030000
2194.541	15.893	0.030000
2209.523	15.865	0.030000
2224.711	15.869	0.030000

Name: XD0091A\_1

Group: D

Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

-----  
0.000 9.998 0.085000  
4.641 7.997 0.085000  
9.282 7.780 0.085000  
13.923 7.814 0.085000  
18.564 8.223 0.085000  
23.205 9.494 0.085000  
27.846 11.777 0.085000

-----  
Name: XD0091A\_2 Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 12.041 0.085000  
4.894 9.026 0.085000  
9.789 7.335 0.085000  
14.683 7.280 0.085000  
19.578 7.280 0.085000  
24.472 7.280 0.085000  
29.367 7.280 0.085000  
34.261 9.647 0.085000  
39.156 12.707 0.085000

-----  
Name: XD0100A Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 15.500 0.030000  
4.997 15.441 0.030000  
9.995 15.376 0.030000  
14.992 15.285 0.030000  
19.989 15.223 0.030000  
24.987 15.138 0.030000  
29.984 15.039 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

34.981	14.978	0.030000
39.979	14.887	0.030000
44.976	14.851	0.030000
49.974	14.871	0.030000
54.971	14.862	0.030000
59.968	14.848	0.030000
64.966	14.831	0.030000
69.963	14.917	0.030000
74.960	15.130	0.030000
79.958	15.273	0.030000
84.955	15.173	0.030000
89.953	15.039	0.030000
94.950	14.961	0.030000
99.947	14.905	0.030000
104.945	14.943	0.030000
109.942	14.956	0.030000
114.939	14.918	0.030000
119.937	14.946	0.030000
124.934	15.025	0.030000
129.931	15.070	0.030000
134.929	15.057	0.030000
139.926	15.020	0.030000
144.923	14.974	0.030000
149.921	14.992	0.030000
154.918	14.972	0.030000
159.916	14.902	0.030000
164.913	14.932	0.030000
169.910	14.955	0.030000
174.908	14.917	0.030000
179.905	14.910	0.030000
184.902	14.829	0.030000
189.900	14.711	0.030000
194.897	14.729	0.030000
199.894	14.724	0.030000
204.892	14.797	0.030000
209.889	14.938	0.030000
214.887	14.881	0.030000
219.884	14.775	0.030000
224.881	14.871	0.030000
229.879	15.016	0.030000
234.876	15.084	0.030000
239.873	15.123	0.030000
244.871	15.063	0.030000
249.868	14.996	0.030000
254.865	14.994	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

259.863	14.964	0.030000
264.860	14.982	0.030000
269.857	15.028	0.030000
274.855	15.036	0.030000
279.852	15.053	0.030000
284.849	15.075	0.030000
289.847	15.153	0.030000
294.844	15.280	0.030000
299.842	15.349	0.030000
304.839	15.427	0.030000
309.836	15.472	0.030000
314.834	15.507	0.030000
319.831	15.520	0.030000
324.828	15.477	0.030000
329.826	15.399	0.030000
334.823	15.431	0.030000
339.820	15.339	0.030000
344.818	15.239	0.030000
349.772	15.331	0.030000
354.727	15.445	0.030000
359.681	15.395	0.030000
364.636	15.310	0.030000
369.590	15.485	0.030000
374.545	15.610	0.030000
379.499	15.549	0.030000
384.454	15.374	0.030000
389.408	15.381	0.030000
394.363	15.360	0.030000
399.317	15.385	0.030000
404.272	15.255	0.030000
409.226	15.185	0.030000
414.181	15.001	0.030000
419.135	14.859	0.030000
424.090	14.917	0.030000
429.044	15.014	0.030000
433.999	15.155	0.030000
438.953	15.264	0.030000
443.908	15.360	0.030000
448.862	15.411	0.030000
453.817	15.352	0.030000
458.771	15.456	0.030000
463.726	15.383	0.030000
468.680	15.397	0.030000
473.635	15.454	0.030000
478.589	15.430	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

483.544	15.442	0.030000
488.498	15.525	0.030000
493.453	15.445	0.030000
498.407	15.448	0.030000
503.362	15.383	0.030000
508.316	15.518	0.030000
513.271	15.469	0.030000
518.225	15.166	0.030000
523.180	15.137	0.030000
528.134	15.118	0.030000
533.089	15.082	0.030000
538.043	14.963	0.030000
542.998	14.726	0.030000
547.952	14.668	0.030000
552.907	14.688	0.030000
557.861	14.775	0.030000
562.816	14.903	0.030000
567.770	14.917	0.030000
572.725	15.646	0.030000
577.679	15.481	0.030000
582.634	15.601	0.030000
587.588	15.269	0.030000
592.543	15.198	0.030000
597.497	15.066	0.030000
602.452	15.057	0.030000
607.406	15.340	0.030000
612.361	15.630	0.030000
617.315	15.309	0.030000
622.270	15.320	0.030000
627.224	15.285	0.030000
632.179	15.262	0.030000
637.133	15.431	0.030000
642.088	15.488	0.030000
647.042	15.403	0.030000
651.997	15.437	0.030000
656.951	15.399	0.030000
661.906	15.455	0.030000
666.341	15.454	0.030000
670.776	15.388	0.030000
675.211	15.258	0.030000
679.646	15.190	0.030000

Name: XD0100B

Group: D

Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.575	0.030000
4.987	16.456	0.030000
9.974	16.328	0.030000
14.961	16.213	0.030000
19.948	16.129	0.030000
24.935	16.048	0.030000
29.922	16.024	0.030000
34.910	16.036	0.030000
39.897	16.012	0.030000
44.884	15.909	0.030000
49.871	15.782	0.030000
54.858	15.672	0.030000
59.845	15.608	0.030000
64.832	15.556	0.030000
69.819	15.552	0.030000
74.806	15.564	0.030000
79.793	15.533	0.030000
84.781	15.507	0.030000
89.768	15.499	0.030000
94.755	15.484	0.030000
99.742	15.481	0.030000
104.729	15.531	0.030000
109.716	15.606	0.030000
114.703	15.664	0.030000
119.690	15.603	0.030000
124.677	15.592	0.030000
129.664	15.638	0.030000
134.651	15.675	0.030000
139.638	15.722	0.030000
144.626	15.789	0.030000
149.613	15.748	0.030000
154.600	15.689	0.030000
159.587	15.520	0.030000
164.574	15.516	0.030000
169.561	15.571	0.030000
174.548	15.531	0.030000
179.535	15.509	0.030000
184.522	15.630	0.030000
189.509	15.678	0.030000
194.497	15.706	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

199.484	15.679	0.030000
204.471	15.676	0.030000
209.458	15.697	0.030000
214.445	15.718	0.030000
219.432	15.742	0.030000
224.419	15.784	0.030000
229.406	15.785	0.030000
234.393	15.808	0.030000
239.380	15.803	0.030000
244.367	15.795	0.030000
249.355	15.782	0.030000
254.342	15.768	0.030000
259.329	15.816	0.030000
264.316	15.839	0.030000
269.303	15.840	0.030000
274.290	15.821	0.030000
279.277	15.777	0.030000
284.264	15.707	0.030000
289.251	15.768	0.030000
294.238	15.808	0.030000
299.225	15.829	0.030000
304.212	15.818	0.030000
309.200	15.773	0.030000
314.187	15.765	0.030000
319.174	15.785	0.030000
324.161	15.793	0.030000
329.148	15.799	0.030000
334.135	15.791	0.030000
339.122	15.810	0.030000
344.109	15.788	0.030000
349.096	15.768	0.030000
354.083	15.750	0.030000
359.070	15.730	0.030000
364.058	15.743	0.030000
369.045	15.785	0.030000
374.032	15.878	0.030000
379.019	15.841	0.030000
384.006	15.821	0.030000
388.993	15.850	0.030000
393.980	15.953	0.030000
398.967	15.983	0.030000
403.954	16.042	0.030000
408.941	15.989	0.030000
413.928	15.975	0.030000
418.916	15.956	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

423.903	15.970	0.030000
428.890	16.005	0.030000
433.877	15.854	0.030000
438.864	15.850	0.030000
443.851	15.863	0.030000
448.838	15.868	0.030000
453.825	15.850	0.030000
458.812	15.837	0.030000
463.799	15.986	0.030000
468.786	15.966	0.030000
473.774	15.983	0.030000
478.761	15.986	0.030000
483.748	16.016	0.030000
488.735	16.083	0.030000
493.722	16.101	0.030000
498.709	16.072	0.030000
503.696	16.129	0.030000
508.683	16.178	0.030000
513.670	16.189	0.030000
518.657	16.172	0.030000
523.644	16.216	0.030000
528.631	16.183	0.030000
533.619	16.164	0.030000
538.606	16.225	0.030000
543.593	16.210	0.030000
548.580	16.206	0.030000
553.567	16.154	0.030000
558.554	16.152	0.030000
563.541	16.160	0.030000
568.528	16.138	0.030000
573.515	16.119	0.030000
578.502	16.227	0.030000
583.490	16.286	0.030000
588.477	16.158	0.030000
593.464	16.105	0.030000
598.451	16.060	0.030000
603.438	16.044	0.030000
608.425	16.029	0.030000
613.412	16.058	0.030000
618.399	16.091	0.030000
623.386	16.088	0.030000
628.373	16.112	0.030000
633.360	16.108	0.030000
638.347	16.079	0.030000
643.335	16.066	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

648.322	16.142	0.030000
653.309	16.123	0.030000
658.296	16.119	0.030000
663.283	16.096	0.030000
668.270	16.109	0.030000
673.257	16.032	0.030000
678.244	16.137	0.030000
683.231	16.195	0.030000
688.218	16.211	0.030000
693.206	16.244	0.030000
698.193	16.260	0.030000
703.180	16.304	0.030000
708.167	16.274	0.030000
713.154	16.196	0.030000
718.141	16.306	0.030000
723.128	16.302	0.030000
728.115	16.294	0.030000
733.102	16.253	0.030000
738.089	16.224	0.030000
743.076	16.283	0.030000
748.063	16.245	0.030000
753.051	16.271	0.030000
758.038	16.242	0.030000
763.025	16.277	0.030000
768.012	16.273	0.030000
772.999	16.276	0.030000
777.986	16.252	0.030000
782.973	16.260	0.030000
787.960	16.246	0.030000
792.947	16.235	0.030000
797.934	16.263	0.030000
802.922	16.250	0.030000
807.909	16.308	0.030000
812.896	16.353	0.030000
817.883	16.256	0.030000
822.870	16.286	0.030000
827.857	16.256	0.030000
832.844	16.313	0.030000
837.831	16.258	0.030000
842.818	16.312	0.030000
847.805	16.329	0.030000
852.792	16.371	0.030000
857.779	16.376	0.030000
862.767	16.338	0.030000
867.754	16.349	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

872.741	16.391	0.030000
877.728	16.462	0.030000
882.715	16.500	0.030000
887.702	16.400	0.030000
892.689	16.496	0.030000
897.676	16.497	0.030000
902.663	16.392	0.030000
907.650	16.500	0.030000
912.638	16.518	0.030000
917.625	16.476	0.030000
922.612	16.501	0.030000
927.599	16.522	0.030000
932.586	16.454	0.030000
937.573	16.445	0.030000
942.560	16.412	0.030000
947.547	16.434	0.030000
952.534	16.394	0.030000
957.521	16.546	0.030000
962.508	16.649	0.030000
967.495	16.730	0.030000
972.390	16.756	0.030000
977.284	16.771	0.030000
982.178	16.699	0.030000
987.073	16.520	0.030000
991.967	16.400	0.030000
996.862	16.412	0.030000
1001.756	16.405	0.030000
1006.650	16.508	0.030000
1011.545	16.484	0.030000
1016.439	16.453	0.030000
1021.333	16.429	0.030000
1026.228	16.409	0.030000
1031.122	16.477	0.030000
1036.017	16.542	0.030000
1040.911	16.546	0.030000
1045.805	16.651	0.030000
1050.700	16.533	0.030000
1055.594	16.464	0.030000
1060.488	16.630	0.030000
1065.383	16.772	0.030000
1070.277	16.773	0.030000
1075.171	16.757	0.030000
1078.925	16.917	0.030000
1082.678	16.950	0.030000
1086.430	16.768	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1090.680	16.857	0.030000
1094.929	16.946	0.030000
1099.178	17.015	0.030000
1103.427	17.024	0.030000
1107.676	17.041	0.030000
1111.926	17.089	0.030000
1116.648	17.204	0.030000
1121.370	17.236	0.030000
1126.092	17.165	0.030000
1130.815	17.281	0.030000
1135.537	17.182	0.030000
1140.259	17.043	0.030000
1144.981	16.944	0.030000
1149.703	17.038	0.030000
1154.426	17.295	0.030000
1158.176	17.444	0.030000
1161.926	17.432	0.030000
1165.676	17.348	0.030000
1169.426	17.436	0.030000
1173.801	17.513	0.030000
1178.176	17.511	0.030000
1182.551	17.716	0.030000
1186.926	17.852	0.030000
1191.301	17.580	0.030000
1195.676	17.458	0.030000
1200.051	17.355	0.030000
1204.426	17.247	0.030000
1209.426	17.119	0.030000
1214.426	16.992	0.030000
1219.426	16.915	0.030000
1224.309	16.814	0.030000
1229.193	16.803	0.030000
1234.076	16.879	0.030000
1238.959	16.944	0.030000

Name: XD0110B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.163	0.030000
4.453	15.953	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

8.906	15.772	0.030000
13.359	15.609	0.030000
17.813	15.162	0.030000
22.266	15.968	0.030000
26.719	16.155	0.030000
31.172	16.172	0.030000
35.625	16.279	0.030000
40.078	16.511	0.030000
43.514	16.694	0.030000
46.950	16.785	0.030000
50.386	16.825	0.030000
53.719	16.857	0.030000
57.053	16.890	0.030000
60.386	16.898	0.030000
64.430	16.907	0.030000
68.475	16.876	0.030000
72.519	16.871	0.030000
76.904	16.872	0.030000
81.288	16.920	0.030000
85.672	16.968	0.030000
90.057	17.020	0.030000
94.441	17.076	0.030000
97.877	17.089	0.030000
101.313	17.054	0.030000
104.749	17.018	0.030000
108.872	16.846	0.030000
112.995	16.597	0.030000
117.118	16.444	0.030000
121.241	16.307	0.030000
125.364	16.272	0.030000
130.062	16.292	0.030000
134.759	16.282	0.030000
139.457	16.284	0.030000
144.154	16.326	0.030000
148.852	16.332	0.030000
153.549	16.367	0.030000
158.247	16.401	0.030000
162.048	16.416	0.030000
165.850	16.516	0.030000
169.652	16.593	0.030000
173.453	16.636	0.030000
178.263	16.835	0.030000
183.073	16.874	0.030000
187.883	16.890	0.030000
192.693	16.773	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

197.107	16.735	0.030000
201.522	16.717	0.030000
205.936	16.700	0.030000
210.351	16.682	0.030000
214.303	16.681	0.030000
218.256	16.711	0.030000
222.209	16.741	0.030000
226.162	16.773	0.030000
230.591	16.790	0.030000
235.020	16.771	0.030000
239.465	16.783	0.030000
243.909	16.767	0.030000
248.354	16.818	0.030000
252.903	16.913	0.030000
257.453	16.829	0.030000
262.002	16.805	0.030000
266.552	16.749	0.030000
271.101	16.753	0.030000
275.651	16.776	0.030000
280.080	16.787	0.030000
284.509	16.786	0.030000
289.059	16.808	0.030000
293.608	16.798	0.030000
298.158	16.783	0.030000
302.707	16.754	0.030000
307.257	16.765	0.030000
311.807	16.934	0.030000
315.994	17.008	0.030000
320.182	16.896	0.030000
324.369	16.963	0.030000
328.556	16.881	0.030000
332.744	16.990	0.030000
336.931	17.131	0.030000
341.931	17.042	0.030000
346.931	16.814	0.030000
350.367	16.702	0.030000
353.803	16.676	0.030000
357.239	16.678	0.030000
360.675	16.683	0.030000
364.111	16.688	0.030000
367.547	16.693	0.030000
372.547	16.685	0.030000
377.547	16.704	0.030000
382.547	16.705	0.030000
387.253	16.738	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

391.960	16.736	0.030000
396.667	16.750	0.030000
401.374	16.891	0.030000
406.080	17.013	0.030000
410.787	16.976	0.030000
415.494	16.942	0.030000
420.201	16.910	0.030000
424.907	16.877	0.030000
429.614	16.843	0.030000
434.321	16.809	0.030000
438.808	16.763	0.030000
443.296	16.661	0.030000
447.327	16.641	0.030000
451.358	16.622	0.030000
455.390	16.686	0.030000
459.421	16.701	0.030000
463.452	16.707	0.030000
468.054	16.704	0.030000
472.656	16.702	0.030000
477.259	16.701	0.030000
481.861	16.702	0.030000
486.463	16.704	0.030000
491.065	16.709	0.030000
495.924	16.720	0.030000
500.784	16.678	0.030000
505.643	16.709	0.030000
510.643	16.762	0.030000
515.643	16.745	0.030000
520.643	16.721	0.030000
525.643	16.696	0.030000
530.643	16.672	0.030000
535.018	16.651	0.030000
539.393	16.629	0.030000
543.768	16.608	0.030000
548.143	16.586	0.030000
552.693	16.583	0.030000
557.243	16.662	0.030000
561.793	16.755	0.030000
566.343	16.807	0.030000
570.070	16.781	0.030000
573.796	16.759	0.030000
577.523	16.793	0.030000
581.634	16.826	0.030000
585.744	16.878	0.030000
589.854	16.870	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

593.964	16.897	0.030000
598.439	16.823	0.030000
602.913	16.769	0.030000
607.387	16.734	0.030000
611.862	16.616	0.030000
616.430	16.592	0.030000
620.999	16.730	0.030000
625.567	16.765	0.030000
629.125	16.810	0.030000
632.682	16.828	0.030000
636.239	16.862	0.030000
640.138	16.924	0.030000
644.037	16.932	0.030000
647.936	16.890	0.030000
651.662	16.835	0.030000
655.389	16.809	0.030000
659.116	16.775	0.030000
662.552	16.741	0.030000
665.988	16.729	0.030000
669.424	16.705	0.030000
672.757	16.669	0.030000
676.090	16.631	0.030000
679.424	16.618	0.030000
683.455	16.599	0.030000
687.486	16.590	0.030000
691.517	16.616	0.030000
695.548	16.643	0.030000
699.579	16.669	0.030000
702.913	16.683	0.030000
706.246	16.689	0.030000
709.579	16.683	0.030000
713.994	16.671	0.030000
718.408	16.679	0.030000
722.823	16.707	0.030000
727.237	16.722	0.030000
731.806	16.673	0.030000
736.375	16.620	0.030000
740.943	16.640	0.030000
745.512	16.711	0.030000
750.080	16.758	0.030000
754.649	16.784	0.030000
758.479	16.783	0.030000
762.309	16.788	0.030000
766.139	16.790	0.030000
769.970	16.790	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

773.527	16.797	0.030000
777.084	16.804	0.030000
780.641	16.813	0.030000
785.611	16.814	0.030000
790.580	16.813	0.030000
795.548	16.861	0.030000
799.896	16.928	0.030000
804.244	16.886	0.030000
808.592	16.855	0.030000
813.592	16.864	0.030000
818.592	16.873	0.030000
823.592	16.882	0.030000
827.715	16.910	0.030000
831.838	16.974	0.030000
835.962	17.167	0.030000
840.085	17.165	0.030000
844.208	17.143	0.030000
847.644	17.062	0.030000
851.080	17.015	0.030000
854.516	16.972	0.030000
857.849	17.023	0.030000
861.182	17.024	0.030000
864.516	17.102	0.030000
868.703	17.077	0.030000
872.890	16.958	0.030000
877.078	16.974	0.030000
881.265	16.980	0.030000
885.453	16.987	0.030000
889.640	16.994	0.030000
893.176	16.985	0.030000
896.711	16.976	0.030000
900.247	16.967	0.030000
905.012	16.965	0.030000
909.777	16.969	0.030000
914.542	16.910	0.030000
919.306	16.943	0.030000
924.071	16.979	0.030000
928.836	17.002	0.030000
933.601	17.034	0.030000
938.299	17.070	0.030000
942.997	17.105	0.030000
947.695	17.138	0.030000
952.393	17.166	0.030000
957.091	17.189	0.030000
961.788	17.187	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

966.486	17.030	0.030000
971.184	16.981	0.030000
975.787	16.980	0.030000
980.389	16.980	0.030000
984.991	16.979	0.030000
989.593	16.978	0.030000
994.195	16.972	0.030000
998.798	16.959	0.030000
1003.798	16.946	0.030000
1008.798	16.933	0.030000
1011.298	16.926	0.030000
1013.798	16.852	0.030000
1018.798	16.959	0.030000
1023.146	17.091	0.030000
1027.494	17.140	0.030000
1031.841	17.186	0.030000
1036.348	17.217	0.030000
1040.855	17.286	0.030000
1045.362	17.299	0.030000
1049.869	17.381	0.030000
1054.450	17.264	0.030000
1059.032	17.082	0.030000
1063.613	16.970	0.030000
1068.113	16.931	0.030000
1072.613	16.897	0.030000
1077.113	16.886	0.030000
1081.613	16.927	0.030000
1086.113	16.911	0.030000
1090.613	16.901	0.030000
1095.113	16.890	0.030000
1099.613	16.880	0.030000
1104.113	16.870	0.030000
1108.613	16.859	0.030000
1113.613	16.859	0.030000
1118.613	16.868	0.030000
1123.613	16.864	0.030000
1128.613	16.840	0.030000
1132.363	16.854	0.030000
1136.113	16.848	0.030000
1139.863	16.842	0.030000
1143.613	16.833	0.030000
1147.800	16.844	0.030000
1151.988	16.822	0.030000
1156.175	16.656	0.030000
1160.363	16.852	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1164.550	17.045	0.030000
1168.738	17.092	0.030000
1173.664	17.121	0.030000
1178.591	17.134	0.030000
1183.518	17.131	0.030000
1188.445	17.124	0.030000
1193.371	17.102	0.030000
1198.298	17.073	0.030000
1203.225	17.057	0.030000
1208.152	17.057	0.030000
1212.324	17.078	0.030000
1216.495	17.069	0.030000
1220.667	17.068	0.030000
1224.839	17.214	0.030000
1229.839	17.349	0.030000
1234.839	17.503	0.030000
1237.339	17.682	0.030000
1239.839	17.708	0.030000
1243.275	17.730	0.030000
1246.711	17.663	0.030000
1250.147	17.617	0.030000

Name: XD0110C                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.190	0.030000
4.603	15.237	0.030000
9.205	15.475	0.030000
13.808	15.676	0.030000
18.411	15.934	0.030000
23.013	16.197	0.030000
27.616	16.348	0.030000
32.219	16.377	0.030000
37.210	16.447	0.030000
42.202	16.502	0.030000
47.194	16.600	0.030000
52.185	16.678	0.030000
57.177	16.543	0.030000
62.169	16.414	0.030000
67.160	16.390	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

72.152	16.365	0.030000
77.144	16.341	0.030000
82.135	16.317	0.030000
87.127	16.292	0.030000
92.119	16.267	0.030000
97.111	16.241	0.030000
102.102	16.288	0.030000
107.094	16.486	0.030000
112.086	16.581	0.030000
117.077	16.439	0.030000
122.069	16.356	0.030000
127.061	16.353	0.030000
132.052	16.366	0.030000
137.044	16.389	0.030000
142.036	16.400	0.030000
147.027	16.515	0.030000
152.019	16.619	0.030000
157.011	16.488	0.030000
162.003	16.394	0.030000
166.994	16.256	0.030000
171.986	16.193	0.030000
176.977	16.181	0.030000
181.969	16.165	0.030000
186.961	16.153	0.030000
191.953	16.155	0.030000
196.944	16.176	0.030000
201.936	16.218	0.030000
206.928	16.170	0.030000
211.919	15.975	0.030000
216.911	15.927	0.030000
221.903	15.897	0.030000
226.894	15.905	0.030000
231.886	15.936	0.030000
236.878	15.985	0.030000
241.869	16.097	0.030000
246.861	16.190	0.030000
251.853	16.220	0.030000
256.844	16.367	0.030000
261.836	16.343	0.030000
266.828	16.285	0.030000
271.820	16.219	0.030000
276.811	16.168	0.030000
281.803	16.098	0.030000
286.795	15.996	0.030000
291.786	15.881	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

296.778	15.884	0.030000
301.770	16.078	0.030000
306.761	16.199	0.030000
311.753	16.238	0.030000
316.745	16.168	0.030000
321.736	16.110	0.030000
326.728	16.087	0.030000
331.720	16.003	0.030000
336.711	15.925	0.030000
341.703	15.859	0.030000
346.695	15.779	0.030000
351.687	15.686	0.030000
356.678	15.626	0.030000
361.670	15.674	0.030000
366.661	15.799	0.030000
371.653	15.918	0.030000
376.645	15.993	0.030000
381.637	15.998	0.030000
386.628	15.995	0.030000
391.620	15.968	0.030000
396.612	15.848	0.030000
401.603	15.665	0.030000
406.595	15.625	0.030000
411.587	15.728	0.030000
416.578	15.793	0.030000
421.570	15.811	0.030000
426.562	15.845	0.030000
431.553	15.872	0.030000
436.545	15.920	0.030000
441.537	15.981	0.030000
446.529	16.059	0.030000
451.520	16.102	0.030000
456.512	16.158	0.030000
461.503	16.139	0.030000
466.495	16.090	0.030000
471.487	16.025	0.030000
476.479	15.962	0.030000
481.470	15.898	0.030000
486.462	15.834	0.030000
491.454	15.760	0.030000
496.445	15.689	0.030000
501.390	15.637	0.030000
506.336	15.551	0.030000
511.281	15.645	0.030000
516.226	15.809	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

521.171	15.760	0.030000
526.116	15.766	0.030000
531.061	15.764	0.030000
536.006	15.770	0.030000
540.951	15.794	0.030000
545.896	15.838	0.030000
550.841	15.839	0.030000
555.787	15.764	0.030000
560.732	15.791	0.030000
565.677	15.869	0.030000
570.622	15.897	0.030000
575.567	15.917	0.030000
580.512	15.933	0.030000
585.457	15.893	0.030000
590.402	15.827	0.030000
595.347	15.945	0.030000
600.293	16.061	0.030000
605.238	16.111	0.030000
610.183	16.012	0.030000
615.128	15.819	0.030000
620.073	15.674	0.030000
625.018	15.694	0.030000
629.963	15.686	0.030000
634.908	15.677	0.030000
639.853	15.684	0.030000
644.798	15.713	0.030000
649.744	15.616	0.030000
654.689	15.590	0.030000
659.634	15.749	0.030000
664.579	15.864	0.030000
669.524	15.879	0.030000
674.469	15.879	0.030000
679.414	15.880	0.030000
684.359	15.882	0.030000
689.304	15.880	0.030000
694.249	15.871	0.030000
699.194	15.813	0.030000
704.140	15.832	0.030000
709.085	15.761	0.030000
714.030	15.758	0.030000
718.975	15.805	0.030000
723.920	15.821	0.030000
728.865	15.794	0.030000
733.810	15.756	0.030000
738.755	15.725	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

743.700	15.679	0.030000
748.645	15.629	0.030000
753.591	15.579	0.030000
758.536	15.538	0.030000
763.481	15.592	0.030000
768.426	15.628	0.030000
773.371	15.541	0.030000
778.316	15.419	0.030000
783.261	15.462	0.030000
788.206	15.482	0.030000
793.151	15.434	0.030000
798.096	15.410	0.030000
803.042	15.351	0.030000
807.987	15.297	0.030000
812.932	15.287	0.030000
817.877	15.307	0.030000
822.822	15.389	0.030000
827.767	15.424	0.030000
832.712	15.413	0.030000
837.657	15.400	0.030000
842.602	15.322	0.030000
847.548	15.218	0.030000
852.493	15.220	0.030000
857.438	15.338	0.030000
862.383	15.457	0.030000
867.328	15.531	0.030000
872.273	15.517	0.030000
877.218	15.511	0.030000
882.163	15.549	0.030000
887.108	15.512	0.030000
892.053	15.435	0.030000
896.999	15.519	0.030000
901.944	15.746	0.030000
906.889	15.950	0.030000
911.834	16.028	0.030000
916.779	16.105	0.030000
921.724	16.142	0.030000
926.669	16.057	0.030000
931.667	15.916	0.030000
936.665	15.721	0.030000
941.663	15.582	0.030000
946.661	15.612	0.030000
951.658	15.700	0.030000
956.656	15.736	0.030000
961.654	15.779	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

966.652	15.784	0.030000
971.650	15.774	0.030000
976.648	15.773	0.030000
981.646	15.726	0.030000
986.643	15.608	0.030000
991.641	15.488	0.030000
996.639	15.461	0.030000
1001.637	15.609	0.030000
1006.635	15.501	0.030000
1011.633	15.432	0.030000
1016.631	15.383	0.030000
1021.629	15.389	0.030000
1026.626	15.494	0.030000
1031.624	15.573	0.030000
1036.622	15.563	0.030000
1041.620	15.351	0.030000
1046.618	15.312	0.030000
1051.616	15.397	0.030000
1056.613	15.661	0.030000
1061.611	15.735	0.030000
1066.609	15.619	0.030000
1071.607	15.660	0.030000
1076.605	15.641	0.030000
1081.603	15.586	0.030000
1086.601	15.691	0.030000
1091.599	15.790	0.030000
1096.596	15.794	0.030000
1101.594	15.794	0.030000
1106.592	15.807	0.030000
1111.590	15.727	0.030000
1116.588	15.685	0.030000
1121.586	15.555	0.030000
1126.584	15.373	0.030000
1131.581	15.543	0.030000
1136.579	15.490	0.030000
1141.577	15.439	0.030000
1146.575	15.564	0.030000
1151.573	15.722	0.030000
1156.571	15.907	0.030000
1161.569	15.951	0.030000
1166.566	15.848	0.030000
1171.564	15.525	0.030000
1176.562	15.305	0.030000
1181.560	15.138	0.030000
1186.558	15.193	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1191.556	15.255	0.030000
1196.554	15.178	0.030000
1201.551	15.300	0.030000
1206.549	15.495	0.030000
1211.547	15.521	0.030000
1216.545	15.674	0.030000
1221.543	15.793	0.030000
1226.541	15.640	0.030000
1231.539	15.436	0.030000
1236.536	15.697	0.030000
1241.534	15.907	0.030000
1246.532	15.987	0.030000
1251.530	15.978	0.030000
1256.528	15.863	0.030000
1261.526	15.682	0.030000
1266.524	15.609	0.030000
1271.521	15.516	0.030000
1276.519	15.473	0.030000
1281.517	15.773	0.030000
1286.515	16.012	0.030000
1291.513	16.100	0.030000
1296.511	16.181	0.030000
1301.508	16.148	0.030000
1306.506	16.081	0.030000
1311.504	16.006	0.030000
1316.502	15.937	0.030000
1321.500	15.919	0.030000
1326.498	15.987	0.030000
1331.496	16.038	0.030000
1336.494	16.092	0.030000
1341.491	16.135	0.030000
1346.489	16.108	0.030000
1351.487	16.080	0.030000
1356.485	16.019	0.030000
1361.483	15.944	0.030000
1366.481	15.864	0.030000
1371.478	15.723	0.030000
1376.476	15.552	0.030000
1381.474	15.533	0.030000
1386.472	15.404	0.030000
1391.470	15.325	0.030000
1396.468	15.162	0.030000
1401.466	15.133	0.030000
1406.464	15.126	0.030000
1411.461	15.412	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

-----  
Name: XD0110D                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N  
-----

0.000	16.944	0.030000
4.765	16.892	0.030000
9.530	16.644	0.030000
14.295	16.494	0.030000
19.060	16.427	0.030000
23.825	16.374	0.030000
28.589	16.246	0.030000
33.354	16.303	0.030000
38.119	16.271	0.030000
42.884	16.252	0.030000
47.649	16.263	0.030000
52.414	16.305	0.030000
57.179	16.404	0.030000
61.944	16.521	0.030000
66.709	16.545	0.030000
71.474	16.408	0.030000
76.239	16.358	0.030000
81.200	16.339	0.030000
86.162	16.338	0.030000
91.124	16.497	0.030000
96.086	16.628	0.030000
101.048	16.557	0.030000
106.010	16.490	0.030000
110.972	16.527	0.030000
115.934	16.518	0.030000
120.896	16.505	0.030000
125.857	16.486	0.030000
130.819	16.396	0.030000
135.781	16.672	0.030000
140.743	16.899	0.030000
145.705	16.931	0.030000
150.667	16.924	0.030000
155.629	16.930	0.030000
160.591	16.986	0.030000
165.553	17.012	0.030000
170.515	16.975	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

175.476	16.924	0.030000
180.438	16.825	0.030000
185.400	16.731	0.030000
190.362	16.674	0.030000
195.324	16.410	0.030000
200.286	16.220	0.030000
205.248	16.233	0.030000
210.210	16.192	0.030000
215.172	16.157	0.030000
220.134	16.103	0.030000
225.095	16.116	0.030000
230.057	16.308	0.030000
235.019	16.390	0.030000
239.981	16.273	0.030000
244.943	16.229	0.030000
249.905	16.107	0.030000
254.867	15.810	0.030000
259.829	15.859	0.030000
264.791	16.024	0.030000
269.753	15.905	0.030000
274.714	15.806	0.030000
279.676	15.840	0.030000
284.638	15.850	0.030000
289.600	15.878	0.030000
294.562	15.878	0.030000
299.524	15.917	0.030000
304.486	15.979	0.030000
309.448	15.971	0.030000
314.409	15.852	0.030000
319.371	15.796	0.030000
324.333	15.889	0.030000
329.295	16.105	0.030000
334.257	16.263	0.030000
339.219	16.204	0.030000
344.181	16.259	0.030000
349.143	16.417	0.030000
354.105	16.597	0.030000
359.067	16.811	0.030000
364.029	16.968	0.030000
368.990	16.894	0.030000
373.952	16.727	0.030000
378.914	16.440	0.030000
383.876	16.252	0.030000
388.838	16.235	0.030000
393.800	16.245	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

398.762	16.281	0.030000
403.724	16.431	0.030000
408.686	16.328	0.030000
413.647	16.236	0.030000
418.609	16.201	0.030000
423.571	16.284	0.030000
428.533	16.311	0.030000
433.495	16.216	0.030000
438.457	16.287	0.030000
443.419	16.249	0.030000
448.381	16.200	0.030000
453.343	16.122	0.030000
458.305	16.104	0.030000
463.266	16.335	0.030000
468.228	16.610	0.030000
473.190	16.672	0.030000
477.658	16.609	0.030000
482.126	16.532	0.030000
486.594	16.476	0.030000
491.062	16.379	0.030000
495.529	16.273	0.030000
499.997	16.323	0.030000
504.465	16.438	0.030000
509.222	16.447	0.030000
513.978	16.318	0.030000
518.735	16.084	0.030000
523.491	16.041	0.030000
528.248	16.232	0.030000
533.008	16.210	0.030000
537.768	16.156	0.030000
542.528	16.118	0.030000
547.288	16.090	0.030000
552.288	16.118	0.030000
557.288	15.973	0.030000
561.890	15.731	0.030000
566.492	15.671	0.030000
571.094	15.748	0.030000
575.696	15.771	0.030000
580.299	15.912	0.030000
584.901	15.999	0.030000
589.451	16.091	0.030000
594.001	16.024	0.030000
598.551	16.122	0.030000
603.101	15.982	0.030000
607.146	15.886	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

611.190	15.907	0.030000
615.235	15.944	0.030000
619.876	16.026	0.030000
624.517	16.105	0.030000
629.158	16.128	0.030000
633.799	16.182	0.030000
638.440	16.295	0.030000
643.081	16.404	0.030000
647.721	16.512	0.030000
652.362	16.605	0.030000
657.362	16.655	0.030000
662.362	16.617	0.030000
665.696	16.562	0.030000
669.029	16.541	0.030000
672.362	16.524	0.030000
676.089	16.520	0.030000
679.816	16.512	0.030000
683.543	16.504	0.030000
688.234	16.477	0.030000
692.925	16.463	0.030000
697.617	16.481	0.030000
702.308	16.497	0.030000
706.999	16.451	0.030000
711.691	16.413	0.030000
716.382	16.397	0.030000
721.313	16.363	0.030000
726.244	16.274	0.030000
731.176	16.035	0.030000
736.107	15.706	0.030000
741.038	15.458	0.030000
745.969	15.109	0.030000
750.901	15.003	0.030000
755.832	14.998	0.030000
760.763	14.963	0.030000
765.694	14.857	0.030000
770.626	15.057	0.030000
775.557	15.301	0.030000
780.488	15.298	0.030000
785.419	15.262	0.030000
790.351	15.352	0.030000
795.282	15.524	0.030000
800.213	15.684	0.030000
805.144	15.697	0.030000
810.076	15.590	0.030000
815.007	15.569	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

819.938	15.547	0.030000
824.870	15.434	0.030000
829.801	15.350	0.030000
834.732	15.405	0.030000
839.663	15.372	0.030000
844.595	15.172	0.030000
849.526	15.167	0.030000
854.457	15.190	0.030000

Name: XD0120B                      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.163	0.030000
4.301	16.163	0.030000
8.601	16.350	0.030000
12.902	16.314	0.030000
17.202	16.311	0.030000
21.503	16.316	0.030000
25.803	16.344	0.030000
30.104	16.374	0.030000
35.104	16.351	0.030000
40.104	16.231	0.030000
45.104	16.044	0.030000
47.604	15.955	0.030000
50.104	15.941	0.030000
55.104	16.025	0.030000
60.104	16.128	0.030000
62.604	16.131	0.030000
65.104	16.128	0.030000
70.104	16.122	0.030000
72.604	16.119	0.030000
75.104	16.116	0.030000
80.104	16.110	0.030000
82.604	16.107	0.030000
85.104	16.104	0.030000
90.104	16.076	0.030000
95.104	16.057	0.030000
100.104	16.008	0.030000
105.104	15.997	0.030000
107.604	16.038	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

110.104	15.939	0.030000
115.104	15.950	0.030000
120.104	16.064	0.030000
125.104	16.077	0.030000
127.604	16.088	0.030000
130.104	16.076	0.030000
134.611	15.956	0.030000
139.118	15.815	0.030000
143.668	15.880	0.030000
148.218	16.021	0.030000
152.768	16.182	0.030000
157.318	16.263	0.030000
162.200	16.284	0.030000
167.081	16.373	0.030000
171.962	16.350	0.030000
176.844	16.223	0.030000
181.725	16.220	0.030000
186.607	16.224	0.030000
191.488	16.250	0.030000
196.369	16.494	0.030000
201.251	16.562	0.030000
206.132	16.600	0.030000
211.014	16.627	0.030000
215.895	16.624	0.030000
220.776	16.632	0.030000
225.658	16.581	0.030000
230.539	16.583	0.030000
235.421	16.611	0.030000
240.302	16.647	0.030000
245.183	16.637	0.030000
250.065	16.598	0.030000
254.946	16.587	0.030000
259.723	16.529	0.030000
264.499	16.482	0.030000
269.275	16.397	0.030000
274.051	16.288	0.030000
278.827	16.279	0.030000
283.604	16.358	0.030000
288.380	16.233	0.030000
293.156	16.152	0.030000
297.932	16.141	0.030000
302.709	16.135	0.030000
306.832	16.095	0.030000
310.955	16.034	0.030000
315.078	16.030	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

319.201	16.033	0.030000
323.324	16.017	0.030000
327.753	15.987	0.030000
332.183	16.005	0.030000
336.612	15.998	0.030000
341.041	15.945	0.030000
345.171	15.867	0.030000
349.300	15.878	0.030000
353.430	15.874	0.030000
357.777	15.850	0.030000
362.125	15.820	0.030000
366.473	15.791	0.030000
369.909	15.759	0.030000
373.345	15.685	0.030000
376.781	15.674	0.030000
381.038	15.643	0.030000
385.296	15.567	0.030000
389.553	15.696	0.030000
393.810	15.772	0.030000
398.068	15.882	0.030000
402.498	15.782	0.030000
406.928	15.743	0.030000
411.358	15.781	0.030000
415.788	16.127	0.030000
420.218	16.378	0.030000
424.969	16.345	0.030000
429.719	16.359	0.030000
434.470	16.370	0.030000
439.221	16.305	0.030000
443.971	16.420	0.030000
448.722	16.512	0.030000
452.983	16.329	0.030000
457.243	16.262	0.030000
461.504	16.293	0.030000
465.764	16.375	0.030000
470.025	16.448	0.030000
474.285	16.512	0.030000
478.633	16.593	0.030000
482.981	16.643	0.030000
487.329	16.667	0.030000
492.180	16.669	0.030000
497.031	16.701	0.030000
501.883	16.709	0.030000
506.466	16.676	0.030000
511.049	16.655	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

515.633	16.634	0.030000
520.216	16.609	0.030000
524.260	16.613	0.030000
528.305	16.612	0.030000
532.349	16.612	0.030000
535.785	16.597	0.030000
539.221	16.583	0.030000
542.657	16.569	0.030000
547.657	16.561	0.030000
552.657	16.593	0.030000
557.657	16.692	0.030000
562.657	16.793	0.030000
566.721	16.813	0.030000
570.784	16.809	0.030000
574.847	16.798	0.030000

Name: XD0120C                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.617	0.030000
4.665	17.579	0.030000
9.329	17.491	0.030000
13.994	17.424	0.030000
18.659	17.377	0.030000
23.323	17.330	0.030000
27.988	17.284	0.030000
32.652	17.238	0.030000
37.317	17.189	0.030000
41.982	17.138	0.030000
46.646	17.085	0.030000
51.311	17.132	0.030000
55.894	17.252	0.030000
60.478	17.258	0.030000
65.061	17.222	0.030000
69.092	17.193	0.030000
73.123	17.161	0.030000
77.154	17.115	0.030000
81.186	17.068	0.030000
85.217	17.021	0.030000
88.550	16.927	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

91.883	16.833	0.030000
95.217	16.824	0.030000
99.404	16.772	0.030000
103.592	16.714	0.030000
107.779	16.651	0.030000
111.966	16.531	0.030000
116.154	16.421	0.030000
120.341	16.408	0.030000
125.072	16.436	0.030000
129.802	16.450	0.030000
134.532	16.465	0.030000
139.263	16.479	0.030000
143.993	16.498	0.030000
148.724	16.519	0.030000
153.454	16.541	0.030000
158.184	16.567	0.030000
162.915	16.619	0.030000
167.725	16.648	0.030000
172.534	16.755	0.030000
177.344	16.800	0.030000
182.154	16.773	0.030000
186.283	16.773	0.030000
190.413	16.772	0.030000
194.542	16.771	0.030000
199.030	16.735	0.030000
203.517	16.698	0.030000
208.005	16.689	0.030000
212.458	16.662	0.030000
216.911	16.633	0.030000
221.364	16.603	0.030000
225.818	16.564	0.030000
230.271	16.432	0.030000
234.724	16.595	0.030000
239.177	16.641	0.030000
243.630	16.656	0.030000
248.083	16.670	0.030000
252.590	16.681	0.030000
257.097	16.691	0.030000
261.951	16.705	0.030000
266.805	16.719	0.030000
271.659	16.734	0.030000
276.513	16.744	0.030000
281.368	16.676	0.030000
286.026	16.742	0.030000
290.685	16.783	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

295.343	16.771	0.030000
300.343	16.822	0.030000
305.343	16.871	0.030000
310.343	16.848	0.030000
315.343	16.824	0.030000
320.343	16.801	0.030000
325.343	16.795	0.030000
330.343	16.739	0.030000
334.145	16.718	0.030000
337.946	16.697	0.030000
341.748	16.677	0.030000
345.550	16.656	0.030000
349.277	16.665	0.030000
353.003	16.724	0.030000
356.730	16.818	0.030000
361.016	16.916	0.030000
365.302	16.988	0.030000
369.587	17.060	0.030000
373.873	17.132	0.030000
378.159	17.204	0.030000
382.445	17.276	0.030000
386.730	17.347	0.030000
391.730	17.431	0.030000
396.730	17.395	0.030000
401.730	17.039	0.030000
406.730	16.857	0.030000
411.730	16.929	0.030000
416.730	16.882	0.030000
421.730	16.835	0.030000
426.730	16.788	0.030000
430.457	16.742	0.030000
434.184	16.709	0.030000
437.911	16.691	0.030000
442.911	16.675	0.030000
447.911	16.660	0.030000
452.211	16.698	0.030000
456.512	16.796	0.030000
460.812	16.814	0.030000
465.113	16.793	0.030000
469.413	16.770	0.030000
473.714	16.744	0.030000
478.015	16.718	0.030000
481.816	16.708	0.030000
485.618	16.675	0.030000
489.420	16.574	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

493.221	16.605	0.030000
498.085	16.700	0.030000
502.949	16.752	0.030000
507.812	16.798	0.030000

-----

Name: XD0130A	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	15.244	0.030000
4.751	15.204	0.030000
9.503	15.350	0.030000
14.254	15.299	0.030000
18.858	14.940	0.030000
23.462	14.504	0.030000
28.066	14.399	0.030000
33.041	14.108	0.030000
38.017	13.870	0.030000
42.993	13.769	0.030000
47.968	13.645	0.030000
52.944	13.474	0.030000
57.920	13.455	0.030000
62.895	13.581	0.030000
67.871	13.709	0.030000
72.847	13.718	0.030000
77.822	13.710	0.030000
82.798	13.772	0.030000
87.774	13.845	0.030000
92.749	13.795	0.030000
97.725	13.879	0.030000
102.701	14.008	0.030000
107.676	14.054	0.030000
112.652	14.030	0.030000
117.628	13.874	0.030000
122.603	13.919	0.030000
127.579	14.108	0.030000
132.554	14.210	0.030000
137.530	14.266	0.030000
142.506	14.300	0.030000
147.482	14.184	0.030000
152.457	13.767	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

157.433	13.582	0.030000
162.408	13.815	0.030000
167.384	13.771	0.030000
172.360	13.741	0.030000
177.335	13.690	0.030000
182.311	13.757	0.030000
187.287	13.851	0.030000
192.262	13.738	0.030000
197.238	13.477	0.030000
202.214	13.290	0.030000
207.189	13.168	0.030000
212.165	13.025	0.030000
217.141	13.070	0.030000
222.116	13.173	0.030000
227.092	13.262	0.030000
232.068	13.452	0.030000
237.043	13.639	0.030000
242.019	13.571	0.030000
246.994	13.385	0.030000
251.970	13.340	0.030000
256.946	13.404	0.030000
261.921	13.424	0.030000
266.897	13.576	0.030000
271.873	13.719	0.030000
276.848	13.808	0.030000
281.824	13.932	0.030000
286.800	13.944	0.030000
291.775	13.905	0.030000
296.751	13.917	0.030000
301.727	13.936	0.030000
306.702	13.944	0.030000
311.678	13.895	0.030000
316.654	13.851	0.030000
321.629	13.735	0.030000
326.605	13.556	0.030000
331.580	13.763	0.030000
336.556	14.150	0.030000
341.532	14.402	0.030000
346.507	14.511	0.030000
351.483	14.441	0.030000
356.459	14.341	0.030000
361.434	14.242	0.030000
366.410	14.122	0.030000
371.386	13.877	0.030000
376.361	13.535	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

381.337	13.370	0.030000
386.313	13.588	0.030000
391.288	13.778	0.030000
396.264	13.642	0.030000
400.938	13.767	0.030000
405.613	14.035	0.030000
410.287	13.778	0.030000
414.961	13.573	0.030000
419.530	13.513	0.030000
424.099	13.430	0.030000
428.668	13.628	0.030000
432.964	14.115	0.030000
437.260	14.549	0.030000
441.557	14.665	0.030000
445.853	14.564	0.030000
450.799	14.745	0.030000
455.744	14.816	0.030000
460.689	14.574	0.030000
465.634	14.525	0.030000
470.580	14.518	0.030000
475.525	14.663	0.030000
480.470	14.641	0.030000
485.415	14.629	0.030000
490.360	14.769	0.030000
495.306	14.779	0.030000
500.251	14.778	0.030000
505.196	14.867	0.030000
510.141	14.914	0.030000
515.087	14.913	0.030000
520.032	14.911	0.030000
524.977	14.924	0.030000
529.922	14.961	0.030000
534.867	15.003	0.030000
539.813	14.953	0.030000
544.758	14.945	0.030000
549.703	14.738	0.030000
554.648	14.638	0.030000
559.594	14.587	0.030000
564.539	14.428	0.030000
569.484	14.256	0.030000
574.429	13.976	0.030000
579.375	13.698	0.030000
584.320	13.567	0.030000
589.265	13.438	0.030000
594.210	13.534	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

599.155	13.665	0.030000
604.101	13.894	0.030000
609.046	14.122	0.030000
613.991	14.295	0.030000
618.936	14.393	0.030000
623.881	14.406	0.030000
628.827	14.441	0.030000
633.772	14.475	0.030000
638.717	14.502	0.030000
643.662	14.533	0.030000
648.608	14.634	0.030000
653.553	14.853	0.030000
658.498	15.133	0.030000
663.443	15.396	0.030000
668.389	15.500	0.030000

Name: XD0130B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.979	0.030000
4.793	15.959	0.030000
9.586	15.759	0.030000
14.378	15.503	0.030000
19.171	15.346	0.030000
23.964	15.375	0.030000
28.757	15.204	0.030000
33.550	15.162	0.030000
38.342	15.101	0.030000
43.135	15.164	0.030000
47.928	15.556	0.030000
52.721	15.809	0.030000
57.514	15.886	0.030000
62.306	15.897	0.030000
67.099	15.773	0.030000
71.892	15.435	0.030000
76.685	15.165	0.030000
81.478	15.076	0.030000
86.270	15.081	0.030000
91.063	15.177	0.030000
95.856	15.096	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

100.649	15.074	0.030000
105.442	15.292	0.030000
110.234	15.540	0.030000
115.027	15.777	0.030000
118.754	15.837	0.030000
122.481	15.842	0.030000
126.208	15.589	0.030000
130.895	15.309	0.030000
135.583	15.002	0.030000
140.270	14.818	0.030000
144.958	14.870	0.030000
149.645	14.880	0.030000
154.333	14.920	0.030000
159.020	14.845	0.030000
163.708	14.749	0.030000
168.395	14.935	0.030000
173.083	15.107	0.030000
177.770	14.972	0.030000
182.458	14.923	0.030000
187.145	14.937	0.030000
191.833	15.086	0.030000
196.520	15.298	0.030000
201.208	15.581	0.030000
204.541	15.746	0.030000
207.874	15.671	0.030000
211.208	15.676	0.030000
215.687	15.458	0.030000
220.166	15.196	0.030000
224.645	15.204	0.030000
229.124	15.203	0.030000
233.603	15.187	0.030000
238.082	15.260	0.030000
242.561	15.220	0.030000
247.040	15.216	0.030000
251.519	15.253	0.030000
254.955	15.257	0.030000
258.391	15.257	0.030000
261.827	15.206	0.030000
266.733	15.269	0.030000
271.638	15.342	0.030000
276.544	15.339	0.030000
281.450	15.255	0.030000
286.356	15.144	0.030000
291.262	15.073	0.030000
296.168	15.059	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

301.074	14.986	0.030000
305.979	14.969	0.030000
310.885	14.924	0.030000
315.791	14.844	0.030000
320.697	14.832	0.030000
325.603	14.836	0.030000
330.509	14.800	0.030000
335.415	14.861	0.030000
340.321	14.891	0.030000
345.227	14.981	0.030000
350.132	14.951	0.030000
355.038	14.906	0.030000
359.944	14.856	0.030000
364.850	14.772	0.030000
369.756	14.832	0.030000
374.662	14.720	0.030000
379.568	14.618	0.030000
384.474	14.609	0.030000
389.380	14.594	0.030000
394.286	14.770	0.030000
399.191	14.824	0.030000
404.097	14.556	0.030000
409.003	14.719	0.030000
413.909	14.703	0.030000
418.815	14.825	0.030000
423.721	14.715	0.030000
428.627	14.715	0.030000
433.533	14.737	0.030000
438.438	14.828	0.030000
443.344	14.743	0.030000
448.250	14.653	0.030000
453.156	14.752	0.030000
458.062	14.845	0.030000
462.968	14.863	0.030000
467.874	14.795	0.030000
472.780	14.815	0.030000
477.686	14.949	0.030000
482.592	15.168	0.030000
487.497	15.406	0.030000
492.403	15.586	0.030000
497.309	15.604	0.030000
502.215	15.714	0.030000
507.121	15.790	0.030000
512.027	15.719	0.030000
516.933	15.727	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

521.839	15.898	0.030000
526.777	16.186	0.030000
531.716	16.462	0.030000
536.655	16.548	0.030000
541.593	16.457	0.030000
546.532	16.398	0.030000
551.471	16.448	0.030000
556.409	16.454	0.030000
561.348	16.322	0.030000
566.287	16.122	0.030000
571.225	15.951	0.030000
576.164	15.807	0.030000
581.102	15.573	0.030000
586.041	15.339	0.030000
590.980	15.253	0.030000
595.918	15.330	0.030000
600.857	15.485	0.030000
605.796	15.436	0.030000
610.734	15.414	0.030000
615.673	15.511	0.030000
620.612	15.665	0.030000
625.550	15.633	0.030000
630.489	15.521	0.030000
635.428	15.587	0.030000
640.366	15.481	0.030000
645.305	15.839	0.030000
650.244	16.164	0.030000
655.182	16.322	0.030000
660.121	16.569	0.030000
665.060	16.628	0.030000
669.998	16.588	0.030000
674.937	16.506	0.030000
679.876	16.420	0.030000
684.814	16.358	0.030000
689.753	16.653	0.030000
694.692	16.706	0.030000
699.630	16.660	0.030000
704.569	16.584	0.030000
709.508	16.488	0.030000
714.446	16.356	0.030000
719.385	16.318	0.030000
724.323	16.112	0.030000
729.262	16.407	0.030000
734.201	16.495	0.030000
739.140	16.578	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

744.078	16.461	0.030000
749.017	16.106	0.030000
753.956	16.052	0.030000
758.894	15.689	0.030000
763.833	15.288	0.030000
768.771	15.253	0.030000
773.710	15.139	0.030000
778.649	15.088	0.030000
783.587	15.071	0.030000
788.526	15.071	0.030000
793.465	15.019	0.030000
798.403	14.910	0.030000
803.342	14.897	0.030000
808.281	14.826	0.030000
813.219	14.890	0.030000
818.158	14.985	0.030000
823.097	15.039	0.030000
828.035	15.006	0.030000
832.974	14.940	0.030000
837.913	14.863	0.030000
842.851	14.775	0.030000
847.790	14.806	0.030000
852.729	14.791	0.030000
857.667	14.714	0.030000
862.606	14.621	0.030000
867.545	14.674	0.030000
872.483	14.934	0.030000
877.422	14.932	0.030000
882.361	14.998	0.030000
887.299	15.041	0.030000
892.238	15.016	0.030000
897.177	15.292	0.030000
902.115	15.149	0.030000
907.054	14.834	0.030000
911.992	14.668	0.030000
916.931	14.539	0.030000
921.870	14.581	0.030000
926.256	14.600	0.030000
930.642	14.579	0.030000
935.028	14.720	0.030000
939.414	15.190	0.030000
943.801	15.347	0.030000
948.187	15.396	0.030000
952.573	15.351	0.030000
956.959	15.244	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

-----  
Name: XD0130D                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N  
-----

0.000	15.500	0.030000
4.980	15.367	0.030000
9.960	15.204	0.030000
14.940	15.071	0.030000
19.920	14.926	0.030000
24.899	14.774	0.030000
29.879	14.805	0.030000
34.859	14.856	0.030000
39.839	14.863	0.030000
44.819	14.872	0.030000
49.799	14.852	0.030000
54.779	14.963	0.030000
59.759	15.082	0.030000
64.739	15.095	0.030000
69.718	15.130	0.030000
74.698	15.112	0.030000
79.678	15.041	0.030000
84.658	15.018	0.030000
89.638	15.007	0.030000
94.618	14.874	0.030000
99.598	14.887	0.030000
104.578	14.980	0.030000
109.558	14.909	0.030000
114.537	14.827	0.030000
119.517	14.817	0.030000
124.497	14.823	0.030000
129.477	14.762	0.030000
134.457	14.837	0.030000
139.437	15.001	0.030000
144.417	14.935	0.030000
149.397	15.008	0.030000
154.376	15.060	0.030000
159.356	15.108	0.030000
164.336	15.009	0.030000
169.316	14.883	0.030000
174.296	15.010	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

179.276	15.098	0.030000
184.256	15.042	0.030000
189.236	14.861	0.030000
194.216	14.810	0.030000
199.196	14.909	0.030000
204.175	14.814	0.030000
209.155	14.858	0.030000
214.135	14.814	0.030000
219.115	14.833	0.030000
224.095	15.037	0.030000
229.075	15.142	0.030000
234.055	15.270	0.030000
239.035	15.439	0.030000
244.015	15.335	0.030000
248.994	15.008	0.030000
253.974	14.953	0.030000
258.954	14.835	0.030000
263.934	14.943	0.030000
268.914	15.008	0.030000
273.894	15.102	0.030000
278.874	15.067	0.030000
283.854	15.039	0.030000
288.834	15.087	0.030000
293.813	14.948	0.030000
298.793	14.997	0.030000
303.773	14.993	0.030000
308.753	14.985	0.030000
313.733	14.980	0.030000
318.713	15.004	0.030000
323.693	14.979	0.030000
328.673	14.982	0.030000
333.652	15.243	0.030000
338.632	15.231	0.030000
343.612	15.161	0.030000
348.592	15.159	0.030000
353.572	15.290	0.030000
358.552	15.324	0.030000
363.532	15.243	0.030000
368.512	15.360	0.030000
373.492	15.433	0.030000
378.471	15.374	0.030000
383.451	15.374	0.030000
388.431	15.209	0.030000
393.411	15.138	0.030000
398.391	15.123	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

403.371	15.175	0.030000
408.351	15.437	0.030000
413.331	15.461	0.030000
418.311	15.392	0.030000
423.291	15.363	0.030000
428.270	15.301	0.030000
433.250	15.208	0.030000
438.230	15.240	0.030000
443.210	15.259	0.030000
448.190	15.276	0.030000
453.170	15.245	0.030000
458.150	15.131	0.030000
463.130	15.275	0.030000
468.110	15.292	0.030000
473.089	15.279	0.030000
478.069	15.253	0.030000
483.049	15.261	0.030000
488.029	15.345	0.030000
493.009	15.264	0.030000
497.989	15.221	0.030000
502.969	15.301	0.030000
507.949	15.217	0.030000
512.928	15.189	0.030000
517.908	15.165	0.030000
522.888	15.056	0.030000
527.868	15.029	0.030000
532.848	14.931	0.030000
537.828	14.991	0.030000
542.808	15.008	0.030000
547.788	14.959	0.030000
552.768	14.883	0.030000
557.747	14.771	0.030000
562.727	14.823	0.030000
567.707	14.763	0.030000
572.687	14.843	0.030000
577.667	14.867	0.030000
582.647	14.798	0.030000
587.627	14.757	0.030000
592.607	14.723	0.030000
597.587	14.719	0.030000
602.567	14.759	0.030000
607.546	14.697	0.030000
612.526	14.715	0.030000
617.506	14.657	0.030000
622.486	14.722	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

627.466	14.972	0.030000
632.446	15.313	0.030000
637.426	15.403	0.030000
642.406	15.306	0.030000
647.385	15.202	0.030000
652.365	15.107	0.030000
657.345	15.014	0.030000
662.325	14.947	0.030000
667.305	14.941	0.030000
672.285	14.900	0.030000
677.265	14.988	0.030000
682.245	15.028	0.030000
687.225	14.991	0.030000
692.205	14.954	0.030000
697.184	14.896	0.030000
702.164	14.986	0.030000
707.144	15.136	0.030000
712.124	15.204	0.030000
717.104	15.234	0.030000
722.084	15.263	0.030000
727.064	15.293	0.030000
732.044	15.318	0.030000
737.024	15.332	0.030000
742.003	15.422	0.030000
746.983	15.562	0.030000
751.963	15.538	0.030000
756.943	15.447	0.030000
761.923	15.376	0.030000
766.863	15.275	0.030000
771.803	15.178	0.030000
776.743	15.042	0.030000
781.683	14.921	0.030000
786.623	14.917	0.030000
791.563	14.912	0.030000
796.503	14.861	0.030000
801.443	14.860	0.030000
806.383	14.836	0.030000
811.323	14.779	0.030000
816.263	14.775	0.030000
821.203	14.844	0.030000
826.143	14.941	0.030000
831.083	15.003	0.030000
836.023	15.010	0.030000
840.963	15.103	0.030000
845.903	15.127	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

850.843	15.092	0.030000
855.784	15.097	0.030000
860.723	15.088	0.030000
865.664	15.065	0.030000
870.604	15.055	0.030000
875.544	15.052	0.030000
880.484	15.219	0.030000
885.424	15.224	0.030000
890.364	15.209	0.030000
895.304	15.335	0.030000
900.244	15.398	0.030000
905.184	15.536	0.030000
910.124	15.642	0.030000
915.064	15.676	0.030000
920.004	15.697	0.030000
924.944	15.729	0.030000
929.884	15.759	0.030000
934.824	15.775	0.030000
939.764	15.796	0.030000
944.704	15.651	0.030000
949.644	15.384	0.030000
954.584	15.337	0.030000
959.524	15.243	0.030000
964.464	15.336	0.030000
969.404	15.202	0.030000
974.344	15.201	0.030000
979.284	15.155	0.030000
984.224	15.239	0.030000
989.164	15.265	0.030000
994.104	15.292	0.030000
999.044	15.290	0.030000
1003.985	15.275	0.030000
1008.925	15.367	0.030000
1013.865	15.550	0.030000
1018.805	15.555	0.030000
1023.745	15.433	0.030000
1028.685	15.414	0.030000
1033.625	15.327	0.030000
1038.565	15.367	0.030000
1043.505	15.313	0.030000
1048.445	15.358	0.030000
1053.385	15.394	0.030000
1058.325	15.383	0.030000
1063.265	15.445	0.030000
1068.205	15.535	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1073.145	15.509	0.030000
1078.085	15.395	0.030000
1083.025	15.452	0.030000
1087.965	15.547	0.030000
1092.905	15.455	0.030000
1097.845	15.374	0.030000
1102.749	15.337	0.030000
1107.653	15.233	0.030000
1112.557	15.143	0.030000
1117.461	15.237	0.030000
1122.366	15.202	0.030000
1127.270	15.129	0.030000
1132.174	15.166	0.030000
1137.078	15.299	0.030000
1141.982	15.318	0.030000
1146.886	15.321	0.030000
1151.790	15.386	0.030000
1156.694	15.354	0.030000
1161.598	15.416	0.030000
1166.502	15.500	0.030000
1171.406	15.438	0.030000
1176.311	15.452	0.030000
1181.215	15.475	0.030000
1186.119	15.506	0.030000
1191.023	15.566	0.030000
1195.927	15.531	0.030000
1200.831	15.509	0.030000
1205.735	15.450	0.030000
1210.639	15.297	0.030000
1215.543	15.269	0.030000
1220.447	15.285	0.030000
1225.352	15.331	0.030000
1230.256	15.318	0.030000
1235.160	15.306	0.030000
1240.064	15.286	0.030000
1244.968	15.167	0.030000
1249.872	15.172	0.030000
1254.776	15.182	0.030000
1259.680	15.218	0.030000
1264.584	15.170	0.030000
1269.488	15.202	0.030000
1274.392	15.172	0.030000
1279.296	15.386	0.030000
1284.201	15.411	0.030000
1289.105	15.321	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1294.009	15.276	0.030000
1298.913	15.317	0.030000
1303.817	15.361	0.030000
1308.721	15.507	0.030000
1313.625	15.254	0.030000
1318.529	15.254	0.030000
1323.292	15.282	0.030000
1328.054	15.245	0.030000
1332.816	15.230	0.030000
1337.579	15.233	0.030000
1342.341	15.269	0.030000
1347.104	15.359	0.030000
1351.866	15.337	0.030000
1356.628	15.318	0.030000
1361.391	15.417	0.030000
1366.153	15.350	0.030000
1370.916	15.215	0.030000
1375.678	15.394	0.030000
1380.440	15.479	0.030000
1385.203	15.470	0.030000
1389.965	15.618	0.030000
1394.728	15.884	0.030000
1399.490	16.150	0.030000
1404.252	16.119	0.030000
1409.015	16.047	0.030000

-----

Name: XD0140A	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	17.084	0.030000
4.045	16.842	0.030000
8.089	16.526	0.030000
12.134	16.614	0.030000
16.305	16.628	0.030000
20.477	16.576	0.030000
24.649	16.353	0.030000
28.821	16.218	0.030000
33.404	16.184	0.030000
37.988	16.220	0.030000
42.571	16.363	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

47.154	16.529	0.030000
51.738	16.595	0.030000
56.321	16.342	0.030000
59.654	16.407	0.030000
62.988	16.431	0.030000
66.321	16.415	0.030000
69.654	16.225	0.030000
72.988	16.136	0.030000
76.321	16.146	0.030000
79.654	16.068	0.030000
82.988	16.024	0.030000
86.321	16.013	0.030000
90.488	16.036	0.030000
94.654	15.987	0.030000
98.821	15.996	0.030000
103.821	16.013	0.030000
108.821	16.029	0.030000
113.519	16.174	0.030000
118.216	16.236	0.030000
122.913	16.095	0.030000
127.611	16.146	0.030000
132.308	16.137	0.030000
137.006	16.076	0.030000
141.703	16.192	0.030000
145.037	16.171	0.030000
148.370	16.184	0.030000
151.703	16.228	0.030000
156.391	16.452	0.030000
161.078	16.548	0.030000
165.766	16.566	0.030000
170.453	16.540	0.030000
175.141	16.509	0.030000
179.828	16.508	0.030000
184.516	16.573	0.030000
189.203	16.627	0.030000
192.953	16.631	0.030000
196.703	16.617	0.030000
200.453	16.564	0.030000
204.203	16.567	0.030000
208.370	16.563	0.030000
212.537	16.488	0.030000
216.703	16.355	0.030000
220.870	16.494	0.030000
225.037	16.601	0.030000
229.203	16.675	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

233.947	16.694	0.030000
238.691	16.584	0.030000
243.435	16.376	0.030000
248.179	16.250	0.030000
252.923	16.229	0.030000
257.668	16.210	0.030000
262.411	16.276	0.030000
267.156	16.242	0.030000
271.900	16.157	0.030000
276.644	16.218	0.030000
281.388	16.305	0.030000
286.132	16.334	0.030000
290.876	16.205	0.030000
295.703	16.003	0.030000
300.531	15.956	0.030000
305.359	15.795	0.030000
310.187	15.712	0.030000
315.014	15.686	0.030000
319.842	15.697	0.030000
324.670	15.716	0.030000
329.498	15.564	0.030000
334.325	15.508	0.030000
339.153	15.289	0.030000
343.981	15.340	0.030000
348.809	15.301	0.030000
353.636	15.337	0.030000
358.464	15.346	0.030000
363.292	15.384	0.030000
368.120	15.452	0.030000
372.947	15.652	0.030000
377.775	15.743	0.030000
382.603	15.496	0.030000
386.634	15.472	0.030000
390.665	15.580	0.030000
394.696	15.708	0.030000
398.727	15.690	0.030000
402.759	15.689	0.030000
406.925	15.731	0.030000
411.092	15.787	0.030000
415.259	15.860	0.030000
419.425	15.915	0.030000
423.592	15.920	0.030000
427.759	15.988	0.030000
431.560	15.982	0.030000
435.362	15.858	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

439.164 15.930 0.030000  
442.966 15.979 0.030000

Name: XD0150B Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 15.244 0.030000  
4.722 15.281 0.030000  
9.444 15.209 0.030000  
14.167 15.153 0.030000  
18.889 15.284 0.030000  
23.611 15.306 0.030000  
28.333 15.180 0.030000  
33.056 15.067 0.030000  
37.778 15.102 0.030000  
42.500 15.150 0.030000  
47.222 15.160 0.030000  
51.944 15.189 0.030000  
56.667 15.155 0.030000  
61.389 15.086 0.030000  
66.111 15.092 0.030000  
70.833 15.100 0.030000  
75.556 15.104 0.030000  
80.278 15.156 0.030000  
85.000 15.209 0.030000

Name: XD0150C Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 15.413 0.030000  
4.528 15.502 0.030000  
9.055 15.661 0.030000  
13.583 15.811 0.030000  
18.111 16.153 0.030000  
22.639 16.157 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

27.222	16.144	0.030000
31.805	16.133	0.030000
36.389	16.221	0.030000
40.972	16.219	0.030000
45.555	16.144	0.030000
50.139	15.965	0.030000
55.107	15.835	0.030000
60.075	15.825	0.030000
65.043	15.726	0.030000
70.012	15.680	0.030000
74.980	15.729	0.030000
79.949	15.737	0.030000
84.917	15.772	0.030000
89.885	15.763	0.030000
94.854	15.717	0.030000
99.822	15.761	0.030000
104.790	15.791	0.030000
109.759	15.761	0.030000
114.727	15.751	0.030000
119.695	15.793	0.030000
124.664	15.845	0.030000
129.632	15.963	0.030000
134.601	16.044	0.030000
139.569	15.921	0.030000
144.537	15.796	0.030000
149.506	15.638	0.030000
154.474	15.535	0.030000
159.442	15.498	0.030000
164.411	15.437	0.030000
169.379	15.441	0.030000
174.347	15.482	0.030000
179.316	15.494	0.030000
184.284	15.464	0.030000
189.252	15.294	0.030000
194.221	15.234	0.030000
199.189	15.246	0.030000
204.158	15.269	0.030000
209.126	15.302	0.030000
214.094	15.261	0.030000
219.063	15.204	0.030000
224.031	15.279	0.030000
228.999	15.336	0.030000
233.968	15.386	0.030000
238.936	15.453	0.030000
243.904	15.533	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

248.873	15.692	0.030000
253.841	15.695	0.030000
258.809	15.659	0.030000
263.778	15.690	0.030000
268.746	15.722	0.030000
273.714	15.838	0.030000
278.683	15.784	0.030000
283.651	15.803	0.030000
288.620	15.926	0.030000
293.588	15.813	0.030000
298.556	15.727	0.030000
303.524	15.699	0.030000
308.493	15.729	0.030000
313.461	15.676	0.030000
318.430	15.644	0.030000
323.398	15.714	0.030000
328.366	15.732	0.030000
333.335	15.568	0.030000
338.303	15.305	0.030000
343.271	15.147	0.030000
348.240	15.376	0.030000
353.208	15.291	0.030000
358.176	15.374	0.030000
363.145	15.418	0.030000
368.113	15.438	0.030000
373.082	15.632	0.030000
378.050	15.434	0.030000
383.018	15.284	0.030000
387.987	15.123	0.030000
392.955	15.426	0.030000
397.923	15.342	0.030000
402.892	15.389	0.030000
407.860	15.317	0.030000
412.828	15.303	0.030000
417.797	15.533	0.030000
422.765	15.682	0.030000
427.733	15.684	0.030000
432.702	15.756	0.030000
437.670	15.941	0.030000
442.639	16.299	0.030000
445.972	16.440	0.030000
449.305	16.564	0.030000
452.639	16.673	0.030000
457.450	16.321	0.030000
462.262	16.108	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

467.073	16.140	0.030000
471.885	16.358	0.030000
476.696	16.616	0.030000
481.508	16.865	0.030000
486.319	16.940	0.030000
491.131	16.900	0.030000
495.942	16.863	0.030000
500.754	16.944	0.030000
505.565	17.041	0.030000
510.377	17.122	0.030000
515.188	17.084	0.030000

Name: XD0160A      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.762	0.030000
3.439	15.753	0.030000
6.878	15.748	0.030000
10.317	15.780	0.030000
15.259	15.764	0.030000
20.201	15.823	0.030000
25.143	15.892	0.030000
30.085	15.828	0.030000
35.027	15.735	0.030000
39.968	15.707	0.030000
44.910	15.695	0.030000
49.852	15.688	0.030000
54.794	15.673	0.030000
59.736	15.633	0.030000
64.678	15.628	0.030000
69.620	15.662	0.030000
74.561	15.660	0.030000
79.503	15.626	0.030000
84.445	15.611	0.030000
89.387	15.596	0.030000
94.329	15.634	0.030000
99.271	15.629	0.030000
104.213	15.611	0.030000
109.155	15.665	0.030000
114.096	15.650	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

119.038	15.683	0.030000
123.980	15.595	0.030000
128.922	15.639	0.030000
133.864	15.660	0.030000
138.806	15.616	0.030000
143.748	15.680	0.030000
148.689	15.754	0.030000
153.631	15.702	0.030000
158.573	15.722	0.030000
163.515	15.580	0.030000
168.457	15.452	0.030000
173.399	15.383	0.030000
178.340	15.379	0.030000
183.282	15.372	0.030000
188.224	15.367	0.030000
193.166	15.373	0.030000
198.108	15.209	0.030000
203.050	15.145	0.030000
207.992	15.203	0.030000
212.934	15.257	0.030000
217.875	15.300	0.030000
222.817	15.274	0.030000
227.759	15.426	0.030000
232.701	15.712	0.030000
237.643	15.662	0.030000
242.585	15.598	0.030000
247.527	15.575	0.030000
252.468	15.480	0.030000
257.410	15.391	0.030000
262.352	15.473	0.030000
267.294	15.341	0.030000
272.236	15.347	0.030000
277.178	15.381	0.030000
282.120	15.426	0.030000
287.062	15.461	0.030000
292.003	15.511	0.030000
296.945	15.421	0.030000
301.887	15.370	0.030000
306.829	15.485	0.030000
311.771	15.426	0.030000
316.713	15.351	0.030000
321.654	15.298	0.030000
326.596	15.333	0.030000
331.538	14.939	0.030000
336.480	14.553	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

341.422	15.244	0.030000
346.364	15.577	0.030000
351.306	15.580	0.030000
356.248	15.522	0.030000
361.189	15.474	0.030000
366.131	15.453	0.030000
371.073	15.417	0.030000
376.015	15.432	0.030000
380.957	15.486	0.030000
385.899	15.503	0.030000
390.841	15.433	0.030000
395.782	15.387	0.030000
400.724	15.358	0.030000
405.666	15.328	0.030000
410.608	15.339	0.030000
415.550	15.341	0.030000
420.492	15.268	0.030000
425.434	15.287	0.030000
430.375	15.384	0.030000
435.317	15.413	0.030000

---

Name: XD0160B	Group: D
Encroachment: No	

---

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

---

0.000	15.209	0.030000
4.869	15.214	0.030000
9.738	15.217	0.030000
14.607	15.233	0.030000
19.476	15.263	0.030000
24.345	15.289	0.030000
29.214	15.316	0.030000
34.083	15.333	0.030000
38.952	15.341	0.030000
43.821	15.319	0.030000
48.690	15.284	0.030000
53.560	15.304	0.030000
58.429	15.287	0.030000
63.297	15.277	0.030000
68.167	15.241	0.030000
73.036	15.174	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

77.905	15.206	0.030000
82.774	15.254	0.030000
87.643	15.288	0.030000
92.475	15.325	0.030000
97.307	15.515	0.030000
102.140	15.689	0.030000
106.972	15.718	0.030000
111.804	15.602	0.030000
116.636	15.299	0.030000
121.469	15.100	0.030000
126.301	15.108	0.030000
131.133	15.056	0.030000
135.965	15.001	0.030000
140.798	15.020	0.030000
145.630	14.967	0.030000
150.590	14.905	0.030000
155.551	14.950	0.030000
160.511	15.043	0.030000
165.472	15.106	0.030000
170.432	15.153	0.030000
175.393	15.171	0.030000
180.353	15.235	0.030000
185.314	15.566	0.030000
190.274	15.958	0.030000
195.235	16.088	0.030000
200.195	16.071	0.030000
205.155	16.007	0.030000
210.116	15.950	0.030000
215.077	15.965	0.030000
220.037	15.960	0.030000
224.997	15.913	0.030000
229.958	15.809	0.030000
234.918	15.708	0.030000
239.879	15.728	0.030000
244.839	15.770	0.030000
249.800	15.698	0.030000
254.760	15.564	0.030000
259.721	15.468	0.030000
264.681	15.410	0.030000
269.642	15.364	0.030000
274.602	15.424	0.030000
279.563	15.394	0.030000
284.523	15.358	0.030000
289.484	15.393	0.030000
294.444	15.269	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

299.405	15.209	0.030000
304.365	15.242	0.030000
309.326	15.308	0.030000
314.286	15.420	0.030000
319.247	15.434	0.030000
324.207	15.427	0.030000
329.168	15.432	0.030000
334.128	15.366	0.030000
339.088	15.313	0.030000
344.049	15.295	0.030000
348.938	15.112	0.030000
353.827	15.649	0.030000
358.716	15.650	0.030000
363.604	15.681	0.030000
368.493	15.800	0.030000
373.382	15.698	0.030000
378.271	15.761	0.030000
383.160	15.824	0.030000
388.049	15.871	0.030000
392.938	16.062	0.030000
397.827	16.130	0.030000
402.716	16.086	0.030000
407.604	16.076	0.030000
412.493	16.064	0.030000
417.382	16.302	0.030000
422.293	16.405	0.030000
427.204	16.501	0.030000
432.114	16.569	0.030000
437.025	16.239	0.030000
441.936	16.271	0.030000
446.847	16.444	0.030000
451.757	16.502	0.030000
456.668	16.509	0.030000
461.579	16.517	0.030000
466.490	16.468	0.030000
471.400	16.564	0.030000
476.311	16.510	0.030000
481.222	16.175	0.030000
486.132	16.146	0.030000
491.043	16.201	0.030000
495.954	16.288	0.030000
500.865	16.194	0.030000
505.776	16.009	0.030000
510.686	15.818	0.030000
515.597	15.977	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

520.508	16.141	0.030000
525.418	16.252	0.030000
530.329	16.300	0.030000
535.240	16.246	0.030000
540.151	16.109	0.030000
545.061	15.949	0.030000
549.972	16.039	0.030000
554.883	16.137	0.030000
559.794	16.125	0.030000
564.704	16.019	0.030000
569.615	15.889	0.030000
574.526	15.774	0.030000
579.437	15.611	0.030000
584.347	15.480	0.030000
589.258	15.509	0.030000
594.169	15.508	0.030000
599.080	15.413	0.030000

Name: XD0160C      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.460	0.030000
4.507	16.362	0.030000
9.014	16.248	0.030000
13.521	16.120	0.030000
18.028	15.993	0.030000
22.535	15.865	0.030000
27.042	15.737	0.030000
31.549	15.569	0.030000
36.056	15.489	0.030000
40.563	15.529	0.030000
45.069	15.507	0.030000
48.796	15.402	0.030000
52.523	15.299	0.030000
56.250	15.280	0.030000
60.679	15.328	0.030000
65.108	15.439	0.030000
68.665	15.479	0.030000
72.223	15.547	0.030000
75.780	15.606	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

80.209	15.492	0.030000
84.638	15.374	0.030000
88.074	15.315	0.030000
91.510	15.331	0.030000
94.946	15.395	0.030000
99.946	15.652	0.030000
104.946	15.703	0.030000
108.382	15.678	0.030000
111.818	15.551	0.030000
115.254	15.740	0.030000
118.587	15.999	0.030000
121.921	16.058	0.030000
125.254	15.861	0.030000
129.207	15.581	0.030000
133.160	15.557	0.030000
137.113	15.516	0.030000
141.065	15.387	0.030000
146.065	15.291	0.030000
151.065	15.387	0.030000
153.565	15.426	0.030000
156.065	15.421	0.030000
161.065	15.328	0.030000
166.065	15.293	0.030000
171.065	15.278	0.030000
176.065	15.229	0.030000
178.565	15.247	0.030000
181.065	15.318	0.030000
184.399	15.380	0.030000
187.732	15.345	0.030000
191.065	15.401	0.030000
195.816	15.436	0.030000
200.567	15.423	0.030000
205.318	15.477	0.030000
210.068	15.490	0.030000
214.819	15.584	0.030000
219.570	15.496	0.030000
223.989	15.387	0.030000
228.409	15.347	0.030000
232.828	15.357	0.030000
237.248	15.421	0.030000
241.248	15.414	0.030000
245.248	15.300	0.030000
249.248	15.279	0.030000
253.248	15.402	0.030000
257.248	15.402	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

261.662	15.404	0.030000
266.077	15.520	0.030000
270.491	15.938	0.030000
274.906	15.713	0.030000
279.757	15.415	0.030000
284.608	15.220	0.030000
289.459	15.225	0.030000
294.310	15.270	0.030000
299.161	15.291	0.030000
304.013	15.250	0.030000
308.500	15.229	0.030000
312.988	15.261	0.030000
317.957	15.255	0.030000
322.926	15.266	0.030000
327.895	15.254	0.030000
331.940	15.234	0.030000
335.985	15.234	0.030000
340.030	15.144	0.030000
344.075	15.068	0.030000
348.505	15.049	0.030000
352.934	15.063	0.030000
357.330	15.191	0.030000
361.726	15.603	0.030000
366.122	15.668	0.030000
370.518	15.680	0.030000
374.914	15.648	0.030000
379.310	15.584	0.030000
383.706	15.647	0.030000
388.102	15.676	0.030000
392.351	15.586	0.030000
396.601	15.576	0.030000
400.850	15.647	0.030000
405.016	15.669	0.030000
409.183	15.551	0.030000
413.350	15.463	0.030000
417.516	15.383	0.030000
421.683	15.506	0.030000
425.850	15.703	0.030000
430.279	15.741	0.030000
434.708	15.709	0.030000
439.585	15.731	0.030000
444.462	15.724	0.030000
449.339	15.722	0.030000
454.216	15.706	0.030000
458.564	15.790	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

462.912	15.828	0.030000
467.260	15.843	0.030000
470.930	15.783	0.030000
474.601	15.699	0.030000
478.271	15.692	0.030000
483.047	15.704	0.030000
487.824	15.594	0.030000
492.600	15.392	0.030000
497.376	15.209	0.030000

Name: XD0160D                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.762	0.030000
3.824	15.770	0.030000
7.649	15.769	0.030000
11.473	15.877	0.030000
15.297	15.884	0.030000
19.785	15.904	0.030000
24.272	15.882	0.030000
28.760	15.916	0.030000
32.295	15.962	0.030000
35.831	16.150	0.030000
39.367	16.310	0.030000
42.803	16.289	0.030000
46.238	16.281	0.030000
49.674	16.210	0.030000
53.719	16.138	0.030000
57.763	16.140	0.030000
61.808	16.177	0.030000
65.852	16.210	0.030000
69.897	16.243	0.030000
73.941	16.249	0.030000
78.551	16.288	0.030000
83.161	16.328	0.030000
87.771	16.364	0.030000
92.380	16.393	0.030000
96.990	16.421	0.030000
101.917	16.458	0.030000
106.843	16.350	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

111.770	16.361	0.030000
116.697	16.413	0.030000
121.623	16.554	0.030000
126.550	16.633	0.030000
131.476	16.650	0.030000
136.403	16.661	0.030000
141.329	16.673	0.030000
146.256	16.682	0.030000
151.183	16.683	0.030000
154.740	16.666	0.030000
158.297	16.672	0.030000
161.854	16.745	0.030000
165.899	16.906	0.030000
169.943	17.000	0.030000
173.988	17.029	0.030000
178.476	17.051	0.030000
182.963	17.074	0.030000
187.300	17.137	0.030000
191.636	17.082	0.030000
195.973	17.118	0.030000
200.309	17.087	0.030000
204.646	17.085	0.030000
207.979	17.123	0.030000
211.313	17.174	0.030000
214.646	17.183	0.030000
219.646	17.138	0.030000
224.646	17.161	0.030000
229.646	17.267	0.030000
232.146	17.310	0.030000
234.646	17.353	0.030000
238.082	17.410	0.030000
241.518	17.401	0.030000
244.954	17.411	0.030000
249.954	17.482	0.030000
254.954	17.400	0.030000
258.287	17.373	0.030000
261.620	17.320	0.030000
264.954	17.233	0.030000
269.203	17.264	0.030000
273.452	17.073	0.030000
277.701	17.012	0.030000
281.950	16.974	0.030000
285.508	16.876	0.030000
289.065	16.835	0.030000
292.622	16.877	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

296.959	16.816	0.030000
301.295	16.787	0.030000
305.632	16.746	0.030000
309.968	16.807	0.030000
314.305	16.947	0.030000
319.305	16.905	0.030000
321.805	16.763	0.030000
324.305	16.696	0.030000
329.305	16.547	0.030000
334.305	16.379	0.030000
338.734	16.294	0.030000
343.163	16.253	0.030000
347.272	16.241	0.030000
351.381	16.169	0.030000
355.490	16.146	0.030000
359.599	16.084	0.030000
364.444	16.012	0.030000
369.289	15.901	0.030000
374.134	15.922	0.030000
378.979	15.969	0.030000
383.823	15.999	0.030000
387.953	15.987	0.030000
392.082	15.988	0.030000
396.212	15.973	0.030000
400.165	16.023	0.030000
404.118	16.089	0.030000
408.070	16.342	0.030000
412.023	16.593	0.030000
416.452	16.876	0.030000
420.882	17.115	0.030000
425.131	17.050	0.030000
429.380	17.104	0.030000
433.629	17.192	0.030000
437.878	17.225	0.030000
442.164	17.246	0.030000
446.450	17.266	0.030000
450.736	17.283	0.030000
455.021	17.297	0.030000
459.307	17.311	0.030000
463.593	17.328	0.030000
467.878	17.346	0.030000
472.128	17.340	0.030000
476.377	17.322	0.030000
480.626	17.310	0.030000
484.875	17.325	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

488.920	17.404	0.030000
492.964	17.235	0.030000
497.009	17.090	0.030000
500.445	16.988	0.030000
503.880	16.927	0.030000
507.316	16.830	0.030000
511.348	16.725	0.030000
515.379	16.670	0.030000
519.410	16.584	0.030000
523.441	16.550	0.030000
527.472	16.585	0.030000
530.805	16.599	0.030000
534.139	16.596	0.030000
537.472	16.600	0.030000
541.639	16.574	0.030000
545.805	16.495	0.030000
549.972	16.402	0.030000
554.139	16.359	0.030000
558.305	16.407	0.030000
562.472	16.449	0.030000
566.960	16.481	0.030000
571.447	16.541	0.030000
575.935	16.555	0.030000
580.794	16.530	0.030000
585.653	16.590	0.030000
590.512	16.694	0.030000
595.414	16.673	0.030000
600.316	16.693	0.030000
605.218	16.783	0.030000
609.035	16.725	0.030000
612.852	16.627	0.030000
616.669	16.834	0.030000
620.486	17.076	0.030000
625.088	16.967	0.030000
629.691	16.650	0.030000
634.293	16.631	0.030000
638.542	16.559	0.030000
642.791	16.632	0.030000
647.040	16.714	0.030000
650.374	16.692	0.030000
653.707	16.664	0.030000
657.040	16.697	0.030000
661.341	16.765	0.030000
665.641	16.673	0.030000
669.942	16.525	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

674.243	16.600	0.030000
678.543	16.578	0.030000
682.844	16.582	0.030000
687.144	16.630	0.030000
692.144	16.758	0.030000
697.144	16.781	0.030000
700.871	16.655	0.030000
704.598	16.573	0.030000
708.325	16.617	0.030000
712.052	16.776	0.030000
715.778	17.280	0.030000
719.505	17.393	0.030000
723.920	16.957	0.030000
728.334	16.667	0.030000
732.749	16.571	0.030000
737.163	16.565	0.030000
741.511	16.553	0.030000
745.859	16.504	0.030000
750.207	16.494	0.030000
753.934	16.454	0.030000
757.660	16.414	0.030000
761.387	16.415	0.030000
765.735	16.371	0.030000
770.083	16.336	0.030000
774.431	16.323	0.030000
779.134	16.238	0.030000
783.837	16.132	0.030000
788.540	16.080	0.030000
793.243	16.117	0.030000
797.946	16.100	0.030000
802.649	16.074	0.030000
807.352	16.124	0.030000
812.055	16.096	0.030000
816.758	16.017	0.030000
821.461	15.990	0.030000
825.633	15.974	0.030000
829.804	15.946	0.030000
833.976	15.950	0.030000
838.148	15.987	0.030000
843.117	15.991	0.030000
848.086	16.008	0.030000
853.055	16.026	0.030000
857.164	16.009	0.030000
861.273	16.154	0.030000
865.382	16.327	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

869.491	16.508	0.030000
873.027	16.724	0.030000
876.562	16.945	0.030000
880.098	17.042	0.030000
885.098	17.149	0.030000
890.098	17.145	0.030000
892.598	17.066	0.030000
895.098	16.961	0.030000
900.098	16.772	0.030000
903.900	16.645	0.030000
907.701	16.539	0.030000
911.503	16.598	0.030000
915.305	16.626	0.030000
919.792	16.569	0.030000
924.280	16.483	0.030000
928.768	16.368	0.030000
933.255	16.250	0.030000
937.743	16.160	0.030000
942.231	16.092	0.030000
946.231	16.078	0.030000
950.231	16.098	0.030000
954.231	16.234	0.030000
958.231	16.371	0.030000
962.231	16.460	0.030000

-----

Name: XD0170B	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	16.460	0.030000
3.436	16.469	0.030000
6.872	16.431	0.030000
10.308	16.396	0.030000
13.744	16.346	0.030000
17.180	16.278	0.030000
20.616	16.236	0.030000
25.616	16.250	0.030000
30.616	16.128	0.030000
33.949	16.142	0.030000
37.282	16.088	0.030000
40.615	16.068	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

44.417	16.081	0.030000
48.219	16.050	0.030000
52.021	15.949	0.030000
55.822	15.982	0.030000
60.653	16.111	0.030000
65.484	16.130	0.030000
70.314	16.007	0.030000
75.145	16.063	0.030000
79.976	16.124	0.030000
84.806	15.954	0.030000
89.637	16.134	0.030000
94.468	16.076	0.030000
99.298	16.094	0.030000
104.129	16.129	0.030000
108.960	16.149	0.030000
113.790	16.123	0.030000
118.621	16.135	0.030000
123.452	16.192	0.030000
128.282	16.021	0.030000
133.113	16.096	0.030000
137.944	16.233	0.030000
142.774	16.031	0.030000
147.605	16.025	0.030000
152.436	16.269	0.030000
157.266	16.219	0.030000
162.097	16.140	0.030000
166.928	16.100	0.030000
171.758	16.108	0.030000
176.589	16.102	0.030000
181.420	16.014	0.030000
186.250	15.958	0.030000
191.081	16.151	0.030000
195.912	16.284	0.030000
199.662	16.213	0.030000
203.412	16.143	0.030000
207.162	16.115	0.030000
210.912	16.109	0.030000
215.780	16.081	0.030000
220.649	16.155	0.030000
225.517	16.180	0.030000
230.385	15.975	0.030000
235.254	15.976	0.030000
240.122	16.112	0.030000
244.991	16.106	0.030000
249.859	16.135	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

254.727	16.142	0.030000
259.596	16.240	0.030000
264.464	16.330	0.030000
269.333	15.900	0.030000
274.201	16.079	0.030000
279.070	16.026	0.030000
283.938	16.014	0.030000
288.806	16.029	0.030000
293.675	16.094	0.030000
298.543	16.022	0.030000
303.412	16.096	0.030000
308.109	16.028	0.030000
312.807	15.994	0.030000
317.504	16.019	0.030000
322.202	15.962	0.030000
326.899	15.933	0.030000
331.597	15.969	0.030000
336.294	16.014	0.030000
339.730	16.038	0.030000
343.166	16.073	0.030000
346.602	16.075	0.030000
350.404	16.090	0.030000
354.205	16.080	0.030000
358.007	16.108	0.030000
361.809	16.101	0.030000
366.288	16.047	0.030000
370.767	16.005	0.030000
375.246	15.948	0.030000
379.725	15.907	0.030000
384.204	15.920	0.030000
388.683	15.923	0.030000
393.162	15.941	0.030000
397.641	15.924	0.030000
402.120	15.936	0.030000
406.777	15.921	0.030000
411.433	15.851	0.030000
416.090	15.807	0.030000
420.746	15.787	0.030000
425.403	15.769	0.030000
430.060	15.844	0.030000
434.716	15.941	0.030000
438.965	15.881	0.030000
443.214	15.863	0.030000
447.464	15.876	0.030000
451.190	15.865	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

454.917	15.795	0.030000
458.644	15.850	0.030000
462.644	15.884	0.030000
466.644	15.801	0.030000
470.644	15.881	0.030000
474.644	15.881	0.030000
478.644	15.908	0.030000
483.644	15.924	0.030000
488.644	15.903	0.030000
493.644	15.905	0.030000
498.644	15.906	0.030000
503.644	15.914	0.030000
508.644	15.957	0.030000
513.644	15.980	0.030000
518.194	15.985	0.030000
522.744	16.012	0.030000
527.294	16.098	0.030000
531.844	15.974	0.030000
536.332	16.027	0.030000
540.819	16.026	0.030000
545.307	16.011	0.030000
549.034	15.999	0.030000
552.761	15.999	0.030000
556.487	15.933	0.030000
560.386	15.933	0.030000
564.285	16.084	0.030000
568.184	16.115	0.030000
572.765	16.165	0.030000
577.346	16.218	0.030000
581.928	16.236	0.030000
586.593	16.185	0.030000
591.259	16.074	0.030000
595.925	15.967	0.030000
600.590	15.898	0.030000
605.256	15.943	0.030000
609.922	16.095	0.030000
614.587	15.989	0.030000
619.253	16.059	0.030000

Name: XD0170C  
Encroachment: No

Group: D

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
0.000	16.576	0.030000
4.938	16.551	0.030000
9.875	16.498	0.030000
14.813	16.450	0.030000
19.750	16.381	0.030000
24.688	16.338	0.030000
29.625	16.310	0.030000
34.563	16.264	0.030000
39.500	16.247	0.030000
44.438	16.253	0.030000
49.375	16.240	0.030000
54.313	16.159	0.030000
59.250	16.153	0.030000
64.188	16.218	0.030000
69.125	16.332	0.030000
74.063	16.401	0.030000
79.000	16.426	0.030000
83.938	16.376	0.030000
88.875	16.346	0.030000
93.813	16.279	0.030000
98.750	16.326	0.030000
103.688	16.198	0.030000
108.626	16.103	0.030000
113.563	16.214	0.030000
118.501	16.268	0.030000
123.438	16.249	0.030000
128.376	16.159	0.030000
133.313	16.118	0.030000
138.251	16.069	0.030000
143.188	16.100	0.030000
148.126	16.151	0.030000
153.063	16.245	0.030000
158.001	16.210	0.030000
162.938	16.127	0.030000
167.876	16.098	0.030000
172.813	16.086	0.030000
177.751	16.048	0.030000
182.688	16.027	0.030000
187.626	16.160	0.030000
192.563	16.164	0.030000
197.501	16.088	0.030000
202.438	16.025	0.030000
207.376	16.027	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

212.313	16.038	0.030000
217.251	16.073	0.030000
222.189	16.156	0.030000
227.126	16.172	0.030000
232.064	16.130	0.030000
237.001	16.068	0.030000
241.939	16.061	0.030000
246.876	16.072	0.030000
251.814	16.024	0.030000
256.751	15.977	0.030000
261.689	15.962	0.030000
266.626	15.985	0.030000
271.564	15.981	0.030000
276.501	15.949	0.030000
281.439	15.938	0.030000
286.376	15.884	0.030000
291.314	15.853	0.030000
296.251	15.762	0.030000
301.189	15.795	0.030000
306.126	15.810	0.030000
311.064	15.766	0.030000
316.001	15.799	0.030000
320.939	15.838	0.030000
325.876	15.869	0.030000
330.814	15.791	0.030000
335.752	15.779	0.030000
340.689	15.762	0.030000

Name: XD0180B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.576	0.030000
4.453	16.580	0.030000
8.906	16.626	0.030000
13.359	16.708	0.030000
17.813	16.663	0.030000
22.266	16.806	0.030000
26.719	16.803	0.030000
31.172	16.788	0.030000
35.625	16.764	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

40.078	16.709	0.030000
44.646	16.681	0.030000
49.214	16.711	0.030000
53.782	16.773	0.030000
58.351	16.819	0.030000
62.919	16.745	0.030000
67.487	16.795	0.030000
72.055	16.794	0.030000
76.623	16.809	0.030000
81.191	16.885	0.030000
85.759	16.861	0.030000
90.327	16.851	0.030000
94.577	16.909	0.030000
98.826	16.973	0.030000
103.075	16.905	0.030000
107.324	16.881	0.030000
111.573	16.867	0.030000
115.823	16.846	0.030000
120.690	16.910	0.030000
125.557	16.977	0.030000
130.424	16.944	0.030000
135.291	16.949	0.030000
140.158	16.944	0.030000
145.026	16.907	0.030000
149.893	16.871	0.030000
154.760	16.866	0.030000
159.627	16.912	0.030000
164.494	16.868	0.030000
169.362	16.845	0.030000
174.229	16.853	0.030000
179.096	16.802	0.030000
183.963	16.831	0.030000
188.830	16.820	0.030000
193.697	16.827	0.030000
198.565	16.877	0.030000
203.432	16.850	0.030000
208.299	16.888	0.030000
213.166	16.810	0.030000
218.033	16.785	0.030000
222.901	16.792	0.030000
227.768	16.738	0.030000
232.635	16.776	0.030000
237.019	16.874	0.030000
241.404	16.902	0.030000
245.788	16.959	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

250.172	16.967	0.030000
254.557	16.986	0.030000
257.992	17.002	0.030000
261.428	16.985	0.030000
264.864	17.001	0.030000
269.212	17.002	0.030000
273.560	16.971	0.030000
277.908	17.017	0.030000
282.256	17.088	0.030000
286.604	16.969	0.030000
290.952	16.924	0.030000
294.487	16.872	0.030000
298.023	16.819	0.030000
301.558	16.735	0.030000
306.065	16.730	0.030000
310.572	16.786	0.030000
314.008	16.888	0.030000
317.444	16.834	0.030000
320.880	16.853	0.030000
324.833	16.810	0.030000
328.786	16.695	0.030000
332.738	16.689	0.030000
336.691	16.683	0.030000
341.066	16.672	0.030000
345.441	16.621	0.030000
349.816	16.554	0.030000
354.191	16.513	0.030000
358.566	16.492	0.030000
362.941	16.430	0.030000
367.316	16.336	0.030000
371.691	16.317	0.030000
375.127	16.327	0.030000
378.563	16.289	0.030000
381.999	16.291	0.030000
386.966	16.273	0.030000
391.933	16.232	0.030000
396.899	16.212	0.030000
401.866	16.254	0.030000
406.833	16.256	0.030000
411.800	16.219	0.030000
416.767	16.291	0.030000
421.733	16.373	0.030000
426.700	16.402	0.030000
431.667	16.452	0.030000
436.634	16.519	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

441.600	16.543	0.030000
446.567	16.575	0.030000
451.534	16.628	0.030000
456.501	16.612	0.030000
461.467	16.583	0.030000
466.434	16.574	0.030000
471.401	16.569	0.030000
476.368	16.513	0.030000
481.334	16.439	0.030000
486.301	16.410	0.030000
491.268	16.355	0.030000
496.235	16.336	0.030000
501.202	16.366	0.030000
506.168	16.363	0.030000
511.135	16.339	0.030000
516.102	16.242	0.030000
521.069	16.229	0.030000
526.035	16.204	0.030000
531.002	16.171	0.030000
535.969	16.191	0.030000
540.936	16.216	0.030000
545.902	16.177	0.030000
550.869	16.144	0.030000
555.836	16.129	0.030000
560.803	16.126	0.030000
565.769	16.180	0.030000
570.736	16.164	0.030000
575.703	16.136	0.030000
580.670	16.062	0.030000
585.636	16.124	0.030000
590.603	16.071	0.030000
595.570	16.083	0.030000
600.537	16.093	0.030000
605.504	16.101	0.030000
610.470	16.083	0.030000
615.437	16.075	0.030000
620.404	16.031	0.030000
625.371	16.040	0.030000
630.337	16.066	0.030000
635.304	16.040	0.030000
640.271	16.012	0.030000
645.238	16.000	0.030000
650.205	16.020	0.030000
655.171	15.990	0.030000
660.138	15.953	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

665.105	15.951	0.030000
670.072	15.916	0.030000
675.038	15.871	0.030000
680.005	15.874	0.030000
684.972	15.885	0.030000
689.939	15.852	0.030000
694.905	15.835	0.030000
699.872	15.840	0.030000
704.839	15.796	0.030000
709.806	15.825	0.030000
714.772	15.776	0.030000
719.739	15.677	0.030000
724.706	15.579	0.030000
729.673	15.575	0.030000
734.063	15.495	0.030000
738.454	15.457	0.030000
742.845	15.432	0.030000
747.236	15.381	0.030000
751.626	15.364	0.030000
756.017	15.335	0.030000
760.408	15.211	0.030000
764.970	14.797	0.030000
769.533	14.556	0.030000
774.096	14.598	0.030000
778.658	14.490	0.030000
783.221	14.576	0.030000
787.784	14.559	0.030000
792.346	14.661	0.030000
796.909	14.826	0.030000
801.471	15.015	0.030000

-----

Name: XD0180C	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	15.015	0.030000
4.992	14.836	0.030000
9.983	14.705	0.030000
14.975	14.633	0.030000
19.966	14.543	0.030000
24.958	14.463	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

29.949	14.468	0.030000
34.940	14.449	0.030000
39.932	14.383	0.030000
44.923	14.348	0.030000
49.915	14.307	0.030000
54.906	14.230	0.030000
59.898	14.224	0.030000
64.889	14.269	0.030000
69.881	14.351	0.030000
74.872	14.400	0.030000
79.864	14.406	0.030000
84.855	14.363	0.030000
89.847	14.393	0.030000
94.838	14.397	0.030000
99.830	14.374	0.030000
104.821	14.392	0.030000
109.813	14.383	0.030000
114.804	14.381	0.030000
119.796	14.375	0.030000
124.787	14.365	0.030000
129.779	14.383	0.030000
134.770	14.360	0.030000
139.762	14.358	0.030000
144.753	14.345	0.030000
149.745	14.361	0.030000
154.736	14.377	0.030000
159.728	14.334	0.030000
164.719	14.281	0.030000
169.711	14.285	0.030000
174.702	14.276	0.030000
179.694	14.294	0.030000
184.685	14.308	0.030000
189.677	14.261	0.030000
194.668	14.237	0.030000
199.660	14.269	0.030000
204.651	14.256	0.030000
209.643	14.244	0.030000
214.634	14.238	0.030000
219.626	14.264	0.030000
224.617	14.237	0.030000
229.609	14.191	0.030000
234.600	14.189	0.030000
239.592	14.177	0.030000
244.583	14.133	0.030000
249.575	14.111	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

254.566 14.109 0.030000  
259.558 14.049 0.030000

Name: XD0182B Group: B  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 17.604 0.030000  
4.913 17.509 0.030000  
9.826 17.415 0.030000  
14.740 17.308 0.030000  
19.653 17.204 0.030000  
24.566 17.069 0.030000  
29.480 16.969 0.030000  
34.393 16.861 0.030000  
39.306 16.745 0.030000  
44.219 16.589 0.030000  
49.133 16.410 0.030000  
54.046 16.285 0.030000  
58.959 16.074 0.030000  
63.872 15.919 0.030000  
68.786 15.607 0.030000  
73.699 15.418 0.030000  
78.612 15.728 0.030000  
83.525 15.366 0.030000  
88.439 15.349 0.030000  
93.352 15.292 0.030000  
98.265 15.073 0.030000  
103.179 15.004 0.030000  
108.092 14.932 0.030000  
113.005 15.269 0.030000  
117.918 15.224 0.030000

Name: XD0190B Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	13.483	0.030000
4.708	13.531	0.030000
9.417	13.493	0.030000
14.125	13.475	0.030000
18.833	13.515	0.030000
23.541	13.432	0.030000
28.249	13.576	0.030000
32.958	13.570	0.030000
37.666	13.560	0.030000
42.374	13.578	0.030000
47.082	13.587	0.030000
51.739	13.615	0.030000
56.395	13.672	0.030000
61.052	13.698	0.030000
65.709	13.661	0.030000
70.365	13.637	0.030000
75.022	13.632	0.030000
79.678	13.638	0.030000
83.845	13.675	0.030000
88.012	13.624	0.030000
92.178	13.597	0.030000
95.928	13.581	0.030000
99.678	13.533	0.030000
103.428	13.611	0.030000
107.178	13.603	0.030000
112.178	13.538	0.030000
117.178	13.571	0.030000
122.178	13.595	0.030000
124.678	13.554	0.030000
127.178	13.526	0.030000
130.512	13.518	0.030000
133.845	13.597	0.030000
137.178	13.589	0.030000
141.345	13.560	0.030000
145.512	13.540	0.030000
149.678	13.451	0.030000
154.262	13.580	0.030000
158.845	13.607	0.030000
163.428	13.573	0.030000
168.012	13.525	0.030000
172.595	13.552	0.030000
177.178	13.592	0.030000
182.178	13.593	0.030000
187.178	13.583	0.030000
191.866	13.589	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

196.553	13.643	0.030000
201.241	13.677	0.030000
205.928	13.624	0.030000
209.991	13.715	0.030000
214.053	13.695	0.030000
218.116	13.651	0.030000
222.178	13.629	0.030000
225.512	13.629	0.030000
228.845	13.649	0.030000
232.178	13.677	0.030000
236.366	13.678	0.030000
240.553	13.648	0.030000
244.741	13.650	0.030000
248.928	13.676	0.030000
253.116	13.688	0.030000
257.303	13.664	0.030000
262.297	13.621	0.030000
267.291	13.667	0.030000
272.286	13.698	0.030000
277.280	13.576	0.030000
282.274	13.509	0.030000
287.268	13.573	0.030000
292.263	13.596	0.030000
297.257	13.518	0.030000
302.251	13.524	0.030000
307.245	13.585	0.030000
312.240	13.568	0.030000
317.234	13.527	0.030000
322.228	13.529	0.030000
327.222	13.557	0.030000
332.217	13.526	0.030000
337.211	13.553	0.030000
342.205	13.607	0.030000
347.199	13.606	0.030000
352.193	13.566	0.030000
357.188	13.579	0.030000
362.182	13.640	0.030000
367.176	13.626	0.030000
372.170	13.586	0.030000
377.164	13.569	0.030000
382.159	13.569	0.030000
387.153	13.509	0.030000
392.147	13.499	0.030000
397.141	13.541	0.030000
402.136	13.497	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

407.130	13.453	0.030000
412.124	13.471	0.030000
417.118	13.488	0.030000
422.113	13.464	0.030000
427.107	13.450	0.030000
432.101	13.428	0.030000
437.095	13.411	0.030000
442.089	13.429	0.030000
447.084	13.445	0.030000
452.078	13.446	0.030000
457.072	13.436	0.030000
462.066	13.429	0.030000
467.061	13.425	0.030000
472.055	13.443	0.030000
477.049	13.457	0.030000
482.043	13.490	0.030000
487.038	13.477	0.030000
492.032	13.449	0.030000
497.026	13.521	0.030000
502.020	13.567	0.030000
507.014	13.580	0.030000
512.009	13.601	0.030000
517.003	13.631	0.030000
521.997	13.637	0.030000
526.991	13.631	0.030000
531.986	13.648	0.030000
536.980	13.667	0.030000
541.974	13.674	0.030000
546.968	13.683	0.030000
551.962	13.642	0.030000
556.957	13.640	0.030000
561.951	13.642	0.030000
566.945	13.621	0.030000
571.939	13.629	0.030000
576.933	13.670	0.030000
581.928	13.677	0.030000
586.922	13.661	0.030000
591.916	13.661	0.030000
596.910	13.639	0.030000
601.905	13.608	0.030000
606.899	13.663	0.030000
611.893	13.690	0.030000
616.887	13.618	0.030000
621.881	13.608	0.030000
626.876	13.636	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

631.870	13.612	0.030000
636.864	13.556	0.030000
641.858	13.584	0.030000
646.853	13.561	0.030000
651.847	13.490	0.030000
656.841	13.545	0.030000
661.835	13.536	0.030000
666.830	13.478	0.030000
671.824	13.530	0.030000
676.818	13.530	0.030000
681.812	13.475	0.030000
686.807	13.570	0.030000
691.801	13.590	0.030000
696.795	13.609	0.030000
701.789	13.675	0.030000
706.783	13.670	0.030000
711.778	13.648	0.030000
716.772	13.632	0.030000
721.766	13.670	0.030000
726.760	13.665	0.030000
731.755	13.668	0.030000
736.749	13.690	0.030000
741.743	13.738	0.030000
746.737	13.761	0.030000
751.731	13.744	0.030000
756.726	13.728	0.030000
761.720	13.720	0.030000
766.714	13.768	0.030000
771.708	13.774	0.030000
776.702	13.737	0.030000
781.697	13.736	0.030000
786.691	13.750	0.030000
791.685	13.795	0.030000
796.679	13.772	0.030000
801.674	13.818	0.030000
806.668	13.790	0.030000
811.662	13.808	0.030000
816.656	13.905	0.030000
821.651	13.892	0.030000
826.645	13.875	0.030000
831.639	13.953	0.030000
836.633	13.980	0.030000
841.628	13.936	0.030000
846.622	14.044	0.030000
851.616	14.018	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

856.610	13.941	0.030000
861.604	13.977	0.030000
866.599	14.085	0.030000
871.593	14.050	0.030000
876.587	14.000	0.030000
881.581	14.117	0.030000
886.576	14.227	0.030000
891.570	14.196	0.030000
896.564	14.249	0.030000
901.558	14.147	0.030000
906.552	13.981	0.030000
911.547	13.980	0.030000
916.541	14.102	0.030000
921.535	14.387	0.030000
926.529	14.536	0.030000
931.524	14.395	0.030000
936.518	14.185	0.030000
941.512	14.243	0.030000
946.506	14.276	0.030000
951.500	14.243	0.030000
956.495	14.176	0.030000
961.489	14.138	0.030000
966.483	14.163	0.030000
971.477	14.196	0.030000
976.472	14.219	0.030000
981.466	14.202	0.030000
986.460	14.152	0.030000
991.454	14.205	0.030000
996.448	14.202	0.030000
1001.443	14.165	0.030000
1006.437	14.216	0.030000
1011.431	14.267	0.030000
1016.425	14.291	0.030000
1021.420	14.329	0.030000
1026.414	14.426	0.030000
1031.408	14.472	0.030000
1036.402	14.407	0.030000
1041.397	14.700	0.030000
1046.391	14.555	0.030000
1051.385	14.579	0.030000
1056.379	14.376	0.030000
1061.373	14.372	0.030000
1066.368	14.345	0.030000
1071.362	14.349	0.030000
1076.356	14.330	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1081.350	14.377	0.030000
1086.344	14.362	0.030000
1091.339	14.416	0.030000
1096.333	14.382	0.030000
1101.327	14.421	0.030000
1106.321	14.425	0.030000
1111.316	14.413	0.030000
1116.310	14.400	0.030000
1121.304	14.466	0.030000
1126.298	14.407	0.030000
1131.293	14.410	0.030000
1136.287	14.419	0.030000
1141.281	14.428	0.030000
1146.275	14.464	0.030000
1151.270	14.400	0.030000
1156.264	14.433	0.030000
1161.258	14.465	0.030000
1166.252	14.384	0.030000
1171.246	14.393	0.030000
1176.241	14.422	0.030000
1181.235	14.387	0.030000
1186.229	14.406	0.030000
1191.223	14.398	0.030000
1196.218	14.376	0.030000
1201.212	14.391	0.030000
1206.206	14.424	0.030000
1211.200	14.430	0.030000
1216.194	14.455	0.030000
1221.189	14.489	0.030000
1226.183	14.506	0.030000
1231.177	14.562	0.030000
1236.171	14.614	0.030000
1241.166	14.664	0.030000
1246.160	14.790	0.030000
1251.154	14.812	0.030000
1256.148	14.859	0.030000
1261.142	14.900	0.030000
1266.137	14.970	0.030000
1271.131	15.061	0.030000
1276.125	15.231	0.030000
1281.119	15.412	0.030000

Name: XD0190C  
Encroachment: No

Group: D

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
0.000	14.049	0.030000
4.634	14.007	0.030000
9.268	13.994	0.030000
13.901	13.940	0.030000
18.535	14.286	0.030000
23.169	14.435	0.030000
27.802	14.447	0.030000
32.726	14.614	0.030000
37.649	14.814	0.030000
42.573	14.912	0.030000
47.496	14.900	0.030000
52.419	14.931	0.030000
57.343	14.948	0.030000
62.266	14.919	0.030000
67.190	14.931	0.030000
72.113	14.907	0.030000
77.037	14.849	0.030000
81.960	14.852	0.030000
86.883	14.993	0.030000
91.807	15.064	0.030000
96.730	15.024	0.030000
101.654	15.023	0.030000
106.577	15.061	0.030000
111.501	15.107	0.030000
116.424	15.138	0.030000
121.347	15.128	0.030000
126.271	15.068	0.030000
131.194	15.005	0.030000
136.118	14.988	0.030000
141.041	15.052	0.030000
145.964	15.013	0.030000
150.888	14.891	0.030000
155.811	14.895	0.030000
160.735	14.878	0.030000
165.658	14.873	0.030000
170.582	14.923	0.030000
175.505	14.957	0.030000
180.428	14.982	0.030000
185.352	14.996	0.030000
190.275	14.956	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

195.199	14.954	0.030000
200.122	15.015	0.030000
205.045	15.217	0.030000
209.969	15.336	0.030000
214.892	15.467	0.030000
219.816	15.439	0.030000
224.739	15.290	0.030000
229.662	15.345	0.030000
234.586	15.403	0.030000
239.509	15.202	0.030000
244.433	15.278	0.030000
249.356	15.454	0.030000
254.280	15.138	0.030000
259.203	15.214	0.030000
264.126	15.168	0.030000
269.050	15.169	0.030000
273.973	15.122	0.030000
278.897	15.110	0.030000
283.820	15.119	0.030000
288.743	15.197	0.030000
293.667	15.190	0.030000
298.590	15.155	0.030000
303.514	15.063	0.030000
308.437	15.134	0.030000
313.361	15.218	0.030000
318.284	15.170	0.030000
323.207	15.243	0.030000
328.131	15.402	0.030000
333.108	15.312	0.030000
338.085	15.190	0.030000
343.062	15.276	0.030000
348.039	15.532	0.030000
353.017	15.456	0.030000
357.994	15.061	0.030000
362.971	15.048	0.030000
367.948	14.995	0.030000
372.925	15.207	0.030000
377.902	15.188	0.030000
382.880	15.200	0.030000
387.857	15.177	0.030000
392.834	15.112	0.030000
397.811	15.076	0.030000
402.788	15.210	0.030000
407.765	15.311	0.030000
412.742	15.293	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

417.719	15.337	0.030000
422.697	15.365	0.030000
427.674	15.337	0.030000
432.651	15.461	0.030000
437.628	15.439	0.030000
442.605	15.333	0.030000
447.582	15.155	0.030000
452.560	14.958	0.030000
457.537	14.875	0.030000
462.514	14.986	0.030000
467.491	15.258	0.030000
472.468	15.428	0.030000
477.445	15.470	0.030000
482.423	15.407	0.030000
487.400	15.437	0.030000
492.377	15.727	0.030000
497.354	15.656	0.030000
502.331	15.382	0.030000
507.308	15.340	0.030000
512.285	15.300	0.030000
517.263	15.228	0.030000
522.240	15.245	0.030000
527.217	15.332	0.030000
532.194	15.358	0.030000
537.171	15.334	0.030000
542.148	15.290	0.030000
547.125	15.293	0.030000
552.103	15.350	0.030000
557.080	15.406	0.030000
562.057	15.458	0.030000
567.034	15.519	0.030000
572.011	15.557	0.030000
576.988	15.374	0.030000
581.966	15.414	0.030000
586.943	15.646	0.030000
591.920	15.671	0.030000
596.897	15.602	0.030000
601.874	15.523	0.030000
606.851	15.440	0.030000
611.828	15.425	0.030000
616.806	15.510	0.030000
621.783	15.634	0.030000
626.760	15.762	0.030000
631.737	15.809	0.030000
636.714	15.864	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

641.691	15.972	0.030000
646.668	15.868	0.030000
651.507	15.512	0.030000
656.346	15.067	0.030000
661.185	14.800	0.030000
666.024	14.963	0.030000
670.863	15.310	0.030000
675.702	15.550	0.030000
680.540	15.659	0.030000
685.379	15.593	0.030000
690.218	15.518	0.030000
695.057	15.746	0.030000
699.896	15.850	0.030000
704.735	15.947	0.030000
709.573	16.268	0.030000
714.412	16.238	0.030000
719.251	16.111	0.030000
724.090	16.059	0.030000

-----

Name: XD0190D	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	13.483	0.030000
4.948	13.482	0.030000
9.895	13.451	0.030000
14.843	13.530	0.030000
19.790	13.520	0.030000
24.738	13.462	0.030000
29.685	13.436	0.030000
34.633	13.479	0.030000
39.581	13.399	0.030000
44.528	13.400	0.030000
49.476	13.410	0.030000
54.423	13.402	0.030000
59.371	13.402	0.030000
64.318	13.373	0.030000
69.266	13.385	0.030000
74.213	13.485	0.030000
79.161	13.462	0.030000
84.109	13.439	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

89.056	13.419	0.030000
94.004	13.454	0.030000
98.951	13.446	0.030000
103.899	13.493	0.030000
108.846	13.642	0.030000

Name: XD0200B      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	17.484	0.030000
4.963	16.722	0.030000
9.926	16.691	0.030000
14.890	15.693	0.030000
19.853	14.723	0.030000
24.816	15.078	0.030000
29.779	15.545	0.030000
34.742	16.107	0.030000
39.706	16.473	0.030000
44.669	16.323	0.030000
49.632	16.161	0.030000
54.595	16.165	0.030000
59.559	16.240	0.030000
64.522	16.308	0.030000
69.485	16.385	0.030000
74.448	16.645	0.030000
79.411	16.880	0.030000
84.374	16.962	0.030000
89.338	17.079	0.030000
94.301	17.330	0.030000
99.290	17.316	0.030000
104.278	17.114	0.030000
109.267	16.875	0.030000
114.256	16.610	0.030000
119.245	16.495	0.030000
124.233	16.591	0.030000
129.222	16.802	0.030000
134.211	16.845	0.030000
139.200	16.767	0.030000
144.188	16.698	0.030000
149.177	16.675	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

154.166	16.689	0.030000
159.155	16.775	0.030000
164.143	16.804	0.030000
169.132	16.851	0.030000
174.121	16.977	0.030000
179.110	17.034	0.030000
184.098	16.982	0.030000
189.087	16.835	0.030000
194.076	16.927	0.030000
199.065	17.089	0.030000
204.053	16.972	0.030000
209.042	17.381	0.030000
214.031	17.643	0.030000
218.570	17.682	0.030000
223.109	17.687	0.030000
227.649	17.672	0.030000
232.188	17.630	0.030000
236.727	17.648	0.030000
241.267	17.629	0.030000
245.806	17.497	0.030000
250.345	17.552	0.030000
254.884	17.623	0.030000
259.424	17.573	0.030000
263.681	17.610	0.030000
267.938	17.631	0.030000
272.195	17.613	0.030000
277.068	17.716	0.030000
281.942	17.765	0.030000
286.815	17.811	0.030000
291.689	17.820	0.030000
296.562	17.774	0.030000
301.436	17.790	0.030000
306.310	17.859	0.030000
311.183	17.919	0.030000
316.057	17.955	0.030000
320.930	17.972	0.030000
325.803	17.989	0.030000
330.677	18.005	0.030000
335.551	18.024	0.030000
340.424	18.050	0.030000
345.298	18.081	0.030000
350.171	18.113	0.030000
355.045	18.134	0.030000
359.918	18.118	0.030000
364.792	18.086	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

369.665	18.111	0.030000
374.539	18.131	0.030000
379.412	18.147	0.030000
384.286	18.140	0.030000
389.159	18.105	0.030000
394.033	18.070	0.030000
398.906	18.035	0.030000
403.780	18.000	0.030000
408.653	17.965	0.030000
413.527	17.942	0.030000
418.400	17.924	0.030000
423.274	17.932	0.030000
428.147	17.888	0.030000
433.021	17.814	0.030000
437.894	17.750	0.030000
442.768	17.651	0.030000
447.588	17.601	0.030000
452.408	17.635	0.030000
457.228	17.592	0.030000
462.048	17.602	0.030000
466.868	17.710	0.030000
471.688	17.765	0.030000
476.508	17.794	0.030000
481.327	17.774	0.030000
486.147	17.708	0.030000
490.967	17.572	0.030000
495.787	17.356	0.030000
500.607	17.352	0.030000
505.427	17.333	0.030000
510.247	17.370	0.030000
515.067	17.428	0.030000
519.887	17.476	0.030000
524.707	17.483	0.030000
529.558	17.702	0.030000
534.410	17.866	0.030000
539.261	17.943	0.030000
544.113	17.885	0.030000
548.964	17.861	0.030000
553.815	17.875	0.030000
558.667	17.861	0.030000
563.518	17.970	0.030000
568.127	17.938	0.030000
572.737	17.979	0.030000
577.346	17.949	0.030000
581.955	17.857	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

586.800	17.980	0.030000
591.645	18.043	0.030000
596.490	18.015	0.030000
601.336	18.039	0.030000
606.181	18.069	0.030000
611.026	18.077	0.030000
615.871	18.087	0.030000
620.716	18.103	0.030000
625.561	18.119	0.030000
630.406	18.143	0.030000
635.251	18.125	0.030000
639.934	18.108	0.030000
644.617	18.094	0.030000
649.299	18.027	0.030000
653.982	17.840	0.030000
658.665	17.748	0.030000
663.348	17.822	0.030000
668.030	17.929	0.030000
672.713	18.143	0.030000
677.396	18.196	0.030000
682.379	18.149	0.030000
687.362	17.948	0.030000
692.345	17.676	0.030000
697.328	17.432	0.030000
702.311	17.392	0.030000
707.294	17.436	0.030000
712.277	17.452	0.030000
717.260	17.476	0.030000
722.243	17.450	0.030000
727.226	17.348	0.030000
732.209	17.279	0.030000
737.192	17.226	0.030000
742.176	17.047	0.030000
747.159	16.916	0.030000
752.141	16.835	0.030000
757.125	16.693	0.030000
762.108	16.577	0.030000
767.091	16.409	0.030000
772.074	16.276	0.030000
777.057	16.088	0.030000
782.040	15.939	0.030000
787.023	15.838	0.030000
792.006	15.710	0.030000
796.989	15.724	0.030000
801.972	15.687	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

806.955	15.673	0.030000
811.938	15.604	0.030000
816.921	15.627	0.030000
821.904	15.676	0.030000
826.887	15.623	0.030000
831.870	15.586	0.030000
836.853	15.533	0.030000
841.836	15.480	0.030000
846.819	15.548	0.030000
851.802	15.623	0.030000
856.785	15.683	0.030000
861.768	15.689	0.030000
866.751	15.663	0.030000
871.734	15.641	0.030000
876.717	15.607	0.030000
881.701	15.645	0.030000
886.683	15.669	0.030000
891.667	15.653	0.030000
896.650	15.619	0.030000
901.633	15.633	0.030000
906.616	15.591	0.030000
911.599	15.588	0.030000
916.582	15.558	0.030000
921.565	15.470	0.030000
926.548	15.856	0.030000
931.531	15.938	0.030000

Name: XD0200C                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.133	0.030000
4.488	16.862	0.030000
8.976	16.781	0.030000
13.464	16.780	0.030000
17.953	16.750	0.030000
21.680	16.657	0.030000
25.406	16.391	0.030000
29.133	16.430	0.030000
33.992	16.619	0.030000
38.851	16.712	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

43.710	16.657	0.030000
48.353	17.036	0.030000
52.995	17.025	0.030000
57.638	17.195	0.030000
62.280	17.484	0.030000

Name: XD0210C      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.629	0.030000
4.886	15.705	0.030000
9.773	15.749	0.030000
14.659	15.668	0.030000
19.546	15.597	0.030000
24.432	15.559	0.030000
29.318	15.592	0.030000
34.205	15.476	0.030000
39.091	15.491	0.030000
43.978	15.393	0.030000
48.864	15.324	0.030000
53.751	15.332	0.030000
58.637	15.318	0.030000
63.523	15.373	0.030000
68.410	15.307	0.030000
73.296	15.226	0.030000
78.183	15.291	0.030000
83.069	15.342	0.030000
87.955	15.310	0.030000
92.842	15.272	0.030000
97.728	15.295	0.030000
102.615	15.196	0.030000
107.501	15.210	0.030000
112.387	15.295	0.030000
117.274	15.346	0.030000
122.160	15.420	0.030000
127.047	15.451	0.030000
131.933	15.526	0.030000
136.819	15.526	0.030000
141.752	15.472	0.030000
146.684	15.516	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

151.617	15.515	0.030000
156.549	15.459	0.030000
161.482	15.426	0.030000
166.415	15.495	0.030000
171.347	15.521	0.030000
176.280	15.427	0.030000
181.212	15.418	0.030000
186.144	15.384	0.030000
191.077	15.377	0.030000
196.010	15.375	0.030000
200.942	15.376	0.030000
205.875	15.393	0.030000
210.807	15.392	0.030000
215.740	15.353	0.030000
220.672	15.310	0.030000
225.605	15.262	0.030000
230.537	15.238	0.030000
235.470	15.196	0.030000
240.402	15.176	0.030000
245.335	15.129	0.030000
250.267	15.073	0.030000
255.200	14.953	0.030000
260.132	15.065	0.030000
265.065	15.229	0.030000
269.997	15.089	0.030000
274.930	14.971	0.030000
279.862	14.983	0.030000
284.795	15.041	0.030000
289.727	15.152	0.030000
294.660	15.112	0.030000
299.592	15.008	0.030000
304.525	15.134	0.030000
309.457	15.081	0.030000
314.390	15.199	0.030000
318.390	15.195	0.030000
322.390	15.220	0.030000
326.390	15.295	0.030000
330.390	15.382	0.030000
334.390	15.375	0.030000
338.557	15.453	0.030000
342.723	15.430	0.030000
346.890	15.425	0.030000
351.533	15.385	0.030000
356.176	15.298	0.030000
360.818	15.273	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

365.461	15.295	0.030000
370.104	15.405	0.030000
374.747	15.425	0.030000
379.390	15.313	0.030000
384.259	15.264	0.030000
389.128	15.359	0.030000
393.997	15.448	0.030000
398.866	15.437	0.030000
403.735	15.399	0.030000
408.604	15.396	0.030000
413.473	15.339	0.030000
418.342	15.436	0.030000
423.211	15.538	0.030000
428.080	15.614	0.030000
432.949	15.496	0.030000
437.818	15.398	0.030000
442.687	15.351	0.030000
447.556	15.356	0.030000
452.425	15.430	0.030000
457.295	15.442	0.030000
462.164	15.400	0.030000
467.033	15.298	0.030000
471.805	15.285	0.030000
476.578	15.391	0.030000
481.351	15.420	0.030000
486.123	15.429	0.030000
490.896	15.381	0.030000
495.669	15.373	0.030000
500.442	15.394	0.030000
505.214	15.073	0.030000
509.987	15.442	0.030000
514.760	15.433	0.030000
519.533	15.428	0.030000
524.429	15.283	0.030000
529.325	15.082	0.030000
534.221	14.906	0.030000
539.117	14.987	0.030000
544.013	15.100	0.030000
548.909	15.232	0.030000
553.806	15.368	0.030000
558.702	15.302	0.030000
563.598	15.270	0.030000
568.494	15.282	0.030000
573.390	15.390	0.030000
578.286	15.375	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

583.182	15.339	0.030000
588.078	15.359	0.030000
592.975	15.453	0.030000
597.871	15.454	0.030000
602.767	15.611	0.030000
607.663	15.669	0.030000
612.559	15.555	0.030000
617.455	15.400	0.030000
622.351	15.335	0.030000
627.247	15.490	0.030000
632.144	15.537	0.030000
636.945	15.327	0.030000
641.746	15.172	0.030000
646.547	15.122	0.030000
651.348	15.073	0.030000
656.149	15.045	0.030000
660.950	15.175	0.030000
665.751	15.193	0.030000
670.552	15.166	0.030000
675.353	15.265	0.030000
680.154	15.286	0.030000
684.955	15.282	0.030000
689.756	15.211	0.030000
694.557	15.312	0.030000
699.358	15.353	0.030000
704.159	15.376	0.030000
708.960	15.415	0.030000
713.761	15.436	0.030000
718.562	15.442	0.030000
723.363	15.390	0.030000
728.164	15.412	0.030000
732.966	15.465	0.030000
737.766	15.623	0.030000
742.568	15.725	0.030000
747.369	15.836	0.030000
752.170	16.010	0.030000

Name: XD0210D      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	15.938	0.030000
4.669	15.997	0.030000
9.338	16.129	0.030000
14.008	15.927	0.030000
18.677	15.833	0.030000
23.346	15.931	0.030000
28.015	16.068	0.030000
32.360	15.982	0.030000
36.705	15.882	0.030000
41.050	15.905	0.030000
45.394	15.942	0.030000
49.739	15.906	0.030000
54.084	15.997	0.030000
58.429	16.140	0.030000
62.678	16.177	0.030000
66.927	16.187	0.030000
71.177	16.203	0.030000
75.426	16.201	0.030000
79.675	16.137	0.030000
83.924	16.110	0.030000
88.269	16.142	0.030000
92.614	16.131	0.030000
96.959	16.192	0.030000
101.303	16.485	0.030000
105.648	16.482	0.030000
109.993	16.465	0.030000
114.338	16.500	0.030000
118.587	16.553	0.030000
122.836	16.503	0.030000
127.085	16.335	0.030000
131.335	16.155	0.030000
135.584	15.999	0.030000
139.833	16.038	0.030000
144.178	16.067	0.030000
148.523	15.923	0.030000
152.867	15.810	0.030000
157.212	15.892	0.030000
161.557	15.867	0.030000
165.902	15.929	0.030000
170.247	16.072	0.030000
174.496	16.143	0.030000
178.745	16.122	0.030000
182.994	16.157	0.030000
187.244	16.026	0.030000
191.493	16.230	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

195.742	16.291	0.030000
200.087	16.275	0.030000
204.432	16.338	0.030000
208.776	16.309	0.030000
213.121	16.492	0.030000
217.466	16.211	0.030000
221.811	16.127	0.030000
226.156	16.189	0.030000
230.405	16.195	0.030000
234.654	16.123	0.030000
238.903	16.058	0.030000
243.152	16.072	0.030000
247.402	16.232	0.030000
251.651	16.363	0.030000
255.996	16.334	0.030000
260.340	16.320	0.030000
264.685	16.352	0.030000
269.030	16.028	0.030000
273.375	15.776	0.030000
277.720	15.572	0.030000
282.065	15.598	0.030000
286.314	15.827	0.030000
290.563	16.041	0.030000
294.812	16.183	0.030000
299.061	16.160	0.030000
303.310	16.197	0.030000
307.560	16.228	0.030000
311.904	16.122	0.030000
316.249	16.028	0.030000
320.594	16.064	0.030000
324.939	15.971	0.030000
329.284	16.472	0.030000
333.629	16.570	0.030000
337.974	16.412	0.030000
342.223	16.167	0.030000
346.472	16.040	0.030000
350.721	16.350	0.030000
354.970	16.271	0.030000
359.219	16.434	0.030000
363.469	16.591	0.030000
367.813	16.514	0.030000
372.158	16.344	0.030000
376.503	16.295	0.030000
380.848	16.072	0.030000
385.193	15.852	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

389.538	16.063	0.030000
393.882	16.467	0.030000
398.132	16.505	0.030000
402.381	16.274	0.030000
406.630	16.021	0.030000
410.879	15.828	0.030000
415.128	15.675	0.030000
419.378	15.555	0.030000
423.722	15.506	0.030000
428.067	15.574	0.030000
432.412	15.725	0.030000
436.757	15.691	0.030000
441.102	15.678	0.030000
445.447	15.763	0.030000
449.791	15.975	0.030000
454.041	16.122	0.030000
458.290	16.147	0.030000
462.539	16.185	0.030000
466.788	16.200	0.030000
471.037	16.070	0.030000
475.286	15.788	0.030000
479.631	15.623	0.030000
483.976	15.760	0.030000
488.321	15.918	0.030000
492.666	15.820	0.030000
497.011	15.731	0.030000
501.355	15.929	0.030000
505.700	15.904	0.030000
510.303	15.758	0.030000
514.905	15.763	0.030000
519.507	15.760	0.030000
524.109	15.670	0.030000
528.711	15.712	0.030000
533.314	15.830	0.030000
537.916	16.055	0.030000
542.518	16.280	0.030000
547.120	16.523	0.030000
551.723	16.726	0.030000
556.325	17.085	0.030000
560.927	17.423	0.030000
565.625	17.578	0.030000
570.323	17.695	0.030000
575.021	17.893	0.030000
579.719	18.105	0.030000
584.417	18.235	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

589.115	18.065	0.030000
593.812	17.504	0.030000
598.510	16.716	0.030000
602.759	16.003	0.030000
607.009	15.481	0.030000
611.258	15.115	0.030000
616.127	14.989	0.030000
620.996	15.245	0.030000
625.866	15.502	0.030000
630.735	15.629	0.030000

Name: XD0210E                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.010	0.030000
3.436	16.097	0.030000
6.872	16.262	0.030000
10.308	16.382	0.030000
15.212	16.245	0.030000
20.116	16.000	0.030000
25.019	15.735	0.030000
29.923	15.516	0.030000
34.827	15.425	0.030000
39.731	15.362	0.030000
44.635	15.379	0.030000
49.538	15.320	0.030000
54.442	15.254	0.030000
59.346	15.374	0.030000
64.250	15.380	0.030000
69.154	15.377	0.030000
74.058	15.412	0.030000
78.962	15.362	0.030000
83.865	15.266	0.030000
88.769	15.497	0.030000
93.673	15.658	0.030000
98.577	15.741	0.030000
103.481	15.684	0.030000
108.385	15.831	0.030000
113.289	15.938	0.030000
118.192	15.902	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

123.096	15.832	0.030000
128.000	15.861	0.030000
132.904	15.680	0.030000
137.808	15.722	0.030000
142.712	15.819	0.030000
147.616	15.826	0.030000
152.519	15.870	0.030000
157.423	15.863	0.030000
162.327	16.016	0.030000
167.231	15.957	0.030000
172.135	15.976	0.030000
177.039	16.042	0.030000
181.942	16.026	0.030000
186.846	16.064	0.030000
191.750	16.036	0.030000
196.654	16.059	0.030000
201.558	16.060	0.030000
206.462	16.095	0.030000
211.366	16.116	0.030000
216.269	16.125	0.030000
221.173	16.177	0.030000
226.077	16.172	0.030000
230.981	16.215	0.030000
235.885	16.323	0.030000
240.789	16.427	0.030000
245.692	16.325	0.030000
250.596	16.220	0.030000
255.500	16.215	0.030000
260.404	16.206	0.030000
265.308	16.180	0.030000
270.210	16.142	0.030000
275.112	16.103	0.030000
280.014	16.064	0.030000
284.916	16.026	0.030000
289.818	15.987	0.030000
294.719	15.948	0.030000
299.622	15.956	0.030000
304.524	15.989	0.030000
309.425	15.917	0.030000
314.327	15.987	0.030000
319.229	16.167	0.030000
324.131	15.809	0.030000
329.033	15.759	0.030000
333.935	16.041	0.030000
338.837	16.210	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

343.739	16.214	0.030000
348.641	16.025	0.030000
353.543	15.960	0.030000
358.445	16.108	0.030000
363.347	16.204	0.030000
368.249	16.123	0.030000
373.151	16.063	0.030000
378.053	16.341	0.030000
382.955	16.247	0.030000
387.857	15.986	0.030000
392.759	15.987	0.030000
397.661	16.093	0.030000
402.563	16.171	0.030000
407.465	16.004	0.030000
412.367	16.005	0.030000
417.269	15.995	0.030000
422.171	16.032	0.030000
427.072	15.961	0.030000
431.974	15.931	0.030000
436.876	15.965	0.030000
441.778	16.056	0.030000
446.680	16.086	0.030000
451.582	16.296	0.030000
456.484	16.416	0.030000
461.386	16.574	0.030000
466.288	16.785	0.030000
471.190	16.747	0.030000
476.092	16.489	0.030000
480.994	16.313	0.030000
485.896	16.159	0.030000
490.798	16.113	0.030000
495.700	16.086	0.030000
500.602	16.007	0.030000
505.504	16.012	0.030000
510.406	16.053	0.030000
515.308	15.849	0.030000
520.167	15.868	0.030000
525.026	15.982	0.030000
529.885	15.871	0.030000
534.744	15.930	0.030000
539.603	15.828	0.030000
544.462	15.786	0.030000
547.998	15.694	0.030000
551.534	15.672	0.030000
555.069	15.630	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

559.928	15.597	0.030000
564.787	15.729	0.030000
569.646	15.835	0.030000
574.506	15.732	0.030000
579.365	16.090	0.030000
584.224	17.010	0.030000
588.597	17.638	0.030000
592.970	17.525	0.030000
597.342	17.574	0.030000
601.715	17.484	0.030000

Name: XD0220A                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.854	0.030000
4.445	13.569	0.030000
8.890	13.276	0.030000
13.334	12.999	0.030000
17.779	12.830	0.030000
22.224	12.838	0.030000
26.669	12.847	0.030000
31.113	12.855	0.030000
35.558	12.863	0.030000
40.003	12.871	0.030000
44.682	12.871	0.030000
49.360	12.872	0.030000
54.039	12.872	0.030000
58.717	12.872	0.030000
63.396	12.872	0.030000
68.075	12.873	0.030000
72.753	12.873	0.030000
77.432	12.873	0.030000
82.110	12.873	0.030000
86.789	12.874	0.030000
91.467	12.874	0.030000
96.146	12.874	0.030000
100.824	12.874	0.030000
105.503	12.874	0.030000
110.182	12.875	0.030000
114.568	12.875	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

118.954	12.875	0.030000
123.340	12.875	0.030000
127.726	12.876	0.030000
132.112	12.879	0.030000
136.498	12.888	0.030000
140.885	12.901	0.030000
145.271	12.918	0.030000
149.315	12.883	0.030000
153.360	12.897	0.030000
157.404	12.912	0.030000
161.857	12.950	0.030000
166.310	12.987	0.030000
170.763	13.025	0.030000
175.763	13.065	0.030000
180.763	13.106	0.030000
185.763	13.151	0.030000
190.763	13.206	0.030000
195.763	13.264	0.030000
200.763	13.321	0.030000
205.763	13.379	0.030000
210.763	13.437	0.030000
215.763	13.495	0.030000
220.763	13.553	0.030000
225.183	13.600	0.030000
229.602	13.647	0.030000
234.022	13.694	0.030000
238.441	13.742	0.030000
242.861	13.786	0.030000
247.280	13.803	0.030000
251.699	13.819	0.030000
256.119	13.820	0.030000
260.150	13.673	0.030000
264.181	13.411	0.030000
268.212	13.528	0.030000
272.243	13.569	0.030000
276.274	13.590	0.030000
281.251	13.599	0.030000
286.228	13.677	0.030000
291.204	13.775	0.030000
296.181	13.848	0.030000
301.157	13.888	0.030000
306.134	13.898	0.030000
311.111	13.955	0.030000
316.087	14.025	0.030000
321.064	14.083	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

326.040	14.141	0.030000
331.017	14.140	0.030000
335.993	14.060	0.030000
340.970	14.012	0.030000
345.947	13.987	0.030000
350.923	14.015	0.030000
355.900	13.982	0.030000
360.876	13.919	0.030000
365.853	13.868	0.030000
370.830	13.775	0.030000
375.806	13.722	0.030000
380.783	13.691	0.030000
385.759	13.594	0.030000
390.736	13.614	0.030000
395.712	13.663	0.030000
400.689	13.633	0.030000
405.666	13.555	0.030000
410.642	13.536	0.030000
415.619	13.576	0.030000
420.595	13.780	0.030000
425.572	13.894	0.030000
430.548	13.916	0.030000
435.525	14.066	0.030000
440.502	14.103	0.030000
445.478	14.016	0.030000
450.455	14.005	0.030000
455.431	13.959	0.030000
460.408	13.915	0.030000
465.385	13.653	0.030000
470.361	13.364	0.030000
475.338	13.217	0.030000
480.314	13.261	0.030000
485.291	13.273	0.030000
490.267	13.194	0.030000
495.244	13.182	0.030000
500.221	13.089	0.030000
505.197	12.964	0.030000
510.174	12.885	0.030000
515.150	12.886	0.030000
520.127	12.711	0.030000
525.104	12.626	0.030000
530.080	12.569	0.030000
535.057	12.483	0.030000
540.033	12.373	0.030000
545.010	12.129	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

549.986	11.986	0.030000
554.963	11.636	0.030000
559.940	10.772	0.030000
564.916	10.553	0.030000
569.893	11.299	0.030000
574.869	11.600	0.030000
579.846	11.687	0.030000
584.822	11.654	0.030000
589.799	11.581	0.030000
594.776	11.540	0.030000
599.752	11.704	0.030000
604.729	11.880	0.030000
609.705	11.560	0.030000
614.682	11.255	0.030000
619.659	11.184	0.030000
624.635	11.338	0.030000
629.612	11.276	0.030000
634.588	11.196	0.030000
639.565	11.301	0.030000
644.542	11.467	0.030000
649.518	11.524	0.030000
654.495	11.449	0.030000
659.471	11.433	0.030000
664.448	11.053	0.030000
669.424	11.028	0.030000
674.401	11.217	0.030000
679.378	11.687	0.030000
684.354	11.916	0.030000
689.331	11.944	0.030000
694.307	11.887	0.030000
699.284	11.831	0.030000
704.260	11.775	0.030000
709.237	11.720	0.030000
714.214	11.706	0.030000
719.190	12.143	0.030000
724.167	12.474	0.030000
729.143	12.512	0.030000
734.120	12.365	0.030000
739.096	12.173	0.030000
744.073	11.920	0.030000
749.050	11.808	0.030000
754.026	11.694	0.030000
759.003	11.598	0.030000
763.979	11.753	0.030000
768.956	11.909	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

773.933	11.734	0.030000
778.909	11.834	0.030000
783.886	11.901	0.030000
788.862	11.980	0.030000
793.839	12.070	0.030000
798.816	12.160	0.030000
803.792	12.152	0.030000
808.769	12.079	0.030000
813.745	12.015	0.030000
818.722	11.926	0.030000
823.698	11.768	0.030000
828.675	11.390	0.030000
833.652	11.276	0.030000
838.628	11.360	0.030000
843.605	11.470	0.030000
848.581	11.581	0.030000
853.558	11.690	0.030000
858.534	11.733	0.030000
863.511	11.774	0.030000
868.488	11.938	0.030000
872.910	12.261	0.030000
877.333	12.410	0.030000
881.756	12.603	0.030000
886.179	12.801	0.030000
890.602	12.902	0.030000
895.025	12.929	0.030000
899.448	13.040	0.030000
903.871	13.097	0.030000
908.799	13.368	0.030000
913.727	13.563	0.030000
918.654	13.682	0.030000
923.582	13.817	0.030000
928.510	13.932	0.030000
933.438	14.073	0.030000
938.366	14.107	0.030000
943.294	14.065	0.030000
948.222	14.052	0.030000
953.149	14.063	0.030000
957.835	14.097	0.030000
962.520	14.256	0.030000
967.206	14.374	0.030000
971.891	14.449	0.030000
976.577	14.591	0.030000
981.262	14.390	0.030000
985.948	13.640	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

990.633	13.230	0.030000
995.319	13.117	0.030000
1000.004	12.950	0.030000
1004.690	13.029	0.030000

Name: XD0220B      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.366	0.030000
3.994	15.545	0.030000
7.988	15.721	0.030000
11.982	15.590	0.030000
15.977	15.560	0.030000
20.143	15.414	0.030000
24.310	15.141	0.030000
28.477	15.014	0.030000
32.643	15.146	0.030000
36.810	15.197	0.030000
40.977	15.169	0.030000
45.391	15.130	0.030000
49.806	15.164	0.030000
54.220	15.259	0.030000
58.635	15.217	0.030000
63.547	15.163	0.030000
68.458	15.117	0.030000
73.370	15.072	0.030000
78.282	15.026	0.030000
83.194	15.059	0.030000
88.106	15.053	0.030000
93.018	14.949	0.030000
97.930	14.912	0.030000
102.842	14.940	0.030000
107.754	14.970	0.030000
112.666	14.987	0.030000
117.578	15.022	0.030000
122.490	15.014	0.030000
127.402	15.037	0.030000
132.314	15.047	0.030000
137.225	15.038	0.030000
142.137	15.076	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

147.049	15.104	0.030000
151.961	15.075	0.030000
156.873	15.085	0.030000
161.785	15.177	0.030000
166.697	15.263	0.030000
171.609	15.262	0.030000
176.521	15.263	0.030000
181.433	15.329	0.030000
186.345	15.262	0.030000
191.257	15.214	0.030000
196.169	15.275	0.030000
201.081	15.367	0.030000
205.993	15.469	0.030000
210.904	15.519	0.030000
215.816	15.666	0.030000
220.728	15.781	0.030000
225.640	15.758	0.030000
230.552	15.725	0.030000
235.464	15.692	0.030000
240.376	15.653	0.030000
245.288	15.576	0.030000
250.200	15.470	0.030000
255.112	15.453	0.030000
260.024	15.466	0.030000
264.936	15.510	0.030000
269.848	15.511	0.030000
274.760	15.392	0.030000
279.671	15.482	0.030000
284.583	15.440	0.030000
289.495	15.584	0.030000
294.407	15.594	0.030000
299.319	15.622	0.030000
304.231	15.645	0.030000
309.143	15.677	0.030000
314.055	15.704	0.030000

Name: XD0220C      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      16.010      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

4.301	15.991	0.030000
8.601	16.029	0.030000
12.902	16.189	0.030000
17.202	16.152	0.030000
21.503	16.150	0.030000
25.803	16.131	0.030000
30.104	16.095	0.030000
33.437	16.064	0.030000
36.771	16.050	0.030000
40.104	16.032	0.030000
43.831	15.984	0.030000
47.557	15.945	0.030000
51.284	15.926	0.030000
56.284	15.904	0.030000
61.284	15.848	0.030000
66.284	15.748	0.030000
71.013	15.652	0.030000
75.742	15.614	0.030000
80.471	15.597	0.030000
85.200	15.609	0.030000
89.929	15.639	0.030000
94.658	15.595	0.030000
99.387	15.659	0.030000
104.116	15.589	0.030000
107.918	15.556	0.030000
111.720	15.584	0.030000
115.521	15.638	0.030000
119.323	15.682	0.030000
124.050	15.668	0.030000
128.776	15.644	0.030000
133.503	15.646	0.030000
138.229	15.583	0.030000
142.956	15.580	0.030000
147.682	15.587	0.030000
152.409	15.660	0.030000
157.135	15.674	0.030000
161.862	15.644	0.030000
166.588	15.668	0.030000
171.315	15.699	0.030000
176.041	15.687	0.030000
180.768	15.573	0.030000
185.494	15.471	0.030000
190.221	15.381	0.030000
194.947	15.399	0.030000
199.674	15.360	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

203.296	15.342	0.030000
206.917	15.359	0.030000
210.539	15.383	0.030000
214.969	15.357	0.030000
219.398	15.327	0.030000
223.827	15.311	0.030000
228.256	15.305	0.030000
232.593	15.275	0.030000
236.929	15.238	0.030000
241.266	15.351	0.030000
245.602	15.422	0.030000
249.939	15.416	0.030000
254.682	15.360	0.030000
259.426	15.256	0.030000
264.169	15.104	0.030000
268.913	15.095	0.030000
273.656	15.178	0.030000
277.823	15.233	0.030000
281.989	15.246	0.030000
286.156	15.260	0.030000
290.663	15.165	0.030000
295.170	15.060	0.030000
299.515	15.029	0.030000
303.859	15.069	0.030000
308.204	15.092	0.030000
312.549	15.097	0.030000
316.894	15.181	0.030000
321.239	15.338	0.030000
325.584	15.406	0.030000
329.707	15.371	0.030000
333.830	15.337	0.030000
337.953	15.303	0.030000
342.076	15.306	0.030000
346.199	15.314	0.030000
351.199	15.245	0.030000
356.199	15.179	0.030000
361.199	15.198	0.030000
366.199	15.216	0.030000
371.199	15.201	0.030000
376.199	15.124	0.030000
381.199	15.070	0.030000
386.199	15.082	0.030000
390.448	15.069	0.030000
394.697	15.016	0.030000
398.947	14.925	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

403.196	14.955	0.030000
407.445	14.930	0.030000
411.694	14.993	0.030000
415.130	15.084	0.030000
418.566	15.130	0.030000
422.002	15.106	0.030000
425.335	15.160	0.030000
428.669	15.176	0.030000
432.002	15.165	0.030000
435.438	15.108	0.030000
438.874	15.035	0.030000
442.310	14.949	0.030000
447.310	14.878	0.030000
452.310	14.977	0.030000
457.310	15.182	0.030000
462.310	15.215	0.030000
465.643	15.208	0.030000
468.976	15.471	0.030000
472.310	15.366	0.030000
476.036	15.201	0.030000
479.763	15.226	0.030000
483.490	15.242	0.030000
487.835	15.190	0.030000
492.180	15.058	0.030000
496.525	14.999	0.030000
500.869	15.074	0.030000
505.214	15.126	0.030000
509.559	15.161	0.030000
513.904	15.124	0.030000
517.935	15.064	0.030000
521.966	15.090	0.030000
525.997	15.079	0.030000
530.028	15.114	0.030000
534.059	15.031	0.030000
539.059	15.124	0.030000
544.059	15.138	0.030000
548.716	15.160	0.030000
553.373	15.169	0.030000
558.029	15.163	0.030000
562.686	15.170	0.030000
567.342	15.233	0.030000
571.999	15.153	0.030000
576.656	15.011	0.030000
581.156	15.014	0.030000
585.656	15.059	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

590.156	15.107	0.030000
594.656	15.083	0.030000
599.156	15.002	0.030000
602.489	14.945	0.030000
605.822	14.936	0.030000
609.156	14.961	0.030000
613.707	14.964	0.030000
618.258	14.924	0.030000
622.809	14.913	0.030000
627.360	14.944	0.030000
631.911	14.940	0.030000
636.462	14.898	0.030000
641.014	14.857	0.030000
645.565	14.883	0.030000
650.116	14.822	0.030000
654.667	14.825	0.030000
659.218	14.843	0.030000
663.263	14.769	0.030000
667.307	14.693	0.030000
671.351	14.762	0.030000
675.954	14.805	0.030000
680.556	14.868	0.030000
685.158	14.913	0.030000
689.760	14.884	0.030000
694.363	14.974	0.030000
698.316	15.025	0.030000
702.268	14.995	0.030000
706.221	14.970	0.030000
709.555	14.970	0.030000
712.888	14.968	0.030000
716.221	14.955	0.030000
719.555	14.950	0.030000
722.888	14.929	0.030000
726.221	14.916	0.030000
729.555	14.916	0.030000
732.888	14.872	0.030000
736.221	14.874	0.030000
739.555	14.873	0.030000
742.888	14.857	0.030000
746.221	14.855	0.030000
750.388	14.835	0.030000
754.555	14.759	0.030000
758.721	14.782	0.030000
762.888	14.796	0.030000
767.055	14.847	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

771.221	14.878	0.030000
775.709	14.902	0.030000
780.197	14.951	0.030000
784.684	15.019	0.030000
789.234	14.931	0.030000
793.784	14.954	0.030000
798.334	14.987	0.030000
802.884	15.021	0.030000
806.218	15.004	0.030000
809.551	15.009	0.030000
812.884	15.009	0.030000
816.929	15.016	0.030000
820.973	15.009	0.030000
825.018	14.967	0.030000
829.568	14.957	0.030000
834.117	14.984	0.030000
838.667	15.008	0.030000
843.216	14.992	0.030000
847.766	15.039	0.030000
852.315	15.028	0.030000
855.649	14.996	0.030000
858.982	15.053	0.030000
862.315	15.100	0.030000
866.663	15.110	0.030000
871.011	15.084	0.030000
875.359	15.018	0.030000
879.526	14.998	0.030000
883.692	15.071	0.030000
887.859	15.149	0.030000
892.026	15.136	0.030000
896.440	15.085	0.030000
900.855	15.040	0.030000
905.269	15.089	0.030000
909.684	15.099	0.030000
914.234	14.990	0.030000
918.784	14.951	0.030000
923.334	14.936	0.030000
927.884	14.924	0.030000
932.384	14.910	0.030000
936.884	14.880	0.030000
941.384	14.857	0.030000
945.884	14.880	0.030000
950.384	14.826	0.030000
953.717	14.770	0.030000
957.051	14.845	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

960.384	14.907	0.030000
964.111	14.905	0.030000
967.837	14.915	0.030000
971.564	14.962	0.030000
976.052	14.961	0.030000
980.539	14.987	0.030000
985.027	15.036	0.030000
989.637	14.985	0.030000
994.247	14.921	0.030000
998.856	14.995	0.030000
1003.466	15.036	0.030000
1008.076	15.037	0.030000
1012.774	15.044	0.030000
1017.472	15.032	0.030000
1022.170	14.954	0.030000
1026.868	14.896	0.030000
1031.565	14.967	0.030000
1036.263	15.195	0.030000
1040.961	15.317	0.030000
1045.659	15.068	0.030000
1050.357	15.041	0.030000
1055.055	15.005	0.030000
1059.753	14.998	0.030000
1064.451	14.982	0.030000
1069.149	14.976	0.030000
1073.847	14.951	0.030000
1078.545	14.884	0.030000
1083.243	14.868	0.030000
1086.576	14.873	0.030000
1089.909	14.793	0.030000
1093.243	14.689	0.030000
1096.576	14.608	0.030000
1099.909	14.618	0.030000
1103.243	14.630	0.030000
1107.492	14.609	0.030000
1111.741	14.615	0.030000
1115.990	14.672	0.030000
1119.792	14.616	0.030000
1123.593	14.581	0.030000
1127.395	14.569	0.030000
1131.197	14.553	0.030000
1135.364	14.537	0.030000
1139.530	14.505	0.030000
1143.697	14.392	0.030000
1147.864	14.314	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1152.030	14.356	0.030000
1156.197	14.354	0.030000
1160.364	14.352	0.030000
1164.530	14.350	0.030000
1168.697	14.343	0.030000
1172.596	14.284	0.030000
1176.495	14.143	0.030000
1180.393	14.106	0.030000
1184.823	14.091	0.030000
1189.252	14.114	0.030000
1193.681	14.126	0.030000
1198.110	14.217	0.030000
1203.060	14.184	0.030000
1208.010	14.162	0.030000
1212.960	14.227	0.030000
1217.910	14.297	0.030000
1222.859	14.181	0.030000
1227.809	14.132	0.030000
1232.759	14.199	0.030000
1237.709	14.226	0.030000
1242.128	14.084	0.030000
1246.548	14.034	0.030000
1250.967	14.049	0.030000
1255.387	14.041	0.030000
1259.806	14.012	0.030000
1264.225	14.025	0.030000
1268.645	14.097	0.030000
1273.064	14.169	0.030000
1277.071	14.138	0.030000
1281.078	14.076	0.030000
1285.085	13.992	0.030000
1289.092	13.891	0.030000
1293.099	13.915	0.030000
1297.976	13.918	0.030000
1302.853	13.963	0.030000
1307.730	13.953	0.030000
1312.607	13.903	0.030000
1316.651	14.007	0.030000
1320.696	14.295	0.030000
1324.740	14.091	0.030000
1329.304	13.627	0.030000
1333.868	13.380	0.030000
1338.432	13.253	0.030000
1342.996	13.054	0.030000
1347.559	13.029	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XD0230B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.029	0.030000
4.804	13.068	0.030000
9.608	13.120	0.030000
14.413	13.073	0.030000
19.217	13.151	0.030000
24.021	13.313	0.030000
28.826	13.317	0.030000
33.630	13.309	0.030000
38.434	13.197	0.030000
43.168	13.176	0.030000
47.903	13.157	0.030000
52.637	13.207	0.030000
57.372	13.315	0.030000
62.106	13.232	0.030000
66.841	13.278	0.030000
71.575	13.201	0.030000
76.310	13.354	0.030000
81.044	13.447	0.030000
85.778	13.483	0.030000

Name: XD0231A\_1                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	11.117	0.085000
4.905	8.838	0.085000
9.809	7.580	0.085000
14.714	7.280	0.085000
19.619	7.280	0.085000
24.523	7.551	0.085000
29.428	8.232	0.085000
34.333	9.303	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

39.237 10.994 0.085000

Name: XD0231A\_2 Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	13.483	0.085000
4.855	10.903	0.085000
9.710	8.748	0.085000
14.564	7.280	0.085000
19.419	7.280	0.085000
24.274	7.430	0.085000
29.129	8.938	0.085000
33.983	11.925	0.085000
38.838	14.100	0.085000
43.693	14.102	0.085000

Name: XD0240B Group: D  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	19.095	0.030000
4.419	19.087	0.030000
8.839	19.023	0.030000
13.258	19.035	0.030000
17.678	19.120	0.030000
22.376	19.038	0.030000
27.073	19.098	0.030000
31.771	19.081	0.030000
36.469	19.038	0.030000
41.167	19.090	0.030000
45.865	19.110	0.030000
50.563	19.066	0.030000
55.261	19.003	0.030000
59.842	18.959	0.030000
64.423	19.064	0.030000
69.005	19.230	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

73.646	19.117	0.030000
78.287	19.164	0.030000
82.927	19.253	0.030000
87.569	19.290	0.030000
92.210	19.279	0.030000
96.850	19.292	0.030000
101.491	19.302	0.030000
106.132	19.316	0.030000
109.568	19.299	0.030000
113.004	19.284	0.030000
116.440	19.320	0.030000
120.471	19.364	0.030000
124.502	19.328	0.030000
128.534	19.349	0.030000
132.565	19.308	0.030000
136.596	19.213	0.030000
141.325	19.122	0.030000
146.054	19.150	0.030000
150.783	19.149	0.030000
155.512	19.091	0.030000
160.241	19.061	0.030000
164.970	19.094	0.030000
169.699	19.096	0.030000
174.428	19.112	0.030000
178.803	19.035	0.030000
183.178	18.967	0.030000
187.553	18.923	0.030000
191.928	18.902	0.030000
196.303	18.892	0.030000
200.678	18.878	0.030000
205.053	18.841	0.030000
209.428	18.797	0.030000
214.428	18.896	0.030000
219.428	18.807	0.030000
224.428	18.849	0.030000
229.428	18.787	0.030000
233.803	18.744	0.030000
238.178	18.669	0.030000
242.553	18.683	0.030000
246.928	18.700	0.030000
251.511	18.733	0.030000
256.094	18.746	0.030000
260.678	18.643	0.030000
265.261	18.581	0.030000
269.844	18.569	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

274.428	18.586	0.030000
279.011	18.690	0.030000
283.594	18.587	0.030000
288.178	18.538	0.030000
292.761	18.491	0.030000
297.344	18.443	0.030000
301.928	18.430	0.030000
306.928	18.434	0.030000
311.928	18.413	0.030000
315.261	18.380	0.030000
318.594	18.317	0.030000
321.928	18.340	0.030000
325.678	18.342	0.030000
329.428	18.228	0.030000
333.178	18.284	0.030000
336.928	18.283	0.030000
341.781	18.268	0.030000
346.634	18.257	0.030000
351.486	18.222	0.030000
356.339	18.200	0.030000
361.192	18.190	0.030000
366.045	18.185	0.030000
370.898	18.161	0.030000
375.751	18.098	0.030000
380.604	18.062	0.030000
385.457	18.040	0.030000
390.310	18.020	0.030000
395.163	17.979	0.030000
400.016	17.995	0.030000
404.869	17.960	0.030000
409.722	17.989	0.030000
414.575	18.026	0.030000
419.428	17.880	0.030000
424.281	17.873	0.030000
429.134	17.860	0.030000
433.986	17.933	0.030000
438.839	17.829	0.030000
443.692	17.787	0.030000
448.545	17.780	0.030000
453.398	17.771	0.030000
458.251	17.697	0.030000
463.104	17.704	0.030000
467.957	17.735	0.030000
472.810	17.767	0.030000
477.663	17.767	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

482.516	17.689	0.030000
487.369	17.644	0.030000
492.222	17.596	0.030000
497.075	17.635	0.030000
501.928	17.683	0.030000
506.051	17.611	0.030000
510.174	17.549	0.030000
514.297	17.572	0.030000
518.420	17.562	0.030000
522.543	17.589	0.030000
527.111	17.531	0.030000
531.679	17.461	0.030000
536.248	17.507	0.030000
540.816	17.521	0.030000
545.384	17.495	0.030000
549.952	17.462	0.030000
554.520	17.422	0.030000
559.088	17.387	0.030000
563.656	17.337	0.030000
568.224	17.415	0.030000
572.793	17.475	0.030000
576.229	17.412	0.030000
579.664	17.329	0.030000
583.100	17.342	0.030000
586.434	17.282	0.030000
589.767	17.200	0.030000
593.100	17.125	0.030000
597.486	17.123	0.030000
601.873	17.133	0.030000
606.259	17.131	0.030000
610.645	17.078	0.030000
615.031	17.102	0.030000
619.417	16.997	0.030000
623.803	17.086	0.030000
628.189	17.114	0.030000
631.916	17.085	0.030000
635.643	17.128	0.030000
639.370	17.118	0.030000
643.323	17.136	0.030000
647.275	17.035	0.030000
651.228	17.030	0.030000
655.181	17.097	0.030000
658.908	17.135	0.030000
662.635	17.099	0.030000
666.362	16.961	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

670.314	16.934	0.030000
674.267	16.931	0.030000
678.220	16.946	0.030000
682.173	17.051	0.030000
686.422	17.168	0.030000
690.671	17.122	0.030000
694.920	17.047	0.030000
699.170	17.016	0.030000
703.419	17.043	0.030000
707.668	17.014	0.030000
711.917	16.959	0.030000
716.166	16.923	0.030000
720.416	16.907	0.030000
724.665	17.064	0.030000
728.914	17.341	0.030000
733.163	17.483	0.030000
737.330	17.397	0.030000
741.496	17.203	0.030000
745.663	17.070	0.030000
749.830	17.149	0.030000
753.996	17.311	0.030000
758.163	17.404	0.030000
762.286	17.334	0.030000
766.409	17.288	0.030000
770.533	17.294	0.030000
774.656	17.318	0.030000
778.779	17.246	0.030000
783.266	17.253	0.030000
787.754	17.321	0.030000
792.242	17.288	0.030000
796.301	17.312	0.030000
800.360	17.326	0.030000
804.419	17.344	0.030000

-----

Name: XD0240D	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	17.344	0.030000
4.479	17.390	0.030000
8.958	17.335	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

13.003	17.339	0.030000
17.047	17.323	0.030000
21.092	17.282	0.030000
25.341	17.399	0.030000
29.590	17.440	0.030000
33.839	17.386	0.030000
38.088	17.387	0.030000
42.133	17.470	0.030000
46.177	17.578	0.030000
50.222	17.358	0.030000
54.570	17.301	0.030000
58.918	17.313	0.030000
63.266	17.358	0.030000
66.992	17.392	0.030000
70.719	17.314	0.030000
74.446	17.324	0.030000
78.569	17.313	0.030000
82.692	17.289	0.030000
86.815	17.293	0.030000
90.938	17.327	0.030000
95.061	17.361	0.030000
98.788	17.335	0.030000
102.515	17.314	0.030000
106.242	17.314	0.030000
109.678	17.334	0.030000
113.114	17.272	0.030000
116.549	17.238	0.030000
121.549	17.241	0.030000
126.549	17.232	0.030000
130.934	17.212	0.030000
135.318	17.252	0.030000
139.702	17.253	0.030000
144.087	17.153	0.030000
148.471	17.171	0.030000
152.959	17.258	0.030000
157.446	17.175	0.030000
161.934	17.210	0.030000
166.422	17.324	0.030000
170.909	17.412	0.030000
174.345	17.425	0.030000
177.781	17.450	0.030000
181.217	17.494	0.030000
185.248	17.511	0.030000
189.279	17.496	0.030000
193.310	17.569	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

197.342	17.659	0.030000
201.373	17.772	0.030000
205.622	17.837	0.030000
209.871	17.829	0.030000
214.120	17.688	0.030000
218.369	17.653	0.030000
222.619	17.608	0.030000
226.868	17.577	0.030000
231.243	17.509	0.030000
235.618	17.462	0.030000
239.993	17.525	0.030000
244.368	17.551	0.030000
249.026	17.463	0.030000
253.685	17.321	0.030000
258.343	17.258	0.030000
263.002	17.171	0.030000
267.660	17.054	0.030000
272.319	16.922	0.030000
275.755	16.840	0.030000
279.190	16.861	0.030000
282.626	16.914	0.030000
285.960	16.901	0.030000
289.293	16.971	0.030000
292.626	16.984	0.030000
297.156	17.030	0.030000
301.685	16.954	0.030000
306.215	16.963	0.030000
310.744	17.103	0.030000

Name: XD0250B      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.344	0.030000
4.487	17.255	0.030000
8.974	17.206	0.030000
13.461	17.169	0.030000
17.948	17.142	0.030000
22.435	17.154	0.030000
26.922	17.098	0.030000
31.409	17.088	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

36.168	17.017	0.030000
40.928	16.951	0.030000
45.688	16.831	0.030000
50.448	16.725	0.030000
55.448	16.542	0.030000
60.448	16.391	0.030000
64.175	16.373	0.030000
67.901	16.401	0.030000
71.628	16.412	0.030000
75.751	16.414	0.030000
79.874	16.430	0.030000
83.998	16.426	0.030000
88.121	16.446	0.030000
92.244	16.479	0.030000
96.410	16.688	0.030000
100.577	17.086	0.030000
104.744	17.263	0.030000
108.993	17.282	0.030000
113.242	17.295	0.030000
117.491	17.287	0.030000
120.927	17.303	0.030000
124.363	17.333	0.030000
127.799	17.358	0.030000
132.658	17.340	0.030000
137.517	17.317	0.030000
142.376	17.294	0.030000
145.912	17.328	0.030000
149.448	17.319	0.030000
152.983	17.273	0.030000
156.936	17.274	0.030000
160.889	17.261	0.030000
164.842	17.219	0.030000
168.795	17.212	0.030000
173.214	17.166	0.030000
177.633	17.116	0.030000
182.053	17.195	0.030000
186.472	17.060	0.030000
190.892	16.912	0.030000
195.311	16.723	0.030000
199.731	16.595	0.030000
204.150	16.595	0.030000
208.579	16.693	0.030000
213.008	16.751	0.030000
217.117	16.829	0.030000
221.226	16.869	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

225.335	16.950	0.030000
229.444	17.002	0.030000
233.941	17.071	0.030000
238.437	17.118	0.030000
242.933	17.189	0.030000
247.430	17.240	0.030000

-----

Name: XD0260B	Group: D
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	17.240	0.030000
4.947	17.201	0.030000
9.894	17.129	0.030000
14.840	16.998	0.030000
19.787	16.766	0.030000
24.734	16.572	0.030000
29.681	16.390	0.030000
34.628	16.221	0.030000
39.575	16.057	0.030000
44.521	15.893	0.030000
49.468	15.736	0.030000
54.415	15.626	0.030000
59.362	15.551	0.030000
64.309	15.462	0.030000
69.255	15.376	0.030000
74.202	15.300	0.030000
79.149	15.224	0.030000
84.096	15.147	0.030000
89.043	15.071	0.030000
93.990	14.995	0.030000
98.936	14.919	0.030000
103.883	14.943	0.030000
108.830	16.105	0.030000
113.777	18.084	0.030000
118.724	20.111	0.030000
123.670	22.127	0.030000
128.617	24.109	0.030000
133.564	25.617	0.030000
138.511	26.650	0.030000
143.458	27.708	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

148.404	28.770	0.030000
153.351	29.838	0.030000
158.298	30.869	0.030000
163.245	31.928	0.030000
168.192	33.004	0.030000
173.138	34.073	0.030000
178.085	35.133	0.030000
183.032	36.181	0.030000
187.979	37.262	0.030000
192.926	38.327	0.030000
197.873	39.051	0.030000
202.819	39.142	0.030000
207.766	39.166	0.030000
212.713	39.151	0.030000
217.660	39.088	0.030000
222.607	38.992	0.030000
227.553	38.942	0.030000
232.500	38.882	0.030000
237.447	38.824	0.030000
242.394	38.710	0.030000
247.341	38.701	0.030000
252.287	38.608	0.030000
257.234	38.471	0.030000
262.181	38.379	0.030000
267.128	38.295	0.030000
272.075	38.197	0.030000
277.022	38.067	0.030000
281.968	38.011	0.030000
286.915	37.951	0.030000
291.862	37.853	0.030000
296.809	37.728	0.030000
301.756	37.609	0.030000
306.702	37.514	0.030000
311.649	37.433	0.030000
316.596	37.328	0.030000
321.543	37.231	0.030000
326.490	37.131	0.030000
331.437	37.033	0.030000
336.383	36.929	0.030000
341.330	36.832	0.030000
346.277	36.715	0.030000
351.275	36.612	0.030000
356.274	36.571	0.030000
361.272	36.441	0.030000
366.270	36.298	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

371.269	36.187	0.030000
376.267	36.042	0.030000
381.265	36.046	0.030000
386.264	35.910	0.030000
391.262	35.886	0.030000
396.260	35.890	0.030000
401.259	35.763	0.030000
406.257	35.460	0.030000
411.255	35.250	0.030000
416.254	35.164	0.030000
421.252	35.057	0.030000
426.250	34.865	0.030000
431.249	34.685	0.030000
436.247	34.562	0.030000
441.245	34.493	0.030000
446.244	34.402	0.030000
451.242	34.198	0.030000
456.240	34.085	0.030000
461.239	33.993	0.030000
466.237	33.840	0.030000
471.235	33.655	0.030000
476.234	33.548	0.030000
481.232	33.306	0.030000
486.230	33.260	0.030000
491.229	32.822	0.030000
496.227	32.889	0.030000
501.225	32.840	0.030000
506.224	32.637	0.030000
511.222	32.136	0.030000
516.220	31.910	0.030000
521.219	31.869	0.030000
526.217	31.797	0.030000
531.215	31.521	0.030000
536.214	31.600	0.030000
541.212	31.433	0.030000
546.210	31.203	0.030000
551.209	31.070	0.030000
556.207	30.949	0.030000
561.205	30.740	0.030000
566.204	30.494	0.030000
571.202	30.297	0.030000
576.200	30.196	0.030000
581.199	29.979	0.030000
586.197	29.832	0.030000
591.195	29.710	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

596.194	29.446	0.030000
601.192	29.187	0.030000
606.190	28.979	0.030000
611.189	28.834	0.030000
616.187	28.696	0.030000
621.185	28.497	0.030000
626.184	28.327	0.030000
631.182	28.156	0.030000
636.180	27.962	0.030000
641.178	27.751	0.030000
646.177	27.569	0.030000
651.175	27.504	0.030000
656.173	27.275	0.030000
661.172	27.029	0.030000
666.170	26.841	0.030000
671.168	26.625	0.030000
676.167	26.409	0.030000
681.165	26.205	0.030000
686.164	26.153	0.030000
691.162	25.975	0.030000
696.160	25.764	0.030000
701.159	25.557	0.030000
706.157	25.515	0.030000
711.155	25.416	0.030000
716.154	25.084	0.030000
721.152	24.949	0.030000
726.150	25.031	0.030000
731.149	24.758	0.030000
736.147	24.504	0.030000
741.145	24.319	0.030000
746.144	24.155	0.030000
751.142	23.959	0.030000
756.140	23.820	0.030000
761.139	23.697	0.030000
766.137	23.476	0.030000
771.135	23.362	0.030000
776.134	23.261	0.030000
781.132	23.122	0.030000
786.108	23.075	0.030000
791.085	22.844	0.030000
796.061	22.631	0.030000
801.037	22.494	0.030000
806.014	22.413	0.030000
810.990	22.255	0.030000
815.967	22.096	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

820.943	21.980	0.030000
825.919	21.736	0.030000
830.896	21.583	0.030000
835.872	21.601	0.030000
840.848	21.504	0.030000
845.825	21.340	0.030000
850.801	21.156	0.030000
855.778	21.064	0.030000
860.754	21.052	0.030000
865.730	20.901	0.030000
870.707	20.779	0.030000
875.683	20.726	0.030000
880.659	20.631	0.030000
885.636	20.450	0.030000
890.612	20.311	0.030000
895.589	20.255	0.030000
900.565	20.200	0.030000
905.541	20.155	0.030000
910.518	20.080	0.030000
915.494	19.950	0.030000
920.471	19.799	0.030000
925.447	19.715	0.030000
930.423	19.681	0.030000
935.400	19.593	0.030000
940.376	19.546	0.030000
945.352	19.392	0.030000
950.329	19.285	0.030000
955.305	19.212	0.030000
960.282	19.151	0.030000
965.258	19.083	0.030000
970.234	19.018	0.030000
975.211	18.887	0.030000
980.187	18.828	0.030000
985.164	18.805	0.030000
990.140	18.780	0.030000
995.116	18.725	0.030000
1000.093	18.612	0.030000
1005.069	18.497	0.030000
1009.983	18.463	0.030000
1014.896	18.405	0.030000
1019.810	18.412	0.030000
1024.724	18.490	0.030000
1029.637	18.342	0.030000
1034.551	18.266	0.030000
1039.465	18.218	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1044.378	18.150	0.030000
1049.292	18.077	0.030000
1054.206	18.105	0.030000
1059.119	18.048	0.030000
1064.033	17.910	0.030000
1068.946	18.051	0.030000
1073.860	18.054	0.030000
1078.774	17.860	0.030000
1083.687	17.852	0.030000
1088.601	17.859	0.030000
1093.515	17.755	0.030000
1098.428	17.701	0.030000
1103.342	17.781	0.030000
1108.256	17.786	0.030000
1113.169	17.795	0.030000
1118.083	17.725	0.030000
1122.997	17.719	0.030000
1127.910	17.615	0.030000
1132.824	17.719	0.030000
1137.777	17.697	0.030000
1142.731	17.685	0.030000
1147.685	17.656	0.030000
1152.639	17.618	0.030000
1157.592	17.752	0.030000
1162.546	17.616	0.030000
1167.499	17.608	0.030000
1172.453	17.563	0.030000
1177.407	17.570	0.030000
1182.361	17.624	0.030000
1187.314	17.648	0.030000
1192.268	17.742	0.030000
1197.222	17.640	0.030000
1202.175	17.611	0.030000
1207.129	17.717	0.030000
1212.083	17.702	0.030000
1217.036	17.680	0.030000
1221.990	17.732	0.030000
1226.944	17.805	0.030000
1231.897	17.760	0.030000
1236.851	17.737	0.030000
1241.805	17.787	0.030000
1246.758	17.826	0.030000
1251.712	17.868	0.030000
1256.666	17.859	0.030000
1261.620	17.947	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1266.573	18.006	0.030000
1271.527	17.942	0.030000
1276.480	17.875	0.030000
1281.434	17.999	0.030000
1286.388	18.125	0.030000
1291.342	18.142	0.030000
1296.295	18.072	0.030000
1301.249	18.131	0.030000
1306.203	18.152	0.030000
1311.156	18.064	0.030000
1316.110	18.012	0.030000
1321.064	18.017	0.030000
1326.017	18.117	0.030000
1330.961	18.135	0.030000
1335.906	18.092	0.030000
1340.850	18.054	0.030000
1345.794	18.072	0.030000
1350.738	18.083	0.030000
1355.682	18.098	0.030000
1360.626	18.056	0.030000
1365.570	18.100	0.030000
1370.514	18.138	0.030000
1375.458	18.077	0.030000
1380.402	18.086	0.030000
1385.346	18.119	0.030000
1390.290	18.118	0.030000
1395.234	18.044	0.030000
1400.178	18.044	0.030000
1405.122	18.079	0.030000
1410.066	18.091	0.030000
1415.010	18.090	0.030000
1419.954	18.075	0.030000
1424.899	18.064	0.030000
1429.843	18.051	0.030000
1434.787	18.101	0.030000
1439.731	18.086	0.030000
1444.675	18.084	0.030000
1449.619	18.046	0.030000
1454.563	18.080	0.030000
1459.507	18.096	0.030000
1464.451	18.107	0.030000
1469.395	18.134	0.030000
1474.339	18.104	0.030000
1479.283	18.122	0.030000
1484.227	18.176	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1489.171	18.148	0.030000
1494.115	18.137	0.030000
1499.059	18.182	0.030000
1504.003	18.107	0.030000
1508.948	18.237	0.030000
1513.892	18.244	0.030000
1518.836	18.238	0.030000
1523.780	18.191	0.030000
1528.724	18.203	0.030000
1533.668	18.198	0.030000
1538.612	18.189	0.030000
1543.556	18.179	0.030000
1548.500	18.197	0.030000
1553.444	18.166	0.030000
1558.388	18.163	0.030000
1563.332	18.205	0.030000
1568.276	18.220	0.030000
1573.220	18.222	0.030000
1578.164	18.210	0.030000
1583.108	18.227	0.030000
1588.052	18.190	0.030000
1592.996	18.127	0.030000
1597.940	18.067	0.030000
1602.885	18.044	0.030000
1607.829	18.076	0.030000
1612.773	18.088	0.030000
1617.717	18.112	0.030000
1622.661	18.118	0.030000
1627.605	18.127	0.030000
1632.549	18.145	0.030000
1637.493	18.184	0.030000
1642.437	18.194	0.030000
1647.381	18.186	0.030000
1652.325	18.180	0.030000
1657.269	18.120	0.030000
1662.213	18.092	0.030000
1667.157	18.040	0.030000
1672.101	18.059	0.030000
1677.045	18.089	0.030000
1681.989	18.044	0.030000
1686.527	18.026	0.030000
1691.065	18.022	0.030000
1695.603	18.003	0.030000
1700.141	17.961	0.030000
1704.679	17.965	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1709.648	17.961	0.030000
1714.618	18.019	0.030000
1719.588	17.945	0.030000
1724.557	17.946	0.030000
1729.527	17.913	0.030000
1734.496	17.903	0.030000
1739.466	17.887	0.030000
1744.435	17.886	0.030000
1749.405	17.869	0.030000
1754.374	17.857	0.030000
1759.344	17.876	0.030000
1764.313	17.849	0.030000
1769.283	17.795	0.030000
1774.252	17.833	0.030000
1779.222	17.827	0.030000
1784.191	17.781	0.030000
1789.161	17.765	0.030000
1794.131	17.731	0.030000
1799.100	17.740	0.030000
1804.070	17.735	0.030000
1809.039	17.742	0.030000
1814.009	17.731	0.030000
1818.978	17.707	0.030000
1823.948	17.717	0.030000
1828.917	17.678	0.030000
1833.887	17.685	0.030000
1838.856	17.680	0.030000
1843.826	17.644	0.030000
1848.795	17.672	0.030000
1853.765	17.696	0.030000
1858.735	17.669	0.030000
1863.704	17.657	0.030000
1868.674	17.661	0.030000
1873.643	17.618	0.030000
1878.613	17.616	0.030000
1883.582	17.626	0.030000
1888.552	17.637	0.030000
1893.521	17.645	0.030000
1898.491	17.581	0.030000
1903.460	17.606	0.030000
1908.430	17.587	0.030000
1913.400	17.543	0.030000
1918.369	17.543	0.030000
1923.339	17.542	0.030000
1928.308	17.510	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1933.278	17.503	0.030000
1938.247	17.531	0.030000
1943.217	17.597	0.030000
1948.186	17.599	0.030000
1953.156	17.530	0.030000
1958.125	17.598	0.030000
1963.095	17.641	0.030000
1968.064	17.572	0.030000
1973.034	17.548	0.030000
1978.003	17.552	0.030000
1982.973	17.557	0.030000
1987.943	17.590	0.030000
1992.912	17.597	0.030000
1997.882	17.580	0.030000
2002.851	17.604	0.030000

Name: XD0270A                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.642	0.030000
18.586	13.269	0.030000
37.171	13.246	0.030000
55.839	12.772	0.030000
74.534	12.784	0.030000
93.230	12.724	0.030000
112.230	12.667	0.030000
132.145	12.681	0.030000
152.059	12.366	0.030000
171.974	12.534	0.030000
191.888	12.463	0.030000
211.803	12.140	0.030000
231.718	11.841	0.030000
251.632	12.200	0.030000
271.547	12.469	0.030000
291.461	12.279	0.030000
311.376	12.530	0.030000
331.291	12.516	0.030000
351.205	12.776	0.030000
371.120	12.578	0.030000
391.034	12.797	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

410.949	12.634	0.030000
430.863	12.765	0.030000
450.778	12.601	0.030000
470.693	12.685	0.030000
490.607	12.623	0.030000
510.522	12.815	0.030000
530.436	12.823	0.030000
550.351	12.733	0.030000
570.265	12.967	0.030000
590.180	13.379	0.030000
610.095	13.848	0.030000
630.009	13.777	0.030000
649.924	13.975	0.030000
669.838	13.934	0.030000
689.753	13.635	0.030000
709.668	13.406	0.030000
729.582	13.307	0.030000
749.497	13.256	0.030000
769.411	13.228	0.030000
789.326	13.823	0.030000
809.240	13.824	0.030000
829.155	13.707	0.030000
849.069	13.732	0.030000
868.984	13.825	0.030000
888.722	14.107	0.030000
907.931	14.506	0.030000
927.139	14.392	0.030000
946.348	14.725	0.030000
965.556	14.677	0.030000
984.765	14.890	0.030000
1004.518	15.278	0.030000
1024.452	14.933	0.030000
1044.387	14.841	0.030000
1064.322	14.598	0.030000
1084.256	14.311	0.030000
1104.191	14.402	0.030000
1124.126	14.246	0.030000
1144.060	13.889	0.030000
1163.995	13.875	0.030000
1183.930	13.903	0.030000
1203.864	13.891	0.030000
1223.799	13.849	0.030000
1243.734	13.772	0.030000
1263.668	13.824	0.030000
1283.603	13.899	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1303.537	13.962	0.030000
1323.472	14.071	0.030000
1343.407	14.001	0.030000
1363.341	13.979	0.030000
1383.276	14.086	0.030000
1403.211	13.934	0.030000
1422.882	15.666	0.030000
1441.762	15.693	0.030000
1460.642	15.714	0.030000
1479.522	15.686	0.030000
1498.402	15.797	0.030000
1517.931	15.724	0.030000
1537.555	15.698	0.030000
1557.460	15.525	0.030000
1577.183	15.475	0.030000
1596.724	15.444	0.030000
1616.265	15.431	0.030000
1635.806	15.428	0.030000
1655.348	15.426	0.030000
1674.889	15.466	0.030000
1694.430	15.345	0.030000
1713.972	15.450	0.030000
1732.492	15.512	0.030000
1750.703	15.462	0.030000
1769.624	15.601	0.030000
1788.546	15.525	0.030000
1807.468	15.565	0.030000
1826.389	15.614	0.030000
1843.889	15.691	0.030000
1861.389	15.714	0.030000
1881.389	15.748	0.030000
1900.935	15.784	0.030000
1920.480	15.813	0.030000
1940.025	15.809	0.030000
1959.571	15.919	0.030000
1979.116	15.659	0.030000
1998.284	15.715	0.030000
2017.074	15.836	0.030000
2035.944	16.063	0.030000
2054.841	16.026	0.030000
2073.738	16.039	0.030000
2092.635	15.970	0.030000
2111.783	16.033	0.030000
2131.682	16.017	0.030000
2151.581	15.985	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

2171.479	15.849	0.030000
2191.378	15.724	0.030000
2211.277	15.698	0.030000
2231.176	15.692	0.030000
2251.075	15.574	0.030000
2270.974	15.474	0.030000
2290.872	15.356	0.030000
2310.771	15.196	0.030000
2330.670	15.035	0.030000
2350.569	14.702	0.030000
2370.468	14.642	0.030000

Name: XD0270B                      Group: D  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.049	0.030000
4.996	14.037	0.030000
9.992	14.036	0.030000
14.987	14.085	0.030000
19.983	14.023	0.030000
24.979	13.975	0.030000
29.974	14.009	0.030000
34.970	14.023	0.030000
39.966	14.028	0.030000
44.962	13.999	0.030000
49.957	14.045	0.030000
54.953	14.150	0.030000
59.949	14.044	0.030000
64.945	14.044	0.030000
69.940	14.021	0.030000
74.936	13.968	0.030000
79.932	13.990	0.030000
84.928	13.989	0.030000
89.923	13.956	0.030000
94.919	13.890	0.030000
99.915	13.902	0.030000
104.911	13.883	0.030000
109.906	13.859	0.030000
114.902	13.819	0.030000
119.898	13.787	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

124.894	13.783	0.030000
129.889	13.798	0.030000
134.885	13.782	0.030000
139.881	13.777	0.030000
144.876	13.828	0.030000
149.872	13.810	0.030000
154.868	13.775	0.030000
159.864	13.727	0.030000
164.860	13.778	0.030000
169.855	13.756	0.030000
174.851	13.740	0.030000
179.847	13.741	0.030000
184.842	13.702	0.030000
189.838	13.648	0.030000
194.834	13.604	0.030000
199.830	13.612	0.030000
204.825	13.603	0.030000
209.821	13.573	0.030000
214.817	13.545	0.030000
219.813	13.559	0.030000
224.808	13.510	0.030000
229.804	13.497	0.030000
234.800	13.492	0.030000
239.796	13.468	0.030000
244.791	13.446	0.030000
249.787	13.544	0.030000
254.783	13.642	0.030000

Name: XD0280B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.635	0.030000
0.000	14.635	0.030000
4.806	14.895	0.030000
9.611	14.888	0.030000
14.417	14.854	0.030000
19.223	14.738	0.030000
24.028	14.510	0.030000
28.834	14.251	0.030000
33.639	14.059	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

38.445	13.854	0.030000
38.445	15.057	0.030000
42.556	15.051	0.030000
46.666	15.037	0.030000
50.776	14.947	0.030000
54.887	14.897	0.030000
58.997	14.968	0.030000
63.514	15.054	0.030000
68.032	15.028	0.030000
72.549	15.037	0.030000
77.066	15.069	0.030000
81.709	15.134	0.030000
86.352	15.132	0.030000
90.995	15.240	0.030000
95.638	15.232	0.030000
100.281	15.236	0.030000
104.924	15.270	0.030000
109.566	15.232	0.030000
113.816	15.181	0.030000
118.065	15.172	0.030000
122.314	15.142	0.030000
126.563	15.153	0.030000
130.812	15.141	0.030000
135.062	15.141	0.030000
139.975	15.214	0.030000
144.888	15.198	0.030000
149.802	15.125	0.030000
154.716	15.097	0.030000
159.629	15.083	0.030000
164.543	15.097	0.030000
169.456	15.118	0.030000
174.370	15.146	0.030000
179.283	15.118	0.030000
184.197	15.148	0.030000
189.110	15.265	0.030000
194.024	15.229	0.030000
198.274	15.294	0.030000
202.525	15.310	0.030000
206.775	15.326	0.030000
211.026	15.313	0.030000
215.594	15.333	0.030000
220.162	15.379	0.030000
224.730	15.410	0.030000
229.298	15.395	0.030000
233.866	15.424	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

238.435	15.433	0.030000
243.003	15.435	0.030000
247.571	15.493	0.030000
252.139	15.537	0.030000
256.707	15.530	0.030000
261.275	15.531	0.030000
265.398	15.532	0.030000
269.521	15.497	0.030000
273.644	15.464	0.030000
277.767	15.551	0.030000
281.891	15.562	0.030000
285.641	15.537	0.030000
289.391	15.547	0.030000
293.141	15.576	0.030000
296.891	15.616	0.030000
301.891	15.653	0.030000
304.391	15.661	0.030000
306.891	15.627	0.030000
311.362	15.601	0.030000
315.833	15.585	0.030000
320.304	15.541	0.030000
324.776	15.503	0.030000
329.253	15.146	0.030000
333.730	14.426	0.030000
338.207	14.088	0.030000
342.685	14.246	0.030000
347.633	14.121	0.030000
352.582	14.054	0.030000
357.530	13.843	0.030000
361.375	14.005	0.030000
365.220	14.333	0.030000
369.065	14.722	0.030000
372.910	15.006	0.030000
377.890	15.237	0.030000
382.870	15.557	0.030000
387.850	15.717	0.030000
392.830	15.933	0.030000
397.810	16.200	0.030000
402.791	16.386	0.030000
407.771	16.458	0.030000
412.751	16.450	0.030000
417.731	16.451	0.030000
422.711	16.515	0.030000
427.691	16.572	0.030000
432.671	16.585	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

437.651	16.443	0.030000
442.631	16.482	0.030000
447.611	16.520	0.030000
452.592	16.445	0.030000
457.572	16.755	0.030000
462.552	16.617	0.030000
467.532	16.375	0.030000
472.512	16.528	0.030000
477.492	16.563	0.030000
482.472	16.389	0.030000
487.452	16.390	0.030000
492.432	16.282	0.030000
497.412	16.223	0.030000
502.392	15.958	0.030000
507.373	15.870	0.030000
512.353	15.761	0.030000
517.333	15.777	0.030000
522.313	15.206	0.030000
527.293	14.789	0.030000
532.273	14.860	0.030000
537.253	14.698	0.030000
542.233	14.580	0.030000
547.213	14.476	0.030000
552.193	14.436	0.030000
557.173	14.392	0.030000
562.154	14.298	0.030000
567.134	14.199	0.030000
572.114	14.211	0.030000
577.094	14.075	0.030000
582.074	13.889	0.030000
587.054	13.776	0.030000
592.034	13.681	0.030000
597.014	13.444	0.030000
601.994	13.330	0.030000
606.974	13.346	0.030000
611.955	13.420	0.030000
616.935	13.265	0.030000
621.915	13.176	0.030000
626.895	13.280	0.030000
631.875	13.265	0.030000
636.855	13.238	0.030000
641.835	13.188	0.030000
646.815	13.224	0.030000
651.795	13.324	0.030000
656.775	13.431	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

661.755	13.443	0.030000
666.736	13.473	0.030000
671.716	13.455	0.030000
676.696	13.376	0.030000
681.676	13.385	0.030000
686.656	13.364	0.030000
691.636	13.449	0.030000
696.616	13.429	0.030000
701.596	13.435	0.030000
706.576	13.371	0.030000
711.556	13.342	0.030000
716.537	13.358	0.030000
721.516	13.343	0.030000
726.497	13.303	0.030000
731.477	13.287	0.030000
736.457	13.303	0.030000
741.437	13.316	0.030000
746.417	13.368	0.030000
751.397	13.374	0.030000
756.252	13.404	0.030000
761.107	13.482	0.030000
765.962	13.539	0.030000
770.817	13.530	0.030000
775.673	13.513	0.030000
780.528	13.505	0.030000
785.383	13.622	0.030000
790.238	13.755	0.030000
795.093	13.629	0.030000
799.948	13.526	0.030000
804.803	13.750	0.030000
809.658	13.989	0.030000
814.513	14.005	0.030000
819.368	14.158	0.030000
824.223	14.367	0.030000

Name: XD0280C      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.057	0.030000
3.882	15.083	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

7.764	15.149	0.030000
11.646	15.191	0.030000
15.678	15.197	0.030000
19.709	15.244	0.030000
23.740	15.351	0.030000
27.771	15.273	0.030000
31.802	15.351	0.030000
35.135	15.368	0.030000
38.469	15.281	0.030000
41.802	15.226	0.030000
46.802	15.213	0.030000
51.802	15.187	0.030000
55.238	15.193	0.030000
58.674	15.153	0.030000
62.110	15.103	0.030000
65.837	15.071	0.030000
69.563	15.097	0.030000
73.290	15.445	0.030000
78.020	15.742	0.030000
82.751	15.874	0.030000
87.481	15.900	0.030000
92.212	15.788	0.030000
96.942	15.847	0.030000
101.672	15.860	0.030000
106.403	15.827	0.030000
111.133	15.944	0.030000
115.864	16.171	0.030000
120.415	15.933	0.030000
124.966	16.059	0.030000
129.517	16.046	0.030000
134.068	16.023	0.030000
138.619	15.963	0.030000
143.170	15.828	0.030000
147.721	15.756	0.030000
152.273	15.737	0.030000
156.824	15.608	0.030000
161.375	15.917	0.030000
165.926	16.299	0.030000
169.756	16.281	0.030000
173.586	16.525	0.030000
177.417	16.954	0.030000
181.247	17.218	0.030000
186.216	17.386	0.030000
191.185	17.883	0.030000
196.154	18.140	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

201.031	18.141	0.030000
205.908	18.183	0.030000
210.785	18.478	0.030000
215.662	18.659	0.030000
219.706	18.632	0.030000
223.751	18.772	0.030000
227.795	18.911	0.030000
232.283	18.903	0.030000
236.771	18.788	0.030000
241.258	18.592	0.030000
246.001	18.402	0.030000
250.745	18.453	0.030000
255.488	18.504	0.030000
260.232	18.402	0.030000
264.975	18.232	0.030000
268.411	18.030	0.030000
271.847	17.739	0.030000
275.283	17.735	0.030000
280.283	17.675	0.030000
285.283	17.756	0.030000
289.762	17.691	0.030000
294.241	17.667	0.030000
298.720	17.648	0.030000
303.199	17.670	0.030000
307.678	17.663	0.030000
312.157	17.812	0.030000
317.126	17.717	0.030000
322.095	17.759	0.030000
327.064	17.811	0.030000
331.614	17.878	0.030000
336.163	17.936	0.030000
340.713	17.866	0.030000
345.262	17.752	0.030000
349.812	17.608	0.030000
354.361	17.623	0.030000
358.088	17.566	0.030000
361.815	17.286	0.030000
365.542	17.081	0.030000
370.070	16.871	0.030000
374.597	16.734	0.030000
379.125	16.621	0.030000
383.653	16.407	0.030000
388.180	16.542	0.030000
392.931	16.499	0.030000
397.682	16.524	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

402.433	16.565	0.030000
407.183	16.532	0.030000
411.934	16.393	0.030000
416.685	16.503	0.030000
420.637	16.657	0.030000
424.590	16.412	0.030000
428.543	16.225	0.030000
432.496	16.090	0.030000
436.223	15.944	0.030000
439.950	15.983	0.030000
443.676	16.041	0.030000
447.478	15.880	0.030000
451.280	15.743	0.030000
455.082	15.800	0.030000
458.883	15.782	0.030000
462.217	15.861	0.030000
465.550	15.740	0.030000
468.883	15.686	0.030000
472.319	15.719	0.030000
475.755	15.638	0.030000
479.191	15.647	0.030000
483.698	15.575	0.030000
488.205	15.512	0.030000
492.755	15.552	0.030000
497.305	15.483	0.030000
501.855	15.428	0.030000
506.405	15.578	0.030000
509.841	15.696	0.030000
513.277	15.630	0.030000
516.713	15.595	0.030000
520.515	15.731	0.030000
524.316	15.895	0.030000
528.118	15.720	0.030000
531.920	15.485	0.030000
535.647	15.208	0.030000
539.374	15.047	0.030000
543.100	14.975	0.030000
548.100	15.069	0.030000
553.100	15.189	0.030000
557.401	15.063	0.030000
561.701	14.875	0.030000
566.002	14.695	0.030000
570.303	14.573	0.030000
574.603	14.703	0.030000
578.904	14.853	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

583.204	14.947	0.030000
586.538	15.071	0.030000
589.871	15.139	0.030000
593.204	15.187	0.030000
596.538	15.352	0.030000
599.871	15.605	0.030000
603.204	15.619	0.030000
607.006	15.274	0.030000
610.808	15.094	0.030000
614.609	14.991	0.030000
618.411	14.880	0.030000
621.947	14.770	0.030000
625.482	14.659	0.030000
629.018	14.583	0.030000
633.778	14.619	0.030000
638.537	14.668	0.030000
643.297	14.628	0.030000
648.057	14.570	0.030000
652.472	14.491	0.030000
656.886	14.419	0.030000
661.301	14.355	0.030000
665.715	14.631	0.030000
669.964	14.749	0.030000
674.213	14.765	0.030000
678.463	14.895	0.030000
682.712	15.053	0.030000
686.514	15.135	0.030000
690.315	15.218	0.030000
694.117	15.286	0.030000
697.919	15.385	0.030000
702.019	15.469	0.030000
706.119	15.546	0.030000
710.219	15.632	0.030000
714.319	15.726	0.030000
718.419	15.817	0.030000

Name: XD0280D      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      15.704      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

3.783	15.637	0.030000
7.566	15.590	0.030000
11.350	15.693	0.030000
15.133	15.735	0.030000
19.133	15.714	0.030000
23.133	15.657	0.030000
27.133	15.604	0.030000
31.133	15.573	0.030000
35.133	15.566	0.030000
39.684	15.477	0.030000
44.235	15.354	0.030000
48.786	15.214	0.030000
53.337	15.092	0.030000
57.888	14.988	0.030000
62.440	14.881	0.030000
66.991	15.153	0.030000
71.542	15.166	0.030000
76.093	14.908	0.030000
80.644	14.695	0.030000
85.195	14.736	0.030000
89.496	14.754	0.030000
93.796	14.631	0.030000
98.097	14.725	0.030000
102.397	14.783	0.030000
106.698	14.643	0.030000
110.999	14.561	0.030000
115.299	14.503	0.030000
119.787	14.654	0.030000
124.275	14.830	0.030000
128.689	14.810	0.030000
133.104	14.809	0.030000
137.518	14.971	0.030000
141.933	15.177	0.030000
146.099	15.261	0.030000
150.266	15.243	0.030000
154.433	15.181	0.030000
158.985	15.173	0.030000
163.537	15.222	0.030000
168.089	15.155	0.030000
172.641	14.928	0.030000
177.193	14.815	0.030000
181.365	14.665	0.030000
185.537	14.562	0.030000
189.709	14.592	0.030000
193.881	14.536	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

198.690	14.464	0.030000
203.499	14.497	0.030000
208.307	14.560	0.030000
213.116	14.520	0.030000
217.925	14.546	0.030000
222.734	14.575	0.030000
227.543	14.623	0.030000
232.352	14.668	0.030000
237.160	15.010	0.030000
241.969	15.006	0.030000
246.726	15.016	0.030000
251.482	14.998	0.030000
256.239	14.975	0.030000
260.996	14.943	0.030000
265.752	14.909	0.030000
270.509	14.875	0.030000
275.265	14.875	0.030000
280.022	14.888	0.030000
284.778	14.900	0.030000
289.535	14.911	0.030000
293.488	14.876	0.030000
297.441	14.833	0.030000
301.394	14.811	0.030000
305.346	14.818	0.030000
309.834	14.744	0.030000
314.322	14.699	0.030000
318.809	14.687	0.030000
323.297	14.998	0.030000
327.785	15.161	0.030000
331.894	15.083	0.030000
336.003	14.953	0.030000
340.111	14.842	0.030000
344.221	14.736	0.030000
347.947	14.802	0.030000
351.674	14.862	0.030000
355.401	14.854	0.030000
359.889	14.732	0.030000
364.376	14.582	0.030000
368.864	14.466	0.030000
372.895	14.462	0.030000
376.926	14.534	0.030000
380.957	14.910	0.030000
384.988	15.027	0.030000
389.019	15.082	0.030000
392.746	15.081	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

396.473	15.127	0.030000
400.200	15.203	0.030000
404.619	15.224	0.030000
409.039	15.315	0.030000
413.458	15.470	0.030000
417.877	15.441	0.030000
421.313	15.298	0.030000
424.749	15.171	0.030000
428.185	15.081	0.030000
432.771	14.756	0.030000
437.357	14.417	0.030000
441.943	14.145	0.030000
446.529	13.854	0.030000

Name: XD0290B                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.664	0.030000
3.963	17.609	0.030000
7.926	17.598	0.030000
11.888	17.703	0.030000
15.851	17.958	0.030000
20.453	17.820	0.030000
25.056	17.790	0.030000
29.658	17.720	0.030000
34.260	17.767	0.030000
38.862	17.797	0.030000
43.465	17.804	0.030000
48.067	17.825	0.030000
52.669	17.847	0.030000
57.271	17.856	0.030000
61.874	17.910	0.030000
66.476	17.906	0.030000
71.078	17.852	0.030000
76.078	17.863	0.030000
81.078	17.956	0.030000
86.078	18.010	0.030000
88.578	18.019	0.030000
91.078	18.029	0.030000
96.078	18.044	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

98.578	18.052	0.030000
101.078	18.059	0.030000
106.078	18.074	0.030000
111.078	18.090	0.030000
116.078	18.075	0.030000
120.245	18.088	0.030000
124.411	18.132	0.030000
128.578	18.179	0.030000
133.293	18.197	0.030000
138.008	18.179	0.030000
142.723	18.168	0.030000
147.438	18.142	0.030000
152.153	18.082	0.030000
156.868	18.104	0.030000
161.583	18.049	0.030000
166.298	18.043	0.030000
171.013	18.119	0.030000
175.729	18.093	0.030000
180.444	18.082	0.030000
185.159	18.102	0.030000
189.874	18.058	0.030000
194.589	18.099	0.030000
199.304	18.105	0.030000
204.019	18.120	0.030000
208.734	18.189	0.030000
213.317	18.175	0.030000
217.901	18.119	0.030000
222.484	18.154	0.030000
226.948	18.125	0.030000
231.413	18.009	0.030000
235.877	17.998	0.030000
240.341	18.071	0.030000
244.805	18.099	0.030000
249.270	18.139	0.030000
253.734	18.163	0.030000
258.512	18.154	0.030000
263.290	18.117	0.030000
268.068	18.099	0.030000
272.847	18.118	0.030000
277.625	18.115	0.030000
282.403	18.126	0.030000
287.181	18.125	0.030000
291.959	18.056	0.030000
296.737	18.044	0.030000
301.515	18.115	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

306.293	18.125	0.030000
311.072	18.085	0.030000
315.850	18.088	0.030000
320.628	18.081	0.030000
325.406	18.018	0.030000
330.184	17.997	0.030000
334.962	18.135	0.030000
339.741	18.078	0.030000
344.519	18.006	0.030000
349.297	17.993	0.030000
354.075	18.044	0.030000
358.853	18.106	0.030000
362.853	18.078	0.030000
366.853	18.000	0.030000
370.853	17.993	0.030000
374.853	17.994	0.030000
378.853	18.013	0.030000
383.853	18.105	0.030000
388.853	18.104	0.030000
393.853	18.057	0.030000
398.510	18.152	0.030000
403.166	18.220	0.030000
407.823	18.118	0.030000
412.479	17.971	0.030000
417.136	17.988	0.030000
421.793	18.006	0.030000
426.449	17.930	0.030000
431.106	17.912	0.030000
435.762	17.890	0.030000
440.419	17.930	0.030000
445.075	18.008	0.030000
449.732	18.009	0.030000
454.389	18.015	0.030000
459.045	17.972	0.030000
463.212	17.884	0.030000
467.378	17.869	0.030000
471.545	18.049	0.030000
476.188	17.783	0.030000
480.831	17.887	0.030000
485.474	17.841	0.030000
490.116	17.808	0.030000
494.759	17.917	0.030000
499.402	17.951	0.030000
504.045	17.921	0.030000
509.045	17.874	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

514.045	17.907	0.030000
518.565	17.883	0.030000
523.086	17.738	0.030000
527.606	17.663	0.030000
532.126	17.688	0.030000
536.646	17.625	0.030000
541.167	17.683	0.030000
545.687	17.735	0.030000
550.207	17.740	0.030000
554.727	17.660	0.030000
559.248	17.645	0.030000

Name: XD0290C                      Group: D  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.437	0.030000
4.799	14.367	0.030000
9.598	14.465	0.030000
14.397	14.511	0.030000
19.196	14.559	0.030000
23.995	14.619	0.030000
28.794	14.758	0.030000
33.593	14.821	0.030000
38.392	15.049	0.030000
43.191	15.105	0.030000
47.990	15.080	0.030000
52.789	15.055	0.030000
57.588	15.102	0.030000
62.387	15.104	0.030000
67.186	15.084	0.030000
71.985	15.074	0.030000
76.784	15.057	0.030000

Name: XE0010A                      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N



Long Branch BMP Model Results  
Input Data Report Summary

0.000	16.297	0.030000
4.420	16.301	0.030000
8.840	16.322	0.030000
12.567	16.321	0.030000
16.294	16.322	0.030000
20.021	16.322	0.030000
23.457	16.314	0.030000
26.893	16.300	0.030000
30.328	16.282	0.030000
33.764	16.353	0.030000
37.200	16.565	0.030000
40.636	16.644	0.030000
45.220	16.588	0.030000
49.803	16.467	0.030000
54.386	16.281	0.030000
58.970	15.985	0.030000
63.553	15.943	0.030000
68.136	15.952	0.030000
72.511	15.864	0.030000
76.886	15.599	0.030000
81.261	15.440	0.030000
85.636	15.470	0.030000
90.143	15.599	0.030000
94.650	15.612	0.030000
99.650	15.483	0.030000
104.650	15.407	0.030000
109.650	15.775	0.030000
114.650	15.940	0.030000
117.150	16.014	0.030000
119.650	16.087	0.030000
124.157	16.321	0.030000
128.664	16.638	0.030000
132.391	16.828	0.030000
136.118	16.942	0.030000
139.844	16.925	0.030000
143.797	16.767	0.030000
147.750	16.526	0.030000
151.703	16.357	0.030000
155.656	16.211	0.030000
159.609	16.105	0.030000
163.561	16.049	0.030000
167.514	16.048	0.030000
171.467	16.047	0.030000
175.590	16.048	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

179.713	16.054	0.030000
183.836	16.071	0.030000
187.960	16.087	0.030000
192.083	16.104	0.030000
196.036	16.121	0.030000
199.988	16.138	0.030000
203.941	16.173	0.030000
207.894	16.244	0.030000
212.382	16.327	0.030000
216.869	16.358	0.030000
221.357	16.321	0.030000
225.845	16.307	0.030000
230.332	16.429	0.030000
234.820	16.509	0.030000
239.517	16.490	0.030000
244.215	16.505	0.030000
248.912	16.515	0.030000
253.610	16.477	0.030000
258.307	16.361	0.030000
263.005	16.320	0.030000
267.702	16.308	0.030000
272.400	16.280	0.030000
277.097	16.245	0.030000
281.795	16.210	0.030000
286.492	16.179	0.030000
291.190	16.152	0.030000
295.887	16.130	0.030000
300.585	16.118	0.030000
304.483	16.113	0.030000
308.382	16.113	0.030000
312.281	16.152	0.030000
317.158	16.133	0.030000
322.035	16.051	0.030000
326.912	16.156	0.030000
331.789	16.162	0.030000
336.137	16.236	0.030000
340.485	16.203	0.030000
344.833	16.205	0.030000
348.559	16.160	0.030000
352.286	16.030	0.030000
356.013	15.939	0.030000
359.740	15.812	0.030000
363.467	15.607	0.030000
367.193	15.558	0.030000
370.527	15.574	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

373.860	15.554	0.030000
377.193	15.498	0.030000
381.224	15.464	0.030000
385.255	15.462	0.030000
389.287	15.280	0.030000
393.318	15.509	0.030000
397.349	15.601	0.030000
400.785	15.658	0.030000
404.221	15.763	0.030000
407.657	15.921	0.030000
411.093	16.031	0.030000
414.529	16.121	0.030000
417.964	16.164	0.030000
421.400	16.247	0.030000
424.836	16.290	0.030000
428.272	16.337	0.030000
432.171	16.365	0.030000
436.070	16.383	0.030000
439.969	16.190	0.030000
444.398	16.076	0.030000
448.827	16.081	0.030000
452.554	16.101	0.030000
456.281	16.144	0.030000
460.007	16.189	0.030000
464.039	16.193	0.030000
468.070	16.208	0.030000
472.101	16.272	0.030000
476.132	16.294	0.030000
480.163	16.310	0.030000
484.330	16.324	0.030000
488.496	16.404	0.030000
492.663	16.506	0.030000
496.830	16.574	0.030000
500.996	16.641	0.030000
505.163	16.647	0.030000
509.861	16.615	0.030000
514.558	16.584	0.030000
519.255	16.553	0.030000
523.953	16.518	0.030000
528.650	16.478	0.030000
533.348	16.438	0.030000
538.045	16.401	0.030000
542.789	16.212	0.030000
547.532	16.135	0.030000
552.276	16.073	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

557.019	16.117	0.030000
561.763	16.158	0.030000
565.661	16.183	0.030000
569.560	16.252	0.030000
573.459	16.279	0.030000
577.675	16.325	0.030000
581.892	16.362	0.030000
586.108	16.400	0.030000
590.324	16.437	0.030000
594.541	16.474	0.030000
598.889	16.435	0.030000
603.236	16.395	0.030000
607.584	16.355	0.030000
612.072	16.321	0.030000
616.560	16.282	0.030000
621.047	16.208	0.030000
625.704	16.400	0.030000
630.361	16.371	0.030000
635.017	16.425	0.030000
639.674	16.499	0.030000
644.330	16.572	0.030000
648.987	16.639	0.030000
653.643	16.651	0.030000
658.131	16.670	0.030000
662.619	16.676	0.030000
667.106	16.682	0.030000
671.273	16.699	0.030000
675.440	16.614	0.030000
679.606	16.565	0.030000
683.228	16.498	0.030000
686.850	16.445	0.030000
690.472	16.480	0.030000
694.755	16.583	0.030000
699.039	16.589	0.030000
703.322	16.491	0.030000
707.606	16.488	0.030000
711.889	16.536	0.030000
716.173	16.504	0.030000
720.783	16.398	0.030000
725.392	16.382	0.030000
729.142	16.486	0.030000
732.892	16.835	0.030000
736.642	17.104	0.030000
740.392	17.159	0.030000
743.726	17.289	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

747.059	17.184	0.030000
750.392	17.027	0.030000
754.194	16.977	0.030000
757.996	16.925	0.030000
761.798	16.845	0.030000
765.599	16.757	0.030000
769.766	16.662	0.030000
773.933	16.654	0.030000
778.099	16.613	0.030000
782.599	16.604	0.030000
787.099	16.563	0.030000
791.599	16.428	0.030000
796.099	16.366	0.030000
800.599	16.355	0.030000
804.552	16.328	0.030000
808.505	16.296	0.030000
812.458	16.358	0.030000
816.411	16.452	0.030000
820.212	16.492	0.030000
824.014	16.425	0.030000
827.816	16.515	0.030000
831.618	16.549	0.030000
836.618	16.610	0.030000
841.618	16.788	0.030000
846.618	16.906	0.030000
851.618	16.860	0.030000
854.118	16.836	0.030000
856.618	16.831	0.030000
861.618	16.820	0.030000
865.053	16.782	0.030000
868.490	16.744	0.030000
871.925	16.706	0.030000
876.300	16.659	0.030000
880.675	16.611	0.030000
885.050	16.577	0.030000
889.425	16.627	0.030000
893.976	16.506	0.030000
898.525	16.389	0.030000
903.076	16.446	0.030000
907.626	16.455	0.030000
911.657	16.449	0.030000
915.688	16.497	0.030000
919.719	16.578	0.030000
923.750	16.687	0.030000
927.781	16.765	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

931.583	16.801	0.030000
935.385	16.851	0.030000
939.187	16.907	0.030000
942.988	16.942	0.030000
946.424	16.944	0.030000
949.860	16.967	0.030000
953.296	16.962	0.030000
957.740	16.969	0.030000
962.185	16.944	0.030000
966.629	16.918	0.030000
971.074	16.893	0.030000
975.518	16.867	0.030000
979.963	16.842	0.030000
984.407	16.817	0.030000
988.851	16.791	0.030000
993.296	16.766	0.030000
997.249	16.764	0.030000
1001.202	16.713	0.030000
1005.155	16.691	0.030000
1009.628	16.688	0.030000
1014.101	16.689	0.030000
1018.574	16.688	0.030000
1023.047	16.714	0.030000
1027.520	16.606	0.030000
1031.993	16.469	0.030000
1036.466	16.632	0.030000
1040.939	16.831	0.030000
1045.411	16.802	0.030000
1049.962	16.804	0.030000
1054.512	16.735	0.030000
1059.062	16.725	0.030000
1063.612	16.753	0.030000
1068.099	16.744	0.030000
1072.587	16.648	0.030000
1077.075	16.529	0.030000

Name: XE0020B      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      15.506      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

4.286	15.506	0.030000
8.573	15.458	0.030000
12.859	15.491	0.030000
17.145	15.528	0.030000
21.432	15.624	0.030000
25.718	15.659	0.030000
30.004	15.619	0.030000
34.647	15.618	0.030000
39.290	15.728	0.030000
43.933	15.812	0.030000
48.576	15.771	0.030000
53.218	15.837	0.030000
57.861	16.080	0.030000
62.504	16.125	0.030000
66.983	15.999	0.030000
71.462	16.084	0.030000
75.941	16.051	0.030000
80.420	16.040	0.030000
84.899	16.035	0.030000
89.378	16.002	0.030000
93.857	16.000	0.030000
98.336	16.029	0.030000
102.816	16.017	0.030000
107.322	16.050	0.030000
111.829	16.097	0.030000
115.163	16.110	0.030000
118.496	16.156	0.030000
121.829	16.188	0.030000
125.579	16.215	0.030000
129.329	16.233	0.030000
133.079	16.234	0.030000
136.829	16.239	0.030000
140.579	16.263	0.030000
144.329	16.322	0.030000
148.079	16.272	0.030000
151.829	16.312	0.030000
156.527	16.289	0.030000
161.224	16.217	0.030000
165.922	16.240	0.030000
170.619	16.286	0.030000
175.317	16.281	0.030000
180.014	16.242	0.030000
184.712	16.178	0.030000
189.295	16.213	0.030000
193.878	16.116	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

198.462	16.081	0.030000
203.045	16.063	0.030000
207.628	16.165	0.030000
212.212	16.147	0.030000
217.212	16.089	0.030000
222.212	16.169	0.030000
227.212	16.173	0.030000
229.712	16.135	0.030000
232.212	16.131	0.030000
237.212	16.154	0.030000
242.212	16.165	0.030000
247.212	16.214	0.030000
252.212	16.233	0.030000
254.712	16.186	0.030000
257.212	16.211	0.030000
262.040	16.170	0.030000
266.868	16.103	0.030000
271.697	16.153	0.030000
276.525	16.239	0.030000
281.354	16.286	0.030000
286.182	16.286	0.030000
291.010	16.243	0.030000
295.839	16.272	0.030000
300.667	16.269	0.030000
305.495	16.263	0.030000
310.324	16.270	0.030000
315.152	16.297	0.030000
319.980	16.267	0.030000
324.809	16.315	0.030000
329.637	16.317	0.030000
334.465	16.271	0.030000
339.294	16.273	0.030000
344.122	16.244	0.030000
348.950	16.284	0.030000
353.779	16.288	0.030000
358.607	16.349	0.030000
363.435	16.310	0.030000
368.264	16.369	0.030000
373.092	16.398	0.030000
377.921	16.373	0.030000
382.749	16.332	0.030000
387.577	16.324	0.030000
392.406	16.348	0.030000
397.234	16.388	0.030000
401.036	16.388	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

404.837	16.338	0.030000
408.639	16.297	0.030000
412.441	16.387	0.030000
415.877	16.483	0.030000
419.313	16.548	0.030000
422.749	16.529	0.030000

Name: XE0030A      Group: E  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	12.926	0.030000
4.708	12.813	0.030000
9.416	12.752	0.030000
14.124	12.430	0.030000
18.831	12.101	0.030000
23.539	12.049	0.030000
27.992	11.676	0.030000
32.445	10.590	0.030000
36.898	9.656	0.030000
41.352	10.355	0.030000
45.805	10.780	0.030000
50.258	11.205	0.030000
54.711	11.584	0.030000
59.164	12.005	0.030000
63.617	12.442	0.030000
67.866	12.709	0.030000
72.116	12.597	0.030000
76.365	12.122	0.030000
80.614	12.422	0.030000
84.863	12.658	0.030000
89.112	12.856	0.030000
93.959	13.017	0.030000
98.805	12.948	0.030000
103.651	12.957	0.030000
108.497	13.061	0.030000
113.344	12.895	0.030000
118.190	12.669	0.030000
123.036	12.347	0.030000
127.882	12.237	0.030000
132.729	12.360	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

137.575	12.551	0.030000
142.421	12.741	0.030000
147.268	12.931	0.030000
152.114	13.132	0.030000
156.960	13.413	0.030000
161.806	13.521	0.030000
166.653	13.566	0.030000
171.499	13.590	0.030000
176.345	13.754	0.030000
181.191	13.926	0.030000
186.038	14.088	0.030000
190.884	14.231	0.030000
195.730	14.372	0.030000
200.577	14.512	0.030000
205.423	14.633	0.030000
210.269	14.491	0.030000
215.115	14.198	0.030000
219.962	13.881	0.030000
224.808	13.678	0.030000
229.654	13.669	0.030000
234.500	13.758	0.030000
239.347	13.853	0.030000
244.193	13.948	0.030000
248.916	14.034	0.030000
253.638	14.156	0.030000
258.361	14.131	0.030000
263.084	13.741	0.030000
267.807	13.316	0.030000
272.529	12.907	0.030000
277.252	12.646	0.030000
281.975	12.402	0.030000
286.697	12.228	0.030000
291.420	12.329	0.030000
296.143	12.745	0.030000
300.866	12.720	0.030000
305.766	12.600	0.030000
310.666	12.531	0.030000
315.566	12.467	0.030000
320.466	12.453	0.030000
325.366	12.729	0.030000
330.266	12.926	0.030000
335.166	12.739	0.030000
340.066	12.617	0.030000
344.966	12.696	0.030000
349.866	13.185	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

354.766	13.104	0.030000
359.666	13.157	0.030000
364.566	12.915	0.030000
369.466	12.817	0.030000
374.366	12.530	0.030000
379.266	12.260	0.030000
384.166	12.126	0.030000
389.066	12.116	0.030000
393.966	12.160	0.030000
398.866	12.182	0.030000
403.766	12.132	0.030000
408.666	12.100	0.030000
413.567	12.135	0.030000
418.467	12.150	0.030000
423.366	12.363	0.030000
428.267	12.601	0.030000
433.167	12.521	0.030000
438.067	12.470	0.030000
442.967	12.430	0.030000
447.867	12.432	0.030000
452.767	12.448	0.030000
457.667	12.374	0.030000
462.567	12.464	0.030000
467.368	12.580	0.030000
472.169	12.702	0.030000
476.970	12.648	0.030000
481.771	12.543	0.030000
486.572	12.555	0.030000
491.373	12.530	0.030000
496.174	12.535	0.030000
500.975	12.599	0.030000
505.776	12.290	0.030000
510.577	12.670	0.030000
515.378	13.295	0.030000
520.179	13.801	0.030000
524.980	13.538	0.030000
529.781	13.145	0.030000
534.582	12.745	0.030000
539.383	12.682	0.030000
544.184	12.774	0.030000
548.986	12.632	0.030000
553.787	12.651	0.030000
558.588	12.910	0.030000
563.389	12.832	0.030000
568.190	12.713	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

572.991	12.768	0.030000
577.792	12.849	0.030000
582.593	13.019	0.030000
587.434	13.250	0.030000
592.276	13.395	0.030000
597.117	13.502	0.030000
601.958	13.690	0.030000
606.800	13.826	0.030000
611.641	13.767	0.030000
616.483	13.820	0.030000
621.324	13.953	0.030000
626.165	14.108	0.030000
631.007	13.676	0.030000
635.848	13.646	0.030000
640.690	13.941	0.030000
645.531	13.563	0.030000
650.372	13.768	0.030000
655.214	13.816	0.030000
660.055	13.854	0.030000
664.897	14.414	0.030000
669.738	14.433	0.030000
674.579	14.376	0.030000
679.421	14.330	0.030000
684.262	14.544	0.030000
689.104	14.451	0.030000
693.945	14.282	0.030000
698.786	14.436	0.030000
703.628	14.567	0.030000
708.469	14.616	0.030000
713.311	14.643	0.030000
718.152	14.509	0.030000
722.993	14.380	0.030000
727.835	14.443	0.030000
732.676	14.459	0.030000
737.498	14.302	0.030000
742.321	14.225	0.030000
747.143	13.835	0.030000
751.965	13.237	0.030000
756.787	13.501	0.030000
761.610	13.964	0.030000
766.432	13.906	0.030000
771.254	13.549	0.030000
776.076	13.537	0.030000
780.899	13.868	0.030000
785.721	14.184	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

790.543	13.886	0.030000
795.365	13.312	0.030000
800.188	13.586	0.030000
805.010	13.645	0.030000
809.832	13.759	0.030000
814.654	13.823	0.030000
819.477	13.986	0.030000
824.299	13.839	0.030000
829.121	13.708	0.030000
833.943	13.998	0.030000
838.766	13.761	0.030000
843.588	13.768	0.030000
848.410	13.714	0.030000
853.232	13.630	0.030000
858.055	13.962	0.030000
862.877	14.494	0.030000
867.699	14.790	0.030000

Name: XE0030B      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.506	0.030000
4.517	15.482	0.030000
9.035	15.422	0.030000
13.552	15.436	0.030000
18.069	15.384	0.030000
22.879	15.434	0.030000
27.689	15.459	0.030000
32.499	15.408	0.030000
37.308	15.407	0.030000
42.118	15.398	0.030000
46.928	15.407	0.030000
51.738	15.365	0.030000
56.547	15.371	0.030000
61.357	15.418	0.030000
66.167	15.396	0.030000
70.977	15.377	0.030000
75.786	15.408	0.030000
80.072	15.394	0.030000
84.358	15.388	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

88.643	15.489	0.030000
92.929	15.346	0.030000
97.215	15.301	0.030000
101.501	15.372	0.030000
105.786	15.423	0.030000
110.786	15.368	0.030000
115.786	15.315	0.030000
119.953	15.368	0.030000
124.120	15.439	0.030000
128.286	15.355	0.030000
132.453	15.295	0.030000
136.620	15.327	0.030000
140.786	15.365	0.030000
145.312	15.356	0.030000
149.837	15.327	0.030000
154.362	15.313	0.030000
158.888	15.242	0.030000
163.413	15.190	0.030000
167.939	15.183	0.030000
172.464	15.126	0.030000
177.436	15.126	0.030000
182.408	15.143	0.030000
187.381	15.123	0.030000
192.353	15.116	0.030000
197.325	15.087	0.030000
202.297	15.099	0.030000
207.269	15.003	0.030000
212.241	14.938	0.030000
217.214	14.972	0.030000
222.186	14.884	0.030000
227.158	14.851	0.030000
232.130	15.019	0.030000
237.102	14.959	0.030000
242.075	14.877	0.030000
247.047	14.843	0.030000
252.019	14.792	0.030000
256.991	14.727	0.030000
261.963	14.723	0.030000
266.935	14.680	0.030000
271.908	14.643	0.030000
276.880	14.611	0.030000
281.852	14.594	0.030000
286.824	14.611	0.030000
291.796	14.572	0.030000
296.769	14.583	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

301.741	14.541	0.030000
306.713	14.518	0.030000
311.685	14.559	0.030000
316.657	14.622	0.030000
321.630	14.562	0.030000
326.602	14.570	0.030000
331.574	14.503	0.030000
336.546	14.439	0.030000
341.518	14.455	0.030000
346.491	14.508	0.030000
351.463	14.555	0.030000
356.435	14.508	0.030000
361.407	14.460	0.030000
366.379	14.437	0.030000
371.351	14.437	0.030000
376.324	14.408	0.030000
381.296	14.395	0.030000
386.268	14.457	0.030000
391.240	14.474	0.030000
396.212	14.401	0.030000
401.185	14.356	0.030000
406.157	14.349	0.030000
411.129	14.261	0.030000
416.101	14.269	0.030000
421.073	14.252	0.030000
426.046	14.205	0.030000
431.018	14.252	0.030000
435.990	14.193	0.030000
440.962	14.192	0.030000
445.934	14.205	0.030000
450.907	14.147	0.030000
455.879	14.092	0.030000
460.851	14.020	0.030000
465.823	13.996	0.030000
470.795	14.024	0.030000
475.767	13.963	0.030000
480.740	13.824	0.030000
485.712	13.748	0.030000
490.684	13.695	0.030000
495.656	13.615	0.030000
500.628	13.570	0.030000
505.601	13.587	0.030000
510.573	13.602	0.030000
515.545	13.559	0.030000
520.517	13.506	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

525.489	13.462	0.030000
530.462	13.370	0.030000
535.434	13.296	0.030000
540.406	13.257	0.030000
545.378	13.209	0.030000
550.350	13.147	0.030000
555.323	13.178	0.030000
560.295	13.150	0.030000
565.267	13.048	0.030000
570.239	12.995	0.030000
575.211	12.961	0.030000
580.183	12.926	0.030000

-----

Name: XE0030C	Group: E
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	16.297	0.030000
3.547	16.275	0.030000
7.095	16.299	0.030000
10.642	16.316	0.030000
15.191	16.214	0.030000
19.740	16.071	0.030000
24.289	16.064	0.030000
28.837	16.080	0.030000
33.386	16.073	0.030000
37.935	16.064	0.030000
42.484	16.069	0.030000
47.339	16.082	0.030000
52.193	16.091	0.030000
57.048	16.067	0.030000
61.902	16.025	0.030000
66.757	16.030	0.030000
71.612	15.994	0.030000
76.466	15.951	0.030000
81.321	16.052	0.030000
86.175	16.048	0.030000
91.030	16.031	0.030000
95.885	16.005	0.030000
100.739	15.978	0.030000
105.594	15.952	0.030000

-----



Long Branch BMP Model Results  
Input Data Report Summary

110.448	15.927	0.030000
115.303	15.906	0.030000
120.158	15.885	0.030000
125.012	15.864	0.030000
129.867	15.842	0.030000
134.721	15.788	0.030000
139.576	15.768	0.030000
144.430	15.845	0.030000
149.285	15.814	0.030000
154.140	15.870	0.030000
158.994	15.877	0.030000
163.849	15.862	0.030000
168.703	15.845	0.030000
173.558	15.829	0.030000
178.413	15.812	0.030000
183.267	15.800	0.030000
188.122	15.791	0.030000
192.976	15.787	0.030000
197.831	15.769	0.030000
202.686	15.977	0.030000
207.540	16.105	0.030000
212.321	15.892	0.030000
217.103	15.771	0.030000
221.884	15.718	0.030000
226.665	15.669	0.030000
231.446	15.623	0.030000
236.227	15.577	0.030000
241.008	15.532	0.030000
245.790	15.517	0.030000
250.571	15.363	0.030000
255.352	15.243	0.030000
260.133	15.277	0.030000
264.914	15.644	0.030000
269.695	15.975	0.030000
274.476	16.064	0.030000
279.258	16.105	0.030000
284.039	16.273	0.030000
288.820	16.525	0.030000
293.249	16.653	0.030000
297.678	16.366	0.030000
301.685	16.310	0.030000
305.692	15.657	0.030000
309.699	15.380	0.030000
313.706	15.280	0.030000
317.713	15.359	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

322.538	15.325	0.030000
327.363	15.142	0.030000
332.187	15.108	0.030000
337.012	15.113	0.030000
341.837	15.149	0.030000
346.661	15.162	0.030000
351.486	15.175	0.030000
355.776	14.996	0.030000
360.066	15.194	0.030000
364.356	15.247	0.030000
367.747	15.179	0.030000
371.137	15.162	0.030000
374.528	15.182	0.030000
378.777	15.091	0.030000
383.026	15.033	0.030000
387.276	15.115	0.030000
391.525	15.182	0.030000
395.691	15.151	0.030000
399.858	15.133	0.030000
404.025	15.072	0.030000
408.191	15.154	0.030000
412.358	15.211	0.030000
416.525	15.203	0.030000
420.326	15.222	0.030000
424.128	15.146	0.030000
427.930	15.297	0.030000
431.732	15.385	0.030000
436.080	15.404	0.030000
440.427	15.450	0.030000
444.775	15.415	0.030000
449.373	15.480	0.030000
453.971	15.506	0.030000

-----

Name: XE0030D	Group: E
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	16.058	0.030000
4.883	15.860	0.030000
9.766	15.765	0.030000
14.649	15.739	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

19.532	15.685	0.030000
24.415	15.695	0.030000
29.298	15.712	0.030000
34.181	15.742	0.030000
39.064	15.772	0.030000
43.947	15.666	0.030000
48.830	15.560	0.030000
53.713	15.455	0.030000
58.596	15.350	0.030000
63.479	15.255	0.030000
68.362	15.234	0.030000
73.245	15.671	0.030000
78.128	15.687	0.030000
83.011	15.547	0.030000
87.894	15.495	0.030000
92.777	15.463	0.030000
97.760	15.456	0.030000
102.744	15.458	0.030000
107.727	15.460	0.030000
112.711	15.461	0.030000
117.694	15.467	0.030000
122.678	15.473	0.030000
127.661	15.498	0.030000
132.644	15.559	0.030000
137.628	15.566	0.030000
142.611	15.564	0.030000
147.595	15.564	0.030000
152.578	15.564	0.030000
157.562	15.563	0.030000
162.545	15.527	0.030000
167.528	15.474	0.030000
172.512	15.420	0.030000
177.495	15.390	0.030000
182.479	15.390	0.030000
187.462	15.444	0.030000
192.446	15.378	0.030000
197.429	15.488	0.030000
202.412	15.594	0.030000
207.396	15.614	0.030000
212.379	15.578	0.030000
217.363	15.535	0.030000
222.346	15.479	0.030000
227.329	15.415	0.030000
232.313	15.338	0.030000
237.296	15.271	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

242.280	15.271	0.030000
247.263	15.285	0.030000
252.247	15.289	0.030000
257.230	15.336	0.030000
262.213	15.337	0.030000
267.197	15.308	0.030000
272.180	15.277	0.030000
277.164	15.248	0.030000
282.147	15.218	0.030000
287.130	15.190	0.030000
292.114	15.161	0.030000
297.097	15.134	0.030000
302.081	15.139	0.030000
307.064	15.060	0.030000
312.048	15.283	0.030000
317.031	15.486	0.030000
322.014	15.579	0.030000
326.998	15.648	0.030000
331.981	15.713	0.030000
336.965	15.719	0.030000
341.948	15.654	0.030000
346.932	15.576	0.030000
351.915	15.501	0.030000
356.898	15.415	0.030000
361.882	15.357	0.030000
366.865	15.405	0.030000
371.849	15.426	0.030000
376.832	15.413	0.030000
381.815	15.402	0.030000
386.799	15.393	0.030000
391.782	15.383	0.030000
396.766	15.378	0.030000
401.749	15.377	0.030000
406.733	15.377	0.030000
411.716	15.378	0.030000
416.699	15.379	0.030000
421.683	15.320	0.030000
426.666	15.236	0.030000
431.650	15.301	0.030000
436.633	15.461	0.030000
441.616	15.629	0.030000
446.600	15.801	0.030000
451.583	15.974	0.030000
456.567	16.079	0.030000
461.550	16.061	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

466.534	15.991	0.030000
471.517	15.921	0.030000
476.500	15.868	0.030000
481.484	15.833	0.030000
486.467	15.888	0.030000
491.451	15.966	0.030000
496.434	15.992	0.030000
501.418	16.020	0.030000
506.401	16.058	0.030000
511.190	16.096	0.030000
515.980	16.135	0.030000
520.769	16.178	0.030000
525.558	16.222	0.030000
530.347	16.266	0.030000
535.136	16.310	0.030000
539.926	16.344	0.030000
544.715	16.363	0.030000
549.504	16.368	0.030000
554.293	16.119	0.030000
559.083	16.149	0.030000
563.872	16.170	0.030000
568.661	16.191	0.030000
573.450	16.212	0.030000
578.240	16.233	0.030000
583.029	16.254	0.030000
587.818	16.276	0.030000
592.607	16.297	0.030000

Name: XE0040B                      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	8.276	0.030000
4.979	7.980	0.030000
9.957	7.989	0.030000
14.936	7.893	0.030000
19.915	7.932	0.030000
24.893	7.987	0.030000
29.872	7.843	0.030000
34.850	7.879	0.030000
39.829	7.998	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

44.808	8.137	0.030000
49.786	8.115	0.030000
54.765	8.207	0.030000
59.744	8.028	0.030000
64.722	7.961	0.030000
69.701	7.788	0.030000
74.680	7.726	0.030000
79.658	7.410	0.030000
84.637	6.838	0.030000
89.616	6.878	0.030000
94.594	7.123	0.030000
99.573	6.951	0.030000
104.552	7.322	0.030000
109.530	7.482	0.030000
114.509	7.803	0.030000
119.487	7.572	0.030000
124.466	7.601	0.030000
129.445	7.959	0.030000
134.423	8.275	0.030000
139.129	8.117	0.030000
143.834	7.934	0.030000
148.539	7.543	0.030000
153.245	7.661	0.030000
157.950	7.524	0.030000
162.655	7.455	0.030000
167.361	7.638	0.030000
172.066	7.845	0.030000
176.771	7.937	0.030000
181.476	8.130	0.030000
186.182	8.556	0.030000
191.099	8.511	0.030000
196.016	8.377	0.030000
200.933	8.588	0.030000
205.850	8.658	0.030000
210.767	8.547	0.030000
215.684	8.409	0.030000
220.601	8.513	0.030000
225.518	8.503	0.030000
230.435	8.789	0.030000
235.352	8.786	0.030000
240.270	8.834	0.030000
245.187	9.040	0.030000
250.104	8.980	0.030000
255.021	8.877	0.030000
259.938	9.010	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

264.855	9.212	0.030000
269.772	9.591	0.030000
274.689	9.466	0.030000
279.606	9.436	0.030000
284.523	9.508	0.030000
289.440	9.495	0.030000
294.358	9.574	0.030000
299.274	9.770	0.030000
304.192	9.941	0.030000
309.109	10.018	0.030000
314.026	9.973	0.030000
318.943	9.795	0.030000
323.860	9.564	0.030000
328.777	9.449	0.030000
333.694	9.414	0.030000
338.611	9.512	0.030000
343.528	9.716	0.030000
348.445	9.827	0.030000
353.362	9.884	0.030000
358.279	9.945	0.030000
363.197	9.971	0.030000
368.114	10.084	0.030000
373.031	10.137	0.030000
377.948	9.980	0.030000
382.865	9.752	0.030000
387.782	9.606	0.030000
392.699	9.754	0.030000
397.616	9.847	0.030000
402.533	9.883	0.030000
407.450	9.937	0.030000
412.367	9.915	0.030000
417.284	9.715	0.030000
422.201	9.671	0.030000
427.118	9.808	0.030000
432.036	9.775	0.030000
436.993	9.698	0.030000
441.951	9.990	0.030000
446.909	10.210	0.030000
451.867	10.269	0.030000
456.825	9.925	0.030000
461.783	10.305	0.030000
466.741	10.408	0.030000
471.699	10.438	0.030000
476.656	10.464	0.030000
481.614	10.259	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

486.572	10.382	0.030000
491.530	10.268	0.030000
496.488	10.640	0.030000
501.446	10.469	0.030000
506.404	10.502	0.030000
511.362	10.701	0.030000
516.319	10.941	0.030000
521.277	11.023	0.030000
526.235	10.954	0.030000
531.193	10.697	0.030000
536.151	10.750	0.030000
541.109	10.708	0.030000
546.067	10.807	0.030000
551.025	10.552	0.030000
555.982	10.521	0.030000
560.940	10.625	0.030000
565.898	10.738	0.030000
570.856	10.669	0.030000
575.814	10.568	0.030000
580.772	10.806	0.030000
585.730	10.815	0.030000
590.688	10.700	0.030000
595.645	10.589	0.030000
600.603	10.915	0.030000
605.561	10.925	0.030000
610.519	10.867	0.030000
615.477	10.846	0.030000
620.435	10.860	0.030000
625.393	10.483	0.030000
630.351	10.624	0.030000
635.308	10.838	0.030000
640.266	10.799	0.030000
645.224	10.609	0.030000
650.182	10.945	0.030000
655.140	10.830	0.030000
660.098	10.782	0.030000
665.056	10.687	0.030000
670.014	10.985	0.030000
674.971	10.839	0.030000
679.929	10.816	0.030000
684.887	10.703	0.030000
689.845	10.615	0.030000
694.803	10.582	0.030000
699.761	10.665	0.030000
704.719	10.900	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

709.677	11.117	0.030000
714.635	11.231	0.030000
719.592	11.367	0.030000
724.550	11.506	0.030000
729.508	11.548	0.030000
734.466	11.407	0.030000
739.424	11.149	0.030000
744.382	11.045	0.030000
749.340	11.014	0.030000
754.298	11.070	0.030000
759.255	11.124	0.030000
764.213	11.150	0.030000
769.171	11.192	0.030000
774.129	11.255	0.030000
779.087	11.249	0.030000
784.045	11.202	0.030000
789.003	11.065	0.030000
793.961	10.915	0.030000
798.918	10.967	0.030000
803.876	11.055	0.030000
808.834	11.011	0.030000
813.792	10.957	0.030000
818.750	10.864	0.030000

Name: XE0050B      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.790	0.030000
4.031	14.841	0.030000
8.062	14.668	0.030000
12.093	14.398	0.030000
16.125	14.538	0.030000
20.156	14.651	0.030000
25.031	14.846	0.030000
29.906	15.095	0.030000
34.781	14.947	0.030000
39.656	14.652	0.030000
44.531	14.698	0.030000
49.406	14.953	0.030000
54.281	15.021	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

59.156	15.183	0.030000
64.031	15.385	0.030000
68.906	15.300	0.030000
73.781	14.880	0.030000
78.656	14.588	0.030000
83.531	14.135	0.030000
88.406	14.214	0.030000
93.281	14.610	0.030000
98.156	14.954	0.030000
103.031	14.709	0.030000
107.906	14.470	0.030000
112.781	14.761	0.030000
117.656	15.161	0.030000
122.492	15.325	0.030000
127.328	15.359	0.030000
132.164	15.410	0.030000
137.000	15.429	0.030000
141.837	15.393	0.030000
146.362	14.582	0.030000
150.887	14.278	0.030000
155.413	14.164	0.030000
159.938	14.310	0.030000
164.464	14.138	0.030000
168.989	13.892	0.030000
173.514	13.702	0.030000
178.330	13.549	0.030000
183.146	13.552	0.030000
187.961	13.528	0.030000
192.777	13.320	0.030000
197.593	13.283	0.030000
202.409	13.209	0.030000
207.224	13.056	0.030000
212.040	13.072	0.030000
216.856	13.061	0.030000
221.671	12.967	0.030000
226.487	13.040	0.030000
231.303	13.089	0.030000
236.119	12.893	0.030000
240.934	12.647	0.030000
245.750	12.538	0.030000
250.566	12.693	0.030000
255.381	12.698	0.030000
260.197	13.150	0.030000
265.013	13.150	0.030000
269.828	13.216	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

274.644	13.350	0.030000
279.460	13.193	0.030000
284.276	12.788	0.030000
289.091	12.622	0.030000
293.907	12.705	0.030000
298.723	12.765	0.030000
303.538	12.691	0.030000
308.130	13.085	0.030000
312.722	13.133	0.030000
317.314	13.028	0.030000
321.905	12.970	0.030000
326.497	12.787	0.030000
331.089	12.836	0.030000
335.680	12.679	0.030000
340.272	12.732	0.030000
344.864	12.919	0.030000
349.640	13.017	0.030000
354.416	12.903	0.030000
359.192	13.296	0.030000
363.967	13.557	0.030000
368.743	13.322	0.030000
373.519	13.100	0.030000
378.295	13.189	0.030000
383.071	13.260	0.030000
387.847	13.203	0.030000
392.623	13.175	0.030000
397.399	12.947	0.030000
402.174	12.826	0.030000
406.950	12.733	0.030000
411.726	12.751	0.030000
416.502	12.884	0.030000
421.278	12.462	0.030000
425.653	12.663	0.030000
430.028	12.722	0.030000
434.403	12.791	0.030000
438.778	12.873	0.030000
443.778	12.763	0.030000
448.778	12.674	0.030000
453.778	12.738	0.030000
458.778	12.686	0.030000
463.778	12.572	0.030000
468.222	12.505	0.030000
472.667	12.535	0.030000
477.111	12.616	0.030000
481.556	12.607	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

486.000	12.586	0.030000
490.445	12.564	0.030000
494.889	12.542	0.030000
499.333	12.520	0.030000
503.778	12.525	0.030000
508.027	12.573	0.030000
512.276	12.610	0.030000
516.525	12.618	0.030000
520.774	12.607	0.030000
525.024	12.640	0.030000
529.273	12.671	0.030000
534.094	12.657	0.030000
538.916	12.642	0.030000
543.737	12.645	0.030000
548.559	12.687	0.030000
553.380	12.779	0.030000
558.202	12.866	0.030000
563.023	12.836	0.030000
567.844	12.804	0.030000
572.666	12.786	0.030000
577.487	12.821	0.030000
582.309	12.603	0.030000
587.130	12.653	0.030000
591.952	12.702	0.030000
596.773	12.695	0.030000
600.523	12.574	0.030000
604.273	12.549	0.030000
608.023	12.595	0.030000
611.773	12.688	0.030000
616.523	12.144	0.030000
621.273	12.342	0.030000
626.023	12.383	0.030000
630.773	12.386	0.030000
635.523	12.373	0.030000
639.773	12.374	0.030000
644.023	12.382	0.030000
648.273	12.389	0.030000
652.523	12.391	0.030000
656.773	12.367	0.030000
661.416	12.343	0.030000
666.059	12.198	0.030000
670.702	12.168	0.030000
675.344	12.489	0.030000
679.987	12.655	0.030000
684.630	12.425	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

689.273	12.213	0.030000
693.000	12.190	0.030000
696.726	12.222	0.030000
700.453	12.224	0.030000
703.787	12.238	0.030000
707.120	12.276	0.030000
710.453	12.380	0.030000
713.787	12.507	0.030000
717.120	12.633	0.030000
720.453	12.599	0.030000
725.453	12.424	0.030000
730.453	12.175	0.030000
735.453	11.940	0.030000
740.453	11.897	0.030000
745.453	11.984	0.030000
750.453	12.133	0.030000
755.453	12.365	0.030000
760.453	12.473	0.030000
764.739	12.405	0.030000
769.025	12.256	0.030000
773.310	12.095	0.030000
777.596	11.970	0.030000
781.882	12.082	0.030000
786.168	12.263	0.030000
790.453	12.488	0.030000
793.787	12.661	0.030000
797.120	12.782	0.030000
800.453	12.793	0.030000
805.453	12.646	0.030000
810.453	12.437	0.030000
812.953	12.356	0.030000
815.453	12.349	0.030000
820.453	12.242	0.030000
825.453	12.142	0.030000
827.953	12.140	0.030000
830.453	12.054	0.030000
835.453	11.988	0.030000
840.453	12.037	0.030000
845.453	12.099	0.030000
847.953	12.129	0.030000
850.453	12.177	0.030000
855.453	12.230	0.030000
860.453	12.082	0.030000
862.953	11.929	0.030000
865.453	11.902	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

870.304	11.940	0.030000
875.155	12.059	0.030000
880.006	12.171	0.030000
884.857	12.199	0.030000
889.707	12.083	0.030000
894.558	11.924	0.030000
899.409	11.805	0.030000
904.260	11.773	0.030000
909.111	11.813	0.030000
913.962	11.857	0.030000
918.813	12.041	0.030000
923.663	12.122	0.030000
928.514	12.074	0.030000
933.365	12.060	0.030000
938.216	11.979	0.030000
943.067	11.928	0.030000
947.918	11.880	0.030000
952.769	11.899	0.030000
957.619	11.865	0.030000
962.470	11.764	0.030000
967.321	11.929	0.030000
972.172	12.259	0.030000
977.023	12.303	0.030000
981.874	12.142	0.030000
986.725	12.026	0.030000
991.575	11.935	0.030000
996.426	11.616	0.030000
1001.277	11.388	0.030000
1006.128	11.359	0.030000
1010.979	11.357	0.030000
1015.830	11.361	0.030000
1020.681	11.466	0.030000
1025.531	11.549	0.030000
1030.295	11.559	0.030000
1035.058	11.743	0.030000
1039.822	12.024	0.030000
1044.585	12.006	0.030000
1049.348	11.748	0.030000
1054.112	11.517	0.030000
1058.875	11.332	0.030000
1063.639	11.162	0.030000
1068.402	11.048	0.030000
1073.165	11.227	0.030000
1077.929	11.158	0.030000
1082.692	10.947	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1087.455	10.940	0.030000
1092.219	11.089	0.030000
1096.982	11.174	0.030000
1101.746	11.145	0.030000
1106.509	11.104	0.030000
1111.272	11.094	0.030000
1116.036	11.115	0.030000
1120.799	11.009	0.030000
1125.563	10.922	0.030000
1129.848	10.919	0.030000
1134.134	10.844	0.030000
1138.420	10.680	0.030000
1142.706	10.434	0.030000
1146.992	10.507	0.030000
1151.277	10.571	0.030000
1155.563	10.672	0.030000

Name: XE0050C      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	10.672	0.030000
4.576	10.687	0.030000
9.151	10.659	0.030000
13.727	10.648	0.030000
18.302	10.715	0.030000
22.878	10.772	0.030000
27.454	10.841	0.030000
32.350	10.948	0.030000
37.246	11.018	0.030000
42.141	11.012	0.030000
47.037	11.088	0.030000
51.933	11.166	0.030000
56.829	11.171	0.030000
61.725	11.223	0.030000
66.621	11.198	0.030000
71.516	11.261	0.030000
76.412	11.307	0.030000
81.308	11.282	0.030000
86.204	11.318	0.030000
91.100	11.366	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

95.996	11.364	0.030000
100.891	11.356	0.030000
105.787	11.376	0.030000
110.683	11.421	0.030000
115.579	11.505	0.030000
120.475	11.585	0.030000
125.371	11.650	0.030000
130.266	11.725	0.030000
135.162	11.743	0.030000
140.058	11.767	0.030000
144.954	11.780	0.030000
149.954	11.866	0.030000
154.954	11.969	0.030000
159.120	11.986	0.030000
163.287	12.039	0.030000
167.454	12.049	0.030000
172.264	12.135	0.030000
177.075	12.142	0.030000
181.886	12.194	0.030000
186.696	12.280	0.030000
191.507	12.179	0.030000
196.318	12.232	0.030000
201.128	12.302	0.030000
205.939	12.286	0.030000
210.749	12.296	0.030000
215.560	12.294	0.030000
220.371	12.355	0.030000
225.181	12.389	0.030000
229.992	12.398	0.030000
234.773	12.453	0.030000
239.554	12.475	0.030000
244.336	12.465	0.030000
249.117	12.498	0.030000
253.898	12.568	0.030000
258.679	12.600	0.030000
263.461	12.664	0.030000
268.242	12.613	0.030000
273.023	12.700	0.030000
277.804	12.729	0.030000
282.586	12.912	0.030000
287.367	12.818	0.030000
292.148	12.690	0.030000
296.929	12.726	0.030000
301.711	12.826	0.030000
306.492	12.810	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

311.273	12.868	0.030000
316.054	12.865	0.030000
320.836	12.879	0.030000
325.617	12.926	0.030000

Name: XE0060B      Group: E  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	9.568	0.030000
4.965	9.593	0.030000
9.930	9.538	0.030000
14.894	9.571	0.030000
19.859	9.526	0.030000
24.824	9.612	0.030000
29.788	9.587	0.030000
34.753	9.537	0.030000
39.718	9.524	0.030000
44.683	9.484	0.030000
49.648	9.397	0.030000
54.612	9.392	0.030000
59.577	9.375	0.030000
64.542	9.273	0.030000
69.507	9.276	0.030000
74.471	9.148	0.030000
79.436	9.242	0.030000
84.401	9.305	0.030000
89.365	9.302	0.030000
94.330	9.297	0.030000
99.295	9.380	0.030000
104.260	9.316	0.030000
109.225	9.247	0.030000
114.189	9.293	0.030000
119.154	9.284	0.030000
124.119	9.306	0.030000
129.083	9.225	0.030000
134.048	9.225	0.030000
139.013	9.199	0.030000
143.978	9.172	0.030000
148.943	9.234	0.030000
153.907	9.210	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

158.872	9.186	0.030000
163.837	9.184	0.030000
168.802	9.145	0.030000
173.766	9.056	0.030000
178.731	9.058	0.030000
183.696	9.081	0.030000
188.661	9.047	0.030000
193.625	9.075	0.030000
198.590	9.117	0.030000
203.555	9.054	0.030000
208.519	8.990	0.030000
213.484	9.000	0.030000
218.449	9.056	0.030000
223.414	9.066	0.030000
228.379	8.994	0.030000
233.343	9.021	0.030000
238.308	9.012	0.030000
243.273	8.969	0.030000
248.238	8.974	0.030000
253.202	8.998	0.030000
258.167	8.922	0.030000
263.132	8.880	0.030000
268.096	8.936	0.030000
273.061	8.939	0.030000
278.026	8.909	0.030000
282.991	8.996	0.030000
287.955	9.043	0.030000
291.705	8.979	0.030000
295.455	8.927	0.030000
299.205	9.128	0.030000
302.955	9.132	0.030000
306.289	9.120	0.030000
309.622	9.041	0.030000
312.955	9.095	0.030000
317.000	9.063	0.030000
321.045	9.028	0.030000
325.089	8.937	0.030000
329.256	8.943	0.030000
333.422	8.914	0.030000
337.589	8.968	0.030000
341.756	9.161	0.030000
346.092	9.207	0.030000
350.429	9.190	0.030000
354.765	9.273	0.030000
359.102	9.227	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

363.438	9.203	0.030000
367.165	9.184	0.030000
370.892	9.189	0.030000
374.619	9.175	0.030000
379.262	9.104	0.030000
383.904	8.977	0.030000
388.547	8.963	0.030000
393.190	9.020	0.030000
397.833	8.928	0.030000
402.476	8.920	0.030000
407.119	8.929	0.030000
411.913	8.959	0.030000
416.707	8.964	0.030000
421.502	8.907	0.030000
426.296	8.870	0.030000
431.090	8.870	0.030000
435.885	8.877	0.030000
440.679	9.022	0.030000
445.473	8.993	0.030000
450.268	8.837	0.030000
455.062	8.811	0.030000
459.856	8.851	0.030000
464.363	8.784	0.030000
468.870	8.735	0.030000
473.358	8.719	0.030000
477.845	8.688	0.030000
482.333	8.747	0.030000
486.060	8.684	0.030000
489.787	8.615	0.030000
493.513	8.629	0.030000
498.513	8.652	0.030000
503.513	8.593	0.030000
508.160	8.506	0.030000
512.806	8.491	0.030000
517.452	8.495	0.030000
522.098	8.482	0.030000
526.745	8.506	0.030000
531.391	8.551	0.030000
536.037	8.596	0.030000
540.684	8.578	0.030000
545.330	8.589	0.030000
549.976	8.601	0.030000
554.623	8.485	0.030000
559.269	8.516	0.030000
563.915	8.517	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

568.561	8.479	0.030000
571.895	8.453	0.030000
575.228	8.403	0.030000
578.561	8.400	0.030000
581.997	8.380	0.030000
585.433	8.323	0.030000
588.869	8.329	0.030000
593.376	8.377	0.030000
597.883	8.456	0.030000
602.526	8.282	0.030000
607.169	8.299	0.030000
611.812	8.382	0.030000
616.455	8.342	0.030000
621.097	8.319	0.030000
625.740	8.416	0.030000
630.383	8.569	0.030000
634.185	8.687	0.030000
637.986	8.747	0.030000
641.788	8.720	0.030000
645.590	8.652	0.030000
650.559	8.527	0.030000
655.528	8.417	0.030000
660.497	8.309	0.030000
665.466	8.244	0.030000
670.435	8.159	0.030000
675.404	8.052	0.030000
680.373	8.057	0.030000
685.342	8.067	0.030000
690.311	8.013	0.030000
695.280	7.969	0.030000
700.249	7.993	0.030000
705.218	7.944	0.030000
710.187	7.988	0.030000
715.156	8.024	0.030000
720.125	7.929	0.030000
725.094	7.971	0.030000
730.063	8.039	0.030000
735.032	8.106	0.030000
740.001	8.094	0.030000
744.970	8.125	0.030000
749.939	8.179	0.030000
754.908	8.283	0.030000
759.877	8.330	0.030000
764.846	8.353	0.030000
769.815	8.374	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

774.784	8.151	0.030000
779.753	7.902	0.030000
784.722	7.881	0.030000
789.691	7.880	0.030000
794.660	7.963	0.030000
799.629	7.909	0.030000
804.598	7.842	0.030000
809.567	7.821	0.030000
814.536	7.890	0.030000
819.505	7.928	0.030000
824.474	8.015	0.030000
829.443	8.024	0.030000
834.412	7.987	0.030000
839.381	8.006	0.030000
844.350	7.964	0.030000
849.319	7.826	0.030000
854.288	7.678	0.030000
859.257	7.549	0.030000
864.226	7.500	0.030000
869.195	7.410	0.030000
874.164	7.327	0.030000
879.133	7.155	0.030000
884.102	7.487	0.030000
889.071	7.531	0.030000
894.040	7.863	0.030000
899.009	7.537	0.030000
903.978	8.240	0.030000
908.947	8.122	0.030000
913.916	8.538	0.030000
918.885	8.547	0.030000
923.854	8.584	0.030000
928.823	8.615	0.030000
933.792	8.629	0.030000
938.761	8.652	0.030000
943.730	8.793	0.030000
948.698	9.021	0.030000
953.668	9.012	0.030000
958.636	8.969	0.030000
963.606	8.974	0.030000
968.574	8.998	0.030000
973.543	8.922	0.030000
978.513	8.880	0.030000
983.481	8.936	0.030000
988.451	9.568	0.030000
993.419	9.593	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

998.389	9.538	0.030000
1003.358	9.571	0.030000
1008.327	9.526	0.030000
1013.295	9.612	0.030000

Name: XE0080B                      Group: E  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	10.864	0.030000
4.980	10.797	0.030000
9.960	10.858	0.030000
14.940	11.286	0.030000
19.920	11.270	0.030000
24.900	11.239	0.030000
29.880	11.080	0.030000
34.860	10.978	0.030000
39.840	10.925	0.030000
44.820	10.956	0.030000
49.800	11.012	0.030000
54.780	11.058	0.030000
59.760	11.194	0.030000
64.740	11.129	0.030000
69.720	11.063	0.030000
74.700	10.987	0.030000
79.680	10.912	0.030000
84.660	10.792	0.030000
89.640	10.818	0.030000
94.620	10.842	0.030000
99.600	10.916	0.030000
104.580	11.002	0.030000
109.560	10.971	0.030000
114.540	10.945	0.030000
119.520	10.919	0.030000
124.500	10.894	0.030000
129.480	10.868	0.030000
134.460	10.839	0.030000
139.440	10.796	0.030000
144.420	11.051	0.030000
149.400	11.169	0.030000
154.380	11.063	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

159.360	10.588	0.030000
164.340	10.633	0.030000
169.320	10.601	0.030000
174.300	10.608	0.030000
179.280	10.614	0.030000
184.260	10.621	0.030000
189.240	10.628	0.030000
194.220	10.639	0.030000
199.200	10.654	0.030000
204.180	10.667	0.030000
209.160	10.566	0.030000
214.140	10.387	0.030000
219.119	10.531	0.030000
224.100	10.765	0.030000
229.080	10.811	0.030000
234.060	11.169	0.030000
239.040	11.036	0.030000
244.019	10.750	0.030000
249.000	10.717	0.030000
253.979	10.724	0.030000
258.959	10.731	0.030000
263.939	10.738	0.030000
268.919	10.745	0.030000
273.899	10.685	0.030000
278.879	10.508	0.030000
283.859	10.472	0.030000
288.839	10.509	0.030000
293.819	10.665	0.030000
298.799	10.688	0.030000
303.779	10.617	0.030000
308.759	10.495	0.030000
313.739	10.589	0.030000
318.719	10.403	0.030000
323.699	10.181	0.030000
328.679	9.958	0.030000
333.659	9.799	0.030000
338.639	9.764	0.030000
343.619	9.755	0.030000
348.599	9.749	0.030000
353.590	9.729	0.030000
358.581	9.767	0.030000
363.572	9.714	0.030000
368.564	9.651	0.030000
373.555	9.588	0.030000
378.546	9.509	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

383.537	9.295	0.030000
388.528	8.887	0.030000
393.519	8.750	0.030000
398.510	8.237	0.030000
403.501	8.273	0.030000
408.492	8.370	0.030000
413.483	8.471	0.030000
418.474	8.377	0.030000
423.465	8.454	0.030000
428.457	9.203	0.030000
433.448	9.501	0.030000
438.439	9.500	0.030000
443.430	9.548	0.030000
448.421	9.680	0.030000
453.412	9.830	0.030000
458.403	9.999	0.030000
463.394	10.145	0.030000
468.385	10.137	0.030000
473.376	10.071	0.030000
478.367	10.028	0.030000
483.358	10.017	0.030000
488.349	10.006	0.030000
493.341	9.995	0.030000
498.332	9.982	0.030000
503.323	10.060	0.030000
508.314	10.200	0.030000
513.305	10.285	0.030000
518.296	10.424	0.030000
523.287	10.221	0.030000
528.278	9.671	0.030000
533.269	9.773	0.030000
538.260	9.941	0.030000
543.251	10.210	0.030000
548.242	10.310	0.030000
553.234	10.351	0.030000
558.225	10.349	0.030000
563.216	10.346	0.030000
568.207	10.327	0.030000
573.198	10.201	0.030000
578.189	9.963	0.030000
583.180	9.589	0.030000
588.171	9.371	0.030000
593.162	9.343	0.030000
598.153	9.383	0.030000
603.144	9.559	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

608.135	9.522	0.030000
613.126	9.483	0.030000
618.117	9.444	0.030000
623.109	9.405	0.030000
628.100	9.397	0.030000
633.091	9.505	0.030000
638.082	9.651	0.030000
643.073	9.796	0.030000
647.897	9.939	0.030000
652.721	10.032	0.030000
657.545	9.800	0.030000
662.369	8.802	0.030000
667.193	8.085	0.030000
672.017	7.652	0.030000
676.842	7.399	0.030000
681.666	7.372	0.030000
686.490	7.795	0.030000
691.314	8.188	0.030000
696.138	8.339	0.030000
700.962	8.469	0.030000
705.786	8.681	0.030000
710.610	8.877	0.030000
715.434	8.933	0.030000
720.258	8.960	0.030000
725.149	8.965	0.030000
730.040	8.970	0.030000
734.930	8.976	0.030000
739.821	8.981	0.030000
744.712	8.986	0.030000
749.602	8.998	0.030000
754.493	9.005	0.030000
759.384	9.002	0.030000
764.275	9.214	0.030000
769.165	9.538	0.030000
774.056	9.454	0.030000
778.947	9.481	0.030000
783.837	9.506	0.030000
788.728	9.532	0.030000
793.619	9.557	0.030000
798.510	9.583	0.030000
803.400	9.608	0.030000
808.087	9.633	0.030000
812.774	9.658	0.030000
817.461	9.682	0.030000
822.148	9.541	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

826.835	9.172	0.030000
831.522	9.208	0.030000
836.209	9.463	0.030000
840.896	9.444	0.030000
845.583	9.435	0.030000
850.270	9.427	0.030000
854.957	9.467	0.030000
859.644	9.540	0.030000
864.331	9.573	0.030000
869.311	9.566	0.030000
874.290	9.541	0.030000
879.269	9.505	0.030000
884.248	9.424	0.030000
889.228	9.284	0.030000
894.207	9.133	0.030000
899.186	9.097	0.030000
904.165	9.197	0.030000
909.145	9.296	0.030000
914.124	9.262	0.030000
919.103	9.149	0.030000
924.082	9.097	0.030000
929.062	9.053	0.030000
934.041	9.009	0.030000
939.020	8.965	0.030000
943.999	8.925	0.030000
948.979	8.895	0.030000
953.958	8.851	0.030000
958.937	8.801	0.030000
963.916	8.807	0.030000
968.896	8.918	0.030000
973.875	9.009	0.030000
978.854	8.966	0.030000
983.833	8.968	0.030000
988.813	8.968	0.030000
993.792	8.968	0.030000
998.771	8.968	0.030000
1003.750	8.969	0.030000
1008.730	8.973	0.030000
1013.709	8.989	0.030000
1018.688	9.035	0.030000
1023.667	9.107	0.030000
1028.647	9.230	0.030000
1033.626	9.358	0.030000
1038.605	9.379	0.030000
1043.584	9.375	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1048.564	9.408	0.030000
1053.543	9.454	0.030000
1058.522	9.515	0.030000
1063.501	9.552	0.030000
1068.481	9.589	0.030000
1073.460	9.625	0.030000
1078.439	9.661	0.030000
1083.418	9.675	0.030000
1088.398	9.568	0.030000
1093.377	9.348	0.030000
1098.356	9.241	0.030000
1103.335	9.119	0.030000
1108.315	9.024	0.030000
1113.294	8.912	0.030000
1118.273	8.701	0.030000
1123.252	8.341	0.030000
1128.232	8.152	0.030000
1133.211	7.955	0.030000
1138.190	8.136	0.030000
1143.169	8.185	0.030000

Name: XE0080C                      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	10.104	0.030000
4.828	10.114	0.030000
9.656	10.092	0.030000
14.484	9.828	0.030000
19.313	9.518	0.030000
24.141	9.515	0.030000
28.969	9.447	0.030000
33.797	9.431	0.030000
38.625	9.533	0.030000
43.133	9.620	0.030000
47.640	9.708	0.030000
52.147	9.872	0.030000
56.654	9.979	0.030000
61.383	9.931	0.030000
66.112	9.939	0.030000
70.840	9.902	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

75.569	9.836	0.030000
80.297	9.719	0.030000
84.312	9.799	0.030000
88.327	9.843	0.030000
92.342	9.870	0.030000
96.357	9.877	0.030000
100.281	9.873	0.030000
104.204	9.895	0.030000
108.128	10.034	0.030000
112.379	10.103	0.030000
116.631	10.025	0.030000
120.882	9.941	0.030000
125.134	9.768	0.030000
129.385	9.804	0.030000
133.256	9.971	0.030000
137.128	10.113	0.030000
140.999	10.115	0.030000
144.870	9.898	0.030000
148.277	9.736	0.030000
151.683	9.620	0.030000
155.090	9.617	0.030000
159.765	9.630	0.030000
164.439	9.466	0.030000
169.113	9.131	0.030000
173.788	8.920	0.030000
178.462	8.531	0.030000
183.137	7.906	0.030000
187.811	7.762	0.030000
192.486	8.071	0.030000
197.160	7.941	0.030000
202.071	8.037	0.030000
206.982	8.019	0.030000
211.894	7.999	0.030000
216.805	8.008	0.030000
221.716	7.947	0.030000
226.628	8.076	0.030000
231.539	8.204	0.030000
236.450	8.285	0.030000
241.362	8.342	0.030000
246.273	8.163	0.030000
251.184	8.000	0.030000
256.096	8.043	0.030000
261.007	8.068	0.030000
265.918	8.066	0.030000
270.830	8.088	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

275.741	8.141	0.030000
280.652	8.149	0.030000
285.563	8.135	0.030000
290.475	8.133	0.030000
295.386	8.115	0.030000
300.297	8.177	0.030000
305.209	8.224	0.030000
310.120	8.248	0.030000
315.031	8.245	0.030000
319.943	8.185	0.030000

Name: XE0090A                      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	9.138	0.030000
4.797	9.090	0.030000
9.593	8.942	0.030000
14.390	8.782	0.030000
19.186	8.639	0.030000
23.983	8.478	0.030000
28.780	8.184	0.030000
33.576	7.919	0.030000
38.373	7.884	0.030000
43.169	7.755	0.030000
47.966	7.407	0.030000
52.763	7.492	0.030000
57.559	7.274	0.030000
62.356	7.309	0.030000
67.152	7.479	0.030000
71.949	7.739	0.030000
76.746	7.892	0.030000
81.542	7.927	0.030000
86.339	7.877	0.030000
91.135	7.661	0.030000
95.932	7.430	0.030000
100.701	7.442	0.030000
105.470	7.415	0.030000
110.239	7.497	0.030000
115.008	7.328	0.030000
119.777	6.989	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

124.546	6.960	0.030000
129.315	6.884	0.030000
134.084	6.496	0.030000
138.853	6.185	0.030000
143.622	6.041	0.030000
148.502	6.085	0.030000
153.381	6.150	0.030000
158.261	6.127	0.030000
163.140	6.138	0.030000
168.019	6.132	0.030000
172.899	6.161	0.030000
177.778	6.641	0.030000
182.658	7.275	0.030000
187.537	7.230	0.030000
192.417	7.218	0.030000
197.296	7.309	0.030000
202.176	7.112	0.030000
207.055	6.496	0.030000
211.935	5.954	0.030000
216.814	5.686	0.030000
221.694	5.943	0.030000
226.573	5.643	0.030000
231.453	5.737	0.030000
236.332	5.177	0.030000
241.212	4.357	0.030000
246.091	4.381	0.030000
250.970	3.844	0.030000
255.850	4.072	0.030000
260.729	3.940	0.030000
265.609	3.753	0.030000
270.488	3.933	0.030000
275.368	4.212	0.030000
280.367	3.791	0.030000
285.367	3.234	0.030000
290.366	2.783	0.030000
295.366	2.385	0.030000
300.366	2.501	0.030000
305.365	2.796	0.030000
310.365	3.183	0.030000
315.364	3.558	0.030000
320.364	4.004	0.030000
325.363	4.749	0.030000
330.363	5.168	0.030000
335.362	5.358	0.030000
340.362	5.388	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

345.361	5.160	0.030000
350.361	4.899	0.030000
355.361	4.633	0.030000
360.360	4.362	0.030000
365.360	4.226	0.030000
370.359	4.387	0.030000
375.359	4.365	0.030000
380.358	4.250	0.030000
385.358	3.921	0.030000
390.358	3.577	0.030000
395.357	3.325	0.030000
400.357	3.272	0.030000
405.356	3.512	0.030000
410.356	3.783	0.030000
415.355	4.031	0.030000
420.355	4.264	0.030000
425.354	4.417	0.030000
430.354	4.517	0.030000
435.353	4.613	0.030000
440.353	4.688	0.030000
445.353	4.756	0.030000
450.352	4.619	0.030000
455.352	4.638	0.030000
460.351	4.565	0.030000
465.074	4.686	0.030000
469.797	4.589	0.030000
474.521	4.233	0.030000
479.244	3.957	0.030000
483.967	3.915	0.030000
488.690	3.692	0.030000
493.413	3.379	0.030000
498.136	3.053	0.030000
502.860	2.913	0.030000
507.583	2.964	0.030000
512.306	3.030	0.030000
517.029	3.094	0.030000
521.752	3.110	0.030000
526.475	2.990	0.030000
531.198	2.854	0.030000
535.922	2.842	0.030000
540.872	2.896	0.030000
545.822	2.953	0.030000
550.773	2.926	0.030000
555.723	2.784	0.030000
560.674	2.701	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

565.624	2.813	0.030000
570.575	3.019	0.030000
575.525	3.159	0.030000
580.476	3.415	0.030000
585.426	3.511	0.030000
590.376	3.441	0.030000
595.327	3.266	0.030000
600.277	3.176	0.030000
605.228	2.994	0.030000
610.178	2.931	0.030000
615.129	2.942	0.030000
620.079	3.014	0.030000
625.029	3.105	0.030000
629.980	3.217	0.030000
634.905	3.237	0.030000
639.831	3.396	0.030000
644.757	3.633	0.030000
649.682	3.531	0.030000
654.608	3.514	0.030000
659.534	3.705	0.030000
664.459	3.804	0.030000
669.385	3.766	0.030000
674.311	3.739	0.030000
679.236	3.763	0.030000
684.162	3.670	0.030000
689.088	3.719	0.030000
694.013	3.710	0.030000
698.939	3.684	0.030000
703.865	3.577	0.030000
708.790	3.520	0.030000
713.716	3.489	0.030000
718.641	3.427	0.030000
723.567	3.405	0.030000
728.493	3.219	0.030000
733.418	3.572	0.030000
738.344	3.632	0.030000
743.270	3.652	0.030000
748.195	3.711	0.030000
753.121	3.938	0.030000
758.047	3.919	0.030000
762.972	3.894	0.030000
767.898	3.865	0.030000
772.824	3.809	0.030000
777.749	3.645	0.030000
782.675	3.730	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

787.601	3.894	0.030000
792.526	3.945	0.030000
797.452	3.889	0.030000
802.377	3.676	0.030000
807.303	3.615	0.030000
812.296	3.856	0.030000
817.290	4.147	0.030000
822.283	4.173	0.030000
827.276	4.274	0.030000
832.269	3.739	0.030000
837.263	3.439	0.030000
842.256	3.050	0.030000
847.249	2.774	0.030000
852.243	2.627	0.030000
857.236	2.744	0.030000
862.229	3.064	0.030000
867.222	3.231	0.030000
872.216	3.296	0.030000
877.209	3.652	0.030000
882.202	3.570	0.030000
887.196	3.363	0.030000
892.189	3.469	0.030000
897.182	3.518	0.030000
902.176	3.655	0.030000
907.169	3.777	0.030000
912.162	3.936	0.030000
917.155	4.082	0.030000
922.149	4.220	0.030000
927.142	4.117	0.030000
932.135	3.902	0.030000
937.129	3.929	0.030000
942.122	4.358	0.030000
947.115	4.729	0.030000
952.108	4.941	0.030000
957.102	5.011	0.030000
962.095	5.015	0.030000
967.088	5.224	0.030000
972.082	5.395	0.030000
977.075	5.503	0.030000
982.068	5.380	0.030000
986.931	5.340	0.030000
991.795	5.310	0.030000
996.658	5.305	0.030000
1001.521	5.137	0.030000
1006.385	5.432	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1011.248	5.779	0.030000
1016.111	5.827	0.030000
1020.974	5.763	0.030000
1025.838	5.609	0.030000
1030.701	5.251	0.030000
1035.564	4.921	0.030000
1040.427	4.763	0.030000
1045.291	4.708	0.030000
1050.154	4.731	0.030000
1055.017	4.819	0.030000
1059.880	4.915	0.030000
1064.744	4.963	0.030000

Name: XE0090B      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	4.963	0.030000
4.786	5.328	0.030000
9.573	5.569	0.030000
14.359	5.665	0.030000
19.146	5.799	0.030000
23.932	5.947	0.030000
28.718	5.964	0.030000
33.505	6.033	0.030000
38.291	5.973	0.030000
43.078	6.058	0.030000
47.864	6.126	0.030000
52.151	6.122	0.030000
56.437	6.073	0.030000
60.723	6.070	0.030000
65.010	6.068	0.030000
69.296	6.058	0.030000
73.582	6.042	0.030000
77.869	6.023	0.030000
82.118	6.053	0.030000
86.367	6.006	0.030000
90.616	6.012	0.030000
94.865	6.050	0.030000
98.423	6.071	0.030000
101.980	6.078	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

105.537	6.087	0.030000
109.641	6.105	0.030000
113.745	6.079	0.030000
117.848	6.020	0.030000
121.952	6.054	0.030000
126.082	6.037	0.030000
130.211	6.010	0.030000
134.340	6.101	0.030000
138.293	6.112	0.030000
142.246	6.099	0.030000
146.199	6.032	0.030000
150.152	6.073	0.030000
154.912	6.013	0.030000
159.672	5.964	0.030000
164.432	6.088	0.030000
169.191	6.448	0.030000
173.848	6.770	0.030000
178.505	7.040	0.030000
183.161	7.354	0.030000
187.818	7.644	0.030000
192.474	7.939	0.030000
197.131	8.225	0.030000
201.787	8.303	0.030000
206.217	8.363	0.030000
210.646	8.409	0.030000
214.203	8.501	0.030000
217.760	8.546	0.030000
221.318	8.657	0.030000
225.747	8.694	0.030000
230.176	8.824	0.030000
233.903	8.855	0.030000
237.630	8.824	0.030000
241.357	8.769	0.030000
245.107	8.704	0.030000
248.857	8.648	0.030000
252.607	8.589	0.030000
256.356	8.575	0.030000
260.083	8.555	0.030000
263.810	8.664	0.030000
267.537	8.760	0.030000
271.885	8.754	0.030000
276.233	8.704	0.030000
280.581	8.653	0.030000
285.010	8.597	0.030000
289.439	8.559	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

292.830	8.579	0.030000
296.220	8.603	0.030000
299.611	8.601	0.030000
304.593	8.573	0.030000
309.575	8.542	0.030000
314.557	8.506	0.030000
319.539	8.616	0.030000
324.522	8.500	0.030000
329.504	8.630	0.030000
334.016	8.629	0.030000
338.529	8.589	0.030000
343.042	8.620	0.030000
347.555	8.664	0.030000
352.067	8.709	0.030000
356.580	8.727	0.030000
360.382	8.719	0.030000
364.183	8.733	0.030000
367.985	8.733	0.030000
371.787	8.717	0.030000
375.831	8.701	0.030000
379.876	8.704	0.030000
383.920	8.670	0.030000
388.268	8.675	0.030000
392.616	8.675	0.030000
396.964	8.682	0.030000
400.500	8.671	0.030000
404.035	8.570	0.030000
407.571	8.466	0.030000
411.820	8.310	0.030000
416.069	8.389	0.030000
420.318	8.540	0.030000
425.318	8.571	0.030000
430.318	8.570	0.030000
434.825	8.611	0.030000
439.332	8.725	0.030000
443.832	8.465	0.030000
448.332	8.275	0.030000
452.832	8.263	0.030000
457.332	8.216	0.030000
461.832	8.073	0.030000
465.999	7.950	0.030000
470.165	7.908	0.030000
474.332	7.884	0.030000
478.499	8.071	0.030000
482.665	8.210	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

486.832	8.262	0.030000
490.165	8.269	0.030000
493.499	8.289	0.030000
496.832	8.309	0.030000
501.081	8.372	0.030000
505.330	8.451	0.030000
509.580	8.299	0.030000
513.829	8.339	0.030000
518.078	8.297	0.030000
522.327	8.308	0.030000
526.450	8.290	0.030000
530.573	8.174	0.030000
534.697	7.938	0.030000
538.820	7.924	0.030000
542.943	8.076	0.030000
546.693	8.237	0.030000
550.443	8.309	0.030000
554.193	8.314	0.030000
557.943	8.422	0.030000
562.450	8.547	0.030000
566.957	8.632	0.030000
571.123	8.277	0.030000
575.290	7.879	0.030000
579.457	7.760	0.030000
583.706	7.678	0.030000
587.955	7.527	0.030000
592.204	7.369	0.030000
595.740	7.238	0.030000
599.275	7.134	0.030000
602.811	7.010	0.030000
607.230	7.014	0.030000
611.650	6.979	0.030000
616.069	7.030	0.030000
620.488	7.076	0.030000
624.441	7.195	0.030000
628.394	7.559	0.030000
632.347	7.678	0.030000
636.300	7.770	0.030000
640.779	7.542	0.030000
645.258	7.180	0.030000
649.737	7.054	0.030000
654.216	6.895	0.030000
658.695	6.857	0.030000
663.174	7.012	0.030000
667.653	7.153	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

672.132	7.275	0.030000
676.611	7.343	0.030000
681.611	7.337	0.030000
686.611	7.290	0.030000
689.111	7.269	0.030000
691.611	7.311	0.030000
695.956	7.377	0.030000
700.301	7.443	0.030000
704.646	7.546	0.030000
708.990	7.790	0.030000
713.335	7.994	0.030000
717.680	8.166	0.030000
722.025	8.164	0.030000
726.444	8.045	0.030000
730.864	8.125	0.030000
735.283	8.398	0.030000
739.703	8.324	0.030000
744.122	8.386	0.030000
748.541	8.402	0.030000
752.961	8.390	0.030000
757.380	8.247	0.030000
762.239	8.093	0.030000
767.098	8.246	0.030000
771.958	8.427	0.030000
776.430	8.348	0.030000
780.902	8.386	0.030000
785.374	8.482	0.030000
789.846	8.597	0.030000
794.318	8.664	0.030000
798.806	8.586	0.030000
803.294	8.506	0.030000
807.781	8.487	0.030000
812.781	8.499	0.030000
817.781	8.493	0.030000
822.082	8.493	0.030000
826.382	8.487	0.030000
830.683	8.491	0.030000
834.984	8.475	0.030000
839.284	8.501	0.030000
843.585	8.544	0.030000
847.885	8.563	0.030000
851.612	8.539	0.030000
855.339	8.575	0.030000
859.066	8.617	0.030000
863.413	8.492	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

867.761	8.506	0.030000
872.109	8.707	0.030000
876.116	8.711	0.030000
880.123	8.706	0.030000
884.130	8.646	0.030000
888.137	8.510	0.030000
892.144	8.351	0.030000
896.311	8.420	0.030000
900.477	8.464	0.030000
904.644	8.501	0.030000
909.073	8.544	0.030000
913.502	8.600	0.030000
918.454	8.540	0.030000
923.406	8.470	0.030000
928.357	8.399	0.030000
933.309	8.308	0.030000
938.260	8.228	0.030000
943.212	8.595	0.030000
948.164	8.750	0.030000
952.170	8.607	0.030000
956.177	8.540	0.030000
960.184	8.587	0.030000
964.191	8.568	0.030000
968.198	8.761	0.030000
972.447	8.616	0.030000
976.697	8.599	0.030000
980.946	8.702	0.030000
985.195	8.792	0.030000
988.997	8.675	0.030000
992.798	8.598	0.030000
996.600	8.694	0.030000
1000.402	8.819	0.030000
1004.821	8.700	0.030000
1009.241	8.581	0.030000
1013.660	8.790	0.030000
1018.080	8.571	0.030000
1022.839	8.583	0.030000
1027.599	8.520	0.030000
1032.359	8.536	0.030000
1037.119	8.547	0.030000
1042.119	8.552	0.030000
1047.119	8.575	0.030000
1049.619	8.561	0.030000
1052.119	8.513	0.030000
1056.626	8.481	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1061.133	8.485	0.030000
1065.508	8.456	0.030000
1069.883	8.498	0.030000
1074.258	8.571	0.030000
1078.633	8.618	0.030000
1083.047	8.506	0.030000
1087.462	8.368	0.030000
1091.876	8.398	0.030000
1096.291	8.374	0.030000
1100.705	8.481	0.030000
1105.120	8.661	0.030000
1109.534	8.911	0.030000
1113.949	9.090	0.030000
1117.980	9.099	0.030000
1122.011	9.048	0.030000
1126.042	9.092	0.030000
1130.073	9.275	0.030000
1134.104	9.222	0.030000
1138.592	9.088	0.030000
1143.080	8.880	0.030000
1147.567	9.011	0.030000
1152.427	9.311	0.030000
1157.286	9.370	0.030000
1162.145	9.305	0.030000
1165.581	9.239	0.030000
1169.017	9.126	0.030000
1172.453	8.973	0.030000
1177.421	8.786	0.030000
1182.391	8.818	0.030000
1187.360	8.843	0.030000
1191.962	8.760	0.030000
1196.564	8.757	0.030000
1200.731	8.920	0.030000
1204.897	8.847	0.030000
1209.064	8.778	0.030000
1213.938	8.682	0.030000
1218.812	8.544	0.030000
1223.686	8.501	0.030000
1228.560	8.637	0.030000
1233.434	8.714	0.030000
1238.308	8.766	0.030000
1243.182	8.789	0.030000
1247.286	8.778	0.030000
1251.390	8.809	0.030000
1255.494	8.798	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1259.446	8.822	0.030000
1263.399	8.971	0.030000
1267.352	9.043	0.030000
1271.305	9.042	0.030000
1275.735	8.952	0.030000
1280.165	8.857	0.030000
1284.595	8.950	0.030000
1289.025	9.013	0.030000
1293.455	8.992	0.030000
1298.024	8.982	0.030000
1302.592	9.070	0.030000
1307.161	9.065	0.030000
1311.648	9.027	0.030000
1316.136	9.012	0.030000
1319.469	9.017	0.030000
1322.803	9.029	0.030000
1326.136	9.021	0.030000
1329.572	9.028	0.030000
1333.008	8.927	0.030000
1336.444	8.941	0.030000
1340.170	9.084	0.030000
1343.897	9.427	0.030000
1347.624	9.486	0.030000
1351.351	9.455	0.030000
1355.078	9.424	0.030000
1358.804	9.393	0.030000
1362.757	9.368	0.030000
1366.710	9.344	0.030000
1370.663	9.314	0.030000
1374.616	9.294	0.030000
1378.964	9.309	0.030000
1383.312	9.330	0.030000
1387.660	9.253	0.030000
1392.255	9.267	0.030000
1396.850	9.260	0.030000
1401.445	9.245	0.030000
1406.041	9.299	0.030000
1410.636	9.336	0.030000
1415.231	9.318	0.030000
1419.827	9.347	0.030000
1424.557	9.384	0.030000
1429.287	9.299	0.030000
1434.018	9.308	0.030000
1437.575	9.330	0.030000
1441.132	9.287	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1444.690	9.249	0.030000
1449.104	9.207	0.030000
1453.519	9.396	0.030000
1457.933	9.405	0.030000
1462.348	9.429	0.030000
1466.777	9.331	0.030000
1471.206	9.280	0.030000
1474.763	9.230	0.030000
1478.321	9.231	0.030000
1481.878	9.331	0.030000
1485.922	9.384	0.030000
1489.967	9.342	0.030000
1494.012	9.354	0.030000
1499.012	9.286	0.030000
1501.512	9.224	0.030000
1504.012	9.243	0.030000
1509.012	9.292	0.030000
1514.012	9.351	0.030000
1519.012	9.494	0.030000
1521.512	9.607	0.030000
1524.012	9.577	0.030000
1528.364	9.572	0.030000
1532.717	9.574	0.030000
1537.069	9.582	0.030000
1541.422	9.589	0.030000
1546.363	9.559	0.030000
1551.304	9.532	0.030000
1556.245	9.514	0.030000
1561.186	9.499	0.030000
1566.186	9.487	0.030000
1568.686	9.481	0.030000
1571.186	9.476	0.030000
1576.186	9.399	0.030000
1578.686	9.328	0.030000
1581.186	9.475	0.030000
1585.959	9.671	0.030000
1590.732	9.839	0.030000
1595.505	9.951	0.030000
1600.278	9.966	0.030000
1605.051	9.981	0.030000
1609.824	9.996	0.030000
1613.723	10.011	0.030000
1617.622	10.026	0.030000
1621.521	10.042	0.030000
1624.957	10.064	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1628.393      10.085      0.030000  
1631.829      10.104      0.030000

Name: XE0100B      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      9.138      0.030000  
4.769      9.086      0.030000  
9.539      9.004      0.030000  
14.308      8.828      0.030000  
19.077      8.378      0.030000  
23.847      8.020      0.030000  
28.616      7.729      0.030000  
33.385      7.500      0.030000  
38.155      7.094      0.030000  
42.924      6.921      0.030000  
47.693      7.077      0.030000  
52.463      7.250      0.030000  
57.232      7.163      0.030000  
62.002      7.112      0.030000  
66.771      7.612      0.030000  
71.540      8.025      0.030000  
76.310      8.171      0.030000  
81.126      7.953      0.030000  
85.943      7.976      0.030000  
90.760      8.248      0.030000  
95.577      8.222      0.030000  
100.394      8.225      0.030000  
105.211      8.269      0.030000  
110.027      8.307      0.030000  
114.844      8.322      0.030000  
119.661      8.307      0.030000  
124.478      8.216      0.030000  
129.295      8.075      0.030000  
134.111      7.951      0.030000  
138.928      7.818      0.030000  
143.745      7.766      0.030000  
148.562      7.766      0.030000  
153.379      7.795      0.030000  
158.196      8.207      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

163.012	8.146	0.030000
167.992	8.101	0.030000
172.971	8.182	0.030000
177.951	7.980	0.030000
182.930	8.353	0.030000
187.909	8.415	0.030000
192.889	8.447	0.030000
197.868	8.160	0.030000
202.847	8.357	0.030000
207.827	8.570	0.030000
212.806	8.125	0.030000
217.786	8.182	0.030000
222.765	8.315	0.030000
227.744	7.910	0.030000
232.724	7.854	0.030000
237.703	7.705	0.030000
242.682	7.689	0.030000
247.662	7.578	0.030000
252.641	7.573	0.030000
257.620	7.786	0.030000
262.600	7.911	0.030000
267.579	7.625	0.030000
272.559	7.627	0.030000
277.538	7.774	0.030000
282.517	7.591	0.030000
287.497	7.542	0.030000
292.476	7.788	0.030000
297.455	7.932	0.030000
302.435	8.088	0.030000
307.414	8.314	0.030000
312.394	8.334	0.030000
317.373	7.899	0.030000
322.352	7.779	0.030000
327.332	7.686	0.030000
332.311	7.598	0.030000
337.291	7.658	0.030000
342.270	7.620	0.030000
347.249	7.648	0.030000
352.229	7.634	0.030000
357.208	7.666	0.030000
362.187	7.694	0.030000
367.167	7.834	0.030000
372.146	7.879	0.030000
377.125	7.877	0.030000
382.105	8.065	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

387.084	8.341	0.030000
392.064	8.486	0.030000
397.043	8.409	0.030000
402.022	8.356	0.030000
407.002	8.292	0.030000
411.981	8.304	0.030000
416.961	8.424	0.030000
421.940	8.490	0.030000
426.919	8.333	0.030000
431.899	8.372	0.030000
436.878	8.521	0.030000
441.857	8.577	0.030000
446.837	8.474	0.030000
451.816	8.789	0.030000
456.796	8.752	0.030000
461.775	8.633	0.030000
466.754	8.686	0.030000
471.734	9.027	0.030000
476.713	9.078	0.030000
481.692	9.462	0.030000
486.672	9.476	0.030000
491.651	9.350	0.030000
496.631	9.477	0.030000
501.610	9.176	0.030000
506.589	9.139	0.030000
511.569	8.856	0.030000
516.548	8.586	0.030000
521.527	8.620	0.030000
526.507	8.749	0.030000
531.486	8.763	0.030000
536.466	8.704	0.030000
541.445	8.702	0.030000
546.424	8.828	0.030000
551.404	8.799	0.030000
556.383	8.885	0.030000
561.362	8.915	0.030000
566.342	8.885	0.030000
571.321	8.867	0.030000
576.301	8.974	0.030000
581.280	9.098	0.030000
586.259	9.113	0.030000
591.239	9.070	0.030000
596.218	9.008	0.030000
601.197	9.048	0.030000
606.177	9.046	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

611.156	8.912	0.030000
616.136	8.784	0.030000
621.115	8.763	0.030000
626.094	8.706	0.030000
631.074	8.657	0.030000
636.053	8.891	0.030000
641.033	8.935	0.030000
646.012	8.858	0.030000
650.991	9.136	0.030000
655.971	9.109	0.030000
660.950	9.030	0.030000
665.929	9.123	0.030000
670.909	9.244	0.030000
675.888	9.329	0.030000
680.867	9.330	0.030000
685.847	9.206	0.030000
690.826	9.313	0.030000
695.806	9.279	0.030000
700.785	9.180	0.030000
705.764	9.259	0.030000
710.744	9.246	0.030000
715.723	9.211	0.030000
720.702	9.260	0.030000
725.682	9.272	0.030000
730.661	9.278	0.030000
735.641	9.359	0.030000
740.620	9.313	0.030000
745.599	9.376	0.030000
750.579	9.426	0.030000
755.558	9.340	0.030000
760.538	9.315	0.030000
765.517	9.387	0.030000
770.496	9.396	0.030000
775.476	9.344	0.030000
780.455	9.304	0.030000
785.434	9.454	0.030000
790.414	9.532	0.030000
795.393	9.983	0.030000
800.372	9.865	0.030000
805.352	9.472	0.030000
810.331	9.128	0.030000
815.311	9.024	0.030000
820.290	8.995	0.030000
825.269	8.934	0.030000
830.249	8.964	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

835.228	9.135	0.030000
840.207	9.117	0.030000
845.187	9.291	0.030000
850.166	9.636	0.030000
855.146	9.805	0.030000
860.125	9.787	0.030000
865.104	9.686	0.030000
870.084	9.560	0.030000
875.063	9.432	0.030000
880.043	9.398	0.030000
885.022	9.515	0.030000
890.001	9.739	0.030000
894.981	9.869	0.030000
899.960	9.615	0.030000
904.898	9.285	0.030000
909.835	9.310	0.030000
914.773	9.280	0.030000
919.710	9.177	0.030000
924.648	9.127	0.030000
929.585	9.090	0.030000
934.523	9.131	0.030000
939.460	9.169	0.030000
944.398	9.218	0.030000
949.335	9.325	0.030000
954.273	9.387	0.030000
959.211	9.371	0.030000
964.148	9.281	0.030000
969.086	9.254	0.030000
974.023	9.233	0.030000
978.961	9.077	0.030000
983.898	9.094	0.030000
988.836	9.231	0.030000
993.773	9.439	0.030000
998.711	9.515	0.030000
1003.648	9.575	0.030000
1008.586	9.283	0.030000
1013.523	9.328	0.030000
1018.461	9.794	0.030000
1023.399	9.831	0.030000
1028.336	9.747	0.030000
1033.274	9.717	0.030000
1038.211	9.625	0.030000
1043.149	9.699	0.030000
1048.086	9.763	0.030000
1053.024	9.733	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1057.961	9.769	0.030000
1062.899	9.892	0.030000
1067.836	9.887	0.030000
1072.774	9.832	0.030000
1077.711	9.559	0.030000
1082.649	9.619	0.030000
1087.586	9.765	0.030000
1092.524	9.679	0.030000
1097.461	9.498	0.030000
1102.399	9.469	0.030000
1107.337	9.533	0.030000
1112.274	9.526	0.030000
1117.212	9.510	0.030000
1122.149	9.469	0.030000
1127.087	9.559	0.030000
1132.024	9.733	0.030000
1136.962	9.609	0.030000
1141.899	9.383	0.030000
1146.837	9.461	0.030000
1151.775	9.819	0.030000
1156.712	10.069	0.030000
1161.650	10.104	0.030000

Name: XE0100C      Group: E  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	8.185	0.030000
4.982	8.284	0.030000
9.964	8.254	0.030000
14.946	8.343	0.030000
19.928	8.301	0.030000
24.910	8.350	0.030000
29.892	8.386	0.030000
34.875	8.524	0.030000
39.857	8.598	0.030000
44.839	8.642	0.030000
49.821	8.742	0.030000
54.803	8.759	0.030000
59.785	8.633	0.030000
64.767	8.467	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

69.749	8.475	0.030000
74.731	8.546	0.030000
79.713	8.519	0.030000
84.695	8.536	0.030000
89.678	8.537	0.030000
94.660	8.640	0.030000
99.642	8.703	0.030000
104.624	8.807	0.030000
109.606	8.835	0.030000
114.588	8.368	0.030000
119.570	8.374	0.030000
124.552	8.542	0.030000
129.534	8.627	0.030000
134.516	8.660	0.030000
139.499	8.681	0.030000
144.481	8.869	0.030000
149.463	8.962	0.030000
154.445	9.006	0.030000
159.427	9.050	0.030000
164.409	9.089	0.030000
169.391	9.103	0.030000
174.373	9.182	0.030000
179.355	9.240	0.030000
184.337	9.266	0.030000
189.319	9.287	0.030000
194.302	9.308	0.030000
199.284	9.328	0.030000
204.266	9.348	0.030000
209.218	9.278	0.030000
214.170	9.207	0.030000
219.122	9.152	0.030000
224.074	9.134	0.030000
229.026	9.135	0.030000
233.978	9.196	0.030000
238.930	9.343	0.030000
243.882	9.444	0.030000
248.834	9.597	0.030000
253.786	9.623	0.030000
258.738	9.610	0.030000
263.690	9.742	0.030000
268.642	9.790	0.030000
273.594	9.843	0.030000
278.546	9.956	0.030000
283.498	10.201	0.030000
288.450	10.389	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

293.402	10.398	0.030000
298.354	10.147	0.030000
303.306	9.789	0.030000
308.258	9.479	0.030000
313.210	9.528	0.030000
318.162	9.338	0.030000
323.115	9.679	0.030000
328.067	10.099	0.030000
333.019	9.977	0.030000
337.971	9.877	0.030000
342.923	9.880	0.030000
347.875	9.918	0.030000
352.748	9.878	0.030000
357.622	9.809	0.030000
362.496	9.745	0.030000
367.369	9.711	0.030000
372.243	9.695	0.030000
377.117	9.638	0.030000
381.991	9.339	0.030000
386.864	9.034	0.030000
391.738	8.898	0.030000
396.612	9.171	0.030000
401.485	9.365	0.030000
406.359	9.330	0.030000
411.233	9.255	0.030000
416.106	9.231	0.030000
420.980	9.222	0.030000
425.854	9.214	0.030000
430.728	9.206	0.030000
435.601	9.198	0.030000
440.475	9.189	0.030000
445.349	9.186	0.030000
450.222	9.075	0.030000
455.096	9.074	0.030000
459.970	9.212	0.030000
464.844	9.316	0.030000
469.717	9.401	0.030000
474.591	9.485	0.030000
479.465	9.569	0.030000
484.338	9.610	0.030000
489.212	9.579	0.030000
494.086	9.540	0.030000
498.959	9.502	0.030000
503.607	9.485	0.030000
508.254	9.563	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

512.901	9.660	0.030000
517.549	8.948	0.030000
522.196	8.312	0.030000
526.843	7.976	0.030000
531.490	8.306	0.030000
536.138	8.835	0.030000
540.785	9.041	0.030000
545.751	9.100	0.030000
550.718	9.144	0.030000
555.684	9.186	0.030000
560.650	9.236	0.030000
565.617	9.270	0.030000
570.583	9.310	0.030000
575.550	9.333	0.030000
580.516	9.275	0.030000
585.482	8.909	0.030000
590.449	8.672	0.030000
595.415	8.718	0.030000
600.382	8.784	0.030000
605.348	8.811	0.030000
610.314	8.974	0.030000
615.281	9.105	0.030000
620.247	9.275	0.030000
625.214	9.416	0.030000
630.180	9.556	0.030000
635.147	9.655	0.030000
640.113	9.515	0.030000
645.079	9.193	0.030000
650.046	9.029	0.030000
655.012	9.088	0.030000
659.979	9.140	0.030000
664.945	8.846	0.030000
669.911	8.630	0.030000
674.878	8.884	0.030000
679.844	9.048	0.030000
684.811	8.863	0.030000
689.777	8.837	0.030000
694.766	8.812	0.030000
699.754	8.788	0.030000
704.743	8.775	0.030000
709.731	8.789	0.030000
714.720	8.793	0.030000
719.709	8.817	0.030000
724.697	8.811	0.030000
729.686	8.793	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

734.675	8.680	0.030000
739.663	8.627	0.030000
744.652	8.519	0.030000
749.640	8.454	0.030000
754.629	8.597	0.030000
759.618	8.534	0.030000
764.606	8.676	0.030000
769.595	8.657	0.030000
774.584	8.689	0.030000
779.572	8.721	0.030000
784.561	8.874	0.030000
789.549	8.993	0.030000
794.538	8.754	0.030000
799.527	8.542	0.030000
804.515	8.263	0.030000
809.504	8.246	0.030000
814.492	8.515	0.030000
819.481	8.753	0.030000
824.470	8.796	0.030000
829.458	8.822	0.030000
834.447	8.860	0.030000
839.436	8.892	0.030000
844.424	8.995	0.030000
849.413	8.972	0.030000
854.402	9.005	0.030000
859.390	9.098	0.030000
864.379	9.095	0.030000
869.367	9.085	0.030000
874.356	9.049	0.030000
879.345	8.998	0.030000
884.333	8.923	0.030000
889.322	8.994	0.030000
894.311	9.075	0.030000
899.299	9.099	0.030000
904.288	8.993	0.030000
909.276	8.899	0.030000
914.265	8.885	0.030000
919.254	8.880	0.030000
924.242	8.886	0.030000
929.231	8.869	0.030000
934.220	8.875	0.030000
939.208	8.379	0.030000
944.197	8.510	0.030000
949.185	8.383	0.030000
954.174	8.281	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

959.163	8.389	0.030000
964.151	8.463	0.030000
969.140	8.537	0.030000
974.129	8.601	0.030000
979.117	8.526	0.030000
984.106	8.455	0.030000
989.094	8.426	0.030000
994.083	8.398	0.030000
999.072	8.369	0.030000
1004.060	8.186	0.030000
1009.049	7.918	0.030000
1014.037	7.872	0.030000
1019.026	8.095	0.030000
1024.015	8.390	0.030000
1029.003	8.414	0.030000
1033.992	8.500	0.030000
1038.980	8.587	0.030000
1043.969	8.616	0.030000
1048.958	8.659	0.030000
1053.946	8.711	0.030000
1058.935	8.763	0.030000
1063.924	8.814	0.030000
1068.912	8.842	0.030000
1073.901	8.612	0.030000
1078.890	8.281	0.030000
1083.878	8.383	0.030000
1088.867	8.741	0.030000
1093.855	8.774	0.030000
1098.844	8.783	0.030000
1103.833	8.766	0.030000
1108.821	8.740	0.030000
1113.810	8.711	0.030000
1118.799	8.685	0.030000
1123.787	8.655	0.030000
1128.776	8.630	0.030000
1133.764	8.602	0.030000
1138.753	8.618	0.030000
1143.742	8.467	0.030000
1148.730	8.292	0.030000
1153.719	8.511	0.030000
1158.708	8.636	0.030000
1163.696	8.928	0.030000
1168.685	9.190	0.030000
1173.415	9.139	0.030000
1178.146	9.162	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1182.877	9.170	0.030000
1187.608	9.174	0.030000
1192.338	9.180	0.030000
1197.069	9.186	0.030000
1201.800	9.198	0.030000
1206.530	9.206	0.030000
1211.261	9.183	0.030000
1216.257	8.983	0.030000
1221.252	8.513	0.030000
1226.248	8.030	0.030000
1231.244	7.995	0.030000
1236.239	8.165	0.030000
1241.235	8.262	0.030000
1246.231	8.290	0.030000
1251.226	8.201	0.030000
1256.222	8.267	0.030000
1261.218	8.486	0.030000
1266.214	8.630	0.030000
1271.209	8.707	0.030000
1276.205	8.765	0.030000
1281.201	8.823	0.030000
1286.196	8.886	0.030000
1290.946	8.955	0.030000
1295.695	9.026	0.030000
1300.445	9.098	0.030000
1305.195	9.138	0.030000

Name: XF0010B                      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	12.697	0.030000
4.972	12.568	0.030000
9.944	12.600	0.030000
14.916	12.698	0.030000
19.888	12.711	0.030000
24.860	12.664	0.030000
29.831	12.638	0.030000
34.803	12.601	0.030000
39.775	12.552	0.030000
44.747	12.502	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

49.719	12.449	0.030000
54.691	12.429	0.030000
59.663	12.420	0.030000
64.635	12.411	0.030000
69.607	12.388	0.030000
74.579	12.299	0.030000
79.550	12.183	0.030000
84.522	12.066	0.030000
89.494	12.150	0.030000
94.466	12.294	0.030000
99.438	12.366	0.030000
104.410	12.498	0.030000
109.382	12.571	0.030000
114.354	12.477	0.030000
119.326	12.285	0.030000
124.298	12.056	0.030000
129.269	12.102	0.030000
134.241	12.042	0.030000
139.213	12.090	0.030000
144.185	12.348	0.030000
149.157	12.457	0.030000
154.129	12.458	0.030000
159.101	12.451	0.030000
164.073	12.436	0.030000
169.045	12.420	0.030000
174.017	12.422	0.030000
178.988	12.453	0.030000
183.960	12.478	0.030000
188.932	12.419	0.030000
193.928	12.305	0.030000
198.924	12.305	0.030000
203.920	12.430	0.030000
208.916	12.437	0.030000
213.912	12.316	0.030000
218.908	12.182	0.030000
223.904	12.036	0.030000
228.900	11.881	0.030000
233.896	11.726	0.030000
238.892	11.654	0.030000
243.888	11.789	0.030000
248.884	11.895	0.030000
253.880	11.801	0.030000
258.876	11.705	0.030000
263.873	11.662	0.030000
268.868	11.631	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

273.865	11.587	0.030000
278.861	11.336	0.030000
283.856	11.057	0.030000
288.853	10.945	0.030000
293.849	10.958	0.030000
298.845	11.133	0.030000
303.841	11.275	0.030000
308.837	11.395	0.030000
313.833	11.593	0.030000
318.829	11.636	0.030000
323.825	11.632	0.030000
328.821	11.670	0.030000
333.817	11.672	0.030000
338.813	11.684	0.030000
343.809	11.710	0.030000
348.805	11.736	0.030000
353.801	11.748	0.030000
358.797	11.731	0.030000
363.793	11.698	0.030000
368.789	11.666	0.030000
373.785	11.633	0.030000
378.781	11.601	0.030000
383.777	11.568	0.030000
388.773	11.534	0.030000
393.769	11.474	0.030000
398.765	11.354	0.030000
403.761	11.202	0.030000
408.757	11.098	0.030000
413.753	11.114	0.030000
418.749	11.142	0.030000
423.745	11.130	0.030000
428.741	11.173	0.030000
433.737	11.277	0.030000
438.733	11.407	0.030000
443.729	11.545	0.030000
448.725	11.684	0.030000
453.721	11.811	0.030000
458.717	11.858	0.030000
463.713	11.830	0.030000
468.709	11.873	0.030000
473.705	11.989	0.030000
478.701	12.106	0.030000
483.697	12.226	0.030000
488.693	12.215	0.030000
493.689	12.008	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

498.685	11.820	0.030000
503.681	11.588	0.030000
508.677	11.388	0.030000
513.673	11.431	0.030000
518.669	11.512	0.030000
523.665	11.606	0.030000
528.661	11.661	0.030000
533.657	11.620	0.030000
538.653	11.606	0.030000
543.649	11.657	0.030000
548.645	11.742	0.030000
553.641	11.828	0.030000
558.637	11.913	0.030000
563.633	11.999	0.030000
568.629	12.085	0.030000
573.625	12.199	0.030000
578.621	12.265	0.030000
583.617	12.267	0.030000
588.613	12.190	0.030000
593.609	11.977	0.030000
598.605	11.765	0.030000
603.601	11.662	0.030000
608.597	11.837	0.030000
613.593	12.127	0.030000
618.590	12.090	0.030000
623.586	11.809	0.030000
628.582	11.597	0.030000
633.577	11.367	0.030000
638.574	11.455	0.030000
643.570	11.828	0.030000
648.566	11.965	0.030000
653.562	11.998	0.030000

-----

Name: XF0011B	Group: F
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	11.998	0.030000
4.815	12.039	0.030000
9.630	12.081	0.030000
14.445	12.080	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

19.260	12.065	0.030000
24.075	12.168	0.030000
28.890	12.195	0.030000
33.705	12.181	0.030000
38.520	12.171	0.030000
43.334	12.129	0.030000
48.150	12.183	0.030000
52.964	12.233	0.030000
57.779	12.283	0.030000
62.594	12.254	0.030000
67.409	12.243	0.030000
72.224	12.181	0.030000
77.039	12.129	0.030000
81.778	12.192	0.030000
86.516	12.187	0.030000
91.255	12.208	0.030000
95.994	12.219	0.030000
100.733	12.171	0.030000
105.471	12.220	0.030000
110.210	12.300	0.030000
114.803	12.241	0.030000
119.396	12.174	0.030000
123.988	12.175	0.030000
128.581	12.171	0.030000
133.174	12.317	0.030000
137.767	12.402	0.030000

Name: XF0020A                      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	10.469	0.030000
5.000	10.491	0.030000
10.000	10.595	0.030000
15.000	10.699	0.030000
20.000	10.754	0.030000
25.000	10.699	0.030000
30.000	10.737	0.030000
35.000	10.643	0.030000
38.436	10.640	0.030000
41.872	10.490	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

45.308	10.481	0.030000
49.858	10.555	0.030000
54.408	10.626	0.030000
58.958	10.690	0.030000
63.508	10.738	0.030000
68.058	10.694	0.030000
72.608	10.687	0.030000
77.158	10.677	0.030000
81.708	10.655	0.030000
85.144	10.634	0.030000
88.580	10.618	0.030000
92.016	10.615	0.030000
96.469	10.651	0.030000
100.922	10.668	0.030000
105.375	10.684	0.030000
109.829	10.669	0.030000
114.282	10.650	0.030000
118.735	10.627	0.030000
123.188	10.590	0.030000
127.641	10.612	0.030000
132.094	10.668	0.030000
135.428	10.685	0.030000
138.761	10.616	0.030000
142.094	10.538	0.030000
146.343	10.430	0.030000
150.593	10.308	0.030000
154.842	10.110	0.030000
159.091	9.907	0.030000
163.340	9.885	0.030000
167.589	9.869	0.030000
172.004	9.714	0.030000
176.418	9.636	0.030000
180.833	9.688	0.030000
185.247	9.487	0.030000
190.165	9.352	0.030000
195.082	9.208	0.030000
199.999	9.101	0.030000
204.917	8.978	0.030000
209.834	9.118	0.030000
214.751	9.216	0.030000
219.669	9.218	0.030000
224.586	9.250	0.030000
229.504	9.471	0.030000
234.421	9.600	0.030000
238.840	9.842	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

243.260	9.945	0.030000
247.679	10.026	0.030000
252.099	10.105	0.030000
255.535	10.135	0.030000
258.971	10.196	0.030000
262.406	10.242	0.030000
266.133	10.295	0.030000
269.860	10.349	0.030000
273.587	10.384	0.030000
278.587	10.360	0.030000
283.587	10.289	0.030000
288.587	10.181	0.030000
293.587	10.001	0.030000
298.074	9.740	0.030000
302.562	9.549	0.030000
307.050	9.605	0.030000
311.537	9.711	0.030000
316.025	9.797	0.030000
320.498	9.741	0.030000
324.971	9.773	0.030000
329.444	9.898	0.030000
333.917	10.022	0.030000
338.445	10.183	0.030000
342.973	10.092	0.030000
347.500	10.041	0.030000
352.028	10.024	0.030000
356.556	10.032	0.030000
360.283	10.030	0.030000
364.009	10.119	0.030000
367.736	10.112	0.030000
371.172	10.036	0.030000
374.608	10.014	0.030000
378.044	10.049	0.030000
382.088	10.139	0.030000
386.133	10.210	0.030000
390.177	10.233	0.030000
394.307	10.241	0.030000
398.436	10.234	0.030000
402.566	10.203	0.030000
407.425	10.128	0.030000
412.284	10.068	0.030000
417.143	10.023	0.030000
421.096	9.992	0.030000
425.049	9.960	0.030000
429.002	9.924	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

432.955	9.915	0.030000
437.814	9.878	0.030000
442.673	9.875	0.030000
447.532	9.754	0.030000
452.391	9.598	0.030000
457.250	9.525	0.030000
462.109	9.647	0.030000
466.457	9.727	0.030000
470.805	9.825	0.030000
475.153	9.910	0.030000
479.568	9.801	0.030000
483.982	9.682	0.030000
488.397	9.590	0.030000
492.811	9.494	0.030000
496.934	9.357	0.030000
501.057	9.294	0.030000
505.180	9.437	0.030000
509.303	9.528	0.030000
513.427	9.573	0.030000
517.774	9.517	0.030000
522.122	9.465	0.030000
526.470	9.488	0.030000
530.885	9.468	0.030000
535.299	9.444	0.030000
539.714	9.430	0.030000
544.128	9.428	0.030000
548.785	9.406	0.030000
553.442	9.378	0.030000
558.098	9.339	0.030000
562.755	9.292	0.030000
567.411	9.270	0.030000
572.068	9.434	0.030000
576.724	9.647	0.030000
581.212	9.838	0.030000
585.700	10.012	0.030000
590.187	10.024	0.030000
594.187	10.076	0.030000
598.187	10.129	0.030000
602.187	10.181	0.030000
606.187	10.247	0.030000
610.187	10.266	0.030000
613.937	10.273	0.030000
617.687	10.313	0.030000
621.437	10.410	0.030000
625.187	10.445	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

628.521	10.512	0.030000
631.854	10.318	0.030000
635.187	10.111	0.030000
638.989	9.931	0.030000
642.791	9.626	0.030000
646.592	10.046	0.030000
650.394	10.268	0.030000
653.830	10.366	0.030000
657.266	10.416	0.030000
660.702	10.406	0.030000
664.951	10.459	0.030000
669.200	10.510	0.030000
673.449	10.559	0.030000
677.699	10.597	0.030000
681.744	10.556	0.030000
685.789	10.497	0.030000
689.834	10.438	0.030000
693.879	10.379	0.030000
697.910	10.334	0.030000
701.941	10.316	0.030000
705.972	10.464	0.030000
710.004	10.586	0.030000
714.035	10.522	0.030000
718.079	10.399	0.030000
722.124	10.009	0.030000
726.168	9.948	0.030000
730.597	10.046	0.030000
735.027	10.142	0.030000
739.534	10.207	0.030000
744.041	10.231	0.030000
748.683	10.103	0.030000
753.326	10.062	0.030000
757.969	10.028	0.030000
762.612	9.920	0.030000
767.255	9.800	0.030000
771.898	9.767	0.030000
776.541	9.793	0.030000
780.826	9.866	0.030000
785.112	9.996	0.030000
789.398	10.119	0.030000
793.683	10.165	0.030000
797.969	10.184	0.030000
802.255	10.200	0.030000
806.541	10.216	0.030000
810.267	10.186	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

813.994	10.139	0.030000
817.721	10.075	0.030000
822.580	10.049	0.030000
827.439	10.276	0.030000
832.298	10.421	0.030000
836.491	10.406	0.030000
840.684	10.406	0.030000
844.876	10.382	0.030000
849.069	10.391	0.030000
853.318	10.396	0.030000
857.567	10.386	0.030000
861.816	10.365	0.030000
865.566	10.357	0.030000
869.316	10.341	0.030000
873.066	10.324	0.030000
876.816	10.307	0.030000
880.150	10.301	0.030000
883.483	10.295	0.030000
886.816	10.289	0.030000
891.816	10.267	0.030000
896.816	10.238	0.030000
900.861	10.222	0.030000
904.905	10.205	0.030000
908.950	10.199	0.030000
913.379	10.222	0.030000
917.808	10.256	0.030000
922.156	10.251	0.030000
926.504	10.172	0.030000
930.852	10.063	0.030000
935.378	10.123	0.030000
939.903	10.160	0.030000
944.428	10.275	0.030000
948.954	10.411	0.030000
953.479	10.547	0.030000
958.004	10.682	0.030000
962.530	10.768	0.030000
967.432	10.771	0.030000
972.333	10.774	0.030000
977.235	10.809	0.030000
981.987	10.812	0.030000
986.738	10.758	0.030000
991.490	10.765	0.030000
996.242	10.822	0.030000
1000.671	10.668	0.030000
1005.100	10.554	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1009.702	10.556	0.030000
1014.305	10.552	0.030000
1017.926	10.511	0.030000
1021.548	10.409	0.030000
1025.170	10.262	0.030000
1029.655	10.100	0.030000
1034.141	9.921	0.030000
1038.626	9.709	0.030000
1043.111	9.560	0.030000
1047.597	9.574	0.030000
1052.082	9.749	0.030000
1056.567	10.045	0.030000
1061.052	10.358	0.030000
1065.538	10.278	0.030000

Name: XF0030A                      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	9.948	0.030000
4.809	9.783	0.030000
9.618	9.611	0.030000
14.427	9.439	0.030000
19.236	9.268	0.030000
24.045	9.111	0.030000
28.855	9.093	0.030000
33.663	9.108	0.030000
38.473	9.125	0.030000
43.282	9.141	0.030000
48.091	9.158	0.030000
52.900	9.174	0.030000
57.709	9.183	0.030000
62.518	9.212	0.030000
67.327	9.341	0.030000
72.136	9.683	0.030000
76.945	10.092	0.030000
81.754	10.285	0.030000
86.514	10.101	0.030000
91.274	9.924	0.030000
96.034	9.697	0.030000
100.795	9.470	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

105.555	9.243	0.030000
110.315	8.918	0.030000
115.075	8.339	0.030000
119.835	7.538	0.030000
124.595	6.754	0.030000
129.355	5.859	0.030000
134.115	5.927	0.030000
138.875	6.908	0.030000
143.635	7.956	0.030000
148.395	8.650	0.030000
153.155	9.219	0.030000
157.915	9.679	0.030000
162.707	9.741	0.030000
167.498	9.780	0.030000
172.289	9.713	0.030000
177.081	9.625	0.030000
181.872	9.537	0.030000
186.663	9.465	0.030000
191.455	9.494	0.030000
196.417	9.816	0.030000
201.380	9.874	0.030000
206.343	9.917	0.030000
211.306	9.974	0.030000
216.268	10.006	0.030000
221.231	9.995	0.030000
226.194	9.969	0.030000
231.156	9.929	0.030000
236.119	9.859	0.030000
241.082	9.790	0.030000
246.045	9.749	0.030000
251.007	9.825	0.030000
255.970	9.931	0.030000
260.933	10.039	0.030000
265.895	10.147	0.030000
270.858	10.240	0.030000
275.821	10.299	0.030000
280.784	10.306	0.030000
285.746	10.307	0.030000
290.709	10.321	0.030000
295.672	10.370	0.030000
300.650	10.444	0.030000
305.628	10.457	0.030000
310.606	10.365	0.030000
315.584	10.533	0.030000
320.562	10.563	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

325.540	10.531	0.030000
330.518	10.498	0.030000
335.496	10.265	0.030000
340.474	10.081	0.030000
345.452	9.978	0.030000
350.430	9.968	0.030000
355.408	9.937	0.030000
360.386	10.007	0.030000
365.365	10.130	0.030000
370.342	10.297	0.030000
375.321	10.323	0.030000
380.131	10.286	0.030000
384.941	10.204	0.030000
389.751	10.228	0.030000
394.561	10.269	0.030000
399.371	10.337	0.030000
404.182	10.409	0.030000
408.992	10.607	0.030000
413.802	10.838	0.030000
418.612	10.818	0.030000
423.422	10.808	0.030000
428.232	10.880	0.030000
433.043	10.885	0.030000
437.853	10.910	0.030000
442.663	10.999	0.030000
447.473	11.039	0.030000
450.909	11.025	0.030000
454.345	10.975	0.030000
457.781	10.963	0.030000
461.880	10.923	0.030000
465.980	10.841	0.030000
470.079	10.861	0.030000
474.179	10.770	0.030000
478.278	10.697	0.030000
483.268	10.597	0.030000
488.258	10.665	0.030000
493.248	10.858	0.030000
498.238	11.020	0.030000
502.652	11.156	0.030000
507.067	11.311	0.030000
511.481	11.459	0.030000
515.896	11.577	0.030000
519.453	11.552	0.030000
523.010	11.529	0.030000
526.568	11.458	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

530.997	11.418	0.030000
535.426	11.296	0.030000
539.426	11.230	0.030000
543.426	11.148	0.030000
547.426	11.241	0.030000
551.426	11.075	0.030000
555.426	10.896	0.030000
559.153	10.737	0.030000
562.880	10.605	0.030000
566.606	10.523	0.030000
571.606	10.529	0.030000
576.606	10.558	0.030000
579.940	10.544	0.030000
583.273	10.530	0.030000
586.606	10.516	0.030000
590.408	10.502	0.030000
594.210	10.493	0.030000
598.011	10.481	0.030000
601.813	10.469	0.030000

Name: XF0040B                      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	9.375	0.030000
4.549	9.284	0.030000
9.098	9.157	0.030000
13.646	9.177	0.030000
18.195	9.157	0.030000
22.744	9.123	0.030000
27.293	9.079	0.030000
31.842	9.033	0.030000
36.695	8.973	0.030000
41.548	8.941	0.030000
46.402	8.925	0.030000
51.255	8.909	0.030000
56.109	8.894	0.030000
59.666	8.884	0.030000
63.223	8.874	0.030000
66.781	8.864	0.030000
70.825	8.851	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

74.870	8.838	0.030000
78.914	8.825	0.030000
82.716	8.808	0.030000
86.517	8.760	0.030000
90.319	8.834	0.030000
94.121	8.869	0.030000
98.550	8.902	0.030000
102.979	8.909	0.030000
107.196	8.941	0.030000
111.412	8.972	0.030000
115.629	8.999	0.030000
119.845	9.030	0.030000
124.061	9.065	0.030000
128.310	9.031	0.030000
132.560	9.016	0.030000
136.809	9.004	0.030000
141.058	8.992	0.030000
146.058	8.940	0.030000
151.058	8.888	0.030000
156.058	8.856	0.030000
160.442	8.838	0.030000
164.827	8.810	0.030000
169.211	8.938	0.030000
173.595	9.000	0.030000
177.980	8.980	0.030000
182.024	9.011	0.030000
186.069	9.041	0.030000
190.113	9.041	0.030000
193.549	9.038	0.030000
196.985	9.004	0.030000
200.421	8.970	0.030000
203.857	8.943	0.030000
207.293	8.943	0.030000
210.729	8.973	0.030000
214.165	8.956	0.030000
217.601	8.933	0.030000
221.036	8.906	0.030000
225.373	8.886	0.030000
229.709	8.860	0.030000
234.046	8.848	0.030000
238.382	8.847	0.030000
242.719	8.765	0.030000
246.891	8.713	0.030000
251.063	8.709	0.030000
255.235	8.701	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

259.406	8.694	0.030000
263.133	8.683	0.030000
266.860	8.673	0.030000
270.587	8.683	0.030000
274.716	8.691	0.030000
278.846	8.712	0.030000
282.975	8.719	0.030000
287.599	8.708	0.030000
292.222	8.750	0.030000
296.846	8.768	0.030000
301.469	8.783	0.030000
306.229	8.801	0.030000
310.989	8.799	0.030000
314.739	8.782	0.030000
318.489	8.775	0.030000
322.239	8.851	0.030000
325.989	8.980	0.030000
330.989	9.055	0.030000
335.989	9.008	0.030000
340.238	9.042	0.030000
344.487	9.040	0.030000
348.736	9.042	0.030000
353.264	8.816	0.030000
357.791	8.762	0.030000
362.319	8.721	0.030000
366.847	8.753	0.030000
371.375	8.769	0.030000
376.375	8.810	0.030000
381.375	8.826	0.030000
385.902	8.836	0.030000
390.430	8.828	0.030000
394.958	8.831	0.030000
399.485	8.887	0.030000
404.013	9.028	0.030000
408.770	9.061	0.030000
413.526	8.976	0.030000
418.283	8.944	0.030000
423.039	8.888	0.030000
427.796	8.783	0.030000
432.553	8.730	0.030000
437.309	8.720	0.030000
442.066	8.749	0.030000
446.822	8.786	0.030000
451.579	8.808	0.030000
456.067	8.832	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

460.554	8.936	0.030000
465.042	9.117	0.030000
469.901	8.992	0.030000
474.760	8.996	0.030000
479.619	8.996	0.030000
484.048	8.992	0.030000
488.478	8.962	0.030000
492.907	8.879	0.030000
497.336	8.817	0.030000
501.063	8.817	0.030000
504.790	8.787	0.030000
508.516	8.804	0.030000
511.850	8.836	0.030000
515.183	8.863	0.030000
518.516	8.870	0.030000
522.469	8.888	0.030000
526.422	8.914	0.030000
530.375	8.917	0.030000
534.328	8.905	0.030000
538.912	8.857	0.030000
543.497	8.818	0.030000
548.081	8.849	0.030000
552.666	8.907	0.030000
557.250	9.004	0.030000
561.835	9.150	0.030000
566.419	9.369	0.030000
571.004	9.320	0.030000
574.561	9.569	0.030000
578.119	9.826	0.030000
581.676	9.984	0.030000
585.925	9.971	0.030000
590.174	9.961	0.030000
594.423	9.969	0.030000
598.673	9.983	0.030000
602.108	9.984	0.030000
605.544	9.981	0.030000
608.980	9.978	0.030000
613.328	9.977	0.030000
617.676	9.977	0.030000
622.024	9.976	0.030000
626.901	9.985	0.030000
631.778	9.992	0.030000
636.655	10.004	0.030000
641.532	9.964	0.030000
645.781	9.960	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

650.030	9.965	0.030000
654.279	9.969	0.030000
658.529	9.971	0.030000
663.173	9.970	0.030000
667.817	9.993	0.030000
672.462	10.043	0.030000
677.106	10.102	0.030000
681.751	10.194	0.030000
686.395	10.254	0.030000
691.039	10.206	0.030000
695.684	10.033	0.030000
700.328	10.038	0.030000
704.816	10.076	0.030000
709.304	10.063	0.030000
713.791	10.049	0.030000
718.279	10.036	0.030000
722.766	10.022	0.030000
727.181	10.012	0.030000
731.596	10.003	0.030000
736.010	9.993	0.030000
740.425	9.981	0.030000
744.854	10.001	0.030000
749.283	9.975	0.030000
752.719	9.963	0.030000
756.155	9.959	0.030000
759.591	9.943	0.030000
764.591	9.935	0.030000
769.591	9.928	0.030000
774.591	9.919	0.030000
778.027	9.905	0.030000
781.463	9.899	0.030000
784.899	9.878	0.030000
789.642	9.840	0.030000
794.385	9.802	0.030000
799.129	9.799	0.030000
803.872	9.898	0.030000
808.616	9.862	0.030000
813.103	9.920	0.030000
817.591	9.941	0.030000
822.078	9.952	0.030000
825.412	9.958	0.030000
828.745	9.963	0.030000
832.078	9.966	0.030000
836.110	9.972	0.030000
840.141	9.977	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

844.172	9.983	0.030000
848.203	9.988	0.030000
852.234	9.994	0.030000
855.568	9.998	0.030000
858.901	10.003	0.030000
862.234	10.003	0.030000
866.734	9.984	0.030000
871.234	9.914	0.030000
875.734	9.839	0.030000
880.234	9.923	0.030000
884.734	9.861	0.030000
888.741	9.811	0.030000
892.748	9.840	0.030000
896.755	9.764	0.030000
900.762	9.384	0.030000
904.769	9.410	0.030000
909.198	9.447	0.030000
913.627	9.482	0.030000
917.354	9.514	0.030000
921.081	9.715	0.030000
924.808	9.818	0.030000
929.222	9.871	0.030000
933.637	9.923	0.030000
938.051	9.973	0.030000
942.466	9.991	0.030000
946.296	9.979	0.030000
950.126	10.028	0.030000
953.956	10.118	0.030000
957.786	10.260	0.030000
962.206	10.267	0.030000
966.625	10.279	0.030000
971.045	10.278	0.030000
975.464	10.291	0.030000
980.424	10.219	0.030000
985.385	9.693	0.030000
990.346	9.094	0.030000
995.306	8.754	0.030000
1000.267	8.092	0.030000
1005.227	7.840	0.030000
1010.188	7.787	0.030000
1015.148	7.894	0.030000
1020.109	7.931	0.030000
1025.069	8.466	0.030000
1030.030	9.319	0.030000
1034.990	9.645	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1039.950	9.761	0.030000
1044.911	9.835	0.030000
1049.872	9.843	0.030000
1054.832	9.771	0.030000
1059.793	9.714	0.030000
1064.753	9.809	0.030000
1069.714	9.777	0.030000
1074.674	9.789	0.030000
1079.634	9.777	0.030000
1084.595	9.763	0.030000
1089.555	9.749	0.030000
1094.516	9.735	0.030000
1099.477	9.720	0.030000
1104.437	9.701	0.030000
1109.398	9.650	0.030000
1114.358	9.544	0.030000
1119.319	9.462	0.030000
1124.279	9.381	0.030000
1129.240	9.299	0.030000
1134.200	9.224	0.030000
1139.161	9.250	0.030000
1144.121	9.354	0.030000
1149.082	9.345	0.030000
1154.042	9.358	0.030000
1159.003	9.365	0.030000
1163.963	9.372	0.030000
1168.924	9.379	0.030000
1173.884	9.386	0.030000
1178.845	9.395	0.030000
1183.805	9.418	0.030000
1188.766	9.383	0.030000
1193.726	9.263	0.030000
1198.687	9.306	0.030000
1203.647	9.432	0.030000
1208.608	9.563	0.030000
1213.568	9.694	0.030000
1218.529	9.817	0.030000
1223.489	9.811	0.030000
1228.450	9.768	0.030000
1233.410	9.721	0.030000
1238.371	9.680	0.030000
1243.331	9.639	0.030000
1248.292	9.578	0.030000
1253.252	9.500	0.030000
1258.213	9.395	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1263.128	9.249	0.030000
1268.042	9.110	0.030000
1272.957	9.098	0.030000
1277.872	9.180	0.030000
1282.787	9.401	0.030000
1287.702	9.653	0.030000
1292.616	9.439	0.030000
1297.531	8.920	0.030000
1302.446	8.609	0.030000
1307.361	8.362	0.030000
1312.276	8.148	0.030000
1317.190	8.272	0.030000
1322.105	8.605	0.030000
1327.020	8.979	0.030000
1331.935	9.141	0.030000
1336.850	9.215	0.030000
1341.765	9.220	0.030000
1346.679	9.174	0.030000
1351.459	9.110	0.030000
1356.239	9.046	0.030000
1361.018	8.982	0.030000
1365.798	8.918	0.030000
1370.578	8.853	0.030000
1375.357	8.765	0.030000
1380.137	7.964	0.030000
1384.916	8.173	0.030000
1389.696	8.628	0.030000
1394.476	8.519	0.030000
1399.255	8.423	0.030000
1404.035	8.408	0.030000
1408.814	8.407	0.030000
1413.594	8.409	0.030000
1418.374	8.411	0.030000
1423.153	8.412	0.030000
1427.933	8.519	0.030000
1432.713	8.784	0.030000
1437.492	8.689	0.030000

Name: XF0040C      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	9.375	0.030000
5.000	9.326	0.030000
10.000	9.194	0.030000
15.000	9.196	0.030000
20.000	9.117	0.030000
23.802	9.232	0.030000
27.604	9.260	0.030000
31.405	9.297	0.030000
35.207	9.357	0.030000
39.636	9.316	0.030000
44.065	9.358	0.030000
47.687	9.285	0.030000
51.309	9.062	0.030000
54.931	9.099	0.030000
59.097	9.028	0.030000
63.264	9.051	0.030000
67.431	9.067	0.030000
71.680	9.032	0.030000
75.929	8.997	0.030000
80.178	9.011	0.030000
84.427	9.135	0.030000
88.677	9.423	0.030000
92.926	9.617	0.030000
97.926	9.696	0.030000
100.426	9.780	0.030000
102.926	9.800	0.030000
107.926	9.804	0.030000
111.653	9.804	0.030000
115.379	9.805	0.030000
119.106	9.788	0.030000
122.833	9.782	0.030000
126.560	9.775	0.030000
130.286	9.769	0.030000
135.286	9.741	0.030000
140.286	9.736	0.030000
145.286	9.752	0.030000
147.786	9.760	0.030000
150.286	9.767	0.030000
154.013	9.754	0.030000
157.740	9.738	0.030000
161.467	9.738	0.030000
165.420	9.733	0.030000
169.373	9.726	0.030000
173.325	9.718	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

177.278	9.724	0.030000
182.137	9.704	0.030000
186.997	9.703	0.030000
191.856	9.748	0.030000
196.343	9.626	0.030000
200.831	9.606	0.030000
205.319	9.677	0.030000
210.319	9.625	0.030000
215.319	9.539	0.030000
220.319	9.401	0.030000
224.363	9.258	0.030000
228.408	9.110	0.030000
232.452	9.211	0.030000
236.282	9.192	0.030000
240.112	9.231	0.030000
243.943	9.351	0.030000
247.773	9.538	0.030000
251.726	9.630	0.030000
255.678	9.563	0.030000
259.631	9.539	0.030000
263.584	9.628	0.030000
267.777	9.614	0.030000
271.969	9.593	0.030000
276.162	9.569	0.030000
280.355	9.532	0.030000
284.774	9.472	0.030000
289.193	9.401	0.030000
293.613	9.366	0.030000
298.032	9.373	0.030000
302.462	9.420	0.030000
306.891	9.467	0.030000
311.472	9.444	0.030000
316.053	9.407	0.030000
320.634	9.386	0.030000
324.679	9.443	0.030000
328.723	9.566	0.030000
332.768	9.649	0.030000
336.948	9.692	0.030000
341.128	9.717	0.030000
345.308	9.749	0.030000
349.488	9.791	0.030000
353.668	9.824	0.030000
357.803	9.825	0.030000
361.938	9.826	0.030000
366.074	9.827	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

370.209	9.935	0.030000
374.050	9.928	0.030000
377.892	9.441	0.030000
381.733	9.271	0.030000
385.575	9.465	0.030000
389.741	9.796	0.030000
393.908	9.965	0.030000
398.075	9.786	0.030000
402.241	9.731	0.030000
406.408	9.712	0.030000
410.575	9.664	0.030000
415.125	9.562	0.030000
419.675	9.481	0.030000
424.225	9.419	0.030000
428.775	9.379	0.030000
433.024	9.425	0.030000
437.274	9.673	0.030000
441.523	9.609	0.030000
445.523	9.584	0.030000
449.523	9.397	0.030000
453.523	9.422	0.030000
457.523	9.454	0.030000
461.523	9.463	0.030000
465.942	9.425	0.030000
470.361	9.365	0.030000
474.781	9.397	0.030000
479.200	9.424	0.030000
483.688	9.461	0.030000
488.176	9.499	0.030000
492.663	9.536	0.030000
496.616	9.569	0.030000
500.569	9.601	0.030000
504.522	9.590	0.030000
508.475	9.570	0.030000
513.133	9.554	0.030000
517.792	9.515	0.030000
522.450	9.482	0.030000
527.109	9.541	0.030000
531.767	9.590	0.030000
536.426	9.583	0.030000
540.592	9.570	0.030000
544.759	9.592	0.030000
548.926	9.623	0.030000
552.361	9.649	0.030000
555.797	9.673	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

559.233	9.716	0.030000
564.233	9.695	0.030000
569.233	9.687	0.030000
573.264	9.711	0.030000
577.295	9.707	0.030000
581.327	9.538	0.030000
585.358	9.456	0.030000
589.389	9.439	0.030000
593.896	9.538	0.030000
598.403	9.738	0.030000
602.931	9.713	0.030000
607.458	9.812	0.030000
611.986	9.957	0.030000
616.514	10.019	0.030000
621.041	9.948	0.030000

Name: XF0040D                      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	5.639	0.030000
4.907	5.641	0.030000
9.815	5.393	0.030000
14.723	5.517	0.030000
18.773	5.520	0.030000
22.824	5.572	0.030000
26.874	5.800	0.030000
30.930	5.930	0.030000
34.986	5.939	0.030000
39.042	5.916	0.030000
43.098	5.833	0.030000
47.154	5.678	0.030000
52.130	5.544	0.030000
57.106	5.553	0.030000
62.082	5.562	0.030000
67.058	5.571	0.030000
72.034	5.590	0.030000
77.010	5.694	0.030000
81.986	5.933	0.030000
86.962	6.035	0.030000
91.938	6.040	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

96.914	6.047	0.030000
101.890	6.055	0.030000
106.866	5.969	0.030000
111.842	5.734	0.030000
116.818	5.705	0.030000
121.794	5.936	0.030000
126.770	5.921	0.030000
131.746	5.949	0.030000
136.722	5.979	0.030000
141.698	6.060	0.030000
146.674	6.274	0.030000
151.624	6.186	0.030000
156.574	6.097	0.030000
161.524	6.008	0.030000
166.474	5.919	0.030000
171.424	5.859	0.030000
176.374	5.988	0.030000
181.324	5.976	0.030000
186.274	5.966	0.030000
191.224	6.010	0.030000
196.174	6.143	0.030000
201.124	6.392	0.030000
206.074	6.605	0.030000
211.024	6.992	0.030000
215.974	7.544	0.030000
220.924	8.017	0.030000
225.874	8.031	0.030000
230.824	7.672	0.030000
235.774	7.681	0.030000
240.724	7.701	0.030000
245.674	7.629	0.030000
250.624	7.549	0.030000
255.574	7.467	0.030000
260.524	7.385	0.030000
265.474	7.302	0.030000
270.424	7.221	0.030000
275.374	7.139	0.030000
280.324	7.063	0.030000
285.274	6.607	0.030000
290.224	6.269	0.030000
295.174	6.300	0.030000
300.124	6.355	0.030000
305.074	6.846	0.030000
310.024	7.206	0.030000
314.974	7.305	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

319.924	7.218	0.030000
324.874	7.131	0.030000
329.824	7.043	0.030000
334.774	6.943	0.030000
339.724	6.767	0.030000
344.674	6.689	0.030000
349.624	6.634	0.030000
354.574	6.545	0.030000
359.524	6.373	0.030000
364.474	6.110	0.030000
369.424	5.847	0.030000
374.374	5.737	0.030000
379.324	5.968	0.030000
384.274	6.235	0.030000
389.224	6.419	0.030000
394.174	6.474	0.030000
399.124	6.504	0.030000
404.074	6.532	0.030000
409.024	6.561	0.030000
413.974	6.590	0.030000
418.857	6.680	0.030000
423.741	6.753	0.030000
428.625	6.768	0.030000
433.508	6.765	0.030000
438.392	6.763	0.030000
443.275	6.761	0.030000
448.159	6.760	0.030000
453.043	6.738	0.030000
457.926	6.321	0.030000
462.810	6.022	0.030000
467.693	6.077	0.030000
472.577	6.186	0.030000
477.461	6.243	0.030000
482.344	6.254	0.030000
487.228	6.311	0.030000
492.112	6.369	0.030000
496.995	6.426	0.030000
501.879	6.484	0.030000
506.762	6.541	0.030000
511.675	6.631	0.030000
516.587	6.706	0.030000
521.499	6.803	0.030000
526.412	6.885	0.030000
531.324	6.904	0.030000
536.236	6.800	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

541.149	6.466	0.030000
546.061	6.451	0.030000
550.973	6.522	0.030000
555.885	6.714	0.030000
560.798	6.868	0.030000
565.710	7.233	0.030000
570.622	7.489	0.030000
575.535	7.729	0.030000
580.447	7.917	0.030000
585.359	7.910	0.030000
590.272	7.842	0.030000
595.184	7.797	0.030000
600.096	7.756	0.030000
605.009	7.716	0.030000
609.921	7.676	0.030000
614.833	7.638	0.030000
619.745	7.615	0.030000
624.658	7.528	0.030000
629.570	7.322	0.030000
634.482	7.109	0.030000
639.395	7.003	0.030000
644.307	6.968	0.030000
649.219	6.835	0.030000
654.132	6.702	0.030000
659.044	6.663	0.030000
663.956	6.718	0.030000
668.869	6.789	0.030000
673.781	6.857	0.030000
678.693	6.928	0.030000
683.605	7.002	0.030000
688.518	7.077	0.030000
693.430	7.153	0.030000
698.342	7.231	0.030000
703.255	7.310	0.030000
708.167	7.390	0.030000
713.079	7.438	0.030000
717.991	7.491	0.030000
722.904	7.515	0.030000
727.816	7.456	0.030000
732.728	7.386	0.030000
737.641	7.430	0.030000
742.553	7.536	0.030000
747.465	7.665	0.030000
752.378	7.836	0.030000
757.290	8.022	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

761.577	8.097	0.030000
765.864	8.173	0.030000
770.152	8.221	0.030000
774.881	8.174	0.030000
779.610	8.106	0.030000
784.339	8.095	0.030000
789.069	8.018	0.030000
793.798	7.923	0.030000
798.527	7.845	0.030000
803.257	7.678	0.030000
807.986	6.734	0.030000
812.715	5.774	0.030000
817.445	5.164	0.030000
822.174	5.004	0.030000
826.903	5.611	0.030000
831.633	5.909	0.030000
836.362	5.736	0.030000
841.318	5.647	0.030000
846.275	5.662	0.030000
851.231	5.684	0.030000
856.187	5.381	0.030000
861.144	5.207	0.030000
866.100	5.106	0.030000
871.057	5.035	0.030000
876.013	4.985	0.030000
880.969	5.104	0.030000
885.926	5.433	0.030000
890.882	6.284	0.030000
895.838	7.242	0.030000
900.795	8.079	0.030000
905.349	8.697	0.030000
909.903	8.666	0.030000
914.457	8.631	0.030000
919.011	8.646	0.030000
923.565	8.646	0.030000
928.120	8.665	0.030000
932.674	8.630	0.030000
937.228	8.671	0.030000
941.782	8.664	0.030000
946.336	8.689	0.030000

-----  
Name: XF0042A\_1  
Encroachment: No

Group: F

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)   Elevation(ft)   Manning's N

0.000	4.964	0.085000
4.965	4.038	0.085000
9.930	3.086	0.085000
14.895	2.040	0.085000
19.859	1.405	0.085000
24.824	0.842	0.085000
29.789	0.904	0.085000
34.754	0.546	0.085000
39.719	0.958	0.085000
44.683	1.432	0.085000
49.648	1.442	0.085000
54.613	0.814	0.085000
59.578	0.387	0.085000
64.543	0.347	0.085000
69.507	0.450	0.085000
74.472	0.486	0.085000
79.437	0.590	0.085000
84.402	0.665	0.085000
89.367	0.638	0.085000
94.332	0.661	0.085000
99.296	0.678	0.085000
104.261	0.651	0.085000
109.226	0.772	0.085000
114.191	0.831	0.085000
119.156	0.805	0.085000
124.121	0.729	0.085000
129.085	0.818	0.085000
134.050	0.928	0.085000
139.015	0.942	0.085000
143.980	0.836	0.085000
148.945	0.762	0.085000
153.910	0.950	0.085000
158.874	1.007	0.085000
163.839	0.781	0.085000
168.804	0.514	0.085000
173.769	2.238	0.085000
178.734	2.398	0.085000
183.699	2.251	0.085000
188.663	2.105	0.085000
193.628	1.910	0.085000
198.593	1.445	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

203.558	1.254	0.085000
208.523	0.821	0.085000
213.487	1.370	0.085000
218.452	1.999	0.085000
223.417	2.509	0.085000
228.382	3.018	0.085000
233.347	3.778	0.085000
238.312	4.995	0.085000

Name: XF0042A\_2                      Group: F  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	3.010	0.085000
4.983	2.826	0.085000
9.966	2.012	0.085000
14.948	1.111	0.085000
19.931	0.596	0.085000
24.914	0.400	0.085000
29.897	0.436	0.085000
34.880	0.540	0.085000
39.863	0.613	0.085000
44.846	0.644	0.085000
49.828	0.653	0.085000
54.811	0.582	0.085000
59.794	0.484	0.085000
64.777	0.318	0.085000
69.760	0.976	0.085000
74.743	1.631	0.085000
79.725	1.807	0.085000
84.708	1.769	0.085000
89.691	1.702	0.085000
94.674	1.610	0.085000
99.657	1.375	0.085000
104.640	1.692	0.085000
109.622	2.238	0.085000
114.605	2.773	0.085000
119.588	2.536	0.085000
124.571	1.976	0.085000
129.554	1.394	0.085000
134.536	1.187	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

139.519	1.527	0.085000
144.502	2.049	0.085000
149.485	2.423	0.085000
154.468	2.843	0.085000

Name: XF0050B      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	8.689	0.030000
4.959	8.567	0.030000
9.918	8.516	0.030000
14.877	8.543	0.030000
19.835	8.569	0.030000
24.794	8.596	0.030000
29.753	8.618	0.030000
34.712	8.639	0.030000
39.671	8.645	0.030000
44.630	8.629	0.030000
49.589	8.625	0.030000
54.547	8.616	0.030000
59.506	8.542	0.030000
64.465	8.446	0.030000
69.424	8.185	0.030000
74.383	7.750	0.030000
79.342	7.458	0.030000
84.301	7.298	0.030000
89.206	7.223	0.030000
94.111	7.151	0.030000
99.016	7.463	0.030000
103.922	7.218	0.030000
108.827	6.730	0.030000
113.733	6.769	0.030000
118.638	6.891	0.030000
123.543	6.898	0.030000
128.449	6.966	0.030000
133.354	7.149	0.030000
138.259	7.317	0.030000
143.165	7.287	0.030000
148.070	7.262	0.030000
152.975	7.198	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

157.881	7.076	0.030000
162.786	6.758	0.030000
167.691	6.415	0.030000
172.597	6.247	0.030000
177.502	6.179	0.030000
182.407	6.212	0.030000
187.313	6.364	0.030000
192.218	6.494	0.030000
197.123	6.701	0.030000
202.029	6.820	0.030000
206.934	6.610	0.030000
211.839	6.405	0.030000
216.745	5.899	0.030000
221.650	5.342	0.030000
226.555	5.332	0.030000
231.461	5.338	0.030000
235.850	5.186	0.030000
240.239	4.846	0.030000
244.629	4.636	0.030000
249.018	4.674	0.030000
253.408	4.652	0.030000
257.797	4.720	0.030000
262.273	4.799	0.030000
266.749	4.446	0.030000
271.226	3.882	0.030000
275.819	4.013	0.030000
280.413	4.549	0.030000
285.006	4.708	0.030000
289.600	4.809	0.030000
294.193	4.794	0.030000
298.787	4.669	0.030000
303.223	4.657	0.030000
307.660	4.905	0.030000
312.096	5.057	0.030000
316.533	4.959	0.030000
320.969	4.984	0.030000
325.406	5.166	0.030000
329.627	5.337	0.030000
333.848	4.717	0.030000
338.069	4.154	0.030000
342.904	4.045	0.030000
347.738	3.508	0.030000
352.573	2.483	0.030000
357.408	3.356	0.030000
361.877	5.560	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

366.346	5.278	0.030000
370.816	5.181	0.030000
375.285	4.942	0.030000
379.754	4.736	0.030000
384.502	4.873	0.030000
389.250	5.251	0.030000
393.998	5.425	0.030000
398.746	5.345	0.030000
403.723	5.448	0.030000
408.701	5.517	0.030000
413.679	5.173	0.030000
418.657	5.359	0.030000
423.635	5.417	0.030000
428.612	5.524	0.030000
433.590	5.685	0.030000
438.568	5.563	0.030000
443.364	5.793	0.030000
448.159	5.842	0.030000
452.955	5.931	0.030000
457.751	5.985	0.030000
462.547	6.138	0.030000
467.342	6.413	0.030000
472.138	6.599	0.030000
476.934	6.653	0.030000
481.730	6.730	0.030000
486.526	6.728	0.030000
491.429	6.826	0.030000
496.333	7.089	0.030000
501.236	7.270	0.030000
506.140	7.451	0.030000
511.044	7.674	0.030000
515.947	7.835	0.030000
520.851	7.916	0.030000
525.755	8.014	0.030000
530.659	7.861	0.030000
535.562	7.843	0.030000
540.466	7.726	0.030000
545.370	7.802	0.030000
550.273	7.739	0.030000
555.177	7.673	0.030000
560.081	7.777	0.030000
564.984	7.923	0.030000
569.888	8.043	0.030000
574.792	8.189	0.030000
579.695	8.336	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

584.599	8.481	0.030000
589.503	8.507	0.030000
594.406	8.463	0.030000
599.310	8.482	0.030000
604.214	8.429	0.030000
609.110	8.217	0.030000
614.007	8.195	0.030000
618.904	8.165	0.030000
623.801	8.342	0.030000
628.698	8.170	0.030000
633.595	7.922	0.030000
638.491	7.952	0.030000
643.388	7.843	0.030000
648.285	8.040	0.030000
653.182	8.034	0.030000
658.079	7.846	0.030000
662.976	7.788	0.030000
667.873	7.766	0.030000
672.769	7.699	0.030000
677.666	7.575	0.030000
682.563	7.402	0.030000
687.460	7.640	0.030000
692.357	7.792	0.030000
697.254	7.623	0.030000
702.150	7.555	0.030000
707.047	7.588	0.030000
711.944	7.496	0.030000
716.841	7.398	0.030000
721.738	7.662	0.030000
726.635	7.742	0.030000
731.532	7.728	0.030000
736.034	7.974	0.030000
740.537	8.151	0.030000
745.039	7.982	0.030000
749.542	7.932	0.030000
754.044	7.871	0.030000
758.547	8.017	0.030000
763.049	8.023	0.030000
767.552	8.106	0.030000
772.055	8.016	0.030000
776.970	7.678	0.030000
781.885	7.187	0.030000
786.800	7.213	0.030000
791.716	7.583	0.030000
796.631	7.687	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

801.546	8.127	0.030000
806.461	8.364	0.030000
811.376	8.411	0.030000
816.292	8.346	0.030000
821.207	8.469	0.030000
826.122	8.434	0.030000
831.055	8.475	0.030000
835.988	8.230	0.030000
840.922	8.264	0.030000
845.855	8.403	0.030000
850.788	8.144	0.030000
855.721	8.013	0.030000
860.654	7.911	0.030000
865.588	7.963	0.030000
870.521	8.024	0.030000
875.454	8.015	0.030000
880.387	7.969	0.030000
885.320	8.166	0.030000
890.254	8.320	0.030000
895.187	8.405	0.030000
900.120	8.489	0.030000
905.053	8.572	0.030000
909.986	8.500	0.030000
914.920	8.532	0.030000
919.853	8.571	0.030000
924.786	8.585	0.030000
929.719	8.369	0.030000
934.652	8.392	0.030000
939.586	8.307	0.030000
944.519	8.201	0.030000
949.452	8.141	0.030000
954.385	8.102	0.030000
959.318	8.195	0.030000
964.251	8.276	0.030000
969.185	8.232	0.030000
974.118	8.365	0.030000
979.051	8.434	0.030000
983.984	8.532	0.030000
988.918	8.744	0.030000
993.851	8.613	0.030000
998.784	8.048	0.030000
1003.717	7.578	0.030000
1008.650	7.677	0.030000
1013.584	7.556	0.030000
1018.271	7.593	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1022.959	7.619	0.030000
1027.646	7.994	0.030000
1032.334	8.372	0.030000
1037.022	8.046	0.030000
1041.709	7.889	0.030000
1046.397	7.889	0.030000
1051.085	7.738	0.030000
1055.772	7.657	0.030000
1060.460	7.608	0.030000
1065.344	7.612	0.030000
1070.228	7.582	0.030000
1075.111	7.710	0.030000
1079.995	7.977	0.030000
1084.879	8.250	0.030000
1089.762	8.485	0.030000
1094.646	8.694	0.030000
1099.530	8.878	0.030000
1104.414	8.842	0.030000
1109.297	8.945	0.030000
1114.181	8.942	0.030000
1119.065	8.896	0.030000
1123.949	8.667	0.030000
1128.832	8.639	0.030000
1133.716	8.597	0.030000
1138.600	8.701	0.030000
1143.483	8.512	0.030000
1148.367	8.518	0.030000
1153.251	8.531	0.030000
1158.135	8.567	0.030000
1163.018	8.605	0.030000
1167.902	8.699	0.030000
1172.786	8.684	0.030000
1177.670	8.695	0.030000
1182.553	8.063	0.030000
1187.437	8.180	0.030000
1192.321	8.305	0.030000
1197.205	8.059	0.030000
1202.088	8.563	0.030000
1206.972	8.519	0.030000
1211.856	8.654	0.030000
1216.739	9.109	0.030000
1221.623	8.955	0.030000
1226.507	8.997	0.030000
1231.391	9.068	0.030000
1236.274	9.140	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1241.158	9.182	0.030000
1246.042	9.246	0.030000
1250.934	9.364	0.030000
1255.827	9.435	0.030000
1260.720	9.273	0.030000
1265.612	9.304	0.030000
1270.505	9.340	0.030000
1275.398	9.375	0.030000

Name: XF0060A\_1                      Group: F  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	3.381	0.085000
4.987	1.934	0.085000
9.973	1.147	0.085000
14.960	1.540	0.085000
19.947	1.652	0.085000
24.933	1.267	0.085000
29.920	1.111	0.085000
34.907	1.062	0.085000
39.893	1.006	0.085000
44.880	0.966	0.085000
49.867	0.871	0.085000
54.853	0.795	0.085000
59.840	0.772	0.085000
64.827	0.810	0.085000
69.813	0.856	0.085000
74.800	0.911	0.085000
79.787	0.997	0.085000
84.773	1.110	0.085000
89.760	1.237	0.085000
94.747	1.362	0.085000
99.733	1.405	0.085000
104.720	1.456	0.085000
109.707	1.538	0.085000
114.693	1.394	0.085000
119.680	1.239	0.085000
124.667	1.204	0.085000
129.653	1.209	0.085000
134.640	1.138	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

139.626	1.076	0.085000
144.613	0.906	0.085000
149.600	0.893	0.085000
154.587	0.886	0.085000
159.573	0.955	0.085000
164.560	0.927	0.085000
169.547	0.846	0.085000
174.533	0.830	0.085000
179.520	1.003	0.085000
184.506	1.203	0.085000
189.493	1.235	0.085000
194.480	1.269	0.085000
199.466	1.273	0.085000
204.453	1.270	0.085000
209.440	1.253	0.085000
214.426	1.188	0.085000
219.413	1.117	0.085000
224.400	1.048	0.085000
229.386	0.993	0.085000
234.373	1.073	0.085000
239.360	1.280	0.085000
244.346	1.373	0.085000
249.333	1.313	0.085000
254.320	1.196	0.085000
259.306	1.067	0.085000
264.293	0.942	0.085000
269.280	0.936	0.085000
274.266	0.945	0.085000
279.253	0.844	0.085000
284.240	0.798	0.085000
289.226	0.753	0.085000
294.213	0.660	0.085000
299.200	0.550	0.085000
304.186	0.557	0.085000
309.173	0.641	0.085000
314.160	0.629	0.085000
319.146	0.354	0.085000
324.133	0.215	0.085000
329.120	0.126	0.085000
334.106	0.339	0.085000
339.093	0.972	0.085000
344.080	1.506	0.085000
349.066	2.846	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XF0060A\_2      Group: F  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	2.882	0.085000
4.995	2.720	0.085000
9.989	2.539	0.085000
14.983	2.119	0.085000
19.978	1.698	0.085000
24.973	1.420	0.085000
29.967	1.318	0.085000
34.961	1.188	0.085000
39.956	1.035	0.085000
44.950	0.900	0.085000
49.945	0.769	0.085000
54.939	0.616	0.085000
59.934	0.485	0.085000
64.928	0.355	0.085000
69.923	0.200	0.085000
74.917	0.150	0.085000
79.912	0.210	0.085000
84.906	0.607	0.085000
89.901	1.240	0.085000
94.895	1.194	0.085000
99.890	1.153	0.085000
104.884	1.176	0.085000
109.879	1.255	0.085000
114.873	1.277	0.085000
119.868	1.311	0.085000
124.862	1.138	0.085000
129.857	0.940	0.085000
134.851	0.811	0.085000
139.846	0.833	0.085000
144.840	0.894	0.085000
149.835	0.890	0.085000
154.829	0.848	0.085000
159.824	0.806	0.085000
164.818	0.777	0.085000
169.813	0.743	0.085000
174.807	0.695	0.085000
179.802	0.665	0.085000
184.796	0.678	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

189.791	1.048	0.085000
194.785	1.185	0.085000
199.780	0.993	0.085000
204.774	0.833	0.085000
209.769	0.843	0.085000
214.763	0.891	0.085000
219.758	1.075	0.085000
224.752	1.461	0.085000
229.747	1.691	0.085000
234.741	1.505	0.085000
239.736	1.155	0.085000
244.730	1.469	0.085000
249.725	1.433	0.085000
254.719	1.571	0.085000
259.714	1.733	0.085000
264.708	1.575	0.085000
269.703	1.165	0.085000
274.697	0.910	0.085000
279.692	0.749	0.085000
284.686	0.808	0.085000
289.681	0.949	0.085000
294.675	0.938	0.085000
299.670	0.782	0.085000
304.664	0.684	0.085000
309.659	0.513	0.085000
314.653	0.477	0.085000
319.647	0.524	0.085000
324.642	0.573	0.085000
329.637	0.719	0.085000
334.631	0.786	0.085000
339.625	0.683	0.085000
344.620	0.746	0.085000
349.615	0.898	0.085000
354.609	1.075	0.085000
359.604	1.431	0.085000
364.598	1.882	0.085000
369.592	2.323	0.085000
374.587	2.693	0.085000

Name: XF0060B  
Encroachment: No

Group: F

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	4.963	0.030000
3.981	4.254	0.030000
7.961	3.856	0.030000
11.942	2.626	0.030000
16.431	2.248	0.030000
20.920	2.715	0.030000
25.409	2.466	0.030000
29.898	2.626	0.030000
34.387	3.856	0.030000
38.876	4.254	0.030000
43.365	4.963	0.030000

Name: XG0010B	Group: G
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	17.431	0.030000
4.836	17.400	0.030000
9.672	17.446	0.030000
14.509	17.453	0.030000
19.345	17.473	0.030000
24.181	17.469	0.030000
28.688	17.471	0.030000
33.195	17.523	0.030000
36.528	17.540	0.030000
39.862	17.513	0.030000
43.195	17.557	0.030000
47.318	17.606	0.030000
51.441	17.616	0.030000
55.564	17.537	0.030000
59.687	17.555	0.030000
63.810	17.560	0.030000
68.810	17.544	0.030000
73.810	17.570	0.030000
78.810	17.581	0.030000
83.498	17.526	0.030000
88.185	17.544	0.030000
92.873	17.614	0.030000
97.560	17.561	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

102.248	17.576	0.030000
106.935	17.703	0.030000
111.623	17.722	0.030000
116.310	17.768	0.030000
120.998	17.715	0.030000
125.685	17.768	0.030000
130.373	17.704	0.030000
135.060	17.757	0.030000
139.748	17.742	0.030000
144.435	17.724	0.030000
149.123	17.693	0.030000
153.810	17.724	0.030000
158.469	17.745	0.030000
163.127	17.727	0.030000
167.786	17.775	0.030000
172.444	17.784	0.030000
177.103	17.790	0.030000
181.761	17.889	0.030000
186.420	17.721	0.030000
191.078	17.693	0.030000
195.737	17.653	0.030000
200.395	17.698	0.030000
205.054	17.749	0.030000
209.712	17.778	0.030000
214.610	17.754	0.030000
219.508	17.713	0.030000
224.406	17.654	0.030000
228.920	17.599	0.030000
233.435	17.550	0.030000
237.950	17.518	0.030000
242.465	17.610	0.030000

-----

Name: XG0010C	Group: G
Encroachment: No	

-----

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.906	0.030000
4.848	16.835	0.030000
9.697	16.882	0.030000
14.546	17.002	0.030000
19.394	16.986	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

24.243	16.854	0.030000
29.091	16.924	0.030000
33.939	16.907	0.030000
38.788	16.795	0.030000
43.636	16.665	0.030000
48.485	16.558	0.030000
53.333	16.376	0.030000
58.182	16.363	0.030000
63.030	16.372	0.030000
67.957	16.533	0.030000
72.885	16.558	0.030000
77.812	16.622	0.030000
82.739	16.675	0.030000
87.666	16.767	0.030000
92.593	16.707	0.030000
97.520	16.553	0.030000
102.448	16.503	0.030000
107.375	16.570	0.030000
112.302	16.407	0.030000
117.229	16.354	0.030000
122.156	16.334	0.030000
127.083	16.338	0.030000
132.010	16.403	0.030000
136.937	16.474	0.030000
141.865	16.341	0.030000
146.430	16.376	0.030000
150.996	16.400	0.030000
155.562	16.374	0.030000
160.128	16.329	0.030000
164.694	16.285	0.030000
169.260	16.241	0.030000
173.826	16.191	0.030000
178.391	16.189	0.030000
182.957	16.427	0.030000
187.857	16.846	0.030000
192.757	16.871	0.030000
197.658	16.820	0.030000
202.558	16.849	0.030000
207.458	16.704	0.030000
212.358	16.457	0.030000
217.258	16.468	0.030000
222.158	16.501	0.030000
227.059	16.681	0.030000
231.959	16.740	0.030000
236.859	16.697	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

241.759	16.567	0.030000
246.659	16.513	0.030000
251.559	16.324	0.030000
256.459	16.143	0.030000
261.360	16.315	0.030000
266.260	16.483	0.030000
271.160	16.633	0.030000
276.060	16.967	0.030000
280.960	17.306	0.030000
285.860	17.389	0.030000
290.760	17.406	0.030000
295.661	17.398	0.030000
300.561	17.600	0.030000
305.461	17.787	0.030000
310.361	17.571	0.030000
315.261	17.361	0.030000
320.161	17.526	0.030000
325.061	17.611	0.030000
329.962	17.340	0.030000
334.862	16.914	0.030000
339.762	16.677	0.030000
344.662	16.680	0.030000
349.562	16.662	0.030000
354.462	16.611	0.030000
359.362	16.612	0.030000
364.262	16.708	0.030000
369.163	16.705	0.030000
374.063	16.406	0.030000
378.963	16.139	0.030000
383.863	16.101	0.030000
388.763	16.084	0.030000
393.663	16.073	0.030000
398.505	16.009	0.030000
403.346	15.948	0.030000
408.188	15.996	0.030000
413.029	16.107	0.030000
417.871	16.530	0.030000
422.712	17.070	0.030000
427.554	17.457	0.030000
432.395	17.578	0.030000
437.237	17.327	0.030000
442.079	17.050	0.030000
446.920	16.964	0.030000
451.762	17.113	0.030000
456.603	16.583	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

461.445	15.940	0.030000
466.286	15.666	0.030000
471.128	15.542	0.030000
475.969	15.579	0.030000
480.810	15.618	0.030000
485.652	15.640	0.030000
490.494	15.690	0.030000
495.335	15.934	0.030000
500.177	16.006	0.030000
505.018	15.845	0.030000
509.860	15.800	0.030000
514.701	15.991	0.030000
519.543	16.244	0.030000
524.384	16.235	0.030000
529.226	16.278	0.030000
534.067	16.249	0.030000
538.909	16.225	0.030000
543.750	16.248	0.030000
548.740	16.274	0.030000
553.730	16.332	0.030000
558.720	16.409	0.030000
563.709	16.418	0.030000
568.699	16.561	0.030000
573.689	16.677	0.030000
578.679	16.597	0.030000
583.668	16.639	0.030000
588.658	16.574	0.030000
593.648	16.687	0.030000
598.638	16.893	0.030000
603.628	16.893	0.030000
608.617	16.972	0.030000
613.607	17.100	0.030000
618.597	16.988	0.030000
623.587	16.858	0.030000
628.577	16.715	0.030000
633.566	16.622	0.030000
638.556	16.781	0.030000
643.546	16.806	0.030000
648.536	16.865	0.030000
653.525	16.916	0.030000
658.515	16.792	0.030000
663.505	16.650	0.030000
668.495	16.707	0.030000
673.485	16.974	0.030000
678.474	17.149	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

683.464	17.098	0.030000
688.454	17.194	0.030000
693.444	17.192	0.030000
698.433	17.197	0.030000
703.423	17.344	0.030000
708.413	17.461	0.030000
713.403	17.753	0.030000
718.393	17.640	0.030000
723.382	17.538	0.030000
728.372	17.473	0.030000
733.362	17.232	0.030000
738.352	17.260	0.030000
743.342	17.253	0.030000
748.331	17.136	0.030000
753.321	17.154	0.030000
758.311	17.353	0.030000
763.301	17.714	0.030000
768.290	17.817	0.030000
773.280	17.802	0.030000
778.270	17.830	0.030000
783.260	17.845	0.030000
788.250	17.790	0.030000
793.239	17.849	0.030000
798.229	17.607	0.030000
801.953	17.542	0.030000
805.677	17.515	0.030000
809.401	17.381	0.030000
813.074	17.159	0.030000
816.747	17.450	0.030000
820.419	17.458	0.030000

-----

Name: XG0020B	Group: G
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	17.458	0.030000
4.176	17.546	0.030000
8.352	17.515	0.030000
12.528	17.444	0.030000
16.705	17.447	0.030000
20.881	17.456	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

25.496	17.464	0.030000
30.111	17.485	0.030000
34.727	17.554	0.030000
39.342	17.680	0.030000
43.958	17.667	0.030000
48.573	17.543	0.030000
53.188	17.421	0.030000
57.804	17.437	0.030000
62.419	17.507	0.030000
67.035	17.621	0.030000
71.650	17.662	0.030000
76.265	17.599	0.030000
80.881	17.543	0.030000
85.130	17.576	0.030000
89.379	17.628	0.030000
93.628	17.579	0.030000
97.877	17.544	0.030000
102.127	17.571	0.030000
106.376	17.569	0.030000
111.376	17.562	0.030000
116.376	17.582	0.030000
120.177	17.571	0.030000
123.979	17.493	0.030000
127.781	17.556	0.030000
131.583	17.561	0.030000
136.583	17.524	0.030000
141.583	17.515	0.030000
146.583	17.546	0.030000
151.583	17.583	0.030000
156.583	17.573	0.030000
161.574	17.508	0.030000
166.564	17.510	0.030000
171.555	17.534	0.030000
176.546	17.517	0.030000
181.537	17.505	0.030000
186.528	17.523	0.030000
191.519	17.510	0.030000
196.510	17.519	0.030000
201.500	17.523	0.030000
206.491	17.471	0.030000
211.482	17.472	0.030000
216.473	17.528	0.030000
221.464	17.551	0.030000
226.455	17.524	0.030000
231.446	17.541	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

236.437	17.544	0.030000
241.427	17.467	0.030000
246.418	17.448	0.030000
251.409	17.476	0.030000
256.400	17.475	0.030000
261.391	17.439	0.030000
266.382	17.453	0.030000
271.373	17.514	0.030000
276.363	17.523	0.030000
281.354	17.532	0.030000
286.345	17.590	0.030000
291.336	17.552	0.030000
296.327	17.463	0.030000
301.318	17.477	0.030000
306.309	17.489	0.030000
311.300	17.423	0.030000
316.290	17.380	0.030000
321.281	17.370	0.030000
326.272	17.334	0.030000
331.263	17.293	0.030000
336.254	17.352	0.030000
341.245	17.356	0.030000
346.236	17.291	0.030000
351.226	17.268	0.030000
356.217	17.313	0.030000

-----

Name: XG0030A	Group: G
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	17.826	0.030000
4.772	17.761	0.030000
9.544	17.632	0.030000
14.317	17.488	0.030000
19.089	17.385	0.030000
23.861	17.373	0.030000
28.634	17.640	0.030000
33.406	17.910	0.030000
38.178	18.013	0.030000
41.614	18.040	0.030000
45.050	17.967	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

48.486	17.908	0.030000
53.096	17.893	0.030000
57.705	17.852	0.030000
62.315	17.817	0.030000
66.925	17.814	0.030000
71.535	17.904	0.030000
76.367	17.874	0.030000
81.199	17.846	0.030000
86.031	18.012	0.030000
90.864	18.258	0.030000
95.696	18.304	0.030000
100.528	18.357	0.030000
105.361	18.414	0.030000
110.193	18.453	0.030000
115.025	18.338	0.030000
119.857	18.190	0.030000
124.690	18.307	0.030000
129.522	18.587	0.030000
134.110	18.608	0.030000
138.698	18.630	0.030000
143.286	18.684	0.030000
147.874	18.694	0.030000
152.462	18.618	0.030000
157.050	18.473	0.030000
161.638	18.621	0.030000
166.226	18.814	0.030000
170.814	18.585	0.030000
175.402	18.505	0.030000
179.991	18.711	0.030000
184.578	18.699	0.030000
188.623	18.599	0.030000
192.667	18.586	0.030000
196.712	18.596	0.030000
201.230	18.458	0.030000
205.747	18.292	0.030000
210.265	18.167	0.030000
214.782	18.149	0.030000
219.300	18.150	0.030000
223.817	18.178	0.030000
228.335	18.199	0.030000
232.683	18.220	0.030000
237.031	18.243	0.030000
241.379	18.265	0.030000
244.815	18.277	0.030000
248.250	18.290	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

251.686	18.271	0.030000
256.174	18.214	0.030000
260.662	18.137	0.030000
265.149	18.090	0.030000
269.129	18.093	0.030000
273.110	18.115	0.030000
277.090	18.134	0.030000
281.070	18.163	0.030000
285.558	18.103	0.030000
290.045	18.029	0.030000
295.045	18.073	0.030000
300.045	18.113	0.030000
305.045	18.049	0.030000
310.045	17.910	0.030000
314.984	17.710	0.030000
319.923	17.564	0.030000
324.861	17.646	0.030000
329.800	17.781	0.030000
334.739	17.833	0.030000
339.677	17.870	0.030000
344.616	17.902	0.030000
349.555	17.954	0.030000
354.493	18.090	0.030000
359.432	18.270	0.030000
364.371	18.504	0.030000
369.310	18.725	0.030000
374.248	18.864	0.030000
379.187	18.822	0.030000
384.126	18.625	0.030000
389.064	18.372	0.030000
394.043	18.552	0.030000
399.021	18.476	0.030000
404.000	18.445	0.030000
408.978	18.438	0.030000
413.957	18.428	0.030000
418.935	18.420	0.030000
423.914	18.403	0.030000
428.892	18.358	0.030000
433.871	18.335	0.030000
438.849	18.330	0.030000
443.827	18.318	0.030000
448.806	18.291	0.030000
453.784	18.272	0.030000
458.763	18.195	0.030000
463.741	18.086	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

468.720	18.039	0.030000
473.698	18.136	0.030000
478.677	18.102	0.030000
483.655	18.192	0.030000
488.634	18.396	0.030000
493.612	18.392	0.030000
498.591	18.400	0.030000
503.569	18.367	0.030000
508.548	18.272	0.030000
513.526	18.177	0.030000
518.505	18.084	0.030000
523.483	17.993	0.030000
528.462	17.906	0.030000
533.440	17.823	0.030000
538.418	17.743	0.030000
543.397	17.666	0.030000
548.375	17.601	0.030000
553.354	17.538	0.030000
558.332	17.478	0.030000
563.311	17.374	0.030000
568.289	17.430	0.030000
573.268	17.449	0.030000
578.246	17.425	0.030000
583.225	17.486	0.030000
588.203	17.587	0.030000
593.182	17.733	0.030000
598.160	17.855	0.030000
603.139	17.932	0.030000
608.117	18.050	0.030000
613.096	18.058	0.030000
618.074	17.928	0.030000
623.053	17.688	0.030000
628.031	17.338	0.030000
633.010	17.302	0.030000
637.988	17.634	0.030000
642.967	17.815	0.030000
647.945	17.839	0.030000
652.923	18.000	0.030000
657.902	18.143	0.030000
662.880	18.075	0.030000
667.859	18.049	0.030000
672.837	18.011	0.030000
677.816	17.908	0.030000
682.794	17.812	0.030000
687.773	17.716	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

692.751	17.689	0.030000
697.730	17.782	0.030000
702.708	17.935	0.030000
707.687	17.920	0.030000
712.665	17.724	0.030000
717.644	17.679	0.030000
722.622	17.645	0.030000
727.601	17.598	0.030000
732.579	17.668	0.030000
737.558	17.801	0.030000
742.536	18.023	0.030000
747.514	18.241	0.030000
752.493	18.409	0.030000
757.471	18.491	0.030000
762.450	18.573	0.030000
767.428	18.649	0.030000
772.407	18.728	0.030000
777.385	18.781	0.030000
782.364	18.711	0.030000
787.342	18.637	0.030000
792.321	18.564	0.030000
797.299	18.491	0.030000
802.278	18.407	0.030000
807.256	18.310	0.030000
812.235	18.236	0.030000
817.213	18.086	0.030000
822.192	17.850	0.030000
827.170	17.539	0.030000
832.149	17.395	0.030000
837.127	17.419	0.030000
842.105	17.435	0.030000
847.084	17.398	0.030000
852.062	17.249	0.030000
857.041	17.151	0.030000
862.019	17.330	0.030000
866.998	17.485	0.030000
871.976	17.592	0.030000
876.955	17.698	0.030000
881.933	17.793	0.030000
886.912	17.826	0.030000
891.890	17.777	0.030000
896.869	17.625	0.030000
901.847	17.659	0.030000
906.826	17.762	0.030000
911.804	17.860	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

916.783	17.835	0.030000
921.761	17.230	0.030000
926.740	16.980	0.030000
931.718	16.799	0.030000
936.697	16.858	0.030000
941.675	16.956	0.030000
946.653	17.410	0.030000
951.632	17.941	0.030000
956.610	18.514	0.030000
961.589	18.682	0.030000
966.567	18.817	0.030000
971.546	18.663	0.030000
976.524	18.497	0.030000
981.503	18.393	0.030000
986.481	18.319	0.030000
991.460	18.234	0.030000
996.438	18.148	0.030000
1001.417	18.063	0.030000
1006.395	17.977	0.030000
1011.374	17.893	0.030000
1016.352	17.846	0.030000
1021.331	17.668	0.030000
1026.309	17.536	0.030000
1031.287	17.621	0.030000
1036.266	17.601	0.030000
1041.244	17.635	0.030000
1046.223	17.451	0.030000
1051.201	17.543	0.030000
1056.180	17.503	0.030000
1061.158	17.462	0.030000
1066.137	17.423	0.030000
1071.115	17.394	0.030000
1076.094	17.247	0.030000
1081.072	17.300	0.030000
1086.051	17.450	0.030000
1091.029	17.562	0.030000
1096.008	17.536	0.030000
1100.986	17.609	0.030000
1105.965	17.547	0.030000
1110.943	17.437	0.030000
1115.921	17.358	0.030000
1120.900	17.391	0.030000
1125.879	17.439	0.030000
1130.857	17.494	0.030000
1135.835	17.570	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1140.814	17.446	0.030000
1145.792	17.350	0.030000
1150.771	17.325	0.030000
1155.749	17.272	0.030000
1160.728	17.213	0.030000
1165.706	17.097	0.030000
1170.685	16.962	0.030000
1175.663	14.700	0.030000
1180.642	12.973	0.030000
1185.620	12.048	0.030000
1190.599	13.249	0.030000
1195.577	15.973	0.030000
1200.556	16.900	0.030000
1204.594	17.071	0.030000
1208.632	17.192	0.030000
1212.671	17.313	0.030000

Name: XG0030B      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.826	0.030000
4.633	17.922	0.030000
9.265	17.900	0.030000
13.898	17.754	0.030000
18.531	17.721	0.030000
23.163	17.697	0.030000
27.796	17.822	0.030000
32.429	17.953	0.030000
36.460	17.831	0.030000
40.491	17.613	0.030000
44.522	17.543	0.030000
48.553	17.575	0.030000
52.584	17.620	0.030000
56.688	17.666	0.030000
60.792	17.637	0.030000
64.895	17.594	0.030000
69.146	17.583	0.030000
73.396	17.621	0.030000
77.647	17.650	0.030000
81.897	17.645	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

86.404	17.559	0.030000
90.911	17.526	0.030000
95.399	17.515	0.030000
99.886	17.490	0.030000
104.374	17.441	0.030000
108.862	17.433	0.030000
113.349	17.386	0.030000
117.837	17.339	0.030000
122.325	17.314	0.030000
126.574	17.291	0.030000
130.823	17.288	0.030000
135.072	17.448	0.030000
139.103	17.409	0.030000
143.134	17.277	0.030000
147.165	17.229	0.030000
151.196	17.252	0.030000
155.228	17.259	0.030000
159.988	17.118	0.030000
164.747	17.094	0.030000
169.507	17.084	0.030000
174.267	17.122	0.030000
177.994	17.146	0.030000
181.721	17.154	0.030000
185.447	17.166	0.030000
190.447	17.163	0.030000
195.447	17.203	0.030000
199.249	17.268	0.030000
203.051	17.437	0.030000
206.853	17.328	0.030000
210.654	17.260	0.030000
214.699	17.238	0.030000
218.743	17.207	0.030000
222.788	17.211	0.030000
226.917	17.219	0.030000
231.047	17.227	0.030000
235.176	17.235	0.030000
239.664	17.245	0.030000
244.152	17.259	0.030000
248.639	17.289	0.030000
252.806	17.287	0.030000
256.973	17.284	0.030000
261.139	17.281	0.030000
265.306	17.278	0.030000
269.473	17.274	0.030000
273.639	17.272	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

277.670	17.327	0.030000
281.701	17.453	0.030000
285.733	17.630	0.030000
289.764	17.703	0.030000
293.795	17.657	0.030000
297.826	17.532	0.030000
301.857	17.398	0.030000
305.888	17.279	0.030000
309.919	17.298	0.030000
313.950	17.305	0.030000
317.700	17.302	0.030000
321.450	17.299	0.030000
325.200	17.295	0.030000
328.950	17.292	0.030000
332.386	17.278	0.030000
335.822	17.213	0.030000
339.258	17.206	0.030000
344.258	17.206	0.030000
349.258	17.194	0.030000
354.258	17.191	0.030000
359.258	17.188	0.030000
363.507	17.185	0.030000
367.757	17.184	0.030000
372.006	17.193	0.030000
376.425	17.168	0.030000
380.845	17.270	0.030000
385.264	17.346	0.030000
389.683	17.348	0.030000
393.683	17.355	0.030000
397.683	17.446	0.030000
401.683	17.465	0.030000
405.683	17.540	0.030000
409.683	17.551	0.030000
413.029	17.438	0.030000
416.374	17.179	0.030000
419.720	17.038	0.030000

-----  
Name: XG0040A                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N  
-----

Long Branch BMP Model Results  
Input Data Report Summary

0.000	17.610	0.030000
4.778	17.663	0.030000
9.556	17.688	0.030000
14.334	17.723	0.030000
19.111	17.792	0.030000
23.889	17.843	0.030000
28.577	17.902	0.030000
33.264	17.963	0.030000
37.952	17.954	0.030000
42.639	17.884	0.030000
47.327	17.792	0.030000
52.014	17.835	0.030000
56.702	17.845	0.030000
61.389	17.724	0.030000
66.032	18.009	0.030000
70.675	17.985	0.030000
75.318	18.099	0.030000
79.961	17.934	0.030000
84.604	17.871	0.030000
89.246	17.776	0.030000
93.889	17.728	0.030000
97.889	17.725	0.030000
101.889	17.633	0.030000
105.889	17.528	0.030000
109.889	17.610	0.030000
113.889	17.662	0.030000
117.920	17.668	0.030000
121.952	17.632	0.030000
125.983	17.720	0.030000
130.014	17.760	0.030000
134.045	17.727	0.030000
137.481	17.683	0.030000
140.917	17.691	0.030000
144.353	17.744	0.030000
148.602	17.758	0.030000
152.851	17.728	0.030000
157.100	17.647	0.030000
161.349	17.538	0.030000
165.599	17.484	0.030000
169.848	17.492	0.030000
174.097	17.452	0.030000
178.346	17.385	0.030000
182.595	17.405	0.030000
186.845	17.419	0.030000
191.094	17.430	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

195.343	17.461	0.030000
199.466	17.455	0.030000
203.589	17.441	0.030000
207.712	17.441	0.030000
211.835	17.428	0.030000
215.958	17.493	0.030000
220.303	17.451	0.030000
224.648	17.282	0.030000
228.993	17.386	0.030000
233.338	17.358	0.030000
237.683	17.421	0.030000
242.027	17.317	0.030000
246.372	17.397	0.030000
250.621	17.587	0.030000
254.871	17.533	0.030000
259.120	17.280	0.030000
263.369	17.428	0.030000
267.618	17.388	0.030000
271.867	17.270	0.030000
275.990	17.206	0.030000
280.113	17.206	0.030000
284.237	17.200	0.030000
288.360	17.150	0.030000
292.483	17.055	0.030000
297.318	17.021	0.030000
302.152	17.036	0.030000
306.987	16.973	0.030000
311.821	16.945	0.030000
316.656	16.947	0.030000
321.491	16.938	0.030000
326.325	16.944	0.030000
331.160	16.910	0.030000
335.995	16.881	0.030000
340.829	16.927	0.030000
345.664	16.930	0.030000
350.498	16.873	0.030000
355.333	16.838	0.030000
360.168	16.817	0.030000
364.811	16.779	0.030000
369.454	16.800	0.030000
374.096	16.755	0.030000
378.739	16.734	0.030000
383.382	16.668	0.030000
388.025	16.632	0.030000
392.668	16.632	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

397.013	16.666	0.030000
401.358	16.702	0.030000
405.702	16.721	0.030000
410.047	16.770	0.030000
414.392	16.835	0.030000
418.737	16.848	0.030000
423.082	16.880	0.030000
427.582	16.808	0.030000
432.082	16.729	0.030000
436.582	16.733	0.030000
441.082	16.613	0.030000
445.582	16.577	0.030000
449.926	16.573	0.030000
454.271	16.587	0.030000
458.616	16.606	0.030000
462.961	16.624	0.030000
467.306	16.656	0.030000
471.651	16.657	0.030000
475.995	16.640	0.030000
480.995	16.593	0.030000
485.995	16.598	0.030000
490.995	16.592	0.030000
493.495	16.517	0.030000
495.995	16.444	0.030000
500.995	16.439	0.030000
505.370	16.413	0.030000
509.745	16.471	0.030000
514.120	16.453	0.030000
518.495	16.420	0.030000
523.152	16.409	0.030000
527.809	16.401	0.030000
532.465	16.377	0.030000
537.122	16.304	0.030000
541.778	16.321	0.030000
546.435	16.342	0.030000
551.091	16.367	0.030000
555.748	16.370	0.030000
560.405	16.272	0.030000
565.061	16.265	0.030000
569.718	16.287	0.030000
574.374	16.261	0.030000
579.031	16.183	0.030000
583.687	16.180	0.030000
588.580	16.211	0.030000
593.473	16.254	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

598.366	16.342	0.030000
603.259	16.418	0.030000
608.151	16.461	0.030000
613.044	16.449	0.030000
617.937	16.433	0.030000
622.830	16.460	0.030000
627.722	16.427	0.030000
632.586	16.526	0.030000
637.449	16.736	0.030000
642.313	16.744	0.030000
647.177	16.555	0.030000
652.040	16.591	0.030000
656.904	16.685	0.030000
661.487	16.714	0.030000
666.070	16.743	0.030000
670.654	16.685	0.030000
675.237	16.665	0.030000
679.820	16.711	0.030000
684.404	16.773	0.030000
688.749	16.783	0.030000
693.093	16.755	0.030000
697.438	16.737	0.030000
701.783	16.648	0.030000
706.128	16.702	0.030000
710.473	16.745	0.030000
714.818	16.744	0.030000
718.568	16.734	0.030000
722.318	16.726	0.030000
726.068	16.677	0.030000
729.818	16.705	0.030000
734.401	16.712	0.030000
738.984	16.634	0.030000
743.568	16.591	0.030000
748.318	16.633	0.030000
753.068	16.660	0.030000
757.818	16.602	0.030000
762.568	16.496	0.030000
767.318	16.412	0.030000
772.152	16.451	0.030000
776.987	16.439	0.030000
781.822	16.493	0.030000
786.656	16.440	0.030000
791.491	16.356	0.030000
796.325	16.329	0.030000
801.160	16.325	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

805.995	16.370	0.030000
810.829	16.344	0.030000
815.664	16.281	0.030000
820.499	16.200	0.030000
825.333	16.192	0.030000
830.168	16.223	0.030000
835.003	16.205	0.030000
839.634	16.159	0.030000
844.265	16.087	0.030000
848.897	16.016	0.030000
853.528	16.008	0.030000
858.159	16.051	0.030000
862.791	16.066	0.030000
867.422	16.050	0.030000
872.054	16.015	0.030000
876.685	15.919	0.030000
881.316	15.901	0.030000
885.948	15.918	0.030000
890.579	15.911	0.030000
895.211	15.885	0.030000
899.867	15.878	0.030000
904.524	15.857	0.030000
909.180	15.777	0.030000
913.837	15.765	0.030000
918.493	15.770	0.030000
923.150	15.788	0.030000
927.807	15.834	0.030000
932.463	15.800	0.030000
937.120	15.655	0.030000
941.776	15.657	0.030000
946.433	15.747	0.030000
951.089	15.745	0.030000
955.746	15.685	0.030000
960.403	15.669	0.030000
965.034	15.649	0.030000
969.665	15.604	0.030000
974.297	15.590	0.030000
978.928	15.600	0.030000
983.559	15.502	0.030000
988.191	15.568	0.030000
992.822	15.631	0.030000
997.454	15.609	0.030000
1002.085	15.606	0.030000
1006.716	15.765	0.030000
1011.348	15.738	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1015.979	15.717	0.030000
1020.611	15.698	0.030000
1025.267	15.680	0.030000
1029.924	15.678	0.030000
1034.580	15.629	0.030000
1039.237	15.662	0.030000
1043.893	15.736	0.030000
1048.550	15.784	0.030000
1053.207	15.753	0.030000
1057.863	15.743	0.030000
1062.520	15.772	0.030000
1067.176	15.773	0.030000
1071.833	15.811	0.030000
1076.489	15.815	0.030000
1081.146	15.876	0.030000
1085.803	15.928	0.030000
1090.434	15.926	0.030000
1095.065	15.919	0.030000
1099.697	15.897	0.030000
1104.328	15.929	0.030000
1108.959	16.004	0.030000
1113.591	15.948	0.030000
1118.222	15.894	0.030000
1122.854	15.905	0.030000
1127.485	15.958	0.030000
1132.116	16.015	0.030000
1136.748	16.047	0.030000
1141.379	15.984	0.030000
1146.011	15.963	0.030000
1150.667	16.013	0.030000
1155.324	16.039	0.030000
1159.980	16.050	0.030000
1164.637	16.054	0.030000
1169.293	16.149	0.030000
1173.950	16.043	0.030000
1178.607	16.166	0.030000
1183.263	16.131	0.030000
1187.920	16.032	0.030000
1192.576	16.098	0.030000
1197.233	16.227	0.030000
1201.889	16.246	0.030000
1206.546	16.231	0.030000
1211.203	16.250	0.030000
1215.834	16.246	0.030000
1220.465	16.241	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1225.097	16.279	0.030000
1229.728	16.284	0.030000
1234.359	16.313	0.030000
1238.991	16.279	0.030000
1243.622	16.280	0.030000
1248.254	16.288	0.030000
1252.885	16.236	0.030000
1257.516	16.228	0.030000
1262.148	16.315	0.030000
1266.779	16.378	0.030000
1271.411	16.407	0.030000
1276.277	16.431	0.030000
1281.144	16.436	0.030000
1286.010	16.481	0.030000
1290.877	16.504	0.030000
1295.744	16.492	0.030000
1300.610	16.727	0.030000
1305.477	17.000	0.030000
1310.343	16.962	0.030000
1315.210	16.909	0.030000

Name: XG0040B                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.909	0.030000
4.793	16.860	0.030000
9.585	16.792	0.030000
14.378	16.703	0.030000
19.171	16.699	0.030000
22.606	16.709	0.030000
26.042	16.641	0.030000
29.478	16.642	0.030000
32.812	16.655	0.030000
36.145	16.558	0.030000
39.478	16.503	0.030000
44.255	16.359	0.030000
49.031	16.177	0.030000
53.807	16.109	0.030000
58.583	16.119	0.030000
62.614	16.099	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

66.645	16.021	0.030000
70.677	15.975	0.030000
74.708	16.075	0.030000
78.739	16.145	0.030000
82.862	16.228	0.030000
86.985	16.350	0.030000
91.108	16.504	0.030000
95.231	16.559	0.030000
99.354	16.686	0.030000
102.890	17.003	0.030000
106.425	17.125	0.030000
109.961	17.022	0.030000
114.716	16.982	0.030000
119.471	17.022	0.030000
124.225	17.065	0.030000
128.980	17.109	0.030000
133.735	17.151	0.030000
138.490	17.194	0.030000
143.244	17.237	0.030000
147.999	17.282	0.030000
152.754	17.295	0.030000
156.190	17.295	0.030000
159.626	17.104	0.030000
163.062	16.971	0.030000
167.515	16.894	0.030000
171.968	16.812	0.030000
176.421	16.566	0.030000
180.874	16.360	0.030000
185.327	16.362	0.030000
189.780	16.621	0.030000
194.234	16.722	0.030000
198.687	16.745	0.030000
203.140	16.768	0.030000
206.942	16.733	0.030000
210.743	16.754	0.030000
214.545	16.747	0.030000
218.347	16.726	0.030000
222.534	16.656	0.030000
226.722	16.557	0.030000
230.909	16.457	0.030000
235.097	16.496	0.030000
239.284	16.568	0.030000
243.471	16.525	0.030000
246.907	16.574	0.030000
250.343	16.617	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

253.779	16.654	0.030000
257.506	16.657	0.030000
261.233	16.701	0.030000
264.960	16.735	0.030000
269.374	16.721	0.030000
273.789	16.668	0.030000
278.203	16.614	0.030000
282.618	16.570	0.030000
287.544	16.268	0.030000
292.471	15.946	0.030000
297.398	16.032	0.030000
302.325	16.326	0.030000
307.251	16.468	0.030000
312.178	16.554	0.030000
317.105	16.593	0.030000
322.032	16.638	0.030000
325.782	16.763	0.030000
329.532	16.899	0.030000
333.282	16.924	0.030000
337.032	16.921	0.030000
341.317	16.917	0.030000
345.603	16.945	0.030000
349.889	17.017	0.030000
354.175	17.135	0.030000
358.460	17.067	0.030000
362.746	17.019	0.030000
367.032	16.953	0.030000
370.365	16.900	0.030000
373.698	16.891	0.030000
377.032	16.945	0.030000
380.985	17.045	0.030000
384.937	17.195	0.030000
388.890	16.946	0.030000
392.843	16.800	0.030000
396.796	16.695	0.030000
400.749	16.725	0.030000
404.702	16.806	0.030000
408.654	16.901	0.030000
412.381	16.939	0.030000
416.108	16.841	0.030000
419.835	16.726	0.030000
424.120	16.670	0.030000
428.406	16.627	0.030000
432.692	16.439	0.030000
436.978	16.333	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

441.263	16.341	0.030000
445.549	16.358	0.030000
449.835	16.377	0.030000
454.587	16.397	0.030000
459.338	16.416	0.030000
464.090	16.435	0.030000
468.841	16.453	0.030000
473.593	16.475	0.030000
478.345	16.522	0.030000
483.096	16.569	0.030000
487.848	16.615	0.030000
492.600	16.656	0.030000
497.351	16.686	0.030000
502.103	16.581	0.030000
506.855	16.477	0.030000
511.606	16.448	0.030000
516.358	16.522	0.030000
521.110	16.478	0.030000
525.861	16.525	0.030000
530.613	16.496	0.030000
535.364	16.485	0.030000
540.116	16.607	0.030000
544.868	16.650	0.030000
548.899	16.748	0.030000
552.930	16.848	0.030000
556.961	16.655	0.030000
560.992	16.556	0.030000
565.023	16.447	0.030000
569.476	16.424	0.030000
573.930	16.504	0.030000
578.383	16.520	0.030000
582.836	16.779	0.030000
587.289	16.872	0.030000
591.742	16.964	0.030000
596.195	17.037	0.030000
600.648	17.087	0.030000
605.101	16.903	0.030000
609.146	16.784	0.030000
613.190	16.701	0.030000
617.235	16.699	0.030000
622.204	16.716	0.030000
627.173	16.735	0.030000
632.142	16.754	0.030000
637.111	16.763	0.030000
642.080	16.771	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

647.049	16.779	0.030000
651.537	16.760	0.030000
656.024	16.740	0.030000
659.826	16.736	0.030000
663.628	16.732	0.030000
667.430	16.727	0.030000
671.231	16.723	0.030000
675.033	16.716	0.030000
678.835	16.707	0.030000
682.636	16.712	0.030000
686.438	16.723	0.030000
689.874	16.729	0.030000
693.310	16.758	0.030000
696.746	16.772	0.030000
700.699	16.765	0.030000
704.652	16.771	0.030000
708.605	16.780	0.030000
712.557	16.793	0.030000
716.905	16.830	0.030000
721.253	16.876	0.030000
725.601	16.919	0.030000
729.773	16.934	0.030000
733.945	16.925	0.030000
738.117	16.918	0.030000
742.289	16.934	0.030000
746.574	16.901	0.030000
750.860	16.804	0.030000
755.146	16.772	0.030000
759.432	16.754	0.030000
763.717	16.837	0.030000
768.003	16.899	0.030000
772.289	16.882	0.030000
776.090	16.831	0.030000
779.892	16.815	0.030000
783.694	16.767	0.030000
787.495	16.749	0.030000
791.297	16.757	0.030000
795.099	16.742	0.030000
798.901	16.630	0.030000
802.702	16.530	0.030000
807.050	16.499	0.030000
811.398	16.668	0.030000
815.746	16.682	0.030000
820.218	16.700	0.030000
824.690	16.735	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

829.163	16.716	0.030000
833.635	16.744	0.030000
838.107	16.768	0.030000
842.521	16.793	0.030000
846.936	16.919	0.030000
851.350	17.006	0.030000
855.765	17.000	0.030000
860.015	16.958	0.030000
864.266	16.932	0.030000
868.516	16.949	0.030000
872.767	17.038	0.030000
877.425	17.059	0.030000
882.084	16.952	0.030000
886.742	16.893	0.030000
890.076	16.925	0.030000
893.409	16.954	0.030000
896.742	16.988	0.030000
901.742	17.106	0.030000
906.742	17.201	0.030000
910.991	17.203	0.030000
915.241	17.140	0.030000
919.490	17.027	0.030000
923.739	16.994	0.030000
928.592	16.974	0.030000
933.446	17.017	0.030000
938.299	17.048	0.030000
943.153	17.069	0.030000
948.006	17.243	0.030000
952.975	17.280	0.030000
957.944	17.433	0.030000
962.913	17.596	0.030000
967.327	17.462	0.030000
971.742	17.450	0.030000
976.157	17.449	0.030000
980.571	17.710	0.030000
984.007	17.968	0.030000
987.443	17.993	0.030000
990.879	17.939	0.030000
995.655	17.768	0.030000
1000.431	17.585	0.030000
1005.208	17.418	0.030000
1009.984	17.255	0.030000
1014.886	17.061	0.030000
1019.787	16.894	0.030000
1024.689	16.905	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1028.938	16.894	0.030000
1033.188	16.933	0.030000
1037.437	16.936	0.030000
1041.686	16.964	0.030000
1045.935	16.980	0.030000
1050.184	17.025	0.030000
1054.613	17.165	0.030000
1059.043	17.287	0.030000
1063.489	17.374	0.030000
1067.936	17.388	0.030000
1072.383	17.366	0.030000
1076.829	17.399	0.030000
1081.276	17.404	0.030000
1085.722	17.385	0.030000
1089.808	17.374	0.030000
1093.894	17.383	0.030000
1097.980	17.474	0.030000

Name: XG0050A      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.784	0.030000
4.028	16.733	0.030000
8.057	16.821	0.030000
12.085	16.831	0.030000
16.695	16.741	0.030000
21.305	16.758	0.030000
25.914	16.687	0.030000
30.524	16.754	0.030000
35.134	16.700	0.030000
39.641	16.679	0.030000
44.148	16.384	0.030000
48.335	16.258	0.030000
52.523	16.213	0.030000
56.710	16.191	0.030000
60.898	16.228	0.030000
65.085	16.248	0.030000
69.272	16.116	0.030000
73.751	16.051	0.030000
78.230	16.037	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

82.710	16.075	0.030000
87.189	16.092	0.030000
91.668	16.056	0.030000
96.147	16.032	0.030000
99.704	16.090	0.030000
103.261	16.096	0.030000
106.818	16.115	0.030000
110.376	16.197	0.030000
113.933	16.289	0.030000
117.490	16.389	0.030000
121.905	16.546	0.030000
126.319	16.767	0.030000
130.734	16.921	0.030000
135.148	17.009	0.030000
139.563	17.071	0.030000
143.977	17.128	0.030000
148.392	17.187	0.030000
152.806	17.253	0.030000
156.978	17.220	0.030000
161.150	17.180	0.030000
165.322	17.161	0.030000
169.494	17.177	0.030000
173.296	17.178	0.030000
177.097	17.169	0.030000
180.899	17.169	0.030000
184.701	17.137	0.030000
188.745	17.159	0.030000
192.790	17.265	0.030000
196.834	17.143	0.030000
201.501	17.092	0.030000
206.168	17.038	0.030000
210.834	17.019	0.030000
215.501	17.040	0.030000
220.168	17.062	0.030000
224.655	17.047	0.030000
229.143	17.040	0.030000
234.143	17.018	0.030000
239.143	17.039	0.030000
244.143	17.099	0.030000
249.143	17.108	0.030000
254.143	17.122	0.030000
259.143	17.138	0.030000
262.579	17.138	0.030000
266.015	17.109	0.030000
269.451	17.102	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

272.887	17.117	0.030000
276.322	17.179	0.030000
279.758	17.168	0.030000
284.758	17.167	0.030000
289.758	17.181	0.030000
293.560	17.217	0.030000
297.362	17.249	0.030000
301.164	17.196	0.030000
304.965	17.217	0.030000
309.302	17.235	0.030000
313.638	17.182	0.030000
317.975	17.164	0.030000
322.311	17.162	0.030000
326.648	17.168	0.030000
330.693	17.154	0.030000
334.737	17.163	0.030000
338.781	17.175	0.030000
342.826	17.206	0.030000
346.870	17.265	0.030000
350.915	17.269	0.030000
355.164	17.260	0.030000
359.413	17.284	0.030000
363.663	17.286	0.030000
367.912	17.286	0.030000
372.161	17.275	0.030000
376.410	17.266	0.030000
380.659	17.281	0.030000
384.909	17.274	0.030000
389.565	17.276	0.030000
394.221	17.282	0.030000
398.878	17.284	0.030000
402.719	17.279	0.030000
406.561	17.275	0.030000
410.402	17.271	0.030000
414.244	17.259	0.030000
418.085	17.228	0.030000
421.927	17.177	0.030000
425.768	17.136	0.030000
429.610	17.119	0.030000
433.336	17.110	0.030000
437.063	17.089	0.030000
440.790	17.080	0.030000
444.540	17.103	0.030000
448.290	17.105	0.030000
452.040	17.166	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

455.790	17.219	0.030000
459.743	17.259	0.030000
463.695	17.265	0.030000
467.648	17.265	0.030000
471.723	17.255	0.030000
475.797	17.245	0.030000
479.872	17.235	0.030000
483.946	17.225	0.030000
488.805	17.205	0.030000
493.665	17.176	0.030000
498.524	17.186	0.030000
502.555	17.210	0.030000
506.586	17.236	0.030000
510.617	17.279	0.030000
514.648	17.284	0.030000
518.679	17.285	0.030000
522.115	17.294	0.030000
525.551	17.297	0.030000
528.987	17.298	0.030000
532.714	17.295	0.030000
536.441	17.292	0.030000
540.168	17.290	0.030000
545.027	17.286	0.030000
549.886	17.282	0.030000
554.745	17.278	0.030000
559.252	17.274	0.030000
563.759	17.271	0.030000
568.266	17.267	0.030000
572.773	17.269	0.030000
576.308	17.278	0.030000
579.844	17.265	0.030000
583.379	17.249	0.030000
587.434	17.224	0.030000
591.490	17.138	0.030000
595.545	16.987	0.030000
599.600	16.874	0.030000
603.655	16.800	0.030000
607.710	16.826	0.030000
611.765	16.993	0.030000
615.821	17.125	0.030000
619.876	17.142	0.030000
623.931	17.139	0.030000
627.658	17.145	0.030000
631.385	17.151	0.030000
635.111	17.163	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

638.445	17.165	0.030000
641.778	17.166	0.030000
645.111	17.168	0.030000
648.861	17.189	0.030000
652.611	17.251	0.030000
656.361	17.328	0.030000
660.111	17.375	0.030000
664.361	17.349	0.030000
668.610	17.301	0.030000
672.859	17.300	0.030000
677.108	17.324	0.030000
681.357	17.470	0.030000
685.606	17.592	0.030000
689.042	17.582	0.030000
692.478	17.589	0.030000
695.914	17.604	0.030000
699.716	17.509	0.030000
703.518	17.478	0.030000
707.319	17.554	0.030000
711.121	17.576	0.030000
714.923	17.656	0.030000
718.725	17.794	0.030000
722.526	17.670	0.030000
726.328	17.553	0.030000
730.938	17.448	0.030000
735.548	17.331	0.030000
740.157	17.285	0.030000
744.767	17.328	0.030000
749.377	17.421	0.030000
753.865	17.531	0.030000
758.352	17.436	0.030000
762.840	17.379	0.030000
767.583	17.397	0.030000
772.327	17.519	0.030000

Name: XG0050B      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.784	0.030000
4.089	16.729	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

8.177	16.687	0.030000
12.266	16.663	0.030000
16.355	16.692	0.030000
20.842	16.676	0.030000
25.330	16.730	0.030000
29.818	16.739	0.030000
33.254	16.749	0.030000
36.689	16.600	0.030000
40.125	16.564	0.030000
43.852	16.581	0.030000
47.579	16.570	0.030000
51.306	16.593	0.030000
55.555	16.610	0.030000
59.804	16.621	0.030000
64.053	16.639	0.030000
68.302	16.617	0.030000
72.552	16.577	0.030000
76.801	16.592	0.030000
80.603	16.516	0.030000
84.404	16.392	0.030000
88.206	16.367	0.030000
92.008	16.410	0.030000
95.341	16.413	0.030000
98.674	16.394	0.030000
102.008	16.431	0.030000
105.341	16.428	0.030000
108.674	16.427	0.030000
112.008	16.423	0.030000
116.257	16.405	0.030000
120.506	16.400	0.030000
124.755	16.406	0.030000
129.004	16.357	0.030000
133.352	16.265	0.030000
137.700	16.272	0.030000
142.048	16.289	0.030000
146.598	16.280	0.030000
151.147	16.246	0.030000
155.697	16.218	0.030000
160.246	16.355	0.030000
164.796	16.565	0.030000
169.345	16.836	0.030000
173.775	17.154	0.030000
178.204	17.311	0.030000
181.954	17.278	0.030000
185.704	17.265	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

189.454	17.280	0.030000
193.204	17.296	0.030000
197.157	17.310	0.030000
201.110	17.325	0.030000
205.062	17.379	0.030000
209.015	17.458	0.030000
214.015	17.537	0.030000
216.515	17.571	0.030000
219.015	17.601	0.030000
224.015	17.637	0.030000
227.451	17.640	0.030000
230.887	17.648	0.030000
234.323	17.667	0.030000
239.323	17.684	0.030000
241.823	17.631	0.030000
244.323	17.549	0.030000
249.323	17.438	0.030000
254.323	17.378	0.030000
259.323	17.266	0.030000
264.323	17.151	0.030000
268.323	17.150	0.030000
272.323	17.116	0.030000
276.323	17.112	0.030000
280.323	17.065	0.030000
284.323	17.013	0.030000
287.759	17.007	0.030000
291.195	17.058	0.030000
294.631	17.123	0.030000
298.067	17.177	0.030000
301.503	17.079	0.030000
304.938	17.098	0.030000
308.272	17.078	0.030000
311.605	17.078	0.030000
314.938	17.032	0.030000
318.374	16.985	0.030000
321.810	16.911	0.030000
325.246	16.895	0.030000
328.682	16.923	0.030000
332.118	16.981	0.030000
335.554	16.991	0.030000
339.741	17.012	0.030000
343.929	17.036	0.030000
348.116	17.060	0.030000
352.304	17.101	0.030000
356.491	17.261	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

360.679	17.366	0.030000
365.093	17.326	0.030000
369.508	17.140	0.030000
373.922	16.947	0.030000
378.337	16.773	0.030000
383.061	16.578	0.030000
387.785	16.340	0.030000
392.510	16.386	0.030000
397.168	16.366	0.030000
401.827	16.387	0.030000
406.485	16.368	0.030000
410.973	16.360	0.030000
415.460	16.440	0.030000
420.044	16.460	0.030000
424.627	16.420	0.030000
429.210	16.450	0.030000
433.794	16.490	0.030000
438.763	16.537	0.030000
443.732	16.585	0.030000
448.701	16.545	0.030000
453.188	16.463	0.030000
457.676	16.540	0.030000
462.164	16.715	0.030000
466.651	16.930	0.030000
471.139	17.035	0.030000
475.627	17.113	0.030000
480.537	17.157	0.030000
485.447	17.056	0.030000
490.358	17.023	0.030000
494.432	17.008	0.030000
498.507	16.934	0.030000
502.581	16.939	0.030000
506.656	16.901	0.030000
511.656	16.877	0.030000
516.656	16.840	0.030000
520.092	16.799	0.030000
523.528	16.829	0.030000
526.964	16.825	0.030000
531.135	16.793	0.030000
535.307	16.730	0.030000
539.479	16.662	0.030000
543.651	16.793	0.030000
547.963	16.777	0.030000
552.275	16.638	0.030000
556.587	16.583	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

560.899	16.608	0.030000
565.212	16.508	0.030000
569.524	16.472	0.030000
573.836	16.418	0.030000
578.392	16.383	0.030000
582.948	16.373	0.030000
587.503	16.463	0.030000
592.227	16.448	0.030000
596.950	16.465	0.030000
601.673	16.481	0.030000
606.396	16.569	0.030000
610.903	16.507	0.030000
615.410	16.475	0.030000
618.846	16.503	0.030000
622.282	16.527	0.030000
625.718	16.569	0.030000
629.254	16.535	0.030000
632.789	16.481	0.030000
636.325	16.544	0.030000
640.812	16.605	0.030000
645.300	16.583	0.030000
649.788	16.536	0.030000
654.275	16.529	0.030000
658.763	16.496	0.030000
662.662	16.652	0.030000
666.560	16.680	0.030000
670.459	16.657	0.030000
675.116	16.604	0.030000
679.772	16.628	0.030000
684.429	16.774	0.030000
689.086	16.803	0.030000
693.742	16.662	0.030000
698.399	16.652	0.030000
703.055	16.687	0.030000
707.577	16.597	0.030000
712.100	16.583	0.030000
716.622	16.754	0.030000
721.144	16.841	0.030000
725.666	16.774	0.030000
730.308	16.705	0.030000
734.949	16.756	0.030000
739.591	16.804	0.030000
744.190	16.813	0.030000
748.790	16.873	0.030000
753.390	16.859	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

757.990	16.925	0.030000
762.590	16.919	0.030000
767.190	16.956	0.030000
771.790	16.965	0.030000
776.258	16.895	0.030000
780.726	16.814	0.030000
785.193	16.746	0.030000
789.661	16.693	0.030000
794.129	16.763	0.030000
798.597	16.678	0.030000
803.065	16.807	0.030000
807.355	16.854	0.030000
811.645	16.888	0.030000
815.934	16.928	0.030000

Name: XG0050C                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.928	0.030000
4.659	16.898	0.030000
9.317	16.871	0.030000
13.975	16.871	0.030000
18.634	16.857	0.030000
23.292	16.840	0.030000
27.951	16.865	0.030000
31.678	16.884	0.030000
35.404	16.953	0.030000
39.131	16.981	0.030000
43.768	16.971	0.030000
48.405	16.982	0.030000
53.041	16.999	0.030000

Name: XG0060C                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	15.817	0.030000
4.453	15.877	0.030000
8.906	15.864	0.030000
13.359	15.766	0.030000
17.813	15.583	0.030000
22.266	15.601	0.030000
26.719	15.606	0.030000
31.172	15.783	0.030000
35.625	15.751	0.030000
40.078	15.751	0.030000
44.109	15.787	0.030000
48.140	15.742	0.030000
52.171	15.736	0.030000
56.203	15.668	0.030000
60.234	15.619	0.030000
64.234	15.658	0.030000
68.234	15.575	0.030000
72.234	15.530	0.030000
76.234	15.559	0.030000
80.234	15.411	0.030000
85.114	15.355	0.030000
89.995	15.390	0.030000
94.875	15.343	0.030000
99.755	15.327	0.030000
104.636	15.341	0.030000
109.516	15.320	0.030000
114.397	15.279	0.030000
119.277	15.313	0.030000
124.158	15.355	0.030000
129.038	15.377	0.030000
133.919	15.381	0.030000
138.799	15.384	0.030000
143.680	15.377	0.030000
148.560	15.261	0.030000
153.441	15.225	0.030000
158.321	15.261	0.030000
163.202	15.265	0.030000
168.082	15.179	0.030000
172.930	15.209	0.030000
177.778	15.158	0.030000
182.626	15.116	0.030000
187.474	15.070	0.030000
192.322	15.076	0.030000
197.170	15.044	0.030000
202.018	15.066	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

206.866	15.024	0.030000
211.714	14.933	0.030000
216.562	14.975	0.030000
221.410	14.872	0.030000
226.257	14.924	0.030000
231.105	14.902	0.030000
235.953	14.906	0.030000
240.801	14.919	0.030000
245.649	14.886	0.030000
250.497	14.818	0.030000
255.345	14.834	0.030000

Name: XG0060D      Group: G  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	17.519	0.030000
4.975	17.435	0.030000
9.950	17.383	0.030000
14.925	17.429	0.030000
19.899	17.446	0.030000
24.874	17.443	0.030000
29.849	17.433	0.030000
34.824	17.384	0.030000
39.799	17.334	0.030000
44.773	17.285	0.030000
49.748	17.238	0.030000
54.723	17.203	0.030000
59.698	17.185	0.030000
64.673	17.089	0.030000
69.648	16.978	0.030000
74.623	17.066	0.030000
79.597	17.238	0.030000
84.572	17.292	0.030000
89.547	17.203	0.030000
94.522	17.147	0.030000
99.497	17.104	0.030000
104.472	17.079	0.030000
109.446	17.058	0.030000
114.421	17.048	0.030000
119.396	17.044	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

124.371	17.081	0.030000
129.346	17.154	0.030000
134.321	17.160	0.030000
139.295	17.250	0.030000
144.270	17.438	0.030000
149.245	17.604	0.030000
154.220	17.666	0.030000
159.195	17.603	0.030000
164.170	17.540	0.030000
169.144	17.477	0.030000
174.119	17.413	0.030000
179.094	17.355	0.030000
184.069	17.259	0.030000
189.044	17.120	0.030000
194.019	17.136	0.030000
198.994	17.102	0.030000
203.968	16.969	0.030000
208.943	16.864	0.030000
213.918	16.842	0.030000
218.893	16.861	0.030000
223.868	16.880	0.030000
228.843	16.899	0.030000
233.817	16.918	0.030000
238.792	16.937	0.030000
243.767	16.921	0.030000
248.742	16.871	0.030000
253.717	17.002	0.030000
258.692	17.018	0.030000
263.666	16.871	0.030000
268.641	16.740	0.030000
273.616	16.674	0.030000
278.591	16.622	0.030000
283.566	16.584	0.030000
288.541	16.552	0.030000
293.515	16.520	0.030000
298.490	16.495	0.030000
303.465	16.547	0.030000
308.440	16.763	0.030000
313.415	16.820	0.030000
318.390	16.956	0.030000
323.364	17.078	0.030000
328.339	17.116	0.030000
333.314	17.079	0.030000
338.289	17.046	0.030000
343.264	17.031	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

348.239	17.003	0.030000
353.213	16.886	0.030000
358.188	16.764	0.030000
363.163	16.646	0.030000
368.138	16.579	0.030000
373.113	16.665	0.030000
378.088	16.797	0.030000
383.063	16.907	0.030000
388.037	16.947	0.030000
393.012	16.977	0.030000
397.987	16.924	0.030000
402.962	16.871	0.030000
407.937	16.818	0.030000
412.911	16.764	0.030000
417.886	16.681	0.030000
422.861	16.521	0.030000
427.836	16.376	0.030000
432.811	16.295	0.030000
437.786	16.480	0.030000
442.760	16.542	0.030000
447.735	16.604	0.030000
452.695	16.663	0.030000
457.655	16.719	0.030000
462.615	16.775	0.030000
467.575	16.822	0.030000
472.534	16.861	0.030000
477.494	16.786	0.030000
482.454	16.673	0.030000
487.414	16.679	0.030000
492.373	16.738	0.030000
497.333	16.811	0.030000
502.293	16.930	0.030000
507.253	16.833	0.030000
512.212	16.798	0.030000
517.172	16.896	0.030000
522.132	16.888	0.030000
527.092	16.863	0.030000
532.052	16.841	0.030000
537.011	16.816	0.030000
541.971	16.803	0.030000
546.931	16.651	0.030000
551.891	16.664	0.030000
556.850	16.731	0.030000
561.810	16.753	0.030000
566.770	16.764	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

571.730	16.775	0.030000
576.689	16.786	0.030000
581.649	16.830	0.030000
586.609	16.773	0.030000
591.569	16.635	0.030000
596.529	16.482	0.030000
601.488	16.378	0.030000
606.448	16.489	0.030000
611.408	16.279	0.030000
616.368	16.369	0.030000
621.327	16.649	0.030000
626.287	16.771	0.030000
631.247	16.826	0.030000
636.207	16.810	0.030000
641.167	16.759	0.030000
646.126	16.712	0.030000
651.086	16.665	0.030000
656.046	16.617	0.030000
661.006	16.577	0.030000
665.965	16.623	0.030000
670.925	16.584	0.030000
675.885	16.584	0.030000
680.845	16.710	0.030000
685.804	16.836	0.030000
690.764	16.962	0.030000
695.724	17.071	0.030000
700.684	17.073	0.030000
705.644	16.974	0.030000
710.603	16.871	0.030000
715.563	16.767	0.030000
720.523	16.691	0.030000
725.483	16.626	0.030000
730.443	16.617	0.030000
735.402	16.637	0.030000
740.362	16.554	0.030000
745.322	16.511	0.030000
750.282	16.540	0.030000
755.241	16.570	0.030000
760.201	16.599	0.030000
765.161	16.593	0.030000
770.121	16.514	0.030000
775.081	16.420	0.030000
780.040	16.308	0.030000
785.000	16.273	0.030000
789.960	16.407	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

794.920	16.361	0.030000
799.879	16.339	0.030000
804.839	16.303	0.030000
809.799	16.261	0.030000
814.759	16.221	0.030000
819.718	16.181	0.030000
824.678	16.140	0.030000
829.638	16.099	0.030000
834.598	16.058	0.030000
839.558	16.019	0.030000
844.517	16.013	0.030000
849.477	16.057	0.030000
854.437	15.937	0.030000
859.397	16.077	0.030000
864.356	16.243	0.030000
869.316	16.399	0.030000
874.276	16.450	0.030000
879.236	16.486	0.030000
884.196	16.518	0.030000
889.155	16.502	0.030000
894.115	16.485	0.030000
899.075	16.467	0.030000
904.035	16.444	0.030000
908.994	16.291	0.030000
913.954	16.089	0.030000
918.914	16.024	0.030000
923.874	16.025	0.030000
928.833	16.026	0.030000
933.793	16.082	0.030000
938.753	16.136	0.030000
943.713	16.154	0.030000
948.673	16.166	0.030000
953.632	16.178	0.030000
958.592	16.231	0.030000
963.552	16.367	0.030000
968.512	16.316	0.030000
973.471	16.164	0.030000
978.431	16.197	0.030000
983.391	16.161	0.030000
988.351	16.145	0.030000
993.311	16.136	0.030000
998.270	16.105	0.030000
1003.230	16.044	0.030000
1008.190	15.919	0.030000
1013.150	15.859	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1018.110	15.804	0.030000
1023.069	15.619	0.030000
1028.029	15.444	0.030000
1032.989	14.539	0.030000
1037.949	14.797	0.030000
1042.908	15.011	0.030000
1047.868	14.834	0.030000

Name: XG0060E                      Group: G  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.348	0.030000
4.861	16.282	0.030000
9.722	16.162	0.030000
14.583	15.960	0.030000
19.444	15.857	0.030000
24.306	15.992	0.030000
29.167	15.995	0.030000
34.028	15.963	0.030000
38.889	15.878	0.030000
43.750	15.823	0.030000
48.611	15.788	0.030000
53.472	15.903	0.030000
58.333	16.008	0.030000
63.194	16.060	0.030000
68.056	16.038	0.030000
72.917	16.119	0.030000
77.778	16.116	0.030000
82.639	16.206	0.030000
87.500	16.338	0.030000
92.361	16.349	0.030000
97.222	16.377	0.030000
102.083	16.317	0.030000
106.945	16.244	0.030000
111.806	16.158	0.030000
116.667	16.054	0.030000
121.528	15.995	0.030000
126.389	15.997	0.030000
131.250	15.918	0.030000
136.111	15.725	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

140.972	15.732	0.030000
145.833	15.848	0.030000
150.695	15.841	0.030000
155.556	15.704	0.030000
160.417	15.637	0.030000
165.278	15.689	0.030000
170.139	15.748	0.030000
175.000	15.817	0.030000

Name: XG0070A                      Group: G  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.900	0.030000
4.978	14.838	0.030000
9.956	14.782	0.030000
14.935	14.711	0.030000
19.913	14.527	0.030000
24.891	14.407	0.030000
29.869	14.288	0.030000
34.847	14.157	0.030000
39.825	14.001	0.030000
44.804	13.890	0.030000
49.782	13.710	0.030000
54.760	13.366	0.030000
59.738	13.267	0.030000
64.716	13.392	0.030000
69.695	13.526	0.030000
74.673	13.631	0.030000
79.651	13.670	0.030000
84.629	13.719	0.030000
89.607	13.682	0.030000
94.585	13.567	0.030000
99.564	13.625	0.030000
104.542	13.701	0.030000
109.520	13.632	0.030000
114.498	13.595	0.030000
119.476	13.623	0.030000
124.455	13.431	0.030000
129.433	13.434	0.030000
134.411	13.755	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

139.389	13.837	0.030000
144.367	14.092	0.030000
149.345	14.232	0.030000
154.324	14.255	0.030000
159.302	14.193	0.030000
164.280	14.252	0.030000
169.258	14.434	0.030000
174.236	14.436	0.030000
179.214	14.442	0.030000
184.193	14.627	0.030000
189.171	14.623	0.030000
194.149	14.639	0.030000
199.127	14.503	0.030000
204.105	14.543	0.030000
209.084	14.610	0.030000
214.062	14.594	0.030000
219.040	14.554	0.030000
224.018	14.585	0.030000
228.996	14.571	0.030000
233.975	14.700	0.030000
238.953	14.780	0.030000
243.931	14.718	0.030000
248.909	14.860	0.030000
253.887	15.013	0.030000
258.865	15.080	0.030000
263.844	15.235	0.030000
268.822	15.158	0.030000
273.800	15.048	0.030000
278.778	15.199	0.030000
283.756	15.370	0.030000
288.734	15.503	0.030000
293.713	15.411	0.030000
298.691	15.450	0.030000
303.669	15.426	0.030000
308.647	15.613	0.030000
313.625	15.471	0.030000
318.604	15.670	0.030000
323.582	15.768	0.030000
328.560	15.768	0.030000
333.538	15.766	0.030000
338.516	15.911	0.030000
343.494	15.881	0.030000
348.473	15.680	0.030000
353.451	15.816	0.030000
358.429	15.791	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

363.407	15.525	0.030000
368.385	15.515	0.030000
373.363	15.695	0.030000
378.342	15.846	0.030000
383.320	15.749	0.030000
388.298	15.741	0.030000
393.276	15.769	0.030000
398.254	15.490	0.030000
403.233	15.386	0.030000
408.211	15.692	0.030000
413.189	15.315	0.030000
418.167	14.987	0.030000
423.145	15.111	0.030000
428.123	15.138	0.030000
433.102	15.042	0.030000
438.080	14.503	0.030000
443.058	13.291	0.030000
448.036	13.907	0.030000
453.014	13.939	0.030000
457.993	14.150	0.030000
462.971	14.177	0.030000
467.949	14.383	0.030000
472.927	15.059	0.030000
477.905	15.203	0.030000
482.884	15.139	0.030000
487.876	15.047	0.030000
492.869	15.040	0.030000
497.862	15.074	0.030000
502.855	15.135	0.030000
507.848	15.058	0.030000
512.841	15.141	0.030000
517.833	15.160	0.030000
522.826	15.200	0.030000
527.819	15.130	0.030000
532.812	15.066	0.030000
537.805	15.092	0.030000
542.798	15.053	0.030000
547.791	15.027	0.030000
552.784	15.040	0.030000
557.776	14.994	0.030000
562.769	15.210	0.030000
567.762	15.216	0.030000
572.755	15.368	0.030000
577.748	15.236	0.030000
582.741	15.135	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

587.734	15.223	0.030000
592.726	15.303	0.030000
597.719	15.210	0.030000
602.712	15.165	0.030000
607.705	15.218	0.030000
612.698	15.358	0.030000
617.691	15.380	0.030000
622.684	15.397	0.030000
627.677	15.336	0.030000
632.669	15.325	0.030000
637.662	15.396	0.030000
642.655	15.418	0.030000
647.648	15.426	0.030000
652.641	15.303	0.030000
657.634	15.326	0.030000
662.626	15.347	0.030000
667.619	15.367	0.030000
672.612	15.269	0.030000
677.605	15.255	0.030000
682.598	15.241	0.030000
687.591	15.445	0.030000
692.584	15.428	0.030000
697.577	15.340	0.030000
702.569	15.393	0.030000
707.562	15.475	0.030000
712.555	15.522	0.030000
717.548	15.515	0.030000
722.541	15.526	0.030000
727.534	15.475	0.030000
732.527	15.480	0.030000
737.519	15.493	0.030000
742.512	15.644	0.030000
747.505	15.604	0.030000
752.498	15.605	0.030000
757.491	15.623	0.030000
762.484	15.610	0.030000
767.477	15.622	0.030000
772.470	15.653	0.030000
777.462	15.718	0.030000
782.455	15.693	0.030000
787.448	15.681	0.030000
792.441	15.742	0.030000
797.434	15.786	0.030000
802.427	15.762	0.030000
807.420	15.735	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

812.412	15.801	0.030000
817.405	15.787	0.030000
822.398	15.751	0.030000
827.391	15.717	0.030000
832.384	15.666	0.030000
837.377	15.686	0.030000
842.370	15.717	0.030000
847.362	15.671	0.030000
852.355	15.704	0.030000
857.348	15.733	0.030000
862.341	15.734	0.030000
867.334	15.750	0.030000
872.327	15.880	0.030000
877.320	16.003	0.030000
882.313	15.976	0.030000
887.305	15.963	0.030000
892.298	15.985	0.030000
897.291	16.090	0.030000
902.284	16.078	0.030000
907.277	16.019	0.030000
912.270	16.025	0.030000
917.263	16.096	0.030000
922.255	16.176	0.030000
927.248	16.178	0.030000
932.241	16.131	0.030000
937.234	16.104	0.030000
942.227	16.108	0.030000
947.220	16.128	0.030000
952.213	16.077	0.030000
957.206	16.018	0.030000
962.198	15.995	0.030000
967.191	15.968	0.030000
972.184	15.974	0.030000
977.177	16.005	0.030000
982.170	16.049	0.030000
987.083	16.316	0.030000
991.997	16.368	0.030000
996.910	16.363	0.030000
1001.824	16.372	0.030000
1006.737	16.390	0.030000
1011.651	16.411	0.030000
1016.564	16.421	0.030000
1021.477	16.425	0.030000
1026.391	16.440	0.030000
1031.304	16.430	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1036.218	16.416	0.030000
1041.131	16.411	0.030000
1046.045	16.409	0.030000
1050.958	16.422	0.030000
1055.872	16.384	0.030000
1060.785	16.299	0.030000
1065.699	16.204	0.030000
1070.612	16.152	0.030000
1075.526	16.189	0.030000
1080.439	16.215	0.030000
1085.352	16.190	0.030000
1090.266	16.109	0.030000
1095.179	16.045	0.030000
1100.093	16.035	0.030000
1105.006	16.012	0.030000
1109.920	16.001	0.030000
1114.833	16.029	0.030000
1119.747	16.076	0.030000
1124.660	16.009	0.030000
1129.574	15.951	0.030000
1134.487	15.997	0.030000
1139.400	15.982	0.030000
1144.314	15.984	0.030000
1149.227	16.074	0.030000
1154.141	16.062	0.030000
1159.054	15.998	0.030000
1163.968	15.858	0.030000
1168.881	16.100	0.030000
1173.795	16.021	0.030000
1178.708	16.005	0.030000
1183.622	15.941	0.030000
1188.535	15.897	0.030000
1193.448	16.091	0.030000
1198.362	15.902	0.030000
1203.275	15.878	0.030000
1208.189	15.906	0.030000
1213.102	15.947	0.030000
1218.016	15.961	0.030000
1222.929	15.898	0.030000
1227.843	15.807	0.030000
1232.756	15.826	0.030000
1237.216	15.928	0.030000
1241.677	15.996	0.030000
1246.137	15.845	0.030000
1250.598	15.626	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1255.058	15.556	0.030000
1259.519	15.500	0.030000
1263.979	15.431	0.030000
1268.440	15.477	0.030000
1272.900	15.666	0.030000
1277.675	15.884	0.030000
1282.449	16.185	0.030000
1287.224	16.452	0.030000
1291.999	16.504	0.030000

Name: XG0080B                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.687	0.030000
4.878	14.582	0.030000
9.756	14.350	0.030000
14.634	14.266	0.030000
19.512	14.304	0.030000
24.390	14.328	0.030000
29.268	14.418	0.030000
34.147	14.537	0.030000
39.025	14.591	0.030000
43.903	14.670	0.030000
48.781	14.799	0.030000
53.659	14.913	0.030000
58.537	14.905	0.030000
63.415	14.961	0.030000
68.293	14.935	0.030000
73.171	15.072	0.030000
78.049	15.157	0.030000
82.927	15.169	0.030000
87.805	15.326	0.030000
92.683	15.386	0.030000
97.561	15.419	0.030000
102.439	15.374	0.030000
107.318	15.284	0.030000
112.196	15.195	0.030000
117.074	15.220	0.030000
121.952	15.189	0.030000
126.830	15.208	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

131.708	15.194	0.030000
136.586	15.044	0.030000
141.464	15.103	0.030000
146.342	15.162	0.030000
151.220	15.173	0.030000
156.098	15.224	0.030000
160.976	15.163	0.030000
165.854	15.195	0.030000
170.732	15.202	0.030000
175.610	15.045	0.030000
180.488	14.918	0.030000
185.367	14.924	0.030000
190.245	14.994	0.030000
195.123	15.031	0.030000
200.001	15.067	0.030000
204.301	15.083	0.030000
208.602	15.032	0.030000
212.903	15.024	0.030000
217.203	15.027	0.030000
221.504	15.042	0.030000
225.804	14.983	0.030000
230.105	14.993	0.030000
234.058	15.092	0.030000
238.011	15.134	0.030000
241.963	15.108	0.030000
245.916	15.103	0.030000
249.718	15.132	0.030000
253.520	15.160	0.030000
257.321	15.235	0.030000
261.123	15.266	0.030000
265.168	15.334	0.030000
269.212	15.384	0.030000
273.257	15.370	0.030000
277.593	15.375	0.030000
281.930	15.313	0.030000
286.266	15.281	0.030000
290.603	15.284	0.030000
294.939	15.242	0.030000
299.446	15.256	0.030000
303.953	15.294	0.030000
308.328	15.379	0.030000
312.703	15.369	0.030000
317.078	15.372	0.030000
321.453	15.359	0.030000
324.889	15.326	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

328.325	15.274	0.030000
331.761	15.239	0.030000
335.094	15.226	0.030000
338.428	15.239	0.030000
341.761	15.232	0.030000
346.136	15.228	0.030000
350.511	15.246	0.030000
354.886	15.222	0.030000
359.261	15.212	0.030000
363.636	15.267	0.030000
368.011	15.263	0.030000
372.386	15.285	0.030000
376.761	15.298	0.030000
381.742	15.246	0.030000
386.722	15.191	0.030000
391.703	15.180	0.030000
396.684	15.161	0.030000
401.664	15.103	0.030000
406.645	15.089	0.030000
411.626	15.110	0.030000
416.607	15.074	0.030000
421.587	15.080	0.030000
426.568	15.163	0.030000
431.549	15.216	0.030000
436.530	15.215	0.030000
441.510	15.246	0.030000
446.491	15.257	0.030000
451.472	15.283	0.030000
456.452	15.328	0.030000
461.433	15.317	0.030000
466.414	15.308	0.030000
471.395	15.305	0.030000
476.375	15.277	0.030000
481.356	15.225	0.030000
486.337	15.220	0.030000
491.318	15.176	0.030000
496.298	15.111	0.030000
501.279	15.061	0.030000
506.260	15.032	0.030000
511.241	14.985	0.030000
516.221	14.930	0.030000
521.202	14.960	0.030000
526.183	15.000	0.030000
531.163	15.015	0.030000
536.144	15.145	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

541.125	15.194	0.030000
546.106	15.120	0.030000
551.086	15.101	0.030000
556.067	15.047	0.030000
561.048	14.954	0.030000
566.029	14.951	0.030000
571.009	14.951	0.030000
575.990	14.934	0.030000
580.971	14.871	0.030000
585.951	14.900	0.030000

Name: XG0090B                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.519	0.030000
4.714	13.463	0.030000
9.428	13.538	0.030000
14.142	13.611	0.030000
18.041	13.563	0.030000
21.940	13.391	0.030000
25.839	13.433	0.030000
29.274	13.547	0.030000
32.710	13.586	0.030000
36.146	13.582	0.030000
41.055	13.503	0.030000
45.963	13.346	0.030000
50.871	13.428	0.030000
55.780	13.763	0.030000
60.688	14.015	0.030000
65.597	14.268	0.030000
70.505	14.497	0.030000
75.413	14.568	0.030000
80.322	14.335	0.030000
85.230	13.661	0.030000
90.138	12.716	0.030000
95.047	12.673	0.030000
99.955	12.650	0.030000
104.864	12.652	0.030000
109.772	12.516	0.030000
114.680	12.531	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

119.589	12.742	0.030000
124.497	13.073	0.030000
129.406	13.000	0.030000
134.314	12.900	0.030000
139.222	12.993	0.030000
144.131	12.858	0.030000
149.039	12.665	0.030000
153.947	12.441	0.030000
158.856	12.778	0.030000
163.764	13.906	0.030000
168.639	13.557	0.030000
173.515	12.829	0.030000
178.390	12.728	0.030000
183.265	12.949	0.030000
188.140	13.120	0.030000
193.015	13.305	0.030000
197.891	12.995	0.030000
202.722	12.899	0.030000
207.554	12.883	0.030000
212.034	13.040	0.030000
216.515	13.194	0.030000
220.995	13.150	0.030000
225.476	13.055	0.030000
229.956	13.070	0.030000
234.437	13.108	0.030000
238.917	13.211	0.030000
243.398	13.277	0.030000
247.912	13.374	0.030000
252.426	13.189	0.030000
256.940	13.109	0.030000
261.454	13.058	0.030000
265.968	12.521	0.030000

Name: XG0090C                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.249	0.030000
4.932	14.586	0.030000
9.863	14.684	0.030000
14.795	14.551	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

19.726	14.197	0.030000
24.658	14.255	0.030000
29.589	14.358	0.030000
34.521	14.426	0.030000
39.452	14.585	0.030000
44.384	14.705	0.030000
49.316	14.758	0.030000
54.247	14.895	0.030000
59.179	15.097	0.030000
64.110	15.379	0.030000
69.042	15.404	0.030000
73.973	15.218	0.030000
78.905	15.147	0.030000
83.836	14.964	0.030000
88.768	15.013	0.030000
93.699	14.840	0.030000
98.631	14.794	0.030000
103.563	14.674	0.030000
108.494	14.480	0.030000
113.426	14.497	0.030000
118.357	14.331	0.030000
123.289	14.350	0.030000
128.220	14.614	0.030000
133.152	14.775	0.030000
138.083	14.571	0.030000
143.015	13.984	0.030000
147.946	13.332	0.030000
152.878	12.989	0.030000
157.810	12.901	0.030000
162.741	12.847	0.030000
167.123	12.599	0.030000
171.504	12.609	0.030000
175.886	12.918	0.030000
180.268	12.730	0.030000
184.649	12.749	0.030000
189.031	12.803	0.030000
193.943	12.854	0.030000
198.854	12.848	0.030000
203.766	12.802	0.030000
208.677	12.611	0.030000
213.588	12.710	0.030000
218.500	12.734	0.030000
223.411	12.591	0.030000
228.323	12.814	0.030000
233.234	12.880	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

238.146	12.844	0.030000
243.057	12.967	0.030000
247.969	12.972	0.030000
252.880	13.134	0.030000
257.792	13.424	0.030000
262.703	12.919	0.030000
267.161	12.940	0.030000
271.619	12.938	0.030000
276.077	12.972	0.030000
280.535	13.219	0.030000
284.993	13.383	0.030000
289.451	13.439	0.030000
293.909	13.651	0.030000
298.367	13.747	0.030000
302.825	13.646	0.030000

Name: XG0090D                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.646	0.030000
4.584	13.665	0.030000
9.169	13.642	0.030000
13.753	13.648	0.030000
18.338	13.705	0.030000
22.922	13.732	0.030000
27.507	13.676	0.030000
32.091	13.555	0.030000
36.676	13.510	0.030000
41.260	13.422	0.030000
45.844	13.403	0.030000
50.429	13.291	0.030000
55.003	13.178	0.030000
59.577	13.109	0.030000
64.150	13.069	0.030000
68.724	13.195	0.030000
73.334	13.319	0.030000
77.943	13.311	0.030000
82.553	13.196	0.030000
87.162	13.222	0.030000
91.954	12.975	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

96.746	12.964	0.030000
101.538	12.917	0.030000
106.330	13.259	0.030000
110.987	13.420	0.030000
115.644	13.448	0.030000
120.301	13.506	0.030000
124.958	13.519	0.030000

---

Name: XG0100B	Group: G
Encroachment: No	

---

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

---

0.000	12.521	0.030000
4.867	12.731	0.030000
9.734	12.613	0.030000
14.601	11.796	0.030000
19.135	11.814	0.030000
23.668	11.921	0.030000
28.202	11.845	0.030000
32.735	11.721	0.030000
37.269	11.708	0.030000
41.802	12.026	0.030000
46.336	12.801	0.030000
50.870	13.332	0.030000
55.740	14.204	0.030000
60.610	14.664	0.030000
65.481	14.709	0.030000
70.351	14.685	0.030000
75.222	14.793	0.030000
80.092	14.936	0.030000
84.962	15.322	0.030000
89.833	15.695	0.030000
94.703	15.683	0.030000
99.574	15.523	0.030000
104.498	15.261	0.030000
109.423	15.147	0.030000
114.348	14.945	0.030000
119.272	14.726	0.030000
124.197	14.600	0.030000
129.122	14.509	0.030000
134.046	14.608	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

138.971	14.772	0.030000
143.896	14.712	0.030000
148.820	14.646	0.030000
153.745	14.594	0.030000
158.670	14.610	0.030000
163.594	14.636	0.030000
168.519	14.530	0.030000
173.444	14.640	0.030000
178.368	14.772	0.030000
183.293	14.697	0.030000
188.218	14.744	0.030000
193.142	14.899	0.030000
198.067	14.945	0.030000
202.992	14.922	0.030000
207.916	15.027	0.030000
212.841	14.987	0.030000
217.766	15.062	0.030000
222.671	15.152	0.030000
227.577	15.131	0.030000
232.482	14.945	0.030000
237.388	15.025	0.030000
242.294	15.094	0.030000
247.199	14.953	0.030000
252.105	14.997	0.030000
257.011	15.098	0.030000
261.916	15.133	0.030000
266.822	15.408	0.030000
271.728	15.382	0.030000
276.633	15.216	0.030000
281.539	15.277	0.030000
286.445	15.263	0.030000
291.350	15.291	0.030000
296.256	15.170	0.030000
301.161	15.065	0.030000
306.067	14.880	0.030000
310.973	14.916	0.030000
315.878	14.802	0.030000
320.784	14.734	0.030000
325.690	14.699	0.030000
330.595	14.759	0.030000
335.501	14.795	0.030000
340.406	14.744	0.030000
345.312	14.681	0.030000
350.218	14.658	0.030000
355.123	14.642	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

360.029	14.680	0.030000
364.935	15.084	0.030000
369.840	15.130	0.030000
374.746	14.892	0.030000
379.652	14.836	0.030000
384.557	14.708	0.030000
389.463	14.462	0.030000
394.368	14.428	0.030000
399.274	14.475	0.030000
404.180	14.692	0.030000
409.085	15.073	0.030000

Name: XG0110B      Group: G  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.200	0.030000
4.482	14.223	0.030000
8.963	14.199	0.030000
13.445	14.218	0.030000
17.927	14.143	0.030000
22.409	14.181	0.030000
26.890	14.124	0.030000
31.372	14.235	0.030000
35.854	14.287	0.030000
40.552	14.206	0.030000
45.250	14.199	0.030000
49.948	14.185	0.030000
54.645	14.083	0.030000
59.343	14.071	0.030000
64.041	14.049	0.030000
68.739	14.065	0.030000
73.437	14.056	0.030000
78.135	14.083	0.030000
82.833	14.004	0.030000
87.531	14.044	0.030000
92.229	14.042	0.030000
96.927	14.037	0.030000
101.625	14.041	0.030000
106.323	14.078	0.030000
111.020	14.097	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

115.718	14.090	0.030000
120.416	14.121	0.030000
125.114	14.099	0.030000
129.812	14.067	0.030000
134.510	14.093	0.030000
139.208	14.114	0.030000
143.906	14.034	0.030000
148.604	14.122	0.030000
153.302	14.076	0.030000
158.000	14.066	0.030000
162.697	14.089	0.030000
167.395	14.108	0.030000
172.093	14.146	0.030000
176.791	14.079	0.030000
181.489	14.088	0.030000
186.187	14.142	0.030000
190.270	14.149	0.030000
194.354	14.162	0.030000
198.437	14.137	0.030000
202.521	14.315	0.030000
206.604	14.369	0.030000

Name: XG0110C                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.689	0.030000
4.889	15.738	0.030000
9.778	15.827	0.030000
14.668	15.908	0.030000
19.557	15.888	0.030000
24.446	15.878	0.030000
29.335	15.819	0.030000
34.224	15.792	0.030000
39.113	15.794	0.030000
44.002	15.725	0.030000
48.892	15.809	0.030000
53.781	15.810	0.030000
58.670	15.840	0.030000
63.559	15.880	0.030000
68.448	15.900	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

73.337	15.839	0.030000
78.227	15.725	0.030000
83.116	15.718	0.030000
88.005	15.781	0.030000
92.894	15.701	0.030000
97.783	15.701	0.030000
102.672	15.666	0.030000
107.562	15.705	0.030000
112.451	15.616	0.030000
117.340	15.556	0.030000
122.229	15.585	0.030000
126.874	15.518	0.030000
131.519	15.485	0.030000
136.164	15.481	0.030000
140.809	15.501	0.030000
145.454	15.524	0.030000
150.099	15.489	0.030000
154.744	15.435	0.030000
159.390	15.320	0.030000
164.035	15.246	0.030000
168.680	15.227	0.030000
173.325	15.113	0.030000
177.970	15.059	0.030000
182.615	14.977	0.030000
187.260	14.875	0.030000
191.897	14.831	0.030000
196.534	14.762	0.030000
201.170	14.726	0.030000
205.807	14.603	0.030000
210.444	14.565	0.030000
215.081	14.507	0.030000
219.717	14.445	0.030000
224.354	14.392	0.030000
228.991	14.366	0.030000
233.628	14.334	0.030000
238.264	14.336	0.030000
242.877	14.429	0.030000
247.490	14.434	0.030000
252.103	14.486	0.030000
256.716	14.568	0.030000
261.329	14.614	0.030000
265.942	14.668	0.030000
270.555	14.757	0.030000
275.168	14.763	0.030000
279.781	14.741	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

284.518	14.835	0.030000
289.255	14.942	0.030000
293.992	15.037	0.030000
298.729	15.100	0.030000
303.466	15.113	0.030000
308.203	15.116	0.030000
312.940	15.151	0.030000
317.677	15.185	0.030000
322.414	15.189	0.030000
327.151	15.258	0.030000
331.888	15.280	0.030000
336.625	15.237	0.030000
341.363	15.296	0.030000
346.100	15.261	0.030000
351.060	15.278	0.030000
356.020	15.325	0.030000
360.980	15.370	0.030000
365.940	15.358	0.030000
370.899	15.262	0.030000
375.860	15.235	0.030000
380.820	15.229	0.030000
385.779	15.301	0.030000
390.740	15.290	0.030000
395.700	15.240	0.030000
400.659	15.205	0.030000
405.619	15.211	0.030000
410.579	15.249	0.030000
415.539	15.277	0.030000
420.499	15.262	0.030000
425.459	15.250	0.030000
430.419	15.229	0.030000
435.379	15.237	0.030000
440.339	15.267	0.030000
445.299	15.226	0.030000
450.259	15.167	0.030000
455.219	15.173	0.030000
460.179	15.193	0.030000
465.139	15.093	0.030000
470.099	15.050	0.030000
475.059	15.090	0.030000
480.019	15.143	0.030000
484.979	15.121	0.030000
489.939	15.049	0.030000
494.899	14.944	0.030000
499.859	14.810	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

504.819	14.843	0.030000
509.779	14.832	0.030000
514.739	14.741	0.030000
519.699	14.657	0.030000
524.659	14.704	0.030000
529.619	14.737	0.030000
534.579	14.749	0.030000
539.539	14.801	0.030000
544.499	14.775	0.030000
549.459	14.730	0.030000
554.419	14.800	0.030000
559.379	14.897	0.030000
564.339	14.918	0.030000
569.299	14.921	0.030000
574.259	14.940	0.030000
579.219	14.988	0.030000
584.179	14.895	0.030000
589.139	14.804	0.030000
594.099	14.953	0.030000
599.059	14.913	0.030000
604.019	14.908	0.030000
608.979	14.782	0.030000
613.939	14.848	0.030000
618.899	14.718	0.030000
623.859	14.790	0.030000
628.819	14.690	0.030000
633.779	14.775	0.030000
638.739	14.740	0.030000
643.699	14.746	0.030000
648.659	14.791	0.030000
653.619	14.767	0.030000
658.579	14.775	0.030000
663.539	14.740	0.030000
668.499	14.766	0.030000
673.459	14.748	0.030000
678.419	14.757	0.030000
683.379	14.874	0.030000
688.338	14.854	0.030000
693.298	14.862	0.030000
698.259	14.857	0.030000
703.218	14.843	0.030000
708.178	14.863	0.030000
713.139	14.873	0.030000
718.098	14.831	0.030000
723.058	14.906	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

728.018	14.919	0.030000
732.978	14.833	0.030000
737.938	14.917	0.030000
742.898	14.923	0.030000
747.858	14.957	0.030000
752.818	15.026	0.030000
757.778	15.073	0.030000
762.738	15.029	0.030000
767.698	15.005	0.030000
772.689	15.081	0.030000
777.681	14.996	0.030000
782.672	15.081	0.030000
787.663	15.055	0.030000
792.654	15.086	0.030000
797.645	15.020	0.030000
802.636	15.022	0.030000
807.627	14.934	0.030000
812.618	15.150	0.030000
817.609	15.119	0.030000
822.600	15.252	0.030000
827.591	15.247	0.030000
832.582	15.543	0.030000
837.574	15.691	0.030000
842.565	15.756	0.030000
847.556	15.733	0.030000
852.547	15.804	0.030000
857.538	15.708	0.030000
862.529	15.477	0.030000
867.520	15.438	0.030000
872.511	15.457	0.030000
877.502	15.457	0.030000
882.493	15.311	0.030000
887.485	15.250	0.030000
892.476	15.506	0.030000
897.467	15.632	0.030000
902.458	15.892	0.030000
907.449	15.717	0.030000
912.440	15.673	0.030000
917.431	15.688	0.030000
922.422	15.602	0.030000
927.413	16.046	0.030000
932.404	15.855	0.030000
937.395	15.711	0.030000
942.386	15.913	0.030000
947.378	15.560	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

952.369	15.350	0.030000
957.360	15.687	0.030000
962.351	15.642	0.030000
967.342	15.500	0.030000
972.333	15.247	0.030000
977.324	15.041	0.030000
982.315	15.292	0.030000
987.306	15.451	0.030000
992.297	15.054	0.030000
997.288	15.257	0.030000
1002.280	15.163	0.030000
1007.271	15.044	0.030000
1012.262	15.270	0.030000
1017.253	15.543	0.030000
1022.244	15.753	0.030000
1027.235	15.578	0.030000
1032.226	15.679	0.030000
1037.217	15.656	0.030000
1042.208	15.654	0.030000
1047.199	15.731	0.030000
1052.190	15.660	0.030000
1057.181	15.553	0.030000
1062.173	15.422	0.030000
1067.164	15.582	0.030000
1072.155	15.596	0.030000
1077.146	15.635	0.030000
1082.135	15.955	0.030000
1087.125	15.833	0.030000
1092.115	15.791	0.030000
1097.104	15.852	0.030000
1102.094	15.811	0.030000
1107.083	15.616	0.030000
1112.073	15.725	0.030000
1117.063	15.539	0.030000
1122.052	15.616	0.030000
1127.042	15.589	0.030000
1132.031	15.634	0.030000
1137.021	15.606	0.030000
1142.011	15.587	0.030000
1147.000	15.648	0.030000
1151.989	15.853	0.030000
1156.978	15.870	0.030000
1161.967	15.870	0.030000
1166.956	16.029	0.030000
1171.944	16.041	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1176.933	16.169	0.030000
1181.922	16.057	0.030000
1186.911	16.171	0.030000
1191.900	16.197	0.030000
1196.889	16.233	0.030000
1201.878	16.330	0.030000
1206.866	16.758	0.030000
1211.855	16.954	0.030000
1216.844	16.879	0.030000
1221.833	16.987	0.030000
1226.822	16.972	0.030000
1231.811	17.048	0.030000
1236.800	16.853	0.030000
1241.788	16.917	0.030000
1246.777	16.575	0.030000
1251.766	16.608	0.030000
1256.755	16.746	0.030000
1261.744	16.465	0.030000
1266.733	16.463	0.030000
1271.722	16.471	0.030000
1276.710	16.602	0.030000
1281.699	16.642	0.030000
1286.688	16.614	0.030000
1291.677	16.603	0.030000
1296.666	16.612	0.030000
1301.655	16.491	0.030000
1306.643	16.440	0.030000
1311.632	16.447	0.030000
1316.621	16.449	0.030000
1321.610	16.495	0.030000
1326.599	16.313	0.030000
1331.588	16.339	0.030000
1336.577	16.474	0.030000
1341.566	16.553	0.030000
1346.554	16.485	0.030000
1351.543	16.393	0.030000
1356.532	16.418	0.030000
1361.521	16.584	0.030000
1366.510	16.593	0.030000
1371.499	16.541	0.030000
1376.488	16.365	0.030000
1381.476	16.402	0.030000
1386.465	16.280	0.030000
1391.265	16.471	0.030000
1396.064	16.385	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1400.863	16.306	0.030000
1405.662	16.215	0.030000
1410.461	16.267	0.030000
1415.261	16.281	0.030000
1420.060	16.262	0.030000
1424.859	16.252	0.030000
1429.659	16.165	0.030000
1434.458	16.075	0.030000
1439.257	16.118	0.030000
1444.251	16.543	0.030000
1449.245	16.568	0.030000
1454.238	16.560	0.030000
1459.232	16.501	0.030000
1464.226	16.479	0.030000
1469.219	16.486	0.030000
1474.213	16.561	0.030000
1479.207	16.499	0.030000
1484.201	16.684	0.030000
1489.194	16.489	0.030000
1494.188	16.473	0.030000
1499.182	16.575	0.030000
1504.176	16.703	0.030000
1509.169	16.784	0.030000
1514.163	16.786	0.030000
1519.157	16.694	0.030000
1524.151	16.665	0.030000
1529.144	16.688	0.030000
1534.138	16.631	0.030000
1539.132	16.568	0.030000
1544.126	16.585	0.030000
1549.119	16.604	0.030000
1554.113	16.560	0.030000
1559.107	16.557	0.030000
1564.100	16.652	0.030000
1569.094	16.689	0.030000
1574.088	16.654	0.030000
1579.082	16.659	0.030000
1584.075	16.692	0.030000
1589.069	16.638	0.030000
1594.063	16.627	0.030000
1599.057	16.693	0.030000
1604.050	16.614	0.030000
1609.044	16.625	0.030000
1614.038	16.594	0.030000
1619.032	16.648	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1624.025	16.653	0.030000
1629.019	16.595	0.030000
1634.013	16.511	0.030000
1639.007	16.495	0.030000
1644.000	16.511	0.030000
1648.994	16.463	0.030000
1653.988	16.401	0.030000
1658.981	16.431	0.030000
1663.975	16.435	0.030000
1668.969	16.337	0.030000
1673.963	16.366	0.030000
1678.956	16.342	0.030000
1683.950	16.255	0.030000
1688.944	16.236	0.030000
1693.938	16.145	0.030000
1698.931	16.121	0.030000
1703.925	16.166	0.030000
1708.919	16.145	0.030000
1713.912	16.005	0.030000
1718.906	15.978	0.030000
1723.900	15.991	0.030000
1728.897	16.125	0.030000
1733.893	16.126	0.030000
1738.890	16.145	0.030000
1743.886	16.158	0.030000
1748.883	16.277	0.030000
1753.879	16.043	0.030000
1758.876	16.213	0.030000
1763.872	16.241	0.030000
1768.869	16.131	0.030000
1773.866	16.083	0.030000
1778.862	16.049	0.030000
1783.859	16.017	0.030000
1788.855	16.078	0.030000
1793.852	16.029	0.030000
1798.848	16.171	0.030000
1803.845	16.331	0.030000
1808.842	16.189	0.030000
1813.838	16.124	0.030000
1818.835	16.044	0.030000
1823.831	16.103	0.030000
1828.828	16.151	0.030000
1833.824	16.133	0.030000
1838.821	16.451	0.030000
1843.818	16.752	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1848.814	16.604	0.030000
1853.811	16.431	0.030000
1858.807	16.321	0.030000
1863.804	16.345	0.030000
1868.800	16.184	0.030000
1873.797	16.012	0.030000
1878.793	15.927	0.030000
1883.790	15.908	0.030000
1888.775	15.962	0.030000
1893.759	15.894	0.030000
1898.744	16.014	0.030000
1903.729	15.963	0.030000
1908.714	16.145	0.030000
1913.699	16.401	0.030000
1918.683	16.435	0.030000
1923.668	16.200	0.030000
1928.653	16.018	0.030000
1933.638	16.015	0.030000
1938.622	15.985	0.030000
1943.607	15.996	0.030000
1948.592	16.018	0.030000
1953.577	16.100	0.030000
1958.561	16.374	0.030000
1963.546	16.452	0.030000
1968.531	16.302	0.030000
1973.516	16.288	0.030000
1978.500	16.410	0.030000
1983.485	16.423	0.030000
1988.470	16.401	0.030000
1993.455	16.485	0.030000
1998.440	16.466	0.030000
2003.424	16.436	0.030000
2008.409	16.377	0.030000
2013.394	16.324	0.030000
2018.379	16.161	0.030000
2023.363	15.891	0.030000
2028.348	15.831	0.030000
2033.333	15.880	0.030000
2038.318	15.717	0.030000
2043.302	15.392	0.030000
2048.287	14.993	0.030000
2053.272	14.703	0.030000
2058.257	14.641	0.030000
2063.241	14.633	0.030000
2068.226	14.550	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

2073.211	14.343	0.030000
2078.196	14.200	0.030000
2083.180	14.069	0.030000
2088.165	13.996	0.030000
2093.150	14.094	0.030000
2098.135	14.369	0.030000

-----

Name: XG0110D	Group: G
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	14.200	0.030000
4.914	14.275	0.030000
9.828	14.308	0.030000
14.742	14.252	0.030000
19.657	14.250	0.030000
24.571	14.286	0.030000
29.485	14.204	0.030000
34.399	14.181	0.030000
39.313	14.242	0.030000
44.011	14.232	0.030000
48.709	14.164	0.030000
53.407	14.084	0.030000
58.105	14.127	0.030000
62.802	14.192	0.030000
67.500	14.183	0.030000
72.198	14.214	0.030000
76.896	14.201	0.030000
81.594	14.200	0.030000
86.292	14.140	0.030000
90.990	14.138	0.030000
95.688	14.113	0.030000
100.386	14.085	0.030000
105.084	14.006	0.030000
109.781	13.983	0.030000
114.479	14.029	0.030000
119.048	14.059	0.030000
123.616	14.076	0.030000
128.184	14.103	0.030000
132.752	14.131	0.030000
137.320	14.216	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

141.888	14.153	0.030000
146.456	14.307	0.030000
151.024	14.427	0.030000
155.593	14.642	0.030000
160.161	14.793	0.030000
164.729	14.947	0.030000
169.025	15.043	0.030000
173.322	15.046	0.030000
177.619	15.073	0.030000

Name: XG0120A                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.708	0.030000
4.584	14.688	0.030000
9.167	14.561	0.030000
13.751	14.474	0.030000
18.334	14.436	0.030000
22.918	14.450	0.030000
27.502	14.943	0.030000
32.085	15.089	0.030000
36.669	15.196	0.030000
41.252	15.399	0.030000
45.836	15.444	0.030000
50.419	15.516	0.030000
55.003	15.626	0.030000
60.003	15.755	0.030000
65.003	15.770	0.030000
70.003	15.661	0.030000
75.003	15.586	0.030000
79.003	15.511	0.030000
83.003	15.528	0.030000
87.003	15.560	0.030000
91.003	15.592	0.030000
95.003	15.610	0.030000
98.753	15.565	0.030000
102.503	15.500	0.030000
106.253	15.446	0.030000
110.003	15.399	0.030000
113.439	15.441	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

116.875	15.409	0.030000
120.311	15.382	0.030000
125.311	15.297	0.030000
130.311	15.270	0.030000
135.311	15.300	0.030000
139.860	15.050	0.030000
144.410	14.735	0.030000
148.959	14.570	0.030000
153.509	14.568	0.030000
158.059	14.558	0.030000
162.608	14.499	0.030000
166.857	14.483	0.030000
171.106	14.651	0.030000
175.356	14.627	0.030000
179.605	14.590	0.030000
184.605	14.576	0.030000
189.605	14.562	0.030000
194.605	14.570	0.030000
198.041	14.567	0.030000
201.477	14.563	0.030000
204.913	14.560	0.030000
208.303	14.579	0.030000
211.694	14.707	0.030000
215.085	14.810	0.030000
219.572	14.783	0.030000
224.060	14.832	0.030000
228.548	14.897	0.030000
233.035	14.949	0.030000
237.523	14.931	0.030000
242.072	14.857	0.030000
246.622	14.821	0.030000
251.172	14.835	0.030000
255.721	14.903	0.030000
260.271	14.949	0.030000
264.820	14.980	0.030000
269.069	14.951	0.030000
273.318	14.766	0.030000
277.568	14.759	0.030000
281.817	14.753	0.030000
285.253	14.727	0.030000
288.689	14.711	0.030000
292.125	14.708	0.030000
296.554	14.720	0.030000
300.983	14.797	0.030000
305.492	14.813	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

310.002	14.808	0.030000
314.511	14.796	0.030000
319.020	14.787	0.030000
323.931	14.766	0.030000
328.841	14.721	0.030000
333.752	14.690	0.030000
338.603	14.715	0.030000
343.454	14.585	0.030000
348.305	14.512	0.030000
353.157	14.374	0.030000
358.008	14.569	0.030000
362.859	14.671	0.030000
366.865	14.607	0.030000
370.871	14.618	0.030000
374.877	14.635	0.030000
379.307	14.576	0.030000
383.736	14.379	0.030000
388.736	14.187	0.030000
393.736	14.134	0.030000
397.069	14.138	0.030000
400.402	14.105	0.030000
403.736	14.220	0.030000
407.172	14.325	0.030000
410.608	14.429	0.030000
414.044	14.482	0.030000
417.377	14.451	0.030000
420.710	14.404	0.030000
424.044	14.388	0.030000
427.480	14.476	0.030000
430.916	14.494	0.030000
434.351	14.525	0.030000
439.211	14.646	0.030000
444.070	14.707	0.030000
448.929	14.645	0.030000
453.058	14.359	0.030000
457.188	14.190	0.030000
461.317	14.134	0.030000
464.875	14.161	0.030000
468.432	14.184	0.030000
471.989	14.330	0.030000
476.034	14.342	0.030000
480.078	14.343	0.030000
484.123	14.369	0.030000
487.456	14.396	0.030000
490.789	14.434	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

494.123	14.336	0.030000
497.873	14.196	0.030000
501.623	13.969	0.030000
505.373	14.053	0.030000
509.123	14.064	0.030000
512.558	14.108	0.030000
515.994	14.017	0.030000
519.430	13.988	0.030000
523.180	14.053	0.030000
526.930	14.191	0.030000
530.680	14.210	0.030000
534.430	14.133	0.030000
538.778	13.978	0.030000
543.126	13.993	0.030000
547.474	13.976	0.030000
552.443	13.941	0.030000
557.412	13.962	0.030000
562.381	13.999	0.030000
567.350	14.028	0.030000
572.319	13.953	0.030000
577.288	14.164	0.030000
582.288	14.151	0.030000
587.288	14.114	0.030000
592.288	14.066	0.030000
596.615	14.040	0.030000
600.942	14.016	0.030000
605.269	14.012	0.030000
609.596	14.027	0.030000
613.923	14.028	0.030000
618.719	14.008	0.030000
623.515	14.094	0.030000
628.312	14.004	0.030000
633.108	13.989	0.030000
637.657	13.954	0.030000
642.206	13.912	0.030000
646.755	13.891	0.030000
651.304	13.825	0.030000
655.853	13.767	0.030000
660.402	13.761	0.030000
664.952	13.793	0.030000
669.501	13.839	0.030000
674.050	13.938	0.030000
678.599	13.932	0.030000
683.028	13.930	0.030000
687.457	13.892	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

690.893	13.880	0.030000
694.329	13.917	0.030000
697.765	13.932	0.030000
701.201	13.949	0.030000
704.637	13.909	0.030000
708.073	13.865	0.030000
712.935	13.876	0.030000
717.797	13.918	0.030000
722.658	13.910	0.030000
727.520	13.934	0.030000
732.382	13.994	0.030000
737.244	13.994	0.030000
742.106	14.013	0.030000
746.968	13.953	0.030000
751.829	13.958	0.030000
756.691	13.932	0.030000
761.553	13.859	0.030000
766.415	13.790	0.030000
771.277	13.712	0.030000
776.139	13.524	0.030000
781.000	13.418	0.030000
785.862	13.382	0.030000
790.724	13.400	0.030000
795.231	13.316	0.030000
799.738	13.469	0.030000
804.658	13.498	0.030000
809.577	13.430	0.030000
814.497	13.434	0.030000
819.416	13.430	0.030000
824.336	13.408	0.030000
829.255	13.398	0.030000
834.175	13.368	0.030000
839.095	13.371	0.030000
844.014	13.338	0.030000
848.934	13.326	0.030000
853.853	13.296	0.030000
858.268	13.257	0.030000
862.682	13.262	0.030000
867.097	13.306	0.030000
871.511	13.443	0.030000
875.879	13.534	0.030000
880.247	13.592	0.030000
884.614	13.531	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XG0121B  
Encroachment: No

Group: G

Station(ft) Elevation(ft) Manning's N

0.000	12.521	0.030000
4.817	12.858	0.030000
9.634	13.180	0.030000
14.452	13.030	0.030000
19.269	13.069	0.030000
24.086	13.275	0.030000
28.527	13.388	0.030000
32.968	13.362	0.030000
37.409	13.118	0.030000
41.850	13.184	0.030000
46.291	13.317	0.030000
50.732	13.404	0.030000
55.173	13.453	0.030000
59.839	13.357	0.030000
64.505	13.243	0.030000
69.171	13.222	0.030000
73.837	13.162	0.030000
78.503	13.102	0.030000
83.169	13.149	0.030000
87.134	13.182	0.030000
91.099	13.797	0.030000
95.064	14.549	0.030000
99.107	14.824	0.030000
103.150	14.435	0.030000
107.193	14.484	0.030000
111.236	14.995	0.030000
115.279	15.358	0.030000
120.174	14.983	0.030000
125.069	14.969	0.030000
129.964	15.498	0.030000
134.860	14.925	0.030000
139.755	15.027	0.030000
144.650	14.791	0.030000
149.546	15.000	0.030000
154.441	14.722	0.030000
159.336	14.784	0.030000
164.231	15.349	0.030000
169.126	15.124	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

174.022	14.951	0.030000
178.917	14.881	0.030000
183.812	14.731	0.030000
188.708	14.584	0.030000
193.603	14.531	0.030000
198.498	14.470	0.030000
203.393	14.361	0.030000
208.289	14.346	0.030000
213.184	14.186	0.030000
218.079	14.169	0.030000
222.974	14.159	0.030000
227.870	14.201	0.030000
232.765	14.192	0.030000
237.660	14.201	0.030000
242.555	14.289	0.030000
247.451	14.337	0.030000
252.346	14.157	0.030000
257.241	13.831	0.030000
262.136	13.721	0.030000
267.032	13.869	0.030000
271.927	14.070	0.030000
276.822	14.198	0.030000
281.717	14.200	0.030000

Name: XG0130B      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.708	0.030000
4.432	14.682	0.030000
8.864	14.682	0.030000
13.297	14.701	0.030000
17.729	14.680	0.030000
22.161	14.618	0.030000
26.593	14.668	0.030000
31.025	14.700	0.030000
35.908	14.629	0.030000
40.792	14.690	0.030000
45.675	14.666	0.030000
50.558	14.646	0.030000
55.441	14.658	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

60.324 14.655 0.030000  
65.207 14.687 0.030000

Name: XG0130C Group: G  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 14.369 0.030000  
4.981 14.374 0.030000  
9.962 14.344 0.030000  
14.944 14.388 0.030000  
19.925 14.402 0.030000  
24.906 14.276 0.030000  
29.887 14.196 0.030000  
34.868 14.181 0.030000  
39.850 14.149 0.030000  
44.831 14.253 0.030000  
49.812 14.481 0.030000  
54.793 14.476 0.030000  
59.491 14.356 0.030000  
64.189 14.383 0.030000  
68.887 14.381 0.030000  
73.585 14.331 0.030000  
78.283 14.427 0.030000  
82.981 14.451 0.030000  
87.679 14.492 0.030000  
92.376 14.450 0.030000  
97.074 14.483 0.030000  
101.772 14.482 0.030000  
106.470 14.498 0.030000  
111.168 14.531 0.030000  
115.866 14.557 0.030000  
120.564 14.515 0.030000  
125.262 14.554 0.030000  
129.960 14.631 0.030000  
134.477 14.649 0.030000  
138.995 14.653 0.030000  
143.512 14.618 0.030000  
148.030 14.664 0.030000  
152.548 14.695 0.030000  
157.065 14.674 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

161.583	14.684	0.030000
166.100	14.697	0.030000
170.618	14.708	0.030000

Name: XG0140B                      Group: G  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	13.531	0.030000
4.608	13.543	0.030000
9.217	13.480	0.030000
13.825	13.438	0.030000
17.552	13.393	0.030000
21.278	13.389	0.030000
25.005	13.422	0.030000
29.505	13.404	0.030000
34.005	13.399	0.030000
38.505	13.524	0.030000
43.005	13.680	0.030000
47.505	13.595	0.030000
51.127	13.588	0.030000
54.749	13.554	0.030000
58.371	13.534	0.030000
62.919	13.454	0.030000
67.468	13.461	0.030000
72.017	13.608	0.030000
76.566	13.655	0.030000
81.115	13.514	0.030000
85.663	13.541	0.030000
90.212	13.480	0.030000
94.700	13.388	0.030000
99.187	13.384	0.030000
104.104	13.471	0.030000
109.021	13.508	0.030000
113.938	13.409	0.030000
118.854	13.751	0.030000
123.771	13.843	0.030000
128.688	13.890	0.030000
133.604	13.898	0.030000
138.521	13.354	0.030000
143.438	13.366	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

148.355	13.363	0.030000
153.271	13.393	0.030000
158.188	13.276	0.030000
163.105	13.324	0.030000
168.021	13.425	0.030000
172.938	13.434	0.030000
177.855	13.510	0.030000
182.772	13.693	0.030000
187.688	13.757	0.030000
192.605	13.806	0.030000
197.522	13.782	0.030000
202.438	13.729	0.030000
207.355	13.911	0.030000
212.272	13.986	0.030000
217.189	13.951	0.030000
222.105	14.049	0.030000
227.022	14.147	0.030000
231.939	14.090	0.030000
236.855	14.037	0.030000
241.772	14.018	0.030000
246.689	14.194	0.030000
251.606	14.213	0.030000
256.522	14.005	0.030000
261.439	13.880	0.030000
266.356	13.964	0.030000
271.272	14.166	0.030000
276.189	14.113	0.030000
281.106	13.976	0.030000
286.022	14.091	0.030000
290.939	14.122	0.030000
295.856	14.021	0.030000
300.231	13.988	0.030000
304.606	13.959	0.030000
308.981	13.927	0.030000
313.356	13.883	0.030000
317.106	13.917	0.030000
320.856	13.972	0.030000
324.606	14.011	0.030000
328.356	13.999	0.030000
332.906	14.097	0.030000
337.456	14.090	0.030000
342.006	14.111	0.030000
346.556	14.167	0.030000
351.415	14.061	0.030000
356.274	14.005	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

361.134	14.063	0.030000
365.606	14.143	0.030000
370.078	14.294	0.030000
374.550	14.376	0.030000
379.022	14.438	0.030000
383.494	14.499	0.030000
388.153	14.539	0.030000
392.811	14.518	0.030000
397.470	14.789	0.030000
402.128	14.888	0.030000
406.787	14.897	0.030000
411.445	14.904	0.030000
416.415	14.952	0.030000
421.385	14.919	0.030000
426.356	14.762	0.030000
431.326	14.609	0.030000
436.296	14.502	0.030000
441.266	14.468	0.030000
446.236	14.499	0.030000
451.206	14.459	0.030000
456.176	14.384	0.030000
461.147	14.450	0.030000
466.117	14.723	0.030000
471.087	15.043	0.030000
476.057	15.119	0.030000
481.027	14.919	0.030000
485.997	14.766	0.030000
490.968	14.770	0.030000
495.938	14.792	0.030000
500.908	14.611	0.030000
505.878	14.443	0.030000
510.848	14.405	0.030000
515.818	14.335	0.030000
520.789	14.514	0.030000
525.759	14.685	0.030000
530.729	15.013	0.030000
535.699	15.034	0.030000
540.669	14.753	0.030000
545.639	14.856	0.030000
550.609	15.094	0.030000
555.580	14.999	0.030000
560.550	14.811	0.030000
565.520	14.722	0.030000
570.490	14.669	0.030000
575.460	14.695	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

580.430	15.014	0.030000
585.400	15.291	0.030000
590.371	15.186	0.030000
595.341	15.106	0.030000
600.311	15.083	0.030000
605.281	15.060	0.030000
610.251	15.056	0.030000
615.221	15.059	0.030000
620.192	14.777	0.030000
625.162	14.663	0.030000
630.132	14.647	0.030000
635.102	14.956	0.030000
640.072	15.003	0.030000
645.042	14.987	0.030000
650.013	14.943	0.030000
654.983	14.873	0.030000
659.953	14.722	0.030000
664.923	14.663	0.030000
669.893	14.689	0.030000
674.863	14.873	0.030000
679.833	14.829	0.030000
684.804	14.781	0.030000
689.774	14.703	0.030000
694.744	14.597	0.030000
699.714	14.711	0.030000
704.684	14.838	0.030000
709.654	15.018	0.030000
714.625	15.193	0.030000
719.595	15.213	0.030000
724.565	15.198	0.030000
729.535	15.192	0.030000
734.505	15.137	0.030000
739.475	15.103	0.030000
744.446	15.084	0.030000
749.416	15.059	0.030000
754.386	15.014	0.030000
759.356	15.019	0.030000
764.326	15.286	0.030000
769.296	15.346	0.030000
774.266	15.417	0.030000
779.237	15.440	0.030000
784.207	15.411	0.030000
789.177	15.042	0.030000
794.147	14.969	0.030000
799.117	14.770	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

804.087	14.793	0.030000
809.058	14.805	0.030000
814.028	14.852	0.030000
818.998	14.853	0.030000
823.968	14.808	0.030000
828.938	15.195	0.030000
833.908	15.153	0.030000
838.879	15.439	0.030000
843.849	15.683	0.030000
848.819	15.695	0.030000
853.789	15.534	0.030000
858.759	15.418	0.030000
863.729	15.398	0.030000
868.699	15.494	0.030000
873.670	15.578	0.030000
878.640	15.445	0.030000
883.610	15.558	0.030000
888.580	15.694	0.030000
893.550	15.715	0.030000
898.520	15.509	0.030000
903.491	15.087	0.030000
908.461	14.943	0.030000
913.431	14.975	0.030000
918.401	14.879	0.030000
923.371	14.731	0.030000
928.341	14.653	0.030000
933.312	14.702	0.030000
938.282	14.712	0.030000
943.252	14.744	0.030000
948.222	15.020	0.030000
953.192	15.161	0.030000
958.162	15.252	0.030000
963.132	15.333	0.030000
968.103	15.495	0.030000
973.073	15.667	0.030000
978.043	15.704	0.030000
983.013	15.659	0.030000
987.983	15.682	0.030000
992.953	15.516	0.030000
997.923	15.413	0.030000
1002.894	15.469	0.030000
1007.864	15.501	0.030000
1012.834	15.484	0.030000
1017.804	15.641	0.030000
1022.774	15.885	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1027.745	15.950	0.030000
1031.078	15.939	0.030000
1034.411	15.891	0.030000
1037.745	15.817	0.030000

-----

Name: XG0150A\_1                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	9.233	0.085000
4.723	8.122	0.085000
9.445	6.890	0.085000
14.168	5.000	0.085000
18.891	5.000	0.085000
23.613	5.000	0.085000
28.336	8.022	0.085000

-----

Name: XG0150A\_2                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	8.995	0.085000
4.799	7.149	0.085000
9.598	5.230	0.085000
14.397	4.978	0.085000
19.195	5.000	0.085000
23.994	5.000	0.085000
28.793	5.000	0.085000
33.592	5.000	0.085000
38.391	5.000	0.085000
43.190	5.000	0.085000
47.989	5.000	0.085000
52.788	5.000	0.085000
57.586	5.274	0.085000
62.385	6.819	0.085000
67.184	8.804	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XG0160A      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	10.648	0.030000
4.835	10.235	0.030000
9.669	10.093	0.030000
14.504	10.025	0.030000
19.339	10.079	0.030000
24.174	10.471	0.030000
29.008	10.495	0.030000
33.843	10.428	0.030000
38.678	10.354	0.030000
43.513	10.242	0.030000
48.347	10.082	0.030000
53.182	9.954	0.030000
58.017	9.926	0.030000
62.851	10.152	0.030000
67.686	10.315	0.030000
72.521	10.245	0.030000
77.356	10.238	0.030000
82.190	10.319	0.030000
86.854	10.328	0.030000
91.518	10.393	0.030000
96.182	10.459	0.030000
100.846	10.500	0.030000
105.510	10.604	0.030000
110.173	10.413	0.030000
114.837	10.484	0.030000
119.694	10.636	0.030000
124.550	10.595	0.030000
129.406	10.526	0.030000
134.262	10.525	0.030000
139.119	10.523	0.030000
143.975	10.526	0.030000
148.832	10.454	0.030000
153.688	10.456	0.030000
158.544	10.424	0.030000
163.401	10.335	0.030000
168.257	10.280	0.030000
173.113	10.226	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

177.970	10.204	0.030000
182.826	10.246	0.030000
187.682	10.299	0.030000
192.539	10.216	0.030000
197.395	10.123	0.030000
202.251	10.300	0.030000
207.108	10.382	0.030000
211.964	10.439	0.030000
216.820	10.270	0.030000
221.677	10.047	0.030000
226.533	10.088	0.030000
231.390	10.219	0.030000
236.246	10.636	0.030000
241.102	10.690	0.030000
245.958	10.412	0.030000
250.815	10.162	0.030000
255.671	10.306	0.030000
260.527	10.369	0.030000
265.384	10.625	0.030000
270.240	10.630	0.030000
275.165	10.604	0.030000
280.090	10.547	0.030000
285.015	10.626	0.030000
289.940	10.511	0.030000
294.865	10.499	0.030000
299.790	10.558	0.030000
304.715	10.656	0.030000
309.640	10.787	0.030000
314.600	10.948	0.030000
319.560	10.746	0.030000
324.519	10.672	0.030000
329.479	10.653	0.030000
334.439	10.663	0.030000
339.399	10.590	0.030000
344.359	10.655	0.030000
349.319	10.729	0.030000
354.279	10.692	0.030000
359.238	10.774	0.030000
364.198	10.779	0.030000
369.158	10.750	0.030000
374.118	10.741	0.030000
379.078	10.766	0.030000
384.038	10.640	0.030000
388.998	10.498	0.030000
393.957	10.461	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

398.917	10.375	0.030000
403.877	10.354	0.030000
408.837	10.293	0.030000
413.797	10.337	0.030000
418.757	10.215	0.030000
423.717	10.427	0.030000
428.676	10.528	0.030000
433.636	10.552	0.030000
438.596	10.634	0.030000
443.556	10.644	0.030000
448.516	10.643	0.030000
453.476	10.777	0.030000
458.436	10.650	0.030000
463.395	10.351	0.030000
468.355	10.281	0.030000
473.315	10.227	0.030000
478.275	10.328	0.030000
483.235	10.413	0.030000
488.195	10.350	0.030000
493.155	10.337	0.030000
498.114	10.487	0.030000
503.074	10.258	0.030000
508.034	10.287	0.030000
512.994	10.695	0.030000
517.921	10.615	0.030000
522.849	10.518	0.030000
527.776	10.622	0.030000
532.704	10.230	0.030000
537.631	9.728	0.030000
542.558	9.674	0.030000
547.486	9.672	0.030000
552.413	9.617	0.030000
557.341	9.628	0.030000
562.268	9.666	0.030000
567.195	9.470	0.030000
572.123	9.630	0.030000
577.050	9.894	0.030000
581.978	9.817	0.030000
586.905	9.863	0.030000
591.832	9.767	0.030000
596.760	9.618	0.030000
601.687	9.514	0.030000
606.615	9.367	0.030000
611.542	9.515	0.030000
616.470	9.591	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

621.397	9.811	0.030000
626.324	9.879	0.030000
631.252	9.887	0.030000
636.179	10.006	0.030000
641.106	9.851	0.030000
646.034	9.864	0.030000
650.961	9.847	0.030000
655.889	9.801	0.030000
660.816	9.971	0.030000
665.744	10.070	0.030000
670.671	10.250	0.030000
675.598	10.400	0.030000
680.526	10.552	0.030000
685.453	10.635	0.030000
690.380	10.413	0.030000
695.308	10.364	0.030000
700.235	10.168	0.030000
705.163	10.573	0.030000
710.090	10.581	0.030000
715.018	10.806	0.030000
719.945	11.183	0.030000
724.872	11.529	0.030000
729.800	11.879	0.030000
734.727	11.902	0.030000

Name: XG0170B      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	7.978	0.030000
3.337	7.938	0.030000
6.675	7.971	0.030000
10.012	7.884	0.030000
14.184	7.799	0.030000
18.356	7.839	0.030000
22.528	7.744	0.030000
26.700	7.780	0.030000
30.744	7.590	0.030000
34.789	7.602	0.030000
38.834	7.659	0.030000
43.711	7.711	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

48.587	7.644	0.030000
53.464	7.586	0.030000
58.341	7.582	0.030000
62.689	7.566	0.030000
67.037	7.611	0.030000
71.385	7.730	0.030000
75.634	7.599	0.030000
79.883	7.500	0.030000
84.133	7.602	0.030000
88.382	7.543	0.030000
92.631	7.543	0.030000
96.880	7.604	0.030000
101.068	7.646	0.030000
105.255	7.663	0.030000
109.443	7.644	0.030000
113.630	7.737	0.030000
117.817	7.688	0.030000
122.005	7.668	0.030000
125.338	7.721	0.030000
128.672	7.718	0.030000
132.005	7.746	0.030000
135.441	7.830	0.030000
138.877	7.854	0.030000
142.313	7.949	0.030000
145.749	8.008	0.030000
149.185	7.997	0.030000
152.620	8.014	0.030000
155.954	8.046	0.030000
159.287	8.041	0.030000
162.620	8.043	0.030000
166.101	8.129	0.030000
169.581	8.336	0.030000
173.061	8.276	0.030000

-----

Name: XG0171A\_1                      Group: G  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	4.955	0.085000
4.733	4.387	0.085000
9.465	3.818	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

14.198	3.093	0.085000
18.931	2.368	0.085000
23.663	1.874	0.085000
28.396	1.472	0.085000
33.129	1.267	0.085000
37.861	1.113	0.085000
42.594	1.177	0.085000
47.327	1.893	0.085000
52.059	2.681	0.085000
56.792	3.494	0.085000
61.525	4.288	0.085000
66.257	5.104	0.085000

-----

Name: XG0172A_2	Group: G
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	4.887	0.085000
4.977	4.416	0.085000
9.953	4.110	0.085000
14.930	3.858	0.085000
19.907	3.480	0.085000
24.883	2.862	0.085000
29.860	2.099	0.085000
34.837	1.783	0.085000
39.813	1.325	0.085000
44.790	1.115	0.085000
49.767	0.905	0.085000
54.743	0.723	0.085000
59.720	0.587	0.085000
64.697	0.402	0.085000
69.674	0.418	0.085000
74.650	0.488	0.085000
79.627	0.432	0.085000
84.603	0.576	0.085000
89.580	0.690	0.085000
94.557	0.863	0.085000
99.534	1.138	0.085000
104.510	1.021	0.085000
109.487	0.682	0.085000
114.464	0.344	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

119.440	0.016	0.085000
124.417	0.352	0.085000
129.394	1.230	0.085000
134.370	3.250	0.085000
139.347	4.090	0.085000
144.324	4.858	0.085000

Name: XH0010B                      Group: H  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.986	0.030000
4.960	14.772	0.030000
9.920	14.790	0.030000
14.880	14.759	0.030000
19.840	15.119	0.030000
24.800	15.279	0.030000
29.760	14.896	0.030000
34.720	14.982	0.030000
39.680	14.839	0.030000
44.640	14.641	0.030000
49.599	14.642	0.030000
54.560	14.480	0.030000
59.519	14.444	0.030000
64.479	14.527	0.030000
69.439	14.569	0.030000
74.399	14.602	0.030000
79.359	14.658	0.030000
84.319	14.602	0.030000
89.279	14.567	0.030000
94.239	14.483	0.030000
99.199	14.514	0.030000
104.159	14.855	0.030000
109.119	14.795	0.030000
114.079	14.850	0.030000
119.039	15.035	0.030000
123.999	15.222	0.030000
128.959	15.240	0.030000
133.919	15.353	0.030000
138.879	15.343	0.030000
143.839	15.404	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

148.799	15.504	0.030000
153.759	15.507	0.030000
158.719	15.515	0.030000
163.679	15.576	0.030000
168.638	15.575	0.030000
173.598	15.496	0.030000
178.558	15.539	0.030000
183.518	15.562	0.030000
188.478	15.499	0.030000
193.438	15.514	0.030000
198.398	15.590	0.030000
203.358	15.532	0.030000
208.318	15.396	0.030000
213.278	15.375	0.030000
218.238	15.279	0.030000
223.198	15.050	0.030000
228.158	14.776	0.030000
233.118	13.567	0.030000
238.078	12.485	0.030000
243.038	12.527	0.030000
247.998	11.204	0.030000
252.958	12.711	0.030000
257.918	13.134	0.030000
262.878	13.163	0.030000
267.837	14.121	0.030000
272.798	14.819	0.030000
277.757	15.116	0.030000
282.717	15.166	0.030000
287.677	15.308	0.030000
292.637	15.347	0.030000
297.597	15.394	0.030000
302.557	15.382	0.030000
307.517	15.377	0.030000
312.477	15.377	0.030000
317.437	15.344	0.030000
322.397	15.314	0.030000
327.357	15.280	0.030000
332.317	15.230	0.030000
337.277	15.209	0.030000
342.237	15.190	0.030000
347.197	15.078	0.030000
352.157	15.055	0.030000
357.117	14.939	0.030000
362.077	14.905	0.030000
367.037	14.834	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

371.997	14.765	0.030000
376.957	14.594	0.030000
381.916	14.440	0.030000
386.876	14.416	0.030000
391.836	14.569	0.030000
396.796	14.618	0.030000
401.756	14.503	0.030000
406.716	14.567	0.030000
411.676	14.495	0.030000
416.636	14.440	0.030000
421.596	14.481	0.030000
426.556	14.696	0.030000
431.516	14.844	0.030000
436.476	14.885	0.030000
441.436	15.034	0.030000
446.396	15.162	0.030000
451.356	15.232	0.030000
456.316	15.318	0.030000
461.276	15.412	0.030000
466.236	15.460	0.030000
471.196	15.534	0.030000
476.142	15.251	0.030000
481.088	14.799	0.030000
486.035	14.408	0.030000
490.981	14.119	0.030000
495.928	14.358	0.030000
500.874	14.704	0.030000
505.820	14.692	0.030000
510.767	14.386	0.030000
515.713	14.019	0.030000
520.660	13.946	0.030000
525.606	14.062	0.030000
530.552	14.230	0.030000
535.499	14.355	0.030000
540.445	14.361	0.030000
545.391	14.345	0.030000
550.338	14.335	0.030000
555.284	14.324	0.030000
560.231	14.340	0.030000
565.177	14.403	0.030000
570.124	14.436	0.030000
575.070	14.451	0.030000
580.016	14.464	0.030000
584.963	14.413	0.030000
589.909	14.413	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

594.856	14.524	0.030000
599.802	14.435	0.030000
604.748	14.486	0.030000
609.695	14.500	0.030000
614.641	14.593	0.030000
619.587	14.645	0.030000
624.534	14.608	0.030000
629.480	14.565	0.030000
634.427	14.522	0.030000
639.373	14.482	0.030000
644.319	14.402	0.030000
649.266	14.243	0.030000
654.212	14.285	0.030000
659.159	14.519	0.030000
664.105	14.703	0.030000
669.051	14.737	0.030000
673.998	14.662	0.030000
678.944	14.647	0.030000
683.891	14.662	0.030000
688.837	14.625	0.030000
693.783	14.568	0.030000
698.730	14.466	0.030000
703.676	14.368	0.030000
708.622	14.295	0.030000
713.569	14.228	0.030000
718.515	14.242	0.030000
723.462	14.389	0.030000
728.408	14.604	0.030000
733.355	14.592	0.030000

Name: XH0010C      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.467	0.030000
4.960	16.419	0.030000
9.920	16.183	0.030000
14.881	16.119	0.030000
19.841	15.932	0.030000
24.801	15.887	0.030000
29.761	15.775	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

34.721	15.669	0.030000
39.682	15.651	0.030000
44.642	15.602	0.030000
49.602	15.415	0.030000
54.562	15.410	0.030000
59.523	15.551	0.030000
64.483	15.700	0.030000
69.443	15.694	0.030000
74.403	14.839	0.030000
79.363	14.250	0.030000
84.324	14.272	0.030000
89.284	14.410	0.030000
94.244	14.527	0.030000
99.204	14.629	0.030000
104.164	14.728	0.030000
109.125	14.718	0.030000
114.085	14.516	0.030000
119.045	14.393	0.030000
124.005	14.444	0.030000
128.965	14.498	0.030000
133.926	14.193	0.030000
138.886	14.074	0.030000
143.846	14.169	0.030000
148.806	14.245	0.030000
153.767	14.342	0.030000
158.727	14.493	0.030000
163.687	14.641	0.030000
168.647	14.720	0.030000
173.607	14.563	0.030000
178.568	14.214	0.030000
183.528	14.361	0.030000
188.488	14.662	0.030000
193.448	14.625	0.030000
198.408	14.560	0.030000
203.369	14.569	0.030000
208.329	14.553	0.030000
213.289	14.492	0.030000
218.249	14.377	0.030000
223.209	14.525	0.030000
228.170	14.732	0.030000
233.130	14.815	0.030000
238.090	14.849	0.030000
243.050	14.823	0.030000
248.011	14.676	0.030000
252.971	14.475	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

257.931	14.467	0.030000
262.891	14.580	0.030000
267.851	14.658	0.030000
272.812	14.698	0.030000
277.772	14.663	0.030000
282.732	14.570	0.030000
287.692	14.469	0.030000
292.652	14.300	0.030000
297.613	14.117	0.030000
302.573	14.220	0.030000
307.533	14.806	0.030000
312.493	15.354	0.030000
317.453	15.633	0.030000
322.414	15.838	0.030000
327.374	15.962	0.030000
332.334	16.007	0.030000
337.294	16.035	0.030000
342.125	15.993	0.030000
346.955	15.717	0.030000
351.786	15.127	0.030000
356.617	14.579	0.030000
361.447	14.497	0.030000
366.278	14.339	0.030000
371.109	14.146	0.030000
375.939	14.030	0.030000
380.770	13.938	0.030000
385.601	13.920	0.030000
390.431	13.915	0.030000
395.262	13.908	0.030000
400.092	13.549	0.030000
404.923	13.461	0.030000
409.754	13.478	0.030000
414.584	13.460	0.030000
419.415	13.455	0.030000
424.245	13.625	0.030000
429.076	13.940	0.030000
433.907	14.157	0.030000
438.737	14.193	0.030000
443.506	13.938	0.030000
448.276	13.572	0.030000
453.045	13.403	0.030000
457.814	13.409	0.030000
462.583	13.453	0.030000
467.352	13.504	0.030000
472.121	13.464	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

476.890	13.275	0.030000
481.659	13.341	0.030000
486.428	13.522	0.030000
491.197	13.675	0.030000
495.966	13.759	0.030000
500.736	13.812	0.030000
505.699	13.807	0.030000
510.662	13.832	0.030000
515.625	13.842	0.030000
520.588	13.620	0.030000
525.551	13.434	0.030000
530.514	13.491	0.030000
535.478	13.425	0.030000
540.441	13.458	0.030000
545.404	13.549	0.030000
549.800	13.563	0.030000
554.197	13.634	0.030000
558.593	13.600	0.030000
562.990	13.525	0.030000
567.386	13.893	0.030000
571.783	13.919	0.030000
576.179	13.866	0.030000
581.105	13.711	0.030000
586.031	13.608	0.030000
590.957	13.322	0.030000
595.883	13.167	0.030000
600.809	13.148	0.030000
605.735	13.280	0.030000
610.662	13.452	0.030000
615.588	13.607	0.030000
620.514	13.762	0.030000
625.440	13.868	0.030000
630.366	13.917	0.030000
635.292	13.907	0.030000
640.218	13.845	0.030000
645.144	13.806	0.030000
650.070	13.787	0.030000
654.996	13.771	0.030000
659.922	13.780	0.030000
664.848	13.711	0.030000
669.774	13.741	0.030000
674.701	13.848	0.030000
679.627	13.757	0.030000
684.553	13.730	0.030000
689.479	13.742	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

694.405	13.772	0.030000
699.331	13.696	0.030000
704.257	13.650	0.030000
709.183	13.632	0.030000
714.109	13.513	0.030000
719.035	13.434	0.030000
723.961	13.370	0.030000
728.887	13.337	0.030000
733.813	13.269	0.030000
738.740	13.257	0.030000
743.666	13.407	0.030000
748.592	13.442	0.030000
753.518	13.609	0.030000
758.444	13.796	0.030000
763.370	14.117	0.030000
768.296	14.474	0.030000
773.222	13.990	0.030000
778.148	13.395	0.030000
783.074	13.281	0.030000
788.000	13.247	0.030000
792.926	13.109	0.030000
797.852	13.081	0.030000
802.779	13.059	0.030000
807.705	13.184	0.030000
812.631	13.476	0.030000
817.557	13.663	0.030000
822.483	13.457	0.030000
827.409	13.591	0.030000
832.335	13.381	0.030000
837.261	13.366	0.030000
842.187	13.339	0.030000
847.113	13.334	0.030000

-----

Name: XH0010D	Group: H
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	14.592	0.030000
4.806	14.559	0.030000
9.613	14.514	0.030000
14.419	14.477	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

19.226	14.498	0.030000
23.270	14.472	0.030000
27.315	14.409	0.030000
31.359	14.339	0.030000
35.404	14.293	0.030000
39.448	14.302	0.030000
43.493	14.453	0.030000
48.493	14.682	0.030000
53.493	14.671	0.030000
57.493	14.713	0.030000
61.493	14.717	0.030000
65.493	14.599	0.030000
69.493	14.522	0.030000
73.493	14.536	0.030000
78.020	14.606	0.030000
82.548	14.627	0.030000
87.076	14.729	0.030000
91.603	14.994	0.030000
96.131	15.136	0.030000
100.254	14.971	0.030000
104.377	14.818	0.030000
108.501	14.726	0.030000
112.624	14.722	0.030000
116.747	14.865	0.030000
121.254	14.782	0.030000
125.761	14.821	0.030000
129.562	14.761	0.030000
133.364	14.675	0.030000
137.166	14.607	0.030000
140.968	14.577	0.030000
145.012	14.576	0.030000
149.057	14.492	0.030000
153.101	14.708	0.030000
157.146	14.741	0.030000
161.190	14.641	0.030000
165.235	14.742	0.030000
169.279	14.718	0.030000
173.324	14.478	0.030000
177.368	14.473	0.030000
181.413	14.485	0.030000
185.457	14.550	0.030000
189.502	14.547	0.030000
192.938	14.613	0.030000
196.373	14.762	0.030000
199.809	14.840	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

203.559	14.799	0.030000
207.309	14.618	0.030000
211.059	14.537	0.030000
214.809	14.489	0.030000
219.095	14.427	0.030000
223.381	14.422	0.030000
227.667	14.712	0.030000
231.952	15.150	0.030000
236.238	15.078	0.030000
240.524	15.071	0.030000
244.809	15.062	0.030000
248.143	15.081	0.030000
251.476	15.237	0.030000
254.809	15.274	0.030000
258.933	15.278	0.030000
263.056	15.286	0.030000
267.179	15.299	0.030000
271.302	15.316	0.030000
275.425	15.329	0.030000
279.378	15.307	0.030000
283.331	15.292	0.030000
287.283	15.285	0.030000
291.236	15.286	0.030000
295.683	15.299	0.030000
300.130	15.311	0.030000
304.576	15.322	0.030000
309.023	15.329	0.030000
313.469	15.318	0.030000
317.916	15.279	0.030000
322.885	15.284	0.030000
327.854	15.255	0.030000
332.823	15.329	0.030000
336.380	15.259	0.030000
339.938	15.208	0.030000
343.495	15.215	0.030000
347.052	15.172	0.030000
350.610	15.167	0.030000
354.167	15.179	0.030000
357.724	15.168	0.030000
361.281	15.184	0.030000
364.839	15.223	0.030000
368.883	15.223	0.030000
372.928	15.214	0.030000
376.972	15.204	0.030000
380.305	15.218	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

383.639	15.225	0.030000
386.972	15.209	0.030000
391.356	15.210	0.030000
395.741	15.201	0.030000
400.125	15.182	0.030000
404.510	15.158	0.030000
408.894	15.133	0.030000
412.451	15.113	0.030000
416.008	15.102	0.030000
419.566	15.095	0.030000
423.914	15.094	0.030000
428.262	15.106	0.030000
432.609	15.124	0.030000
436.562	15.117	0.030000
440.515	15.111	0.030000
444.468	15.076	0.030000
448.421	15.036	0.030000
452.840	15.031	0.030000
457.260	14.998	0.030000
461.679	14.913	0.030000
466.099	14.958	0.030000
470.586	14.964	0.030000
475.074	15.179	0.030000
479.561	15.254	0.030000
483.363	15.400	0.030000
487.165	15.467	0.030000
490.967	15.503	0.030000
494.768	15.559	0.030000
499.512	15.462	0.030000
504.255	15.342	0.030000
508.998	15.261	0.030000
513.742	15.260	0.030000
518.485	15.166	0.030000
522.860	14.920	0.030000
527.235	14.980	0.030000
531.610	14.950	0.030000
535.985	14.898	0.030000
540.360	14.934	0.030000
544.735	15.034	0.030000
549.110	15.076	0.030000
553.485	15.048	0.030000
558.236	15.125	0.030000
562.987	15.093	0.030000
567.737	15.116	0.030000
572.488	15.071	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

577.239	14.955	0.030000
581.990	14.916	0.030000
585.792	14.853	0.030000
589.593	14.832	0.030000
593.395	15.070	0.030000
597.197	14.977	0.030000
602.197	15.036	0.030000
607.197	14.994	0.030000
610.633	14.991	0.030000
614.068	15.059	0.030000
617.504	15.066	0.030000
622.163	14.978	0.030000
626.821	14.989	0.030000
631.480	15.062	0.030000
636.138	15.035	0.030000
640.797	15.188	0.030000
645.455	15.380	0.030000
650.186	15.375	0.030000
654.916	15.585	0.030000
659.646	15.739	0.030000
664.249	15.383	0.030000
668.851	15.100	0.030000
673.453	14.778	0.030000
678.055	14.483	0.030000
682.658	14.356	0.030000
687.260	14.260	0.030000
691.862	14.242	0.030000
696.464	14.165	0.030000
699.900	14.058	0.030000
703.336	13.987	0.030000
706.772	13.916	0.030000
711.187	13.786	0.030000
715.601	13.729	0.030000
720.016	13.788	0.030000
724.430	13.771	0.030000
728.778	13.727	0.030000
733.126	13.709	0.030000
737.474	13.695	0.030000
741.373	13.660	0.030000
745.271	13.667	0.030000
749.170	13.689	0.030000
753.176	13.592	0.030000
757.183	13.599	0.030000
761.189	13.630	0.030000
765.603	13.610	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

770.018	13.457	0.030000
774.432	13.384	0.030000
778.847	13.310	0.030000
783.293	13.239	0.030000
787.740	13.184	0.030000
792.187	13.161	0.030000
796.633	13.175	0.030000
801.080	13.210	0.030000
805.526	13.270	0.030000
809.656	13.386	0.030000
813.785	13.601	0.030000
817.915	13.772	0.030000
822.402	13.950	0.030000
826.890	13.954	0.030000
831.378	14.001	0.030000
835.179	14.133	0.030000
838.981	13.997	0.030000
842.783	14.183	0.030000
846.585	14.247	0.030000
851.585	14.189	0.030000
856.585	14.120	0.030000
860.020	14.054	0.030000
863.456	14.038	0.030000
866.892	13.862	0.030000
870.937	13.774	0.030000
874.981	13.626	0.030000
879.026	13.523	0.030000
883.302	13.363	0.030000
887.578	13.296	0.030000
891.854	13.334	0.030000

-----

Name: XH0011A_1	Group: H
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	13.275	0.085000
4.966	12.802	0.085000
9.931	10.006	0.085000
14.897	8.609	0.085000
19.862	7.463	0.085000
24.828	7.594	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

29.793 9.527 0.085000  
34.759 11.450 0.085000

Name: XH0011A\_2 Group: H  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 8.400 0.085000  
4.727 7.246 0.085000  
9.455 8.218 0.085000  
14.182 7.825 0.085000  
18.909 9.714 0.085000

Name: XH0020A Group: H  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 14.127 0.030000  
4.249 14.103 0.030000  
8.498 14.157 0.030000  
12.748 14.245 0.030000  
17.404 14.072 0.030000  
22.061 14.097 0.030000  
26.717 13.963 0.030000  
31.374 13.998 0.030000  
36.030 14.016 0.030000  
40.687 14.035 0.030000  
45.344 14.050 0.030000  
48.677 14.049 0.030000  
52.010 14.133 0.030000  
55.344 14.108 0.030000  
60.120 14.065 0.030000  
64.896 14.015 0.030000  
69.672 14.012 0.030000  
74.448 13.923 0.030000  
78.119 14.004 0.030000  
81.789 14.090 0.030000



Long Branch BMP Model Results  
Input Data Report Summary

85.460	14.134	0.030000
90.009	14.094	0.030000
94.559	14.026	0.030000
99.109	14.002	0.030000
103.658	13.896	0.030000
108.208	13.743	0.030000
112.757	13.804	0.030000
117.245	13.749	0.030000
121.732	13.704	0.030000
126.220	13.623	0.030000
130.708	13.515	0.030000
135.195	13.406	0.030000
139.482	13.313	0.030000
143.768	13.230	0.030000
148.054	13.175	0.030000
152.340	13.111	0.030000
156.627	13.177	0.030000
160.913	13.299	0.030000
165.200	13.334	0.030000

Name: XH0020B      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.905	0.030000
3.994	13.940	0.030000
7.988	13.968	0.030000
11.982	14.022	0.030000
15.977	14.118	0.030000
20.406	14.156	0.030000
24.835	14.174	0.030000
29.264	14.252	0.030000
33.694	14.238	0.030000
37.943	14.063	0.030000
42.192	14.051	0.030000
46.441	14.077	0.030000
50.025	14.133	0.030000
53.610	14.189	0.030000
57.194	14.245	0.030000
61.363	14.195	0.030000
65.532	14.146	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

69.702	14.096	0.030000
73.871	14.050	0.030000
78.290	13.987	0.030000
82.710	13.892	0.030000
87.129	13.767	0.030000
91.549	13.609	0.030000
95.968	13.787	0.030000
100.388	13.946	0.030000
104.807	14.061	0.030000
109.226	14.141	0.030000
113.714	14.219	0.030000
118.202	14.305	0.030000
122.689	14.362	0.030000
126.311	14.389	0.030000
129.933	14.384	0.030000
133.555	14.406	0.030000
137.903	14.363	0.030000
142.250	14.342	0.030000
146.598	14.318	0.030000
150.325	14.312	0.030000
154.052	14.334	0.030000
157.779	14.421	0.030000
161.215	14.520	0.030000
164.650	14.617	0.030000
168.086	14.664	0.030000
172.372	14.575	0.030000
176.658	14.390	0.030000
180.944	14.312	0.030000
185.229	14.549	0.030000
189.515	14.635	0.030000
193.801	14.686	0.030000
198.086	14.741	0.030000
202.963	14.726	0.030000
207.840	14.794	0.030000
212.717	14.874	0.030000
217.594	14.842	0.030000
221.493	14.852	0.030000
225.392	15.025	0.030000
229.291	15.051	0.030000
233.791	14.995	0.030000
238.291	14.978	0.030000
242.791	14.969	0.030000
247.291	14.856	0.030000
251.791	14.790	0.030000
256.654	14.429	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

261.517	13.887	0.030000
266.380	13.843	0.030000
271.243	13.931	0.030000
276.106	14.071	0.030000
280.969	14.019	0.030000
285.814	14.166	0.030000
290.659	14.354	0.030000
295.504	14.492	0.030000
300.349	14.567	0.030000
304.594	14.476	0.030000
308.840	14.414	0.030000
313.085	14.428	0.030000
318.054	14.538	0.030000
323.023	14.816	0.030000
327.992	14.936	0.030000
332.651	14.629	0.030000
337.309	14.440	0.030000
341.968	14.353	0.030000
346.626	14.220	0.030000
351.133	14.058	0.030000
355.640	13.890	0.030000
360.147	13.762	0.030000
364.654	13.665	0.030000
369.161	13.876	0.030000
373.668	14.010	0.030000
378.175	14.134	0.030000
382.682	14.249	0.030000
387.189	14.328	0.030000
391.695	14.391	0.030000
395.594	14.422	0.030000
399.493	14.414	0.030000
403.392	14.410	0.030000
407.436	14.397	0.030000
411.481	14.379	0.030000
415.525	14.398	0.030000
420.013	14.402	0.030000
424.501	14.364	0.030000
428.988	14.175	0.030000
432.524	13.989	0.030000
436.059	13.894	0.030000
439.595	13.841	0.030000
443.767	13.739	0.030000
447.939	13.702	0.030000
452.111	13.631	0.030000
456.282	13.326	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

461.081	13.211	0.030000
465.880	13.276	0.030000
470.679	13.272	0.030000
475.478	13.281	0.030000
480.277	13.393	0.030000
485.076	13.780	0.030000
489.875	14.145	0.030000
494.047	14.270	0.030000
498.219	14.378	0.030000
502.391	14.494	0.030000
506.563	14.695	0.030000
510.992	14.876	0.030000
515.421	14.987	0.030000
519.452	14.952	0.030000
523.483	14.909	0.030000
527.515	14.827	0.030000
531.546	14.759	0.030000
535.577	14.705	0.030000
540.030	14.672	0.030000
544.483	14.523	0.030000
548.936	14.376	0.030000
553.389	14.233	0.030000
557.842	14.092	0.030000
562.295	14.183	0.030000
566.749	14.489	0.030000
571.202	14.699	0.030000
575.655	14.823	0.030000
579.457	14.916	0.030000
583.258	15.009	0.030000
587.060	15.101	0.030000
590.862	15.133	0.030000
594.862	15.136	0.030000
598.862	15.138	0.030000
602.862	15.141	0.030000
606.862	15.144	0.030000
610.862	15.186	0.030000
614.893	15.108	0.030000
618.924	14.917	0.030000
622.955	14.836	0.030000
626.986	14.865	0.030000
631.017	14.896	0.030000
635.464	14.848	0.030000
639.911	14.770	0.030000
644.357	14.764	0.030000
648.804	14.787	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

653.250	14.873	0.030000
657.697	15.076	0.030000
662.001	15.190	0.030000
666.306	15.308	0.030000
670.610	15.439	0.030000
674.915	15.559	0.030000
679.219	15.664	0.030000
683.524	15.765	0.030000
687.300	15.766	0.030000
691.076	15.476	0.030000
694.851	15.298	0.030000
698.628	15.294	0.030000
703.115	15.262	0.030000
707.603	15.257	0.030000
712.090	15.272	0.030000
716.640	15.252	0.030000
721.191	15.234	0.030000
725.741	15.238	0.030000
730.291	15.258	0.030000
734.798	15.197	0.030000
739.304	15.149	0.030000
743.724	15.136	0.030000
748.143	15.158	0.030000
752.563	15.263	0.030000
756.982	15.277	0.030000
760.784	15.250	0.030000
764.586	15.188	0.030000
768.387	15.110	0.030000
772.189	15.198	0.030000
776.438	15.083	0.030000
780.688	14.874	0.030000
784.937	14.765	0.030000
788.270	14.752	0.030000
791.603	14.692	0.030000
794.937	14.647	0.030000
798.687	14.691	0.030000
802.437	14.611	0.030000
806.187	14.641	0.030000
809.937	14.596	0.030000
814.595	14.573	0.030000
819.254	14.512	0.030000
823.912	14.485	0.030000
827.754	14.584	0.030000
831.595	14.520	0.030000
835.437	14.483	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

839.603	14.360	0.030000
843.770	14.212	0.030000
847.937	14.063	0.030000
852.103	13.959	0.030000
856.270	13.607	0.030000
860.437	13.399	0.030000
865.437	13.517	0.030000
870.437	13.609	0.030000
875.437	13.736	0.030000
880.437	13.826	0.030000
885.437	13.737	0.030000
887.937	13.624	0.030000
890.437	13.783	0.030000
895.437	14.039	0.030000
897.937	14.136	0.030000
900.437	14.127	0.030000

Name: XH0020C                      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.789	0.030000
4.337	14.731	0.030000
8.673	14.496	0.030000
13.010	14.395	0.030000
17.346	14.312	0.030000
21.683	14.325	0.030000
25.410	14.354	0.030000
29.136	14.312	0.030000
32.863	14.217	0.030000
37.051	14.103	0.030000
41.238	14.202	0.030000
45.425	14.424	0.030000
49.613	14.480	0.030000
53.800	14.544	0.030000
57.988	14.511	0.030000
62.841	14.523	0.030000
67.695	14.511	0.030000
72.548	14.697	0.030000
77.401	14.989	0.030000
82.255	15.285	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

86.699	15.514	0.030000
91.144	15.711	0.030000
95.588	15.743	0.030000
99.766	15.680	0.030000
103.945	15.639	0.030000
108.123	15.643	0.030000
112.301	15.611	0.030000
116.479	15.617	0.030000
120.657	15.666	0.030000
124.781	15.598	0.030000
128.904	15.548	0.030000
133.027	15.494	0.030000
137.150	15.494	0.030000
141.273	15.567	0.030000
146.273	15.639	0.030000
151.273	15.587	0.030000
155.648	15.525	0.030000
160.023	15.572	0.030000
164.398	15.687	0.030000
168.773	15.855	0.030000
173.431	15.477	0.030000
178.090	15.209	0.030000
182.748	15.117	0.030000
187.407	15.093	0.030000
192.065	15.086	0.030000
196.724	15.101	0.030000
201.110	15.116	0.030000
205.496	15.094	0.030000
209.882	15.021	0.030000
214.268	14.940	0.030000
218.655	14.922	0.030000
223.041	14.945	0.030000
227.427	14.968	0.030000
231.813	14.984	0.030000
235.615	14.949	0.030000
239.416	14.871	0.030000
243.218	14.789	0.030000
247.020	14.710	0.030000
251.548	14.591	0.030000
256.075	14.453	0.030000
260.603	14.330	0.030000
265.131	14.275	0.030000
269.658	14.377	0.030000
274.268	14.413	0.030000
278.878	14.465	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

283.488	14.510	0.030000
288.097	14.476	0.030000
292.707	14.489	0.030000
297.317	14.501	0.030000
301.927	14.448	0.030000
306.536	14.598	0.030000
311.146	14.619	0.030000
315.756	14.717	0.030000
320.244	14.760	0.030000
324.731	14.802	0.030000
329.219	14.795	0.030000
332.655	14.737	0.030000
336.091	14.515	0.030000
339.527	14.359	0.030000
343.995	14.263	0.030000
348.462	14.285	0.030000
352.930	14.370	0.030000
357.398	14.444	0.030000
361.866	14.501	0.030000
366.334	14.574	0.030000
370.802	14.620	0.030000
375.232	14.680	0.030000
379.662	14.722	0.030000
384.092	14.741	0.030000
388.522	14.772	0.030000
392.952	14.818	0.030000
396.905	14.830	0.030000
400.858	14.840	0.030000
404.810	14.848	0.030000
408.763	14.880	0.030000
413.183	14.913	0.030000
417.602	14.937	0.030000
422.021	14.940	0.030000
426.441	14.925	0.030000
430.870	14.765	0.030000
435.299	14.564	0.030000
438.921	14.388	0.030000
442.543	14.245	0.030000
446.165	14.213	0.030000
450.652	13.968	0.030000
455.140	13.723	0.030000
459.628	13.638	0.030000
463.751	13.797	0.030000
467.874	14.009	0.030000
471.997	13.953	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

476.120	13.941	0.030000
480.243	13.929	0.030000
484.750	13.886	0.030000
489.257	13.752	0.030000
493.087	13.620	0.030000
496.917	13.521	0.030000
500.747	13.488	0.030000
504.578	13.568	0.030000
508.707	13.672	0.030000
512.837	13.774	0.030000
516.966	13.590	0.030000
521.314	13.531	0.030000
525.662	13.690	0.030000
530.010	13.776	0.030000
534.861	13.895	0.030000
539.712	14.189	0.030000
544.563	14.547	0.030000
549.414	15.011	0.030000
554.266	15.313	0.030000
559.117	15.329	0.030000
562.450	15.386	0.030000
565.784	15.428	0.030000
569.117	15.438	0.030000
573.117	15.450	0.030000
577.117	15.442	0.030000
581.117	15.424	0.030000
585.117	15.411	0.030000
589.117	15.398	0.030000
592.450	15.380	0.030000
595.784	15.410	0.030000
599.117	15.359	0.030000
602.553	15.361	0.030000
605.989	15.377	0.030000
609.425	15.404	0.030000
613.151	15.369	0.030000
616.878	15.350	0.030000
620.605	15.391	0.030000
625.507	15.335	0.030000
630.409	15.330	0.030000
635.310	15.343	0.030000
638.664	15.239	0.030000
642.019	15.117	0.030000
645.373	14.964	0.030000
650.073	14.761	0.030000
654.773	14.334	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

659.473	13.900	0.030000
664.173	13.526	0.030000
668.723	13.459	0.030000
673.273	13.454	0.030000
677.822	13.582	0.030000
682.372	13.617	0.030000
686.921	13.675	0.030000
691.471	13.755	0.030000
695.885	13.743	0.030000
700.300	13.820	0.030000
704.714	14.430	0.030000
709.129	14.483	0.030000
713.558	14.249	0.030000
717.987	14.257	0.030000
722.987	14.341	0.030000
727.987	14.334	0.030000
731.789	14.308	0.030000
735.591	14.280	0.030000
739.392	14.327	0.030000
743.194	14.313	0.030000
747.443	14.296	0.030000
751.693	14.339	0.030000
755.942	14.405	0.030000
760.191	14.433	0.030000
764.539	14.403	0.030000
768.887	14.400	0.030000
773.235	14.397	0.030000
776.770	14.326	0.030000
780.306	14.397	0.030000
783.841	14.529	0.030000
787.971	14.653	0.030000
792.100	14.799	0.030000
796.230	14.826	0.030000
799.787	14.793	0.030000
803.344	14.771	0.030000
806.902	14.680	0.030000
810.946	14.755	0.030000
814.991	14.643	0.030000
819.035	14.375	0.030000
823.080	14.070	0.030000
827.124	13.893	0.030000
831.168	14.095	0.030000
835.771	14.176	0.030000
840.373	14.292	0.030000
844.748	14.115	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

849.123	13.840	0.030000
853.498	13.838	0.030000
857.873	13.896	0.030000
862.873	13.912	0.030000
867.873	13.902	0.030000
872.873	13.869	0.030000
877.302	13.772	0.030000
881.731	13.670	0.030000
886.116	13.586	0.030000
890.500	13.578	0.030000
894.884	13.579	0.030000
899.269	13.608	0.030000
903.653	13.623	0.030000
907.455	13.677	0.030000
911.256	13.690	0.030000
915.058	13.680	0.030000
918.860	13.671	0.030000
923.027	13.659	0.030000
927.193	13.642	0.030000
931.360	13.616	0.030000
935.847	13.612	0.030000
940.335	13.678	0.030000
944.823	13.708	0.030000
949.823	13.627	0.030000
954.823	13.558	0.030000
958.156	13.566	0.030000
961.490	13.611	0.030000
964.823	13.656	0.030000
969.310	13.709	0.030000
973.798	13.762	0.030000
978.286	13.814	0.030000
982.773	13.867	0.030000
987.261	13.925	0.030000
990.818	13.925	0.030000
994.376	13.911	0.030000
997.933	13.893	0.030000
1001.977	13.870	0.030000
1006.022	13.847	0.030000
1010.066	13.824	0.030000
1013.400	13.810	0.030000
1016.733	13.795	0.030000
1020.066	13.780	0.030000
1024.098	13.746	0.030000
1028.129	13.700	0.030000
1032.160	13.717	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1036.191	13.737	0.030000
1040.222	13.749	0.030000
1044.597	13.760	0.030000
1048.972	13.770	0.030000
1053.347	13.780	0.030000
1057.722	13.791	0.030000
1062.229	13.811	0.030000
1066.736	13.805	0.030000
1071.394	13.746	0.030000
1076.053	13.658	0.030000
1080.711	13.566	0.030000
1085.370	13.485	0.030000
1090.028	13.490	0.030000
1094.687	13.698	0.030000
1099.204	13.786	0.030000
1103.721	13.791	0.030000
1108.239	13.849	0.030000
1112.756	13.905	0.030000

-----

Name: XH0030A	Group: H
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	14.127	0.030000
3.333	14.183	0.030000
6.667	14.228	0.030000
10.000	14.217	0.030000
14.249	14.124	0.030000
18.498	14.038	0.030000
22.747	14.016	0.030000
26.997	13.972	0.030000
31.003	13.964	0.030000
35.009	13.940	0.030000
39.015	13.873	0.030000
43.618	13.762	0.030000
48.220	13.812	0.030000
52.727	13.955	0.030000
57.234	13.936	0.030000
61.570	13.886	0.030000
65.907	13.789	0.030000
70.243	13.700	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

74.580	13.599	0.030000
78.916	13.544	0.030000
83.264	13.465	0.030000
87.612	13.600	0.030000
91.960	13.765	0.030000
95.396	13.773	0.030000
98.832	13.708	0.030000
102.268	13.609	0.030000
105.704	13.562	0.030000
109.140	13.565	0.030000
112.576	13.627	0.030000
116.825	13.698	0.030000
121.074	13.763	0.030000
125.323	13.775	0.030000
130.078	13.781	0.030000
134.833	13.795	0.030000
139.587	13.848	0.030000
143.209	13.885	0.030000
146.831	13.941	0.030000
150.453	14.015	0.030000
154.702	14.023	0.030000
158.951	14.003	0.030000
163.200	13.980	0.030000
167.450	13.977	0.030000
171.699	14.002	0.030000
175.948	14.187	0.030000
180.197	14.117	0.030000
184.685	14.056	0.030000
189.172	14.039	0.030000
192.608	14.038	0.030000
196.044	13.980	0.030000
199.480	13.911	0.030000
203.555	13.834	0.030000
207.629	13.788	0.030000
211.704	13.839	0.030000
215.778	13.797	0.030000
219.731	13.727	0.030000
223.684	13.714	0.030000
227.637	13.711	0.030000
231.438	13.712	0.030000
235.240	13.669	0.030000
239.042	13.675	0.030000
242.844	13.681	0.030000
247.745	13.682	0.030000
252.647	13.736	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

257.549	13.867	0.030000
262.099	13.803	0.030000
266.649	13.753	0.030000
271.199	13.703	0.030000
275.749	13.659	0.030000
280.500	13.661	0.030000
285.251	13.771	0.030000
290.002	13.729	0.030000
294.317	13.670	0.030000
298.633	13.616	0.030000
302.949	13.559	0.030000
307.264	13.453	0.030000
311.580	13.359	0.030000
315.829	13.358	0.030000
320.078	13.324	0.030000
324.327	13.351	0.030000
328.577	13.349	0.030000
332.706	13.408	0.030000
336.836	13.420	0.030000
340.965	13.375	0.030000
345.094	13.311	0.030000
349.224	13.327	0.030000
353.353	13.346	0.030000
357.491	13.353	0.030000
361.628	13.510	0.030000
365.765	13.500	0.030000
369.903	13.514	0.030000
374.784	13.499	0.030000
379.666	13.499	0.030000
384.547	13.656	0.030000
389.428	13.806	0.030000
392.865	13.737	0.030000
396.300	13.730	0.030000
399.736	13.689	0.030000
403.781	13.758	0.030000
407.825	13.943	0.030000
411.870	13.995	0.030000
416.536	13.884	0.030000
421.203	13.861	0.030000
425.870	13.878	0.030000
430.536	14.003	0.030000
435.203	14.384	0.030000
439.551	14.110	0.030000
443.899	13.759	0.030000
448.247	13.755	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

452.676	13.805	0.030000
457.105	13.889	0.030000
461.615	13.847	0.030000
466.124	13.819	0.030000
470.633	13.865	0.030000
475.143	13.858	0.030000
479.516	13.858	0.030000
483.889	13.812	0.030000
488.262	13.808	0.030000

Name: XH0030B                      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.808	0.030000
4.296	13.961	0.030000
8.591	13.680	0.030000
12.887	13.498	0.030000
17.183	13.531	0.030000
21.690	13.722	0.030000
26.197	13.785	0.030000
30.927	14.021	0.030000
35.657	13.952	0.030000
40.388	13.866	0.030000
44.867	13.763	0.030000
49.346	13.891	0.030000
53.825	14.153	0.030000
58.304	14.466	0.030000
62.783	14.645	0.030000
67.262	14.623	0.030000
70.595	14.688	0.030000
73.929	14.752	0.030000
77.262	14.788	0.030000
80.698	14.689	0.030000
84.134	14.408	0.030000
87.570	14.331	0.030000
92.120	14.333	0.030000
96.670	14.318	0.030000
101.220	14.311	0.030000
105.770	14.305	0.030000
110.320	14.284	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

114.870	14.333	0.030000
119.420	14.388	0.030000
123.970	14.450	0.030000
128.458	14.484	0.030000
132.946	14.522	0.030000
137.433	14.460	0.030000
141.940	14.413	0.030000
146.447	14.381	0.030000
150.174	14.344	0.030000
153.901	14.312	0.030000
157.628	14.304	0.030000
161.354	14.287	0.030000
165.081	14.284	0.030000
168.808	14.348	0.030000
172.535	14.387	0.030000
176.261	14.360	0.030000
179.988	14.389	0.030000
183.321	14.400	0.030000
186.655	14.302	0.030000
189.988	14.309	0.030000
194.155	14.290	0.030000
198.321	14.220	0.030000
202.488	14.370	0.030000
207.284	14.262	0.030000
212.081	14.320	0.030000
216.877	14.313	0.030000
221.673	14.316	0.030000
225.718	14.418	0.030000
229.762	14.484	0.030000
233.807	14.474	0.030000
237.242	14.437	0.030000
240.678	14.336	0.030000
244.114	14.396	0.030000
247.550	14.486	0.030000
250.986	14.481	0.030000
254.422	14.393	0.030000
258.172	14.410	0.030000
261.922	14.385	0.030000
265.672	14.415	0.030000
269.422	14.449	0.030000
274.232	14.419	0.030000
279.041	14.363	0.030000
283.851	14.355	0.030000
288.661	14.354	0.030000
293.471	14.233	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

298.281	14.137	0.030000
302.595	14.243	0.030000
306.909	14.415	0.030000
311.224	14.443	0.030000
315.230	14.389	0.030000
319.236	14.335	0.030000
323.243	14.334	0.030000
327.672	14.345	0.030000
332.101	14.423	0.030000
335.828	14.411	0.030000
339.555	14.405	0.030000
343.281	14.443	0.030000
348.281	14.479	0.030000
353.281	14.509	0.030000
358.281	14.517	0.030000
362.597	14.470	0.030000
366.914	14.528	0.030000
371.230	14.554	0.030000
375.800	14.444	0.030000
380.371	14.440	0.030000
384.942	14.508	0.030000
388.275	14.472	0.030000
391.608	14.350	0.030000
394.942	14.318	0.030000
399.942	14.346	0.030000
404.942	14.384	0.030000
408.942	14.407	0.030000
412.942	14.433	0.030000
416.942	14.375	0.030000
420.942	14.573	0.030000
424.942	14.514	0.030000
428.275	14.355	0.030000
431.608	14.311	0.030000
434.942	14.264	0.030000
439.317	14.172	0.030000
443.692	14.141	0.030000
448.067	14.353	0.030000
452.442	14.531	0.030000
456.859	14.582	0.030000
461.277	14.577	0.030000
465.694	14.563	0.030000
470.112	14.549	0.030000
474.529	14.511	0.030000
478.947	14.449	0.030000
483.947	14.347	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

488.947	14.325	0.030000
493.134	14.304	0.030000
497.322	14.191	0.030000
501.509	14.058	0.030000
505.696	14.045	0.030000
509.884	14.134	0.030000
514.071	14.257	0.030000
517.970	14.308	0.030000
521.869	14.322	0.030000
525.768	14.446	0.030000
530.116	14.475	0.030000
534.463	14.494	0.030000
538.811	14.511	0.030000
543.241	14.522	0.030000
547.670	14.545	0.030000
552.018	14.497	0.030000
556.366	14.576	0.030000
560.714	14.589	0.030000
564.959	14.571	0.030000
569.205	14.581	0.030000
573.451	14.592	0.030000

Name: XH0040A      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.808	0.030000
4.180	13.796	0.030000
8.360	13.823	0.030000
12.540	13.869	0.030000
16.720	13.898	0.030000
20.900	13.984	0.030000
25.080	13.997	0.030000
28.413	14.104	0.030000
31.747	14.129	0.030000
35.080	14.169	0.030000
38.882	14.147	0.030000
42.683	14.047	0.030000
46.485	14.006	0.030000
50.287	13.979	0.030000
54.635	13.932	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

58.983	13.999	0.030000
63.331	14.003	0.030000
67.987	13.927	0.030000
72.643	13.849	0.030000
77.300	13.796	0.030000
81.549	13.724	0.030000
85.798	13.673	0.030000
90.047	13.665	0.030000
94.296	13.616	0.030000
98.546	13.691	0.030000
102.795	13.772	0.030000
106.231	13.748	0.030000
109.667	13.741	0.030000
113.103	13.746	0.030000
116.853	13.769	0.030000
120.603	13.799	0.030000
124.353	13.798	0.030000
128.103	13.794	0.030000
131.853	13.784	0.030000
135.603	13.834	0.030000
139.353	13.859	0.030000
143.103	13.806	0.030000
147.147	13.754	0.030000
151.192	13.753	0.030000
155.236	13.649	0.030000
159.584	13.585	0.030000
163.932	13.465	0.030000
168.280	13.710	0.030000
172.808	13.869	0.030000
177.335	13.667	0.030000
181.863	13.506	0.030000
186.391	13.542	0.030000
190.918	13.529	0.030000
195.425	13.447	0.030000
199.932	13.196	0.030000
204.439	13.083	0.030000
208.946	13.229	0.030000
212.482	13.285	0.030000
216.017	13.369	0.030000
219.553	13.443	0.030000
223.982	13.464	0.030000
228.411	13.333	0.030000
232.456	13.316	0.030000
236.500	13.320	0.030000
240.545	13.422	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

244.346	13.339	0.030000
248.148	13.242	0.030000
251.950	13.132	0.030000
255.751	13.053	0.030000
258.252	13.014	0.030000
260.752	13.025	0.030000
265.752	13.030	0.030000
270.752	12.973	0.030000
275.752	12.936	0.030000
280.001	12.916	0.030000
284.250	12.893	0.030000
288.499	12.923	0.030000
292.748	12.960	0.030000
296.997	12.998	0.030000
301.247	13.009	0.030000
305.734	12.980	0.030000
310.222	12.981	0.030000
314.709	12.968	0.030000
319.197	12.910	0.030000
323.685	12.910	0.030000
328.172	12.921	0.030000
332.204	12.917	0.030000
336.235	12.883	0.030000
340.266	12.831	0.030000
344.297	12.789	0.030000
348.328	12.768	0.030000
352.807	12.738	0.030000
357.286	12.707	0.030000
361.765	12.722	0.030000
366.244	12.725	0.030000
370.723	12.793	0.030000
375.202	12.962	0.030000
379.617	13.044	0.030000
384.031	13.130	0.030000
388.446	13.423	0.030000
392.860	13.795	0.030000
396.662	13.939	0.030000
400.464	13.897	0.030000
404.265	13.684	0.030000
408.067	13.455	0.030000
411.909	13.364	0.030000
415.750	13.332	0.030000
419.592	13.416	0.030000
424.469	13.369	0.030000
429.346	13.225	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

434.223	13.220	0.030000
438.652	13.271	0.030000
443.081	13.294	0.030000
447.190	13.339	0.030000
451.299	13.361	0.030000
455.408	13.411	0.030000
459.517	13.448	0.030000
464.272	13.469	0.030000
469.027	13.502	0.030000
473.781	13.468	0.030000
478.658	13.312	0.030000
483.535	13.292	0.030000
488.412	13.415	0.030000
493.289	13.360	0.030000
497.461	13.346	0.030000
501.633	13.110	0.030000
505.805	12.959	0.030000
509.977	12.960	0.030000
513.413	13.031	0.030000
516.848	13.084	0.030000
520.284	13.126	0.030000
525.284	13.235	0.030000
530.284	13.344	0.030000
535.284	13.437	0.030000
539.329	13.449	0.030000
543.373	13.445	0.030000
547.418	13.427	0.030000
551.766	13.342	0.030000
556.114	13.268	0.030000
560.462	13.212	0.030000
564.188	13.134	0.030000
567.915	13.075	0.030000
571.642	13.089	0.030000
575.033	13.081	0.030000
578.423	13.070	0.030000
581.814	13.118	0.030000
586.243	13.129	0.030000
590.673	13.057	0.030000
595.102	13.012	0.030000
599.531	13.032	0.030000
603.711	12.991	0.030000
607.891	12.929	0.030000
612.071	12.845	0.030000
616.251	12.709	0.030000
620.431	12.539	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

624.611	12.372	0.030000
628.791	12.256	0.030000
632.971	12.174	0.030000
637.151	12.097	0.030000
641.331	12.099	0.030000
645.679	12.086	0.030000
650.027	12.121	0.030000
654.375	12.162	0.030000
658.881	12.094	0.030000
663.388	12.054	0.030000
667.972	12.075	0.030000
672.555	12.101	0.030000
677.138	12.127	0.030000
681.722	12.020	0.030000
686.305	11.956	0.030000
690.888	11.872	0.030000
695.236	11.946	0.030000
699.584	12.291	0.030000
703.932	12.451	0.030000
708.420	12.325	0.030000
712.907	12.249	0.030000
717.907	12.347	0.030000
722.907	12.351	0.030000
727.907	12.541	0.030000
732.907	12.565	0.030000
737.907	12.473	0.030000
742.907	12.398	0.030000
746.657	12.398	0.030000
750.407	12.369	0.030000
754.157	12.231	0.030000
757.907	12.210	0.030000
761.343	12.289	0.030000
764.779	12.293	0.030000
768.215	12.253	0.030000
772.703	12.177	0.030000
777.190	12.031	0.030000
781.678	12.073	0.030000
785.480	12.187	0.030000
789.282	12.213	0.030000
793.083	12.214	0.030000
796.885	12.272	0.030000
800.555	12.065	0.030000
804.226	11.967	0.030000
807.896	12.080	0.030000
812.343	12.157	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

816.790	12.198	0.030000
821.236	12.173	0.030000
825.683	12.242	0.030000
830.130	12.274	0.030000
834.577	12.297	0.030000
839.023	12.272	0.030000
842.581	12.256	0.030000
846.138	12.281	0.030000
849.695	12.352	0.030000
853.944	12.452	0.030000
858.193	12.115	0.030000
862.443	11.779	0.030000
866.692	11.659	0.030000
871.179	11.862	0.030000
875.667	12.081	0.030000
880.155	12.163	0.030000
884.731	12.104	0.030000
889.308	12.104	0.030000
893.884	12.182	0.030000

Name: XH0040B                      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	13.905	0.030000
4.519	13.897	0.030000
9.039	13.848	0.030000
13.558	13.807	0.030000
18.077	13.794	0.030000
22.596	13.776	0.030000
27.116	13.730	0.030000
31.365	13.668	0.030000
35.614	13.643	0.030000
39.863	13.730	0.030000
44.112	13.874	0.030000
48.361	13.903	0.030000
52.611	13.908	0.030000
56.896	13.938	0.030000
61.182	14.040	0.030000
65.468	14.187	0.030000
69.753	14.152	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

74.039	14.067	0.030000
78.325	13.996	0.030000
82.611	13.934	0.030000
87.138	13.870	0.030000
91.666	13.857	0.030000
96.194	14.012	0.030000
100.721	14.258	0.030000
105.249	14.256	0.030000
110.108	14.371	0.030000
114.967	14.367	0.030000
119.826	14.464	0.030000
123.553	14.529	0.030000
127.280	14.427	0.030000
131.007	14.338	0.030000
135.436	14.247	0.030000
139.865	14.166	0.030000
144.295	14.083	0.030000
148.724	14.002	0.030000
152.677	13.917	0.030000
156.629	13.789	0.030000
160.582	14.054	0.030000
164.535	14.259	0.030000
167.971	14.349	0.030000
171.407	14.366	0.030000
174.843	14.316	0.030000
178.176	14.361	0.030000
181.510	14.397	0.030000
184.843	14.413	0.030000
188.887	14.545	0.030000
192.932	14.611	0.030000
196.976	14.513	0.030000
201.406	14.565	0.030000
205.835	14.571	0.030000
209.271	14.568	0.030000
212.707	14.595	0.030000
216.143	14.548	0.030000
219.476	14.575	0.030000
222.809	14.638	0.030000
226.143	14.600	0.030000
229.476	14.613	0.030000
232.809	14.598	0.030000
236.143	14.625	0.030000
241.143	14.621	0.030000
246.143	14.655	0.030000
249.893	14.666	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

253.643	14.666	0.030000
257.393	14.642	0.030000
261.143	14.597	0.030000
265.596	14.647	0.030000
270.049	14.670	0.030000
274.502	14.692	0.030000
278.955	14.539	0.030000
283.408	14.322	0.030000
287.861	14.314	0.030000
292.314	14.330	0.030000
296.767	14.349	0.030000
301.221	14.360	0.030000
304.971	14.380	0.030000
308.721	14.432	0.030000
312.471	14.634	0.030000
316.221	14.739	0.030000
319.971	14.686	0.030000
323.721	14.418	0.030000
327.471	14.382	0.030000
331.221	14.398	0.030000
335.399	14.261	0.030000
339.577	14.025	0.030000
343.755	13.776	0.030000
347.933	13.500	0.030000
352.112	13.430	0.030000
356.290	13.545	0.030000
360.189	13.732	0.030000
364.088	13.753	0.030000
367.986	13.730	0.030000
372.986	13.674	0.030000
377.986	13.641	0.030000
382.986	13.631	0.030000
387.334	13.618	0.030000
391.682	13.605	0.030000
396.030	13.598	0.030000
400.518	13.576	0.030000
405.005	13.559	0.030000
409.493	13.583	0.030000
413.981	13.537	0.030000
418.468	13.488	0.030000
422.816	13.508	0.030000
427.164	13.549	0.030000
431.512	13.406	0.030000
435.761	13.246	0.030000
440.010	12.894	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

444.260	12.733	0.030000
448.509	12.653	0.030000
452.540	12.679	0.030000
456.571	12.761	0.030000
460.602	12.747	0.030000
464.633	12.751	0.030000
468.664	12.828	0.030000
472.466	12.916	0.030000
476.268	12.961	0.030000
480.070	12.757	0.030000
483.871	12.565	0.030000
487.673	12.458	0.030000
491.475	12.413	0.030000
495.277	12.791	0.030000
499.078	12.756	0.030000
503.566	12.588	0.030000
508.053	12.619	0.030000
512.541	12.668	0.030000
517.029	12.673	0.030000
521.516	12.646	0.030000
525.989	12.609	0.030000
530.461	12.682	0.030000
534.933	12.713	0.030000
539.405	12.804	0.030000
543.877	12.837	0.030000
547.922	12.883	0.030000
551.966	12.890	0.030000
556.011	12.915	0.030000
559.447	13.045	0.030000
562.882	12.848	0.030000
566.318	12.684	0.030000
570.975	12.458	0.030000
575.631	12.214	0.030000
580.288	12.165	0.030000
584.732	12.121	0.030000
589.176	12.066	0.030000
593.621	12.070	0.030000
597.969	12.049	0.030000
602.317	12.017	0.030000
606.665	11.949	0.030000
610.466	11.903	0.030000
614.268	11.859	0.030000
618.070	11.883	0.030000
621.871	11.913	0.030000
626.420	11.969	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

630.969	12.041	0.030000
635.518	12.060	0.030000
640.067	12.073	0.030000
644.616	12.045	0.030000
649.164	12.140	0.030000
653.713	11.998	0.030000
657.719	11.962	0.030000
661.726	12.081	0.030000
665.732	12.307	0.030000
669.981	12.598	0.030000
674.230	12.518	0.030000
678.479	12.414	0.030000
682.728	12.309	0.030000
686.062	12.303	0.030000
689.395	12.314	0.030000
692.728	12.331	0.030000
696.530	12.279	0.030000
700.332	12.293	0.030000
704.134	12.295	0.030000
707.935	12.289	0.030000
711.888	12.290	0.030000
715.841	12.298	0.030000
719.794	12.333	0.030000
723.747	12.348	0.030000
728.497	12.477	0.030000
733.247	12.606	0.030000
737.997	12.522	0.030000
742.747	12.459	0.030000
747.497	12.384	0.030000
752.247	12.210	0.030000
756.997	12.152	0.030000
761.747	12.173	0.030000
766.497	12.530	0.030000
771.247	12.474	0.030000
776.155	12.347	0.030000
781.063	12.467	0.030000
785.971	12.615	0.030000
790.880	12.704	0.030000
795.788	12.858	0.030000
800.696	12.417	0.030000
805.605	11.884	0.030000
810.513	12.020	0.030000
815.421	12.187	0.030000
819.613	12.007	0.030000
823.805	12.018	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

827.997 12.127 0.030000  
832.188 12.182 0.030000

Name: XH0050B Group: H  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 10.278 0.030000  
4.546 10.309 0.030000  
9.091 10.275 0.030000  
13.637 10.219 0.030000  
18.183 10.264 0.030000  
22.728 10.235 0.030000  
27.274 10.269 0.030000  
31.820 10.245 0.030000  
36.365 10.265 0.030000  
40.911 10.237 0.030000  
45.457 10.191 0.030000  
50.002 10.169 0.030000  
55.002 10.155 0.030000  
57.502 10.141 0.030000  
60.002 10.128 0.030000  
65.002 10.081 0.030000  
70.002 10.046 0.030000  
75.002 10.038 0.030000  
77.502 10.029 0.030000  
80.002 10.006 0.030000  
85.002 10.017 0.030000  
89.645 10.000 0.030000  
94.288 9.928 0.030000  
98.931 9.919 0.030000  
103.574 9.909 0.030000  
108.217 9.866 0.030000  
112.860 9.847 0.030000  
117.503 9.814 0.030000  
122.145 9.827 0.030000  
126.788 9.799 0.030000  
131.431 9.938 0.030000  
136.074 9.909 0.030000  
140.717 9.907 0.030000  
145.360 9.905 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

150.003	9.880	0.030000
153.753	9.887	0.030000
157.503	9.946	0.030000
161.253	9.879	0.030000
165.003	9.866	0.030000
169.871	9.926	0.030000
174.739	9.938	0.030000
179.608	9.877	0.030000
184.476	9.894	0.030000
189.345	9.870	0.030000
194.213	9.749	0.030000
199.081	9.701	0.030000
203.950	9.708	0.030000
208.818	9.728	0.030000
213.687	9.661	0.030000
218.555	9.726	0.030000
223.424	9.655	0.030000
228.292	9.572	0.030000
233.160	9.699	0.030000
238.029	9.637	0.030000
242.897	9.511	0.030000
247.766	9.520	0.030000
252.634	9.595	0.030000
257.503	9.531	0.030000
261.669	9.610	0.030000
265.836	9.637	0.030000
270.003	9.599	0.030000
274.003	9.572	0.030000
278.003	9.598	0.030000
282.003	9.492	0.030000
286.003	9.490	0.030000
290.003	9.529	0.030000
294.174	9.518	0.030000
298.346	9.425	0.030000
302.518	9.345	0.030000
306.690	9.418	0.030000
311.178	9.370	0.030000
315.665	9.370	0.030000
319.101	9.336	0.030000
322.537	9.288	0.030000
325.973	9.310	0.030000
330.140	9.338	0.030000
334.306	9.295	0.030000
338.473	9.264	0.030000
343.001	9.409	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

347.528	9.403	0.030000
352.056	9.365	0.030000
356.584	9.275	0.030000
361.111	9.244	0.030000
365.639	9.254	0.030000
370.167	9.247	0.030000
374.695	9.242	0.030000
379.222	9.150	0.030000
383.750	9.170	0.030000
388.250	9.159	0.030000
392.750	9.043	0.030000
397.250	9.014	0.030000
401.750	9.099	0.030000
406.250	9.067	0.030000
410.891	9.054	0.030000
415.532	9.132	0.030000
420.173	9.115	0.030000
424.814	9.012	0.030000
429.455	9.043	0.030000
434.096	9.068	0.030000
438.737	9.051	0.030000
443.378	8.983	0.030000
447.422	8.986	0.030000
451.467	8.920	0.030000
455.511	8.840	0.030000
459.556	8.815	0.030000
463.600	8.823	0.030000
467.645	8.851	0.030000
472.132	8.783	0.030000
476.620	8.792	0.030000
481.108	8.814	0.030000
485.595	8.661	0.030000
490.083	8.807	0.030000
494.555	8.713	0.030000
499.027	8.658	0.030000
503.499	8.674	0.030000
507.971	8.690	0.030000
512.444	8.492	0.030000
515.979	8.455	0.030000
519.515	8.508	0.030000
523.050	8.507	0.030000
527.557	8.436	0.030000
532.064	8.366	0.030000
536.552	8.368	0.030000
541.039	8.286	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

545.527	8.308	0.030000
549.974	8.260	0.030000
554.420	8.155	0.030000
558.867	8.205	0.030000
563.313	8.234	0.030000
567.760	8.101	0.030000
572.207	8.021	0.030000
577.176	7.964	0.030000
582.145	7.930	0.030000
587.114	7.845	0.030000
591.158	7.824	0.030000
595.203	7.841	0.030000
599.247	7.796	0.030000
603.589	7.814	0.030000
607.930	7.722	0.030000
612.272	7.906	0.030000
616.614	8.007	0.030000
620.955	7.978	0.030000

Name: XH0050C      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	12.285	0.030000
4.951	11.996	0.030000
9.903	11.817	0.030000
14.854	11.965	0.030000
19.805	12.073	0.030000
24.757	12.155	0.030000
29.708	12.223	0.030000
34.659	12.234	0.030000
39.611	12.235	0.030000
44.562	12.304	0.030000
49.514	12.383	0.030000
54.465	12.404	0.030000
59.416	12.159	0.030000
64.368	11.745	0.030000
69.319	11.612	0.030000
74.270	11.637	0.030000
79.222	11.736	0.030000
84.173	11.678	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

89.124	11.572	0.030000
94.076	11.566	0.030000
99.027	11.599	0.030000
103.978	11.623	0.030000
108.930	11.602	0.030000
113.881	11.601	0.030000
118.832	11.534	0.030000
123.784	11.544	0.030000
128.735	11.664	0.030000
133.686	11.936	0.030000
138.638	12.190	0.030000
143.589	12.388	0.030000
148.540	12.416	0.030000
153.492	12.338	0.030000
158.443	12.246	0.030000
163.394	12.125	0.030000
168.346	11.996	0.030000
173.297	11.859	0.030000
178.249	11.715	0.030000
183.200	11.643	0.030000
188.151	11.724	0.030000
193.102	11.842	0.030000
198.054	11.938	0.030000
203.005	11.916	0.030000
207.957	11.532	0.030000
212.908	11.222	0.030000
217.859	11.287	0.030000
222.811	11.387	0.030000
227.762	11.436	0.030000
232.713	11.477	0.030000
237.665	11.536	0.030000
242.616	11.678	0.030000
247.567	11.773	0.030000
252.519	11.444	0.030000
257.470	11.480	0.030000
262.421	11.393	0.030000
267.373	11.139	0.030000
272.324	10.979	0.030000
277.275	10.791	0.030000
282.227	10.673	0.030000
287.178	10.634	0.030000
292.130	10.742	0.030000
297.081	10.740	0.030000
302.032	10.751	0.030000
306.983	10.751	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

311.935	10.825	0.030000
316.886	10.908	0.030000
321.837	10.990	0.030000
326.789	11.072	0.030000
331.740	10.971	0.030000
336.692	10.877	0.030000
341.643	10.796	0.030000
346.594	10.717	0.030000
351.532	10.634	0.030000
356.469	10.375	0.030000
361.406	10.318	0.030000
366.344	10.113	0.030000
371.281	10.046	0.030000
376.218	9.971	0.030000
381.156	9.857	0.030000
386.093	9.919	0.030000
391.030	10.009	0.030000
395.967	10.194	0.030000
400.905	10.230	0.030000
405.842	10.145	0.030000
410.779	10.171	0.030000
415.717	10.280	0.030000
420.654	10.325	0.030000
425.591	10.316	0.030000
429.773	10.303	0.030000
433.955	10.290	0.030000
438.137	10.278	0.030000
443.032	10.241	0.030000
447.927	10.036	0.030000
452.822	9.791	0.030000
457.717	9.673	0.030000
462.612	9.551	0.030000
467.507	9.452	0.030000
472.401	9.375	0.030000
477.224	9.289	0.030000
482.047	9.334	0.030000
486.870	9.520	0.030000
491.692	9.381	0.030000
496.515	9.196	0.030000
501.338	9.088	0.030000
506.160	9.197	0.030000
510.983	9.472	0.030000
515.806	9.692	0.030000
520.629	10.047	0.030000
525.265	10.109	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

529.903	10.030	0.030000
534.540	10.105	0.030000
539.177	10.233	0.030000
543.814	10.229	0.030000
548.451	10.193	0.030000
553.088	10.082	0.030000
557.725	10.014	0.030000
562.362	10.026	0.030000
566.999	10.060	0.030000
571.636	10.103	0.030000
576.289	10.132	0.030000
580.943	10.150	0.030000
585.597	10.231	0.030000
590.250	10.177	0.030000
594.904	10.231	0.030000
599.557	10.317	0.030000
604.332	10.419	0.030000
609.107	10.502	0.030000
613.882	10.599	0.030000
618.657	10.523	0.030000
623.653	10.325	0.030000
628.649	10.315	0.030000
633.646	10.329	0.030000
638.642	10.217	0.030000
643.638	10.160	0.030000
648.634	10.131	0.030000
653.631	10.061	0.030000
658.627	9.876	0.030000
663.623	9.870	0.030000
668.619	9.912	0.030000
673.055	10.053	0.030000
677.491	10.099	0.030000
681.926	10.147	0.030000
686.362	10.202	0.030000
690.798	10.168	0.030000
695.633	10.090	0.030000
700.469	10.019	0.030000
705.304	9.965	0.030000
710.140	9.906	0.030000
714.976	9.848	0.030000
719.811	9.789	0.030000
724.647	9.730	0.030000
729.482	9.684	0.030000
734.318	9.537	0.030000
739.153	9.351	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

743.989	8.864	0.030000
748.824	8.591	0.030000
753.660	8.555	0.030000
758.495	8.450	0.030000
763.331	8.403	0.030000
768.167	8.387	0.030000
773.002	8.383	0.030000
777.838	8.415	0.030000
782.673	8.468	0.030000
787.509	8.465	0.030000
792.345	8.564	0.030000
797.180	8.610	0.030000
802.016	8.632	0.030000
806.378	8.638	0.030000
810.741	8.645	0.030000
815.103	8.652	0.030000
819.466	8.613	0.030000
823.829	8.447	0.030000
828.191	8.148	0.030000
833.152	7.933	0.030000
838.113	7.916	0.030000
843.073	7.905	0.030000
848.034	7.816	0.030000
852.995	7.539	0.030000
857.956	7.174	0.030000
862.917	6.646	0.030000
867.877	6.503	0.030000
872.838	6.325	0.030000
877.799	6.368	0.030000
882.760	6.933	0.030000
887.720	6.984	0.030000
892.681	7.115	0.030000
897.642	7.246	0.030000
902.602	7.529	0.030000
907.563	7.728	0.030000
912.524	7.689	0.030000
917.485	7.862	0.030000
922.446	7.978	0.030000

---

Name: XH0050D                      Group: H  
Encroachment: No

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
0.000	11.234	0.030000
4.347	11.241	0.030000
8.694	11.243	0.030000
13.182	11.204	0.030000
17.670	11.262	0.030000
22.157	11.333	0.030000
26.157	11.326	0.030000
30.157	11.372	0.030000
34.157	11.335	0.030000
38.157	11.308	0.030000
42.157	11.354	0.030000
46.934	11.429	0.030000
51.710	11.452	0.030000
56.486	11.431	0.030000
61.262	11.419	0.030000
66.039	11.464	0.030000
70.815	11.441	0.030000
75.591	11.429	0.030000
80.367	11.424	0.030000
85.144	11.352	0.030000
89.920	11.479	0.030000
94.503	11.421	0.030000
99.087	11.494	0.030000
103.670	11.650	0.030000
108.253	11.646	0.030000
112.837	11.608	0.030000
117.420	11.660	0.030000
122.063	11.722	0.030000
126.706	11.712	0.030000
131.349	11.659	0.030000
135.991	11.603	0.030000
140.634	11.669	0.030000
145.277	11.751	0.030000
149.920	11.690	0.030000
154.842	11.645	0.030000
159.764	11.692	0.030000
164.686	11.679	0.030000
169.608	11.701	0.030000
174.530	11.726	0.030000
179.452	11.715	0.030000
184.374	11.697	0.030000
189.296	11.727	0.030000
194.218	11.710	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

199.140	11.630	0.030000
204.062	11.653	0.030000
208.984	11.697	0.030000
213.906	11.673	0.030000
218.828	11.706	0.030000
223.750	11.713	0.030000
228.672	11.764	0.030000
233.594	11.772	0.030000
238.516	11.762	0.030000
243.438	11.803	0.030000
248.360	11.762	0.030000
253.282	11.824	0.030000
258.204	11.849	0.030000
263.126	11.885	0.030000
268.048	11.949	0.030000
272.970	12.018	0.030000
277.892	12.033	0.030000
282.814	12.066	0.030000
287.736	12.081	0.030000
292.658	12.077	0.030000
297.580	12.152	0.030000
302.502	12.228	0.030000
307.449	12.245	0.030000
312.396	12.252	0.030000
317.344	12.259	0.030000
322.291	12.317	0.030000
327.238	12.409	0.030000
332.185	12.423	0.030000
337.132	12.402	0.030000

Name: XH0060A\_1      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	8.025	0.085000
4.832	5.267	0.085000
9.664	3.382	0.085000
14.496	2.571	0.085000
19.328	2.390	0.085000
24.161	2.390	0.085000
28.993	2.390	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

33.825	2.390	0.085000
38.657	2.390	0.085000
43.489	2.390	0.085000
48.321	2.390	0.085000
53.153	2.485	0.085000
57.986	3.019	0.085000
62.818	4.645	0.085000
67.650	7.849	0.085000

Name: XH0060A\_2                      Group: H  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	7.960	0.085000
4.929	7.744	0.085000
9.858	7.565	0.085000
14.787	7.431	0.085000
19.716	7.294	0.085000
24.645	7.126	0.085000
29.574	6.936	0.085000
34.503	6.860	0.085000
39.432	6.755	0.085000
44.361	6.596	0.085000
49.290	6.576	0.085000
54.219	6.433	0.085000
59.148	4.721	0.085000
64.077	3.319	0.085000
69.006	2.471	0.085000
73.935	2.390	0.085000
78.864	2.859	0.085000
83.793	3.851	0.085000
88.722	4.034	0.085000
93.651	4.623	0.085000
98.581	4.919	0.085000
103.510	4.751	0.085000
108.439	4.721	0.085000
113.368	4.652	0.085000
118.297	4.771	0.085000
123.226	4.838	0.085000
128.155	5.009	0.085000
133.084	4.955	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

138.013	5.020	0.085000
142.942	4.987	0.085000
147.871	4.872	0.085000
152.800	4.735	0.085000
157.729	4.571	0.085000
162.658	4.574	0.085000
167.587	4.623	0.085000
172.516	4.581	0.085000
177.445	4.762	0.085000
182.374	4.914	0.085000
187.303	4.941	0.085000
192.232	4.957	0.085000
197.161	5.088	0.085000
202.090	5.219	0.085000
207.019	5.205	0.085000
211.948	5.836	0.085000
216.877	6.638	0.085000
221.806	7.827	0.085000

Name: XH0070A\_1      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	7.944	0.085000
4.765	7.319	0.085000
9.530	6.570	0.085000
14.295	5.067	0.085000
19.060	3.124	0.085000
23.825	2.390	0.085000
28.590	2.390	0.085000
33.356	2.676	0.085000
38.121	3.965	0.085000
42.886	5.430	0.085000
47.651	5.551	0.085000
52.416	6.013	0.085000
57.181	6.401	0.085000
61.946	7.297	0.085000
66.711	8.305	0.085000

Name: XH0070A\_2      Group: H

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	8.000	0.085000
4.998	7.810	0.085000
9.997	7.567	0.085000
14.995	7.456	0.085000
19.994	7.319	0.085000
24.992	7.212	0.085000
29.991	7.049	0.085000
34.989	6.988	0.085000
39.987	6.906	0.085000
44.986	6.965	0.085000
49.984	7.136	0.085000
54.983	6.399	0.085000
59.981	5.530	0.085000
64.980	5.272	0.085000
69.978	4.555	0.085000
74.976	3.822	0.085000
79.975	3.528	0.085000
84.973	3.743	0.085000
89.972	4.014	0.085000
94.970	4.311	0.085000
99.969	4.869	0.085000
104.967	6.159	0.085000
109.965	4.928	0.085000
114.964	4.031	0.085000
119.962	3.558	0.085000
124.961	2.443	0.085000
129.959	2.230	0.085000
134.957	2.528	0.085000
139.956	4.805	0.085000
144.954	6.685	0.085000
149.953	7.027	0.085000
154.951	6.013	0.085000
159.950	5.863	0.085000
164.948	5.767	0.085000
169.946	5.790	0.085000
174.945	5.798	0.085000
179.943	5.833	0.085000
184.942	5.983	0.085000
189.940	6.216	0.085000



Long Branch BMP Model Results  
Input Data Report Summary

194.939	6.842	0.085000
199.937	7.125	0.085000
204.935	6.928	0.085000
209.934	7.076	0.085000
214.932	7.205	0.085000
219.931	7.373	0.085000
224.929	7.434	0.085000
229.928	7.697	0.085000
234.926	7.842	0.085000
239.924	7.727	0.085000
244.923	7.923	0.085000

Name: XH0070B                      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	12.405	0.030000
4.384	12.392	0.030000
8.769	12.520	0.030000
13.153	12.547	0.030000
17.537	12.331	0.030000
21.922	12.409	0.030000
26.171	12.315	0.030000
30.420	12.359	0.030000
34.669	12.386	0.030000
38.918	12.291	0.030000
43.795	12.226	0.030000
48.672	11.773	0.030000
53.549	11.715	0.030000
58.426	11.872	0.030000
62.841	11.908	0.030000
67.255	10.888	0.030000
71.670	10.329	0.030000
76.084	10.143	0.030000
80.513	10.137	0.030000
84.943	10.210	0.030000
89.545	10.426	0.030000
94.147	10.533	0.030000
97.769	10.478	0.030000
101.391	10.481	0.030000
105.012	10.459	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

109.057	10.531	0.030000
113.101	10.468	0.030000
117.146	10.312	0.030000
120.582	10.212	0.030000
124.018	10.036	0.030000
127.454	9.981	0.030000
130.787	9.984	0.030000
134.120	9.978	0.030000
137.454	9.975	0.030000
141.255	9.975	0.030000
145.057	9.980	0.030000
148.859	9.975	0.030000
152.661	9.971	0.030000
156.705	9.988	0.030000
160.750	10.006	0.030000
164.794	10.024	0.030000
168.624	10.028	0.030000
172.454	10.001	0.030000
176.285	10.020	0.030000
180.115	10.143	0.030000
184.622	9.996	0.030000
189.129	9.859	0.030000
192.855	9.930	0.030000
196.582	10.170	0.030000
200.309	10.257	0.030000
204.558	10.262	0.030000
208.807	10.297	0.030000
213.057	10.276	0.030000
217.186	10.245	0.030000
221.315	10.216	0.030000
225.445	10.186	0.030000
229.002	10.181	0.030000
232.560	10.180	0.030000
236.117	10.269	0.030000
240.161	10.580	0.030000
244.206	10.528	0.030000
248.250	10.489	0.030000
252.052	10.498	0.030000
255.854	10.525	0.030000
259.656	10.769	0.030000
263.457	10.747	0.030000
267.805	10.678	0.030000
272.153	10.513	0.030000
276.501	10.456	0.030000
281.050	10.411	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

285.599	10.226	0.030000
290.147	10.345	0.030000
294.696	10.334	0.030000
299.245	10.308	0.030000
303.794	10.278	0.030000
308.343	10.248	0.030000
311.779	10.281	0.030000
315.214	10.425	0.030000
318.650	10.423	0.030000
322.400	10.408	0.030000
326.150	10.564	0.030000
329.900	10.632	0.030000
333.650	10.701	0.030000
337.086	10.757	0.030000
340.522	10.813	0.030000
343.958	10.867	0.030000
348.207	10.873	0.030000
352.457	10.860	0.030000
356.706	10.877	0.030000
360.955	10.872	0.030000
365.369	10.853	0.030000
369.784	10.923	0.030000
374.198	11.036	0.030000
378.613	11.005	0.030000
382.049	10.946	0.030000
385.485	11.167	0.030000
388.921	11.310	0.030000
393.921	11.349	0.030000
398.921	11.219	0.030000
402.722	11.283	0.030000
406.524	10.973	0.030000
410.326	10.750	0.030000
414.128	10.691	0.030000
418.542	10.961	0.030000
422.957	11.435	0.030000
427.371	11.698	0.030000
431.786	11.609	0.030000
436.133	11.509	0.030000
440.481	11.575	0.030000
444.829	11.586	0.030000
448.631	11.587	0.030000
452.433	11.788	0.030000
456.234	11.715	0.030000
460.036	11.621	0.030000
463.472	11.610	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

466.908	11.540	0.030000
470.344	11.472	0.030000
474.071	11.302	0.030000
477.798	11.136	0.030000
481.524	11.029	0.030000
484.960	11.026	0.030000
488.396	11.150	0.030000
491.832	11.203	0.030000
496.832	11.482	0.030000
501.832	11.609	0.030000
505.863	11.530	0.030000
509.894	11.435	0.030000
513.925	11.336	0.030000
517.957	11.235	0.030000
521.988	11.215	0.030000
525.941	11.267	0.030000
529.893	11.366	0.030000
533.846	11.387	0.030000
537.799	11.310	0.030000
542.228	11.351	0.030000
546.658	11.376	0.030000
551.087	11.387	0.030000
555.516	11.408	0.030000
559.243	11.390	0.030000
562.970	11.315	0.030000
566.696	11.233	0.030000
570.423	11.158	0.030000
574.150	11.084	0.030000
577.877	11.018	0.030000
581.678	10.961	0.030000
585.480	10.907	0.030000
589.282	10.946	0.030000
593.084	10.982	0.030000
596.885	10.981	0.030000
600.687	10.938	0.030000
604.489	10.935	0.030000
608.290	10.912	0.030000
612.720	10.972	0.030000
617.149	11.078	0.030000
621.365	11.174	0.030000
625.582	11.330	0.030000
629.798	11.400	0.030000
634.014	11.519	0.030000
638.231	11.785	0.030000
642.275	11.812	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

646.320	11.733	0.030000
650.364	11.671	0.030000
654.739	11.565	0.030000
659.114	11.323	0.030000
663.489	11.273	0.030000
667.864	11.284	0.030000
672.239	11.288	0.030000
676.614	11.259	0.030000
680.989	11.224	0.030000
685.364	11.214	0.030000
688.800	11.210	0.030000
692.236	11.230	0.030000
695.672	11.118	0.030000
700.372	11.041	0.030000
705.072	11.065	0.030000
709.773	11.132	0.030000
714.473	11.399	0.030000
718.517	11.468	0.030000
722.562	11.392	0.030000
726.606	11.378	0.030000
731.094	11.115	0.030000
735.582	11.145	0.030000
740.069	11.201	0.030000
744.318	11.247	0.030000
748.568	11.293	0.030000
752.817	11.338	0.030000
756.171	11.352	0.030000
759.525	11.396	0.030000
762.879	11.387	0.030000
767.440	11.273	0.030000
772.001	11.051	0.030000
776.561	11.059	0.030000
781.122	11.085	0.030000
785.683	11.126	0.030000
789.727	11.244	0.030000
793.772	11.291	0.030000
797.816	11.204	0.030000
802.295	11.203	0.030000
806.774	11.231	0.030000
811.253	11.254	0.030000
815.732	11.276	0.030000
820.211	11.298	0.030000
824.690	11.278	0.030000
829.300	11.288	0.030000
833.910	11.259	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

838.520	11.229	0.030000
843.130	11.199	0.030000
847.739	11.153	0.030000
851.275	11.128	0.030000
854.810	11.113	0.030000
858.346	11.039	0.030000
862.299	10.868	0.030000
866.252	10.754	0.030000
870.204	10.918	0.030000
874.157	11.007	0.030000
877.593	11.029	0.030000
881.029	11.016	0.030000
884.465	11.014	0.030000
887.901	11.022	0.030000
891.337	11.138	0.030000
894.773	11.228	0.030000
898.500	11.267	0.030000
902.226	11.286	0.030000
905.953	11.289	0.030000
910.382	11.138	0.030000
914.812	10.976	0.030000
919.196	11.127	0.030000
923.580	11.299	0.030000
927.965	11.214	0.030000
932.349	11.202	0.030000
936.733	11.161	0.030000
941.733	11.127	0.030000
946.733	11.128	0.030000
949.233	11.125	0.030000
951.733	11.148	0.030000
956.733	11.120	0.030000
960.778	11.147	0.030000
964.822	11.209	0.030000
968.867	11.259	0.030000
972.257	11.235	0.030000
975.648	11.203	0.030000
979.039	11.190	0.030000
982.475	11.169	0.030000
985.911	11.135	0.030000
989.347	11.095	0.030000
993.534	11.090	0.030000
997.721	11.058	0.030000
1001.909	11.110	0.030000
1006.096	11.223	0.030000
1010.284	11.327	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1014.471	11.415	0.030000
1019.080	11.503	0.030000
1023.688	11.719	0.030000
1028.296	11.902	0.030000

-----

Name: XH0071A_1	Group: H
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	8.025	0.085000
4.884	7.621	0.085000
9.768	7.153	0.085000
14.652	6.634	0.085000
19.536	5.984	0.085000
24.420	5.148	0.085000
29.304	4.210	0.085000
34.188	3.602	0.085000
39.072	3.413	0.085000
43.956	3.563	0.085000
48.840	3.869	0.085000
53.724	4.194	0.085000
58.608	4.462	0.085000
63.492	4.745	0.085000
68.376	4.662	0.085000
73.260	3.855	0.085000
78.144	3.852	0.085000
83.028	3.739	0.085000
87.912	3.566	0.085000
92.796	3.312	0.085000
97.680	2.799	0.085000
102.564	3.579	0.085000
107.448	4.608	0.085000
112.332	4.814	0.085000
117.216	3.579	0.085000
122.100	3.645	0.085000
126.983	4.430	0.085000
131.867	4.567	0.085000
136.751	5.115	0.085000
141.635	6.721	0.085000
146.519	7.728	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XH0071A\_2      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	8.255	0.085000
4.731	6.219	0.085000
9.462	4.524	0.085000
14.194	4.618	0.085000
18.925	4.576	0.085000
23.656	4.315	0.085000
28.387	5.018	0.085000
33.119	5.078	0.085000
37.850	4.251	0.085000
42.581	2.860	0.085000
47.312	3.548	0.085000
52.044	4.564	0.085000
56.775	5.146	0.085000
61.506	5.354	0.085000
66.237	5.270	0.085000
70.969	5.764	0.085000
75.700	7.201	0.085000
80.431	8.346	0.085000

Name: XH0080B      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	0.000	0.050000
0.000	10.600	0.050000
83.000	11.400	0.050000
390.000	7.800	0.050000
1048.000	4.800	0.050000
1726.000	4.600	0.050000
1941.000	9.100	0.050000

Name: XH0080C      Group: H



Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	11.711	0.030000
4.864	11.758	0.030000
9.729	11.619	0.030000
14.593	11.043	0.030000
19.457	10.472	0.030000
24.321	10.551	0.030000
29.186	10.927	0.030000
34.050	10.767	0.030000
38.914	10.712	0.030000
43.778	10.553	0.030000
48.643	10.563	0.030000
53.507	10.701	0.030000
58.371	10.937	0.030000
63.236	11.350	0.030000
68.100	11.463	0.030000
72.964	11.435	0.030000
77.828	11.361	0.030000
82.693	11.279	0.030000
87.557	11.198	0.030000
92.421	11.116	0.030000
97.285	11.035	0.030000
102.150	10.953	0.030000
107.014	10.871	0.030000
111.878	10.790	0.030000
116.742	10.848	0.030000
121.607	11.018	0.030000
126.471	11.098	0.030000
131.448	11.057	0.030000
136.426	10.943	0.030000
141.403	10.845	0.030000
146.380	10.875	0.030000
151.358	10.939	0.030000
156.335	10.967	0.030000
161.313	10.964	0.030000
166.290	10.949	0.030000
171.267	10.921	0.030000
176.245	10.850	0.030000
181.222	10.869	0.030000
186.199	10.978	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

191.177	11.017	0.030000
196.154	10.948	0.030000
201.131	10.933	0.030000
206.109	10.989	0.030000
211.086	10.927	0.030000
216.064	10.870	0.030000
221.041	10.833	0.030000
226.018	10.836	0.030000
230.996	10.882	0.030000
235.973	10.929	0.030000
240.950	10.976	0.030000
245.928	11.023	0.030000
250.905	11.070	0.030000
255.882	11.117	0.030000
260.860	11.130	0.030000
265.837	11.117	0.030000
270.815	11.086	0.030000
275.792	11.008	0.030000
280.769	11.027	0.030000
285.747	11.036	0.030000
290.724	11.090	0.030000
295.702	11.140	0.030000
300.679	11.178	0.030000
305.656	11.216	0.030000
310.634	11.254	0.030000
315.611	11.293	0.030000
320.590	11.349	0.030000
325.568	11.406	0.030000
330.547	11.463	0.030000
335.525	11.520	0.030000
340.504	11.529	0.030000
345.483	11.539	0.030000
350.367	11.597	0.030000
355.251	11.142	0.030000
360.135	10.752	0.030000
365.019	10.536	0.030000
369.903	10.529	0.030000
374.787	10.301	0.030000
379.671	10.427	0.030000
384.555	10.466	0.030000
389.439	10.776	0.030000
394.323	10.820	0.030000
399.207	10.675	0.030000
404.091	10.559	0.030000
408.975	10.503	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

413.859	10.388	0.030000
418.743	10.376	0.030000
423.627	10.278	0.030000
428.511	10.287	0.030000
433.395	10.341	0.030000
438.279	10.412	0.030000
443.163	10.344	0.030000
448.047	10.312	0.030000
452.931	10.386	0.030000
457.815	10.387	0.030000
462.699	10.379	0.030000
467.584	10.363	0.030000
472.467	10.341	0.030000
477.351	10.314	0.030000
482.236	10.304	0.030000
487.120	10.359	0.030000
492.066	10.180	0.030000
497.013	10.140	0.030000
501.960	10.184	0.030000
506.906	10.151	0.030000
511.853	10.217	0.030000
516.800	10.327	0.030000
521.746	10.448	0.030000
526.693	10.576	0.030000
531.640	10.757	0.030000
536.587	10.571	0.030000
541.533	10.290	0.030000
546.480	10.164	0.030000
551.427	10.072	0.030000
556.373	10.069	0.030000
561.320	10.127	0.030000
565.819	10.119	0.030000
570.319	10.139	0.030000
574.818	10.214	0.030000
579.318	10.180	0.030000
583.817	10.173	0.030000
588.317	10.263	0.030000
592.816	10.305	0.030000
597.316	10.321	0.030000

Name: XH0080D  
Encroachment: No

Group: H

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	11.711	0.030000
4.515	11.715	0.030000
9.030	11.662	0.030000
13.545	11.588	0.030000
18.545	11.461	0.030000
23.545	11.327	0.030000
27.733	11.313	0.030000
31.920	11.306	0.030000
36.108	11.292	0.030000
40.295	11.204	0.030000
44.482	11.237	0.030000
48.670	11.299	0.030000
52.842	11.386	0.030000
57.014	11.534	0.030000
61.185	11.611	0.030000
65.357	11.528	0.030000
69.829	11.545	0.030000
74.302	11.387	0.030000
78.774	11.374	0.030000
83.246	11.480	0.030000
87.718	11.582	0.030000
92.687	11.700	0.030000
97.656	11.796	0.030000
102.625	11.865	0.030000
106.670	11.944	0.030000
110.714	12.030	0.030000
114.759	12.013	0.030000
118.560	12.006	0.030000
122.362	11.973	0.030000
126.164	11.933	0.030000
129.966	11.874	0.030000
134.380	11.765	0.030000
138.795	11.684	0.030000
143.209	11.644	0.030000
147.624	11.589	0.030000
152.053	11.475	0.030000
156.482	11.349	0.030000
161.359	11.292	0.030000
166.236	11.226	0.030000
171.113	11.121	0.030000
175.029	11.342	0.030000
178.944	11.326	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

182.860	11.368	0.030000
186.775	11.365	0.030000
190.942	11.341	0.030000
195.109	11.302	0.030000
199.275	11.275	0.030000
203.773	11.319	0.030000
208.270	11.378	0.030000
212.767	11.440	0.030000
217.265	11.565	0.030000
221.762	11.776	0.030000
226.259	11.962	0.030000
230.768	11.976	0.030000
235.278	11.852	0.030000
239.787	11.839	0.030000
244.297	11.721	0.030000
248.784	11.589	0.030000
253.272	11.613	0.030000
257.303	11.663	0.030000
261.334	11.576	0.030000
265.365	11.514	0.030000
269.396	11.565	0.030000
273.428	11.622	0.030000
277.764	11.656	0.030000
282.101	11.694	0.030000
286.437	11.723	0.030000
290.774	11.718	0.030000
295.110	11.645	0.030000
299.359	11.801	0.030000
303.608	11.932	0.030000
307.858	11.913	0.030000
312.107	11.832	0.030000
316.151	11.836	0.030000
320.196	11.836	0.030000
324.240	11.735	0.030000
327.798	11.576	0.030000
331.355	11.465	0.030000
334.912	11.477	0.030000
338.892	11.537	0.030000
342.872	11.656	0.030000
346.851	11.734	0.030000
350.955	11.622	0.030000
355.058	11.686	0.030000
359.162	11.857	0.030000
364.162	11.916	0.030000
369.162	12.028	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

372.598	12.142	0.030000
376.034	12.288	0.030000
379.470	12.285	0.030000

-----

Name: XH0090A_2	Group: H
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	5.036	0.085000
4.964	3.692	0.085000
9.928	3.081	0.085000
14.892	3.378	0.085000
19.856	3.259	0.085000
24.820	3.053	0.085000
29.784	2.791	0.085000
34.748	3.310	0.085000
39.712	3.482	0.085000
44.676	3.601	0.085000
49.640	3.725	0.085000
54.604	3.880	0.085000
59.568	4.063	0.085000
64.532	3.982	0.085000
69.496	4.068	0.085000
74.460	4.247	0.085000
79.424	4.423	0.085000
84.388	4.207	0.085000
89.352	3.422	0.085000
94.316	3.328	0.085000
99.280	3.467	0.085000
104.244	3.680	0.085000
109.208	3.889	0.085000
114.172	4.216	0.085000
119.136	4.324	0.085000
124.100	4.229	0.085000
129.064	3.941	0.085000
134.028	3.274	0.085000
138.992	3.143	0.085000
143.956	3.361	0.085000
148.920	3.013	0.085000
153.884	1.929	0.085000
158.848	2.599	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

163.812	3.355	0.085000
168.776	3.713	0.085000
173.740	3.276	0.085000
178.704	2.848	0.085000
183.668	2.682	0.085000
188.632	2.877	0.085000
193.596	3.148	0.085000
198.560	3.329	0.085000
203.524	3.398	0.085000
208.488	3.373	0.085000
213.452	3.310	0.085000
218.416	3.458	0.085000
223.380	3.447	0.085000
228.344	3.737	0.085000
233.308	3.799	0.085000
238.272	3.885	0.085000
243.236	4.086	0.085000
248.200	4.303	0.085000
253.164	4.725	0.085000
258.128	4.997	0.085000

Name: XH0091A\_2      Group: H  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	5.060	0.085000
4.740	4.552	0.085000
9.479	3.416	0.085000
14.219	2.165	0.085000
18.959	1.618	0.085000
23.699	1.330	0.085000
28.439	1.330	0.085000
33.178	1.330	0.085000
37.918	1.330	0.085000
42.658	1.330	0.085000
47.398	1.330	0.085000
52.137	1.492	0.085000
56.877	2.504	0.085000

Name: XJ0010A      Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.443	0.030000
4.508	14.524	0.030000
9.017	14.578	0.030000
13.525	14.713	0.030000
18.033	14.742	0.030000
22.542	14.707	0.030000
27.050	14.758	0.030000
31.558	14.877	0.030000
35.978	15.041	0.030000
40.397	15.266	0.030000
44.816	15.615	0.030000
49.236	15.828	0.030000
53.923	15.917	0.030000
58.611	15.921	0.030000
63.298	15.913	0.030000
67.986	15.905	0.030000
72.673	15.896	0.030000
77.361	15.888	0.030000
82.048	15.879	0.030000
86.736	15.871	0.030000
91.338	15.861	0.030000
95.940	15.851	0.030000
100.543	15.841	0.030000
105.145	15.832	0.030000
109.747	15.822	0.030000
114.349	15.812	0.030000
119.194	15.802	0.030000
124.039	15.790	0.030000
128.884	15.723	0.030000
133.729	15.729	0.030000
138.573	15.974	0.030000
143.214	15.995	0.030000
147.855	15.976	0.030000
152.496	15.958	0.030000
157.137	15.946	0.030000
161.778	15.942	0.030000
166.419	15.942	0.030000
171.060	15.946	0.030000
175.701	15.956	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

180.588	15.952	0.030000
185.474	15.948	0.030000
190.360	15.945	0.030000
195.247	15.941	0.030000
200.133	15.938	0.030000
205.019	15.934	0.030000
209.906	15.931	0.030000
214.792	15.931	0.030000
219.678	15.931	0.030000
224.565	15.931	0.030000
229.451	15.931	0.030000
234.338	15.931	0.030000
239.224	15.932	0.030000
244.110	15.930	0.030000
248.997	15.917	0.030000
253.883	15.895	0.030000
258.769	15.877	0.030000
263.656	15.877	0.030000
268.542	15.879	0.030000
273.428	15.867	0.030000
278.315	15.850	0.030000
283.201	15.583	0.030000
288.201	15.605	0.030000
293.201	15.557	0.030000
296.534	15.480	0.030000
299.868	15.463	0.030000
303.201	15.507	0.030000
306.928	15.337	0.030000
310.655	15.303	0.030000
314.381	15.246	0.030000
318.756	15.362	0.030000
323.131	15.387	0.030000
327.506	15.371	0.030000
331.881	15.376	0.030000
335.631	15.357	0.030000
339.381	15.253	0.030000
343.131	15.449	0.030000
347.715	15.515	0.030000
352.298	15.465	0.030000
356.881	15.470	0.030000
360.944	15.498	0.030000
365.006	15.455	0.030000
369.069	15.366	0.030000
373.131	15.287	0.030000
377.819	15.281	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

382.506	15.231	0.030000
387.194	15.244	0.030000
391.881	15.260	0.030000
396.569	15.260	0.030000
401.256	15.331	0.030000
405.944	15.423	0.030000
410.631	15.425	0.030000
415.319	15.274	0.030000
420.006	15.290	0.030000
424.694	15.387	0.030000
429.381	15.408	0.030000
433.932	15.358	0.030000
438.482	15.339	0.030000
443.032	15.289	0.030000
447.582	15.242	0.030000
452.582	15.254	0.030000
457.582	15.228	0.030000
462.269	15.224	0.030000
466.957	15.293	0.030000
471.644	15.300	0.030000
476.332	15.207	0.030000
480.915	15.237	0.030000
485.498	15.268	0.030000
490.082	15.221	0.030000
494.665	15.167	0.030000
499.248	15.175	0.030000
503.832	15.144	0.030000
508.415	15.212	0.030000
512.998	15.163	0.030000
517.582	15.114	0.030000
520.082	15.129	0.030000
522.582	15.147	0.030000
527.582	15.182	0.030000
531.748	15.137	0.030000
535.915	15.061	0.030000
540.082	15.305	0.030000
544.457	15.473	0.030000
548.832	15.322	0.030000
553.207	15.023	0.030000
557.582	14.863	0.030000
560.915	14.846	0.030000
564.248	14.845	0.030000
567.582	14.818	0.030000
571.535	14.824	0.030000
575.487	14.896	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

579.440	14.929	0.030000
583.393	14.917	0.030000
587.837	14.889	0.030000
592.282	14.856	0.030000
596.726	14.841	0.030000
601.171	14.883	0.030000
605.615	14.961	0.030000
610.060	14.833	0.030000
614.504	14.869	0.030000
618.949	14.870	0.030000
623.393	14.910	0.030000
628.393	14.961	0.030000
633.393	14.949	0.030000
638.393	14.917	0.030000
643.393	14.928	0.030000
647.560	14.924	0.030000
651.726	14.854	0.030000
655.893	14.888	0.030000
660.060	14.862	0.030000
664.226	14.937	0.030000
668.393	14.946	0.030000
672.560	14.930	0.030000
676.726	14.945	0.030000
680.893	14.868	0.030000
685.060	14.898	0.030000
689.226	14.920	0.030000
693.393	14.947	0.030000
697.642	14.940	0.030000
701.891	14.913	0.030000
706.141	14.915	0.030000
710.390	14.903	0.030000
714.639	14.836	0.030000
718.888	14.784	0.030000
723.638	14.774	0.030000
728.388	14.787	0.030000
733.138	14.810	0.030000
737.888	14.762	0.030000
742.638	14.863	0.030000
747.388	14.909	0.030000
752.138	14.854	0.030000
756.888	14.863	0.030000
761.638	14.974	0.030000
766.388	14.950	0.030000
771.297	15.003	0.030000
776.205	15.063	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

781.113	14.993	0.030000
786.021	15.016	0.030000
790.930	15.081	0.030000
795.838	15.030	0.030000
800.746	15.010	0.030000
805.654	15.075	0.030000
810.563	15.074	0.030000
815.414	15.100	0.030000
820.265	15.124	0.030000
825.116	15.174	0.030000
829.908	15.199	0.030000
834.700	15.227	0.030000
839.491	15.185	0.030000
844.283	15.132	0.030000
849.075	15.150	0.030000
853.866	15.062	0.030000
858.679	14.974	0.030000
863.491	15.018	0.030000
868.304	14.988	0.030000
873.116	15.085	0.030000
877.929	14.871	0.030000
882.741	14.923	0.030000
887.554	15.024	0.030000
892.366	14.981	0.030000
897.179	14.956	0.030000
901.991	15.008	0.030000
906.804	15.060	0.030000
911.616	15.094	0.030000
916.429	15.064	0.030000
921.241	15.031	0.030000
926.054	15.056	0.030000
930.866	14.992	0.030000
935.679	14.928	0.030000
940.491	14.859	0.030000
945.304	14.744	0.030000
950.116	14.557	0.030000
954.769	14.435	0.030000
959.422	14.382	0.030000
964.075	14.301	0.030000
968.728	14.370	0.030000
973.381	14.492	0.030000
978.034	14.613	0.030000
982.687	14.984	0.030000
987.340	15.465	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XJ0010B      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.443	0.030000
4.956	14.650	0.030000
9.912	14.842	0.030000
14.868	15.051	0.030000
19.824	15.247	0.030000
24.780	15.618	0.030000
29.736	15.635	0.030000
34.692	15.625	0.030000
39.648	15.616	0.030000
44.604	15.607	0.030000
49.560	15.597	0.030000
54.516	15.588	0.030000
59.472	15.579	0.030000
64.428	15.570	0.030000
69.385	15.561	0.030000
74.341	15.552	0.030000
79.296	15.543	0.030000
84.253	15.534	0.030000
89.209	15.607	0.030000
94.165	15.675	0.030000
99.121	15.447	0.030000
104.077	15.279	0.030000
109.033	15.302	0.030000
113.989	15.340	0.030000
118.945	15.306	0.030000
123.901	15.298	0.030000
128.857	15.424	0.030000
133.813	15.410	0.030000
138.769	15.445	0.030000
143.725	15.525	0.030000
148.681	15.612	0.030000
153.637	15.585	0.030000
158.593	15.551	0.030000
163.549	15.578	0.030000
168.505	15.584	0.030000
173.461	15.522	0.030000
178.417	15.464	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

183.373	15.441	0.030000
188.329	15.371	0.030000
193.285	15.239	0.030000
198.241	15.281	0.030000
203.197	15.447	0.030000
208.153	15.548	0.030000
213.109	15.498	0.030000
218.065	15.432	0.030000
223.022	15.557	0.030000
227.977	15.691	0.030000
232.934	15.711	0.030000
237.890	15.706	0.030000
241.616	15.701	0.030000
245.343	15.604	0.030000
249.070	15.396	0.030000
253.499	15.290	0.030000
257.928	15.177	0.030000
262.358	15.244	0.030000
266.787	15.182	0.030000
270.322	15.215	0.030000
273.858	15.227	0.030000
277.393	15.338	0.030000
281.502	15.522	0.030000
285.611	15.549	0.030000
289.720	15.594	0.030000
293.829	15.657	0.030000
297.866	15.685	0.030000
301.903	15.651	0.030000
305.940	15.731	0.030000
310.937	15.732	0.030000
315.933	15.712	0.030000
320.930	15.739	0.030000
325.927	15.767	0.030000
330.924	15.740	0.030000
335.921	15.741	0.030000
340.918	15.764	0.030000
345.915	15.833	0.030000
350.912	15.867	0.030000
355.909	15.870	0.030000
360.906	15.873	0.030000
365.903	15.847	0.030000
370.900	15.837	0.030000
375.897	15.866	0.030000
380.894	15.892	0.030000
385.890	15.866	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

390.887	15.815	0.030000
395.884	15.824	0.030000
400.881	15.802	0.030000
405.878	15.812	0.030000
410.875	15.815	0.030000
415.872	15.848	0.030000
420.869	15.792	0.030000
425.866	15.697	0.030000
430.863	15.668	0.030000
435.860	15.641	0.030000
440.857	15.615	0.030000
445.854	15.634	0.030000
450.850	15.668	0.030000
455.847	15.652	0.030000
460.844	15.637	0.030000
465.841	15.647	0.030000
470.838	15.663	0.030000
475.835	15.630	0.030000
480.832	15.701	0.030000
485.829	15.859	0.030000
490.826	15.889	0.030000
495.823	15.831	0.030000
500.820	15.793	0.030000
505.817	15.758	0.030000
510.814	15.723	0.030000
515.811	15.708	0.030000
520.807	15.775	0.030000
525.804	15.855	0.030000
530.801	15.879	0.030000
535.798	15.880	0.030000
540.795	15.840	0.030000
545.792	15.675	0.030000
550.789	15.574	0.030000
555.786	15.634	0.030000
560.783	15.822	0.030000
565.780	15.834	0.030000
570.777	15.777	0.030000
575.774	15.789	0.030000
580.771	15.687	0.030000
585.768	15.648	0.030000
590.764	15.664	0.030000
595.761	15.653	0.030000
600.758	15.642	0.030000
605.755	15.632	0.030000
610.752	15.617	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

615.749	15.618	0.030000
620.746	15.568	0.030000
625.530	15.411	0.030000
630.314	15.367	0.030000
635.097	15.512	0.030000
639.881	15.594	0.030000
644.665	15.579	0.030000
649.449	15.589	0.030000
654.233	15.633	0.030000
659.017	15.629	0.030000
663.801	15.643	0.030000
668.584	15.561	0.030000
673.368	15.317	0.030000
678.152	15.497	0.030000
682.936	15.416	0.030000
687.720	15.515	0.030000
692.504	15.516	0.030000
697.288	15.597	0.030000
702.071	15.440	0.030000
706.855	15.210	0.030000
711.639	15.319	0.030000
716.423	15.461	0.030000
721.207	15.504	0.030000
725.991	15.429	0.030000
730.774	15.431	0.030000
735.553	15.445	0.030000
740.331	15.331	0.030000
745.109	15.307	0.030000
749.887	15.415	0.030000
754.665	15.463	0.030000
759.443	15.476	0.030000
764.221	15.407	0.030000
769.000	15.320	0.030000
773.778	15.307	0.030000
778.556	15.333	0.030000
783.334	15.387	0.030000
788.112	15.247	0.030000
792.890	15.140	0.030000
797.668	15.140	0.030000
802.446	15.133	0.030000
807.225	15.149	0.030000
812.003	15.158	0.030000
816.781	15.163	0.030000
821.559	15.155	0.030000
826.337	15.169	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

831.115	15.160	0.030000
835.893	15.128	0.030000
840.672	15.161	0.030000
845.450	15.263	0.030000
850.228	15.316	0.030000
855.006	15.286	0.030000
859.784	15.246	0.030000
864.562	15.247	0.030000
869.340	15.062	0.030000
874.118	14.970	0.030000
878.897	15.221	0.030000
883.675	15.257	0.030000
888.453	15.267	0.030000
893.231	15.256	0.030000
898.009	15.313	0.030000
902.787	15.376	0.030000
907.565	15.371	0.030000
912.343	15.361	0.030000
917.122	15.365	0.030000
921.900	15.412	0.030000
926.678	15.379	0.030000
931.456	15.354	0.030000
936.234	15.406	0.030000
941.012	15.428	0.030000
945.457	15.360	0.030000
949.902	15.323	0.030000
954.347	15.374	0.030000
958.792	15.465	0.030000

-----

Name: XJ0020A	Group: J
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	13.464	0.030000
4.733	13.401	0.030000
9.466	13.239	0.030000
14.199	13.076	0.030000
18.932	12.914	0.030000
23.665	12.764	0.030000
28.398	12.629	0.030000
33.131	12.893	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

37.864	13.235	0.030000
42.597	13.377	0.030000
47.330	13.568	0.030000
52.063	13.998	0.030000
56.796	14.325	0.030000
61.529	14.505	0.030000
66.262	14.401	0.030000
71.262	13.993	0.030000
76.262	14.023	0.030000
81.262	14.541	0.030000
83.762	14.807	0.030000
86.262	14.943	0.030000
91.262	15.097	0.030000
93.762	15.116	0.030000
96.262	15.042	0.030000
101.262	14.900	0.030000
106.262	14.566	0.030000
111.152	14.263	0.030000
116.042	14.165	0.030000
120.932	14.130	0.030000
125.822	14.141	0.030000
130.713	14.300	0.030000
135.603	14.805	0.030000
140.493	15.101	0.030000
145.383	15.338	0.030000
150.273	15.780	0.030000
155.163	15.756	0.030000
160.054	15.596	0.030000
164.944	15.658	0.030000
169.834	15.813	0.030000
174.724	15.599	0.030000
179.614	15.313	0.030000
184.504	15.240	0.030000
189.394	15.194	0.030000
194.285	15.084	0.030000
199.175	15.068	0.030000
204.065	15.156	0.030000
208.955	15.389	0.030000
213.845	15.398	0.030000
218.735	15.287	0.030000
223.625	15.524	0.030000
228.516	15.540	0.030000
233.406	15.572	0.030000
238.296	15.427	0.030000
243.186	15.303	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

248.076	15.465	0.030000
252.966	15.497	0.030000
257.856	15.799	0.030000
262.747	16.025	0.030000
267.637	16.045	0.030000
272.527	15.754	0.030000
277.417	15.411	0.030000
282.307	15.350	0.030000
287.197	15.361	0.030000
292.087	15.135	0.030000
296.978	15.098	0.030000
301.868	15.248	0.030000
306.758	15.400	0.030000
311.648	15.556	0.030000
316.538	15.584	0.030000
321.428	16.027	0.030000
326.319	16.889	0.030000
331.259	16.882	0.030000
336.200	16.157	0.030000
341.140	15.692	0.030000
346.081	15.446	0.030000
351.021	15.178	0.030000
355.962	14.982	0.030000
360.902	15.055	0.030000
365.843	15.127	0.030000
370.783	15.216	0.030000
375.724	15.362	0.030000
380.664	15.515	0.030000
385.605	15.598	0.030000
390.546	15.656	0.030000
395.486	15.713	0.030000
400.426	15.768	0.030000
405.367	15.801	0.030000
410.308	15.795	0.030000
415.248	15.822	0.030000
420.189	15.805	0.030000
425.129	15.878	0.030000
430.070	15.936	0.030000
435.010	16.078	0.030000
439.951	16.157	0.030000
444.891	16.192	0.030000
449.832	16.239	0.030000
454.772	16.199	0.030000
459.713	16.093	0.030000
464.653	15.963	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

469.594	15.935	0.030000
474.534	16.008	0.030000
479.475	16.038	0.030000
484.416	15.955	0.030000
489.356	16.031	0.030000
494.297	16.135	0.030000
499.237	16.007	0.030000
504.178	16.043	0.030000
509.118	15.966	0.030000
514.059	16.060	0.030000
518.999	15.755	0.030000
523.940	15.901	0.030000
528.880	15.926	0.030000
533.255	15.901	0.030000
537.630	15.779	0.030000
542.005	15.662	0.030000
546.380	15.554	0.030000
551.078	15.625	0.030000
555.775	15.695	0.030000
560.473	15.530	0.030000
565.170	15.498	0.030000
569.868	15.575	0.030000
574.565	15.384	0.030000
579.263	15.304	0.030000
583.429	15.398	0.030000
587.596	15.351	0.030000
591.763	15.269	0.030000
596.048	15.192	0.030000
600.334	15.109	0.030000
604.620	15.022	0.030000
608.905	15.303	0.030000
613.191	15.303	0.030000
617.477	15.297	0.030000
621.763	15.337	0.030000
626.590	15.429	0.030000
631.418	15.454	0.030000
636.245	15.355	0.030000
641.073	15.304	0.030000
645.901	15.355	0.030000
650.728	15.340	0.030000
655.556	15.267	0.030000
660.383	15.210	0.030000
665.211	15.188	0.030000
670.039	15.109	0.030000
674.866	14.942	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

679.694	15.027	0.030000
684.521	14.974	0.030000
689.349	14.954	0.030000
694.177	14.978	0.030000
699.004	14.842	0.030000
703.832	14.822	0.030000
708.659	14.764	0.030000
713.487	14.851	0.030000
718.314	14.815	0.030000
723.142	14.811	0.030000
727.970	14.760	0.030000
732.797	14.743	0.030000
737.625	14.807	0.030000
742.452	14.891	0.030000
747.280	14.884	0.030000
752.107	14.843	0.030000
756.935	14.846	0.030000
761.763	14.922	0.030000
765.490	14.945	0.030000
769.216	14.831	0.030000
772.943	15.020	0.030000
777.693	15.102	0.030000
782.443	15.010	0.030000
787.193	15.245	0.030000
791.943	15.306	0.030000
796.693	15.321	0.030000
801.425	15.194	0.030000
806.157	15.078	0.030000
810.890	15.269	0.030000
815.622	15.089	0.030000
820.354	14.946	0.030000
825.086	15.025	0.030000
829.818	14.971	0.030000
834.550	14.990	0.030000
839.282	14.999	0.030000
844.015	15.049	0.030000
848.747	14.991	0.030000
853.479	14.970	0.030000
858.211	15.071	0.030000
862.943	15.109	0.030000
867.839	14.989	0.030000
872.735	14.905	0.030000
877.630	14.994	0.030000
882.526	15.006	0.030000
887.422	14.930	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

892.318	15.073	0.030000
897.214	15.072	0.030000
902.110	14.849	0.030000
907.005	14.852	0.030000
911.901	14.819	0.030000
916.797	14.903	0.030000
921.693	14.929	0.030000
926.589	15.009	0.030000
931.485	15.023	0.030000
936.380	15.004	0.030000
941.276	15.009	0.030000
946.172	15.046	0.030000
951.068	15.089	0.030000
955.964	15.062	0.030000
960.860	15.049	0.030000
965.755	15.082	0.030000
970.651	15.145	0.030000
975.547	15.488	0.030000
980.443	15.354	0.030000
985.435	15.163	0.030000
990.427	15.124	0.030000
995.419	15.056	0.030000
1000.412	15.092	0.030000
1005.404	15.186	0.030000
1010.396	15.009	0.030000
1015.388	14.986	0.030000
1020.380	15.057	0.030000
1025.372	15.014	0.030000
1030.364	14.960	0.030000
1035.357	15.005	0.030000
1040.349	14.955	0.030000
1045.341	14.977	0.030000
1050.333	15.051	0.030000
1055.325	15.119	0.030000
1060.317	15.047	0.030000
1065.310	15.125	0.030000
1070.302	15.012	0.030000
1075.294	15.012	0.030000
1080.286	15.079	0.030000
1085.278	15.237	0.030000
1090.270	15.203	0.030000
1095.262	15.111	0.030000

-----  
Name: XJ0020B

Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.152	0.030000
4.898	15.128	0.030000
9.797	15.157	0.030000
14.695	15.092	0.030000
19.594	15.170	0.030000
24.492	15.089	0.030000
29.390	15.113	0.030000
34.289	15.030	0.030000
39.187	14.980	0.030000
44.086	15.033	0.030000
48.984	15.065	0.030000
53.882	15.043	0.030000
58.781	14.973	0.030000
63.679	14.966	0.030000
68.578	15.052	0.030000
73.476	15.082	0.030000
78.374	15.013	0.030000
83.273	14.994	0.030000
88.171	14.984	0.030000
93.070	14.853	0.030000
97.968	14.766	0.030000
102.866	14.760	0.030000
107.765	14.879	0.030000
112.663	15.208	0.030000
117.562	15.363	0.030000
122.460	15.449	0.030000
127.358	15.652	0.030000
132.257	15.342	0.030000
137.155	15.346	0.030000
142.054	15.370	0.030000
146.952	15.394	0.030000
151.850	15.354	0.030000
156.749	15.360	0.030000
161.647	15.348	0.030000
166.546	15.300	0.030000
171.444	15.229	0.030000
176.342	15.154	0.030000
181.241	15.310	0.030000
186.139	15.273	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

191.038	14.977	0.030000
195.936	15.071	0.030000
200.772	14.867	0.030000
205.608	14.829	0.030000
210.444	14.706	0.030000
215.280	14.616	0.030000
220.116	14.753	0.030000
224.952	14.853	0.030000
229.787	14.901	0.030000
234.623	14.886	0.030000
239.459	14.810	0.030000
244.295	14.877	0.030000
249.131	14.854	0.030000
253.967	14.801	0.030000
258.803	14.685	0.030000
263.639	14.811	0.030000
268.475	14.823	0.030000
273.311	14.832	0.030000
278.147	14.925	0.030000
282.983	14.915	0.030000
287.818	14.911	0.030000
292.654	14.912	0.030000
297.490	14.841	0.030000
302.326	14.931	0.030000
307.162	15.109	0.030000
311.998	15.024	0.030000
316.834	15.101	0.030000
321.670	14.700	0.030000
326.506	14.409	0.030000
331.008	14.882	0.030000
335.510	15.074	0.030000
340.013	15.100	0.030000
344.515	15.159	0.030000
349.017	15.291	0.030000
353.520	15.262	0.030000
358.022	15.278	0.030000
362.524	15.286	0.030000
367.027	15.198	0.030000
371.818	15.207	0.030000
376.610	15.254	0.030000
381.402	15.261	0.030000
386.193	15.292	0.030000
390.985	15.233	0.030000
395.777	15.013	0.030000
400.584	14.656	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

405.392	14.402	0.030000
410.200	14.414	0.030000
415.008	14.475	0.030000
419.815	14.536	0.030000
424.623	14.614	0.030000
429.431	14.731	0.030000
434.238	14.830	0.030000
439.046	14.935	0.030000
443.854	15.037	0.030000
448.661	15.048	0.030000
453.469	14.925	0.030000
458.277	14.986	0.030000
463.227	15.035	0.030000
468.177	15.093	0.030000
473.127	15.166	0.030000
478.077	15.108	0.030000
483.027	15.018	0.030000
487.977	14.720	0.030000
492.927	14.437	0.030000
497.877	14.613	0.030000
502.827	14.863	0.030000
507.777	14.762	0.030000
512.727	14.380	0.030000
517.677	14.241	0.030000
522.627	14.222	0.030000
527.577	14.213	0.030000
532.527	14.339	0.030000
537.477	13.950	0.030000
542.427	13.861	0.030000
547.377	13.991	0.030000
552.327	14.087	0.030000
557.277	14.165	0.030000
562.227	14.380	0.030000
567.177	14.389	0.030000
572.127	14.444	0.030000
577.077	14.551	0.030000
582.027	14.578	0.030000
586.977	14.562	0.030000
591.927	14.456	0.030000
596.877	14.204	0.030000
601.827	14.117	0.030000
606.777	14.317	0.030000
611.727	14.481	0.030000
616.677	14.460	0.030000
621.627	14.393	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

626.577	14.331	0.030000
631.527	14.268	0.030000
636.477	14.271	0.030000
641.427	14.368	0.030000
646.377	14.638	0.030000
651.327	14.807	0.030000
656.277	14.918	0.030000
661.227	14.900	0.030000
666.177	14.825	0.030000
671.127	14.740	0.030000
676.077	14.609	0.030000
681.027	14.472	0.030000
685.977	14.144	0.030000
690.927	13.766	0.030000
695.877	13.748	0.030000
700.827	13.969	0.030000
705.777	14.039	0.030000
709.527	13.979	0.030000
713.277	13.920	0.030000
717.027	13.860	0.030000
720.777	13.801	0.030000
724.777	13.734	0.030000
728.777	13.636	0.030000
732.777	13.360	0.030000
736.777	13.128	0.030000
740.777	13.296	0.030000
743.277	13.548	0.030000
745.777	13.699	0.030000
750.777	13.836	0.030000
755.777	13.807	0.030000
760.777	13.779	0.030000
763.277	13.764	0.030000
765.777	13.750	0.030000
770.777	13.721	0.030000
775.777	13.693	0.030000
780.420	13.630	0.030000
785.063	13.509	0.030000
789.705	13.361	0.030000
794.348	13.212	0.030000
798.991	13.063	0.030000
803.634	12.914	0.030000
808.277	12.765	0.030000
812.920	12.616	0.030000
817.563	12.467	0.030000
822.205	12.318	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

826.848	12.169	0.030000
831.491	12.385	0.030000
836.134	12.878	0.030000
840.777	13.441	0.030000
845.152	13.801	0.030000
849.527	13.901	0.030000
853.902	13.919	0.030000
858.277	13.907	0.030000
862.652	13.519	0.030000
867.027	13.368	0.030000
871.402	13.530	0.030000
875.777	13.696	0.030000
880.640	13.795	0.030000
885.503	14.014	0.030000
890.366	14.183	0.030000
895.229	14.121	0.030000
900.092	14.049	0.030000
904.955	13.974	0.030000
909.818	13.891	0.030000
914.682	13.734	0.030000
919.545	13.464	0.030000

Name: XJ0030B                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	11.547	0.030000
4.772	11.259	0.030000
9.545	11.137	0.030000
14.317	11.082	0.030000
19.089	11.260	0.030000
23.861	11.294	0.030000
28.634	11.335	0.030000
33.406	11.251	0.030000
38.178	11.207	0.030000
42.951	11.195	0.030000
47.723	11.139	0.030000
52.495	11.113	0.030000
56.558	11.045	0.030000
60.620	10.897	0.030000
64.683	10.897	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

68.745	10.785	0.030000
73.329	10.765	0.030000
77.912	10.858	0.030000
82.495	10.889	0.030000
86.558	10.823	0.030000
90.620	10.753	0.030000
94.683	10.815	0.030000
98.745	10.814	0.030000
103.245	10.893	0.030000
107.745	10.946	0.030000
112.245	11.049	0.030000
116.745	11.164	0.030000
121.245	11.116	0.030000
126.205	11.005	0.030000
131.165	11.067	0.030000
136.125	11.169	0.030000
141.085	11.147	0.030000
146.045	11.129	0.030000
151.005	11.187	0.030000
155.964	11.287	0.030000
160.924	11.097	0.030000
165.884	11.101	0.030000
170.844	11.073	0.030000
175.804	11.163	0.030000
180.764	11.170	0.030000
185.724	11.082	0.030000
190.684	10.890	0.030000
195.644	10.903	0.030000
200.603	10.917	0.030000
205.563	10.939	0.030000
210.523	11.029	0.030000
215.483	11.057	0.030000
220.443	10.948	0.030000
225.403	10.788	0.030000
230.363	10.858	0.030000
235.323	10.797	0.030000
240.283	10.964	0.030000
245.243	11.168	0.030000
250.202	11.196	0.030000
255.162	11.018	0.030000
260.122	11.092	0.030000
265.082	11.118	0.030000
269.457	10.957	0.030000
273.832	10.872	0.030000
278.207	10.895	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

282.582	11.037	0.030000
286.309	11.180	0.030000
290.036	11.268	0.030000
293.762	11.334	0.030000
297.512	11.313	0.030000
301.262	11.206	0.030000
305.012	11.058	0.030000
308.762	11.049	0.030000
313.346	11.063	0.030000
317.929	11.049	0.030000
322.512	11.127	0.030000
327.278	11.226	0.030000
332.044	11.247	0.030000
336.809	11.304	0.030000
341.575	11.195	0.030000
346.341	11.126	0.030000
351.106	11.217	0.030000
355.872	11.281	0.030000
360.637	11.308	0.030000
365.403	11.227	0.030000
370.169	11.306	0.030000
374.934	11.408	0.030000
379.700	11.534	0.030000
384.466	11.493	0.030000
389.231	11.357	0.030000
393.997	11.239	0.030000
398.762	11.359	0.030000
403.762	11.500	0.030000
408.762	11.496	0.030000
411.262	11.521	0.030000
413.762	11.532	0.030000
418.762	11.527	0.030000
421.262	11.511	0.030000
423.762	11.538	0.030000
428.762	11.669	0.030000
432.096	11.795	0.030000
435.429	11.876	0.030000
438.762	11.920	0.030000
442.096	11.941	0.030000
445.429	11.932	0.030000
448.762	11.972	0.030000
453.250	12.032	0.030000
457.738	12.011	0.030000
462.225	12.037	0.030000
467.225	11.988	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

472.225	11.997	0.030000
477.225	12.030	0.030000
482.225	12.172	0.030000
487.225	12.281	0.030000
492.225	12.214	0.030000
497.225	12.287	0.030000
502.225	12.245	0.030000
504.725	12.285	0.030000
507.225	12.325	0.030000
511.690	12.372	0.030000
516.154	12.460	0.030000
520.618	12.480	0.030000
525.082	12.499	0.030000
529.547	12.447	0.030000
534.011	12.387	0.030000
538.475	12.464	0.030000
542.725	12.614	0.030000
546.975	12.772	0.030000
551.225	12.753	0.030000
555.475	12.778	0.030000
559.725	12.855	0.030000
564.725	12.913	0.030000
569.725	12.960	0.030000
572.225	13.009	0.030000
574.725	13.031	0.030000
579.725	13.057	0.030000
584.725	13.069	0.030000
589.725	13.102	0.030000
592.225	13.128	0.030000
594.725	13.074	0.030000
599.725	13.152	0.030000
604.725	13.235	0.030000
607.225	13.185	0.030000
609.725	13.121	0.030000
614.576	13.047	0.030000
619.427	13.149	0.030000
624.278	13.307	0.030000
629.129	13.324	0.030000
633.980	13.260	0.030000
638.830	13.151	0.030000
643.681	13.135	0.030000
648.532	13.204	0.030000
653.383	13.078	0.030000
658.234	13.019	0.030000
663.085	13.077	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

667.936	13.016	0.030000
672.786	13.011	0.030000
677.637	13.117	0.030000
682.488	13.162	0.030000
687.339	13.239	0.030000
692.190	13.118	0.030000
697.041	13.034	0.030000
701.891	13.131	0.030000
706.742	13.116	0.030000
711.593	13.167	0.030000
716.444	13.123	0.030000
721.295	13.112	0.030000
726.146	13.142	0.030000
730.997	13.152	0.030000
735.847	13.223	0.030000
740.698	13.268	0.030000
745.549	13.248	0.030000
750.400	13.229	0.030000
755.251	13.290	0.030000
760.102	13.294	0.030000
764.953	13.188	0.030000
769.803	13.190	0.030000
774.654	13.261	0.030000
779.505	13.309	0.030000
784.356	13.426	0.030000
789.207	13.404	0.030000
794.058	13.283	0.030000
798.909	13.358	0.030000
803.759	13.504	0.030000
808.610	13.344	0.030000
813.461	13.270	0.030000
818.312	13.459	0.030000
823.163	13.344	0.030000
828.014	13.315	0.030000
832.865	13.370	0.030000
837.715	13.371	0.030000
842.566	13.261	0.030000
847.417	13.195	0.030000
852.268	13.222	0.030000
857.119	13.281	0.030000
861.970	13.269	0.030000
866.821	13.279	0.030000
871.671	13.207	0.030000
876.522	13.353	0.030000
881.373	13.349	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

886.224	13.375	0.030000
891.075	13.411	0.030000
895.926	13.353	0.030000
900.776	13.382	0.030000
905.627	13.392	0.030000
910.478	13.364	0.030000
915.329	13.406	0.030000
920.180	13.417	0.030000
925.031	13.385	0.030000
929.881	13.362	0.030000
934.645	13.447	0.030000
939.408	13.658	0.030000
944.172	13.729	0.030000
948.935	13.593	0.030000
953.698	13.593	0.030000
958.462	13.674	0.030000
963.225	13.646	0.030000
967.989	13.587	0.030000
972.752	13.670	0.030000
977.515	13.701	0.030000
982.279	13.559	0.030000
987.042	13.644	0.030000
991.806	13.753	0.030000
996.569	13.878	0.030000
1001.332	13.889	0.030000
1006.096	13.799	0.030000
1010.859	13.832	0.030000
1015.623	13.844	0.030000
1020.386	13.874	0.030000
1025.149	13.957	0.030000
1029.913	13.925	0.030000
1033.944	14.108	0.030000
1037.975	14.261	0.030000
1042.006	14.382	0.030000
1046.037	14.501	0.030000
1050.068	14.648	0.030000
1053.402	14.785	0.030000
1056.735	14.914	0.030000
1060.068	14.973	0.030000
1063.818	15.020	0.030000
1067.568	15.078	0.030000
1071.318	15.129	0.030000
1075.068	15.098	0.030000
1079.131	15.114	0.030000
1083.193	15.253	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1087.256	15.267	0.030000
1091.318	15.354	0.030000
1095.381	15.428	0.030000
1099.443	15.423	0.030000
1103.506	15.381	0.030000
1107.568	15.481	0.030000
1112.568	15.477	0.030000
1117.568	15.759	0.030000
1122.568	15.727	0.030000
1125.902	15.700	0.030000
1129.235	15.696	0.030000
1132.568	15.715	0.030000
1136.943	15.691	0.030000
1141.318	15.676	0.030000
1145.693	15.666	0.030000
1150.068	15.710	0.030000
1154.711	15.770	0.030000
1159.354	15.717	0.030000
1163.997	15.608	0.030000
1168.640	15.660	0.030000
1173.283	15.701	0.030000
1177.926	15.775	0.030000
1182.568	15.919	0.030000
1187.568	16.067	0.030000
1192.568	16.474	0.030000
1197.568	16.363	0.030000
1202.568	16.331	0.030000
1205.068	16.263	0.030000
1207.568	16.194	0.030000
1212.568	16.044	0.030000
1217.568	16.633	0.030000
1222.568	17.221	0.030000
1227.568	17.105	0.030000
1231.943	17.087	0.030000
1236.318	16.689	0.030000
1240.693	16.464	0.030000
1245.068	16.513	0.030000
1250.068	16.612	0.030000
1255.068	16.678	0.030000
1259.841	16.610	0.030000
1264.614	16.185	0.030000
1269.387	15.845	0.030000
1274.159	15.969	0.030000
1278.932	16.198	0.030000
1283.705	16.400	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1288.478	16.440	0.030000
1293.250	16.397	0.030000
1298.023	16.288	0.030000
1302.796	16.117	0.030000
1307.568	15.946	0.030000
1312.013	15.983	0.030000
1316.457	16.386	0.030000
1320.902	16.710	0.030000
1325.346	16.601	0.030000
1329.791	16.426	0.030000
1334.235	16.424	0.030000
1338.680	16.462	0.030000
1343.124	16.550	0.030000
1347.568	16.363	0.030000
1352.568	15.961	0.030000
1355.068	16.177	0.030000
1357.568	16.393	0.030000
1362.568	16.266	0.030000
1367.437	16.391	0.030000
1372.305	16.219	0.030000
1377.174	16.333	0.030000
1382.042	16.465	0.030000
1386.911	16.189	0.030000
1391.779	15.869	0.030000
1396.647	15.670	0.030000
1401.516	15.663	0.030000
1406.384	15.676	0.030000
1411.253	15.664	0.030000
1416.121	15.661	0.030000
1420.989	15.553	0.030000
1425.858	15.421	0.030000
1430.726	15.262	0.030000
1435.595	15.157	0.030000
1440.463	15.298	0.030000
1445.332	15.531	0.030000
1450.200	15.819	0.030000
1455.068	16.125	0.030000
1459.698	16.156	0.030000
1464.328	15.852	0.030000
1468.958	15.441	0.030000
1473.588	15.180	0.030000
1478.218	15.116	0.030000
1482.848	15.111	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XJ0030D      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	7.600	0.030000
4.844	7.600	0.030000
9.688	7.600	0.030000
14.532	7.600	0.030000
19.376	7.600	0.030000
24.220	7.600	0.030000
29.064	7.600	0.030000
33.908	7.600	0.030000
190.840	7.600	0.030000
195.423	7.600	0.030000
200.007	7.600	0.030000
204.590	7.600	0.030000
316.872	7.600	0.030000
321.632	7.600	0.030000
326.392	7.600	0.030000
331.152	7.600	0.030000
387.151	7.600	0.030000
390.878	7.600	0.030000
394.604	7.600	0.030000
398.331	7.600	0.030000
405.785	7.600	0.030000
420.692	7.600	0.030000
437.462	7.600	0.030000
459.399	7.600	0.030000

Name: XJ0040B      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.308	0.030000
4.108	15.379	0.030000
8.216	14.928	0.030000
12.324	14.329	0.030000
16.433	13.802	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

21.220	13.288	0.030000
26.008	12.887	0.030000
30.795	12.548	0.030000
35.583	12.291	0.030000
40.370	12.117	0.030000
45.158	12.060	0.030000
49.945	11.909	0.030000
54.733	11.869	0.030000
59.520	12.115	0.030000
64.308	12.303	0.030000
69.096	12.502	0.030000
73.883	12.716	0.030000
78.671	12.830	0.030000
83.458	13.260	0.030000
88.246	13.623	0.030000
93.033	13.749	0.030000
97.821	13.936	0.030000
102.608	13.915	0.030000
107.396	13.795	0.030000
112.183	13.763	0.030000
116.971	13.817	0.030000
121.759	13.767	0.030000
126.546	13.826	0.030000
131.543	13.883	0.030000
136.540	13.778	0.030000
141.537	13.712	0.030000
146.534	13.509	0.030000
151.531	13.218	0.030000
156.528	12.998	0.030000
161.525	12.756	0.030000
166.522	12.423	0.030000
171.519	12.117	0.030000
176.516	11.985	0.030000
181.513	12.023	0.030000
186.510	12.173	0.030000
191.507	12.280	0.030000
196.504	12.391	0.030000
201.501	12.528	0.030000
206.498	12.496	0.030000
211.495	12.330	0.030000
216.492	12.176	0.030000
221.489	12.183	0.030000
226.486	12.246	0.030000
231.483	12.363	0.030000
236.480	12.568	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

241.477	12.611	0.030000
246.474	12.394	0.030000
251.471	12.219	0.030000
256.468	12.423	0.030000
261.466	12.667	0.030000
266.462	12.656	0.030000
271.230	13.613	0.030000
275.997	13.930	0.030000
280.765	13.972	0.030000
285.532	14.129	0.030000
290.300	14.367	0.030000
295.067	14.611	0.030000
299.834	14.892	0.030000
304.602	15.350	0.030000
309.369	15.947	0.030000
314.137	15.882	0.030000
318.904	16.186	0.030000
323.671	15.993	0.030000
328.439	15.737	0.030000
333.206	15.498	0.030000
337.788	15.580	0.030000
342.370	15.502	0.030000
346.952	15.503	0.030000
351.534	15.508	0.030000
356.115	15.393	0.030000
360.697	15.422	0.030000
365.279	15.522	0.030000
369.861	15.543	0.030000
374.443	15.527	0.030000
379.024	15.371	0.030000
383.786	15.211	0.030000
388.548	15.190	0.030000
393.310	15.234	0.030000
398.072	15.381	0.030000
402.834	15.359	0.030000
407.596	15.422	0.030000
412.357	15.554	0.030000
417.119	15.489	0.030000
421.881	15.427	0.030000
426.643	15.382	0.030000
431.405	15.226	0.030000
436.167	15.002	0.030000
440.929	14.758	0.030000
445.049	14.703	0.030000
449.170	14.639	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

453.291	14.581	0.030000
457.412	14.699	0.030000
461.533	14.826	0.030000
464.033	14.885	0.030000
466.533	15.038	0.030000
471.533	15.265	0.030000
476.533	15.431	0.030000
479.033	15.522	0.030000
481.533	15.560	0.030000
486.533	15.610	0.030000
491.533	15.667	0.030000
494.033	15.713	0.030000
496.533	15.718	0.030000
501.533	15.497	0.030000
506.533	15.344	0.030000
511.533	15.383	0.030000
516.533	15.509	0.030000
519.033	15.668	0.030000
521.533	15.723	0.030000
526.533	15.739	0.030000
531.533	15.789	0.030000
534.033	15.878	0.030000
536.533	15.908	0.030000
541.533	15.758	0.030000
546.533	15.724	0.030000
549.033	15.869	0.030000
551.533	15.905	0.030000
556.533	15.978	0.030000
561.533	16.112	0.030000
564.033	16.209	0.030000
566.533	16.116	0.030000
571.533	15.910	0.030000
576.533	15.877	0.030000
579.033	15.957	0.030000
581.533	16.149	0.030000
586.533	16.133	0.030000
591.533	16.044	0.030000
596.533	16.106	0.030000
601.533	15.986	0.030000
604.033	15.922	0.030000
606.533	15.810	0.030000
611.533	15.863	0.030000
616.533	15.941	0.030000
619.033	15.853	0.030000
621.533	15.932	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

626.533	16.047	0.030000
631.533	15.898	0.030000
635.486	15.694	0.030000
639.438	15.486	0.030000
643.391	15.417	0.030000
647.344	15.217	0.030000
652.203	15.075	0.030000
657.062	15.118	0.030000
661.921	15.075	0.030000
666.428	15.279	0.030000
670.935	15.531	0.030000
675.442	15.676	0.030000
679.949	15.306	0.030000
684.079	15.244	0.030000
688.208	15.096	0.030000
692.337	14.862	0.030000
696.767	14.822	0.030000
701.196	14.841	0.030000
705.241	14.899	0.030000
709.286	14.978	0.030000
713.331	15.036	0.030000
717.376	15.143	0.030000
721.724	15.466	0.030000
726.072	15.517	0.030000
730.420	15.334	0.030000
734.147	15.107	0.030000
737.874	15.149	0.030000
741.601	15.311	0.030000
745.327	15.283	0.030000
749.054	15.230	0.030000
752.781	15.390	0.030000
756.508	15.461	0.030000
760.234	15.424	0.030000
763.961	15.272	0.030000
768.676	15.298	0.030000
773.391	15.500	0.030000
778.106	15.793	0.030000
782.821	16.010	0.030000
787.537	16.026	0.030000
792.251	16.127	0.030000
796.967	16.031	0.030000
801.682	15.727	0.030000
806.397	15.708	0.030000
811.112	15.649	0.030000
815.827	15.862	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

820.542	15.965	0.030000
825.257	16.051	0.030000
829.972	16.062	0.030000
834.687	16.028	0.030000
839.402	15.782	0.030000
844.117	15.799	0.030000
848.747	15.972	0.030000
853.377	15.937	0.030000
858.007	15.984	0.030000
862.637	16.004	0.030000
867.267	15.970	0.030000
871.897	15.960	0.030000
876.527	15.474	0.030000
881.157	15.544	0.030000
885.787	15.576	0.030000
890.417	15.755	0.030000
895.047	15.928	0.030000
899.677	15.956	0.030000
904.307	15.845	0.030000

Name: XJ0040C      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.078	0.030000
3.983	14.934	0.030000
8.836	14.723	0.030000
13.688	14.543	0.030000
18.541	14.430	0.030000
23.394	14.137	0.030000
28.247	14.141	0.030000
33.100	14.359	0.030000
37.953	14.493	0.030000
42.806	14.732	0.030000
47.659	15.030	0.030000
52.512	14.774	0.030000
57.365	14.851	0.030000
62.218	14.318	0.030000
67.071	14.287	0.030000
71.924	14.549	0.030000
76.777	14.764	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

81.630	14.956	0.030000
86.483	14.839	0.030000
91.336	14.571	0.030000
96.189	14.440	0.030000
101.042	14.275	0.030000
105.894	14.153	0.030000
110.747	14.081	0.030000
115.600	13.929	0.030000
120.453	13.817	0.030000
125.306	13.846	0.030000
130.159	14.012	0.030000
135.012	14.308	0.030000
139.357	14.483	0.030000
143.702	14.507	0.030000
148.047	14.488	0.030000
152.391	14.434	0.030000
156.736	14.310	0.030000
161.081	14.221	0.030000
165.426	14.255	0.030000
169.771	14.331	0.030000
174.116	14.321	0.030000
178.460	14.269	0.030000
182.805	14.504	0.030000
187.150	14.492	0.030000
191.495	14.410	0.030000
195.840	14.411	0.030000
200.632	14.575	0.030000
205.425	14.754	0.030000
210.218	14.839	0.030000
215.011	14.817	0.030000
219.804	14.560	0.030000
224.596	13.879	0.030000
229.389	13.407	0.030000
234.182	13.602	0.030000
238.975	14.227	0.030000
243.768	14.683	0.030000
248.560	14.816	0.030000
253.353	15.175	0.030000
258.146	15.182	0.030000
262.939	15.047	0.030000
267.732	14.735	0.030000
272.524	14.668	0.030000
277.317	14.835	0.030000
282.110	15.050	0.030000
286.903	14.988	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

291.696	14.853	0.030000
296.488	14.722	0.030000
301.281	14.439	0.030000
306.074	14.142	0.030000
310.867	14.039	0.030000
315.251	13.956	0.030000
319.635	14.004	0.030000
324.020	14.259	0.030000
328.404	14.629	0.030000
332.788	14.781	0.030000
337.710	14.723	0.030000
342.631	14.838	0.030000
347.552	14.797	0.030000
352.474	14.713	0.030000
357.395	14.801	0.030000
362.316	14.916	0.030000
367.237	14.753	0.030000
372.159	14.773	0.030000
377.080	14.711	0.030000
382.001	14.727	0.030000
386.922	14.651	0.030000
391.844	14.765	0.030000
396.765	14.761	0.030000
401.686	14.868	0.030000

Name: XJ0060B                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.127	0.030000
4.925	14.963	0.030000
9.850	14.985	0.030000
14.775	14.934	0.030000
19.700	14.714	0.030000
24.625	14.627	0.030000
29.550	14.726	0.030000
34.475	14.795	0.030000
39.400	14.784	0.030000
44.325	14.932	0.030000
49.249	15.216	0.030000
54.175	15.255	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

59.099	15.068	0.030000
64.024	14.984	0.030000
68.949	14.937	0.030000
73.874	14.854	0.030000
78.799	14.807	0.030000
83.724	14.627	0.030000
88.649	14.576	0.030000
93.574	14.516	0.030000
98.499	14.555	0.030000
103.424	14.602	0.030000
108.349	14.561	0.030000
113.274	14.617	0.030000
118.199	14.564	0.030000
123.124	14.531	0.030000
128.049	14.574	0.030000
132.974	14.528	0.030000
137.899	14.639	0.030000
142.824	14.524	0.030000
147.749	14.503	0.030000
152.673	14.474	0.030000
157.599	14.546	0.030000
162.523	14.563	0.030000
167.448	14.539	0.030000
172.373	14.554	0.030000
177.298	14.656	0.030000
182.223	14.756	0.030000
187.148	14.579	0.030000
192.073	14.556	0.030000
196.998	14.632	0.030000
201.923	14.379	0.030000
206.848	14.360	0.030000
211.773	14.374	0.030000
216.698	14.397	0.030000
221.623	14.504	0.030000
226.548	14.862	0.030000
231.473	15.098	0.030000
236.398	15.357	0.030000
241.323	15.635	0.030000
246.248	16.007	0.030000
251.173	16.129	0.030000
255.521	15.703	0.030000
259.868	15.352	0.030000
264.216	15.218	0.030000
267.752	15.191	0.030000
271.287	15.225	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

274.823	15.230	0.030000
278.932	15.227	0.030000
283.041	15.242	0.030000
287.150	15.240	0.030000
291.259	15.319	0.030000
294.816	15.370	0.030000
298.373	15.545	0.030000
301.931	15.745	0.030000
305.975	15.403	0.030000
310.020	15.308	0.030000
314.064	15.214	0.030000
317.397	15.122	0.030000
320.731	15.105	0.030000
324.064	15.098	0.030000

Name: XJ0070A\_1      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	10.135	0.085000
4.941	8.006	0.085000
9.881	7.483	0.085000
14.822	7.660	0.085000
19.762	7.660	0.085000
24.703	7.469	0.085000
29.644	8.598	0.085000
34.584	10.037	0.085000
39.525	10.441	0.085000
44.465	10.272	0.085000
49.406	9.965	0.085000
54.346	9.474	0.085000
59.287	8.159	0.085000
64.228	6.690	0.085000
69.168	6.180	0.085000
74.109	6.180	0.085000
79.049	6.265	0.085000
83.990	7.107	0.085000
88.931	8.665	0.085000

Name: XJ0070A\_2      Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 10.367 0.085000  
4.883 9.516 0.085000  
9.767 9.000 0.085000  
14.650 8.824 0.085000  
19.534 9.071 0.085000  
24.417 9.016 0.085000  
29.300 8.542 0.085000  
34.184 8.114 0.085000  
39.067 8.745 0.085000  
43.950 9.552 0.085000  
48.834 10.025 0.085000  
53.717 10.170 0.085000  
58.601 10.161 0.085000  
63.484 9.977 0.085000  
68.368 9.164 0.085000  
73.251 7.873 0.085000  
78.134 6.828 0.085000  
83.018 6.180 0.085000  
87.901 6.180 0.085000  
92.784 6.180 0.085000  
97.668 6.180 0.085000  
102.551 8.189 0.085000  
107.435 10.172 0.085000

-----  
Name: XJ0080A\_1 Group: J  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 9.567 0.085000  
4.840 8.705 0.085000  
9.680 8.390 0.085000  
14.520 8.289 0.085000  
19.359 8.585 0.085000  
24.199 8.869 0.085000  
29.039 8.886 0.085000

Long Branch BMP Model Results  
Input Data Report Summary

33.879	8.842	0.085000
38.719	8.463	0.085000
43.559	7.500	0.085000
48.399	7.321	0.085000
53.239	8.960	0.085000
58.078	10.405	0.085000

-----

Name: XJ0080A\_2                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	9.897	0.085000
4.665	9.016	0.085000
9.330	8.155	0.085000
13.995	7.471	0.085000
18.660	8.229	0.085000
23.326	8.617	0.085000
27.991	8.657	0.085000
32.656	8.576	0.085000
37.321	8.211	0.085000
41.986	7.422	0.085000
46.651	6.873	0.085000
51.316	6.985	0.085000
55.982	7.832	0.085000
60.647	9.828	0.085000

-----

Name: XJ0090B                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	14.683	0.030000
3.758	14.669	0.030000
7.517	14.749	0.030000
11.275	14.712	0.030000
15.033	14.684	0.030000
20.033	14.663	0.030000
25.033	14.682	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

30.033	14.631	0.030000
35.033	14.571	0.030000
38.986	14.643	0.030000
42.939	14.824	0.030000
46.892	14.944	0.030000
50.845	15.055	0.030000
55.845	14.931	0.030000
60.845	14.759	0.030000
65.775	14.721	0.030000
70.706	14.816	0.030000
75.636	14.801	0.030000
80.567	14.681	0.030000
85.498	14.649	0.030000
90.428	14.627	0.030000
95.359	14.770	0.030000
100.289	14.852	0.030000
105.220	14.822	0.030000
110.150	14.826	0.030000
115.081	14.802	0.030000
120.011	14.668	0.030000
124.942	14.733	0.030000
129.873	14.906	0.030000
134.803	14.692	0.030000
139.734	14.489	0.030000
144.664	14.622	0.030000
149.595	14.673	0.030000
154.525	14.711	0.030000
159.456	14.872	0.030000
164.386	15.106	0.030000
169.317	15.347	0.030000
174.248	15.530	0.030000
179.178	15.394	0.030000
184.109	15.347	0.030000
189.039	15.394	0.030000
193.970	15.245	0.030000
198.900	14.861	0.030000
203.831	14.916	0.030000
208.761	14.765	0.030000
213.692	14.972	0.030000
218.623	14.727	0.030000
223.553	14.864	0.030000
228.484	15.108	0.030000
233.414	15.273	0.030000
238.345	15.209	0.030000
243.322	15.405	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

248.299	15.693	0.030000
253.276	15.897	0.030000
258.253	15.271	0.030000
263.230	15.448	0.030000
268.207	15.693	0.030000
273.184	15.212	0.030000
278.161	15.246	0.030000
283.138	15.596	0.030000
288.115	15.496	0.030000
293.092	15.459	0.030000
298.070	15.275	0.030000
303.047	15.194	0.030000
308.024	14.864	0.030000
313.001	14.545	0.030000
317.978	14.588	0.030000
322.955	14.885	0.030000
327.932	14.783	0.030000
332.909	15.135	0.030000
337.886	15.227	0.030000
342.863	15.209	0.030000
347.840	15.142	0.030000
352.817	14.597	0.030000
357.794	14.849	0.030000
362.771	15.067	0.030000
367.748	15.093	0.030000
372.726	15.078	0.030000
377.703	15.034	0.030000
382.680	14.905	0.030000
387.657	14.906	0.030000
392.634	14.977	0.030000
397.611	15.103	0.030000
402.588	14.761	0.030000
407.565	14.225	0.030000
412.542	13.947	0.030000
417.519	14.025	0.030000
422.496	14.143	0.030000
427.473	14.103	0.030000
432.450	14.013	0.030000
437.427	13.917	0.030000
442.404	13.736	0.030000
447.382	13.729	0.030000
452.359	13.739	0.030000
457.336	13.777	0.030000
462.313	13.864	0.030000
467.290	13.921	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

472.267	13.807	0.030000
477.244	13.631	0.030000
482.221	13.528	0.030000
487.198	13.604	0.030000
492.175	13.617	0.030000
497.152	13.504	0.030000
502.129	13.334	0.030000
507.106	13.031	0.030000
512.083	12.911	0.030000
517.060	13.013	0.030000
522.038	13.030	0.030000
527.015	13.172	0.030000
531.992	13.275	0.030000
536.969	13.287	0.030000
541.946	13.332	0.030000
546.923	13.346	0.030000
551.900	13.416	0.030000
556.877	13.484	0.030000
561.854	13.516	0.030000
566.831	13.532	0.030000
571.808	13.546	0.030000
576.785	13.483	0.030000
581.762	13.361	0.030000
586.739	13.242	0.030000
591.717	13.255	0.030000
596.693	13.239	0.030000
601.671	13.152	0.030000
606.648	13.110	0.030000
611.625	13.174	0.030000
616.602	13.279	0.030000
621.579	13.483	0.030000
626.556	13.527	0.030000
631.533	13.481	0.030000
636.510	13.630	0.030000
641.487	13.598	0.030000
646.464	13.413	0.030000
651.441	13.401	0.030000
656.418	13.375	0.030000
661.395	13.184	0.030000
666.372	12.961	0.030000
671.350	12.845	0.030000
676.327	12.727	0.030000
681.304	12.656	0.030000
686.281	12.672	0.030000
691.258	12.706	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

696.235	12.742	0.030000
701.212	12.723	0.030000
706.189	12.683	0.030000
711.166	12.846	0.030000
716.143	12.898	0.030000
721.120	12.820	0.030000
726.097	12.842	0.030000
731.074	12.722	0.030000
736.051	12.605	0.030000
741.029	12.735	0.030000
746.005	12.837	0.030000
750.983	12.743	0.030000
755.960	12.535	0.030000
760.937	12.606	0.030000
765.914	12.755	0.030000
770.891	12.526	0.030000
775.868	12.278	0.030000
780.778	12.273	0.030000
785.688	12.264	0.030000
790.598	12.228	0.030000
795.508	12.308	0.030000
800.418	12.370	0.030000
805.328	12.340	0.030000
810.239	12.351	0.030000
815.149	12.271	0.030000
820.059	12.260	0.030000
824.969	12.429	0.030000
829.879	12.598	0.030000
834.789	12.631	0.030000
839.699	12.609	0.030000
844.609	12.582	0.030000
849.519	12.735	0.030000
854.429	12.769	0.030000
859.339	12.974	0.030000
864.249	13.041	0.030000
869.159	13.165	0.030000
874.070	13.261	0.030000
878.980	13.339	0.030000
883.890	13.376	0.030000
888.800	13.433	0.030000
893.710	13.536	0.030000
898.620	13.587	0.030000
903.530	13.614	0.030000
908.440	13.655	0.030000
913.350	13.694	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

918.260	13.711	0.030000
923.170	13.785	0.030000
928.081	13.960	0.030000
932.991	14.185	0.030000
937.901	13.908	0.030000
942.811	14.028	0.030000
947.721	14.198	0.030000
952.631	14.137	0.030000
957.473	14.597	0.030000
962.315	14.727	0.030000
967.157	14.789	0.030000
971.999	14.725	0.030000
976.842	14.619	0.030000
981.684	14.461	0.030000
986.526	14.311	0.030000
991.368	14.091	0.030000
996.210	13.838	0.030000
1001.052	13.974	0.030000
1005.894	14.160	0.030000
1010.736	13.950	0.030000
1015.579	13.927	0.030000
1020.421	13.603	0.030000
1025.263	13.555	0.030000
1030.105	13.577	0.030000
1034.947	13.569	0.030000
1039.789	13.443	0.030000
1044.631	13.424	0.030000
1049.473	13.417	0.030000
1054.315	13.433	0.030000
1059.156	13.578	0.030000
1063.998	13.593	0.030000
1068.839	13.608	0.030000
1073.680	13.665	0.030000
1078.522	13.610	0.030000
1083.363	13.569	0.030000
1088.205	13.466	0.030000
1093.046	13.588	0.030000
1097.887	13.732	0.030000
1102.729	13.950	0.030000
1107.570	13.913	0.030000
1112.412	13.974	0.030000
1117.253	13.822	0.030000
1122.094	13.776	0.030000
1126.936	13.720	0.030000
1131.777	13.880	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1136.619	13.670	0.030000
1141.460	13.712	0.030000
1146.301	13.761	0.030000
1151.143	13.808	0.030000
1155.984	13.876	0.030000
1160.825	13.984	0.030000
1165.667	13.767	0.030000
1170.508	13.779	0.030000
1175.350	13.914	0.030000
1180.191	13.999	0.030000
1185.033	13.957	0.030000
1189.874	13.813	0.030000
1194.715	13.697	0.030000
1199.557	13.698	0.030000
1204.398	14.031	0.030000
1209.239	14.459	0.030000
1214.081	14.529	0.030000
1218.922	14.270	0.030000
1223.764	13.851	0.030000
1228.605	13.743	0.030000
1233.447	14.096	0.030000
1238.288	14.444	0.030000
1243.129	14.607	0.030000
1247.971	14.673	0.030000
1252.812	14.486	0.030000
1257.653	14.441	0.030000
1262.495	14.473	0.030000
1267.336	14.609	0.030000
1272.178	14.412	0.030000
1277.019	14.091	0.030000
1281.861	14.185	0.030000
1286.702	14.067	0.030000
1291.543	14.265	0.030000
1296.385	14.273	0.030000
1301.226	14.053	0.030000
1306.067	13.983	0.030000
1310.909	13.959	0.030000
1315.750	14.024	0.030000
1320.592	14.107	0.030000
1325.433	14.069	0.030000
1330.274	14.087	0.030000
1335.116	14.115	0.030000
1339.957	14.043	0.030000
1344.799	13.969	0.030000
1349.640	14.032	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1354.491	14.137	0.030000
1359.343	14.118	0.030000
1364.194	14.115	0.030000
1369.045	14.118	0.030000
1373.897	14.048	0.030000
1378.748	14.080	0.030000
1383.600	14.045	0.030000
1388.451	14.075	0.030000
1393.302	14.084	0.030000
1398.153	14.128	0.030000
1403.005	14.117	0.030000
1407.856	14.078	0.030000
1412.708	14.173	0.030000
1417.559	14.114	0.030000
1422.410	14.114	0.030000
1427.262	14.066	0.030000
1432.113	14.108	0.030000
1436.964	14.021	0.030000
1441.816	13.983	0.030000
1446.667	13.948	0.030000
1451.518	14.133	0.030000
1456.370	14.178	0.030000
1461.221	14.276	0.030000
1466.072	14.372	0.030000
1470.924	14.353	0.030000
1475.775	14.400	0.030000
1480.626	14.421	0.030000
1485.478	14.490	0.030000
1490.329	14.511	0.030000
1495.180	14.426	0.030000
1500.032	14.308	0.030000
1504.883	14.259	0.030000
1509.735	14.186	0.030000

Name: XJ0090C                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.180	0.030000
3.776	14.015	0.030000
7.553	13.919	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

11.329	13.845	0.030000
15.105	13.663	0.030000
19.534	13.653	0.030000
23.964	13.759	0.030000
27.521	13.837	0.030000
31.078	13.855	0.030000
34.635	14.037	0.030000
38.193	13.874	0.030000
41.750	13.944	0.030000
45.307	13.993	0.030000
49.437	14.077	0.030000
53.566	13.974	0.030000
57.696	13.883	0.030000
62.203	13.978	0.030000
66.710	13.823	0.030000
71.216	13.940	0.030000
75.723	14.146	0.030000
80.512	14.504	0.030000
85.301	14.307	0.030000
90.089	14.429	0.030000
94.878	14.611	0.030000
99.666	14.639	0.030000
104.455	14.364	0.030000
109.244	14.465	0.030000
114.032	14.575	0.030000
118.821	14.633	0.030000
123.610	14.550	0.030000
128.398	14.516	0.030000
133.187	14.483	0.030000
137.976	14.426	0.030000
142.764	14.565	0.030000
147.553	14.757	0.030000
152.341	14.996	0.030000
156.404	15.086	0.030000
160.466	15.402	0.030000
164.529	15.181	0.030000
168.591	15.038	0.030000
172.341	14.947	0.030000
176.091	14.736	0.030000
179.841	14.789	0.030000
183.591	14.851	0.030000
188.416	14.806	0.030000
193.241	14.730	0.030000
198.066	14.806	0.030000
202.890	14.902	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

207.715	14.860	0.030000
212.540	14.723	0.030000
217.364	14.746	0.030000
222.189	14.740	0.030000
227.014	14.588	0.030000
231.839	14.547	0.030000
236.664	14.522	0.030000
241.488	14.621	0.030000
246.313	14.541	0.030000
251.138	14.590	0.030000
255.962	14.582	0.030000
260.787	14.448	0.030000
265.612	14.674	0.030000
270.437	14.607	0.030000
275.261	14.761	0.030000
280.086	14.635	0.030000
284.911	14.466	0.030000
289.736	14.207	0.030000
294.560	14.223	0.030000
299.385	14.463	0.030000
304.210	14.548	0.030000
309.034	14.492	0.030000
313.859	14.553	0.030000
318.684	14.652	0.030000
323.515	14.636	0.030000
328.345	14.591	0.030000
333.176	14.587	0.030000
338.007	14.541	0.030000
342.837	14.582	0.030000
347.668	14.671	0.030000
352.499	14.705	0.030000
357.329	14.623	0.030000
362.160	14.531	0.030000
366.991	14.359	0.030000
371.821	14.382	0.030000
376.652	14.278	0.030000
381.483	14.233	0.030000
386.313	14.024	0.030000
391.144	14.366	0.030000
395.975	14.182	0.030000
400.805	14.239	0.030000
405.636	14.329	0.030000
410.467	14.361	0.030000
415.297	14.526	0.030000
420.128	14.626	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

424.959	14.485	0.030000
429.789	14.493	0.030000
434.620	14.655	0.030000
439.451	14.721	0.030000
444.281	14.736	0.030000
449.112	14.692	0.030000
453.943	14.634	0.030000
458.773	14.609	0.030000
463.598	14.584	0.030000
468.423	14.614	0.030000
473.247	14.618	0.030000
478.072	14.533	0.030000
482.897	14.513	0.030000
487.722	14.595	0.030000
492.546	14.694	0.030000
497.371	14.592	0.030000
502.196	14.552	0.030000
507.021	14.688	0.030000
511.845	14.716	0.030000
516.670	14.669	0.030000
521.495	14.649	0.030000
526.319	14.700	0.030000
531.144	14.565	0.030000
535.969	14.764	0.030000
540.794	14.643	0.030000
545.618	14.624	0.030000
550.443	14.609	0.030000
555.268	14.663	0.030000
560.093	14.654	0.030000
564.917	14.600	0.030000
569.742	14.615	0.030000
574.567	14.646	0.030000
579.392	14.615	0.030000
584.216	14.636	0.030000
589.041	14.602	0.030000
593.866	14.603	0.030000
598.770	14.598	0.030000
603.674	14.536	0.030000
608.578	14.518	0.030000
613.482	14.471	0.030000
618.386	14.443	0.030000
623.290	14.470	0.030000
628.194	14.510	0.030000
633.098	14.483	0.030000
638.003	14.493	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

642.907	14.534	0.030000
647.811	14.556	0.030000
652.715	14.626	0.030000
657.619	14.576	0.030000
662.523	14.640	0.030000
667.427	14.644	0.030000
672.331	14.640	0.030000
677.235	14.597	0.030000
682.139	14.590	0.030000
687.043	14.486	0.030000
691.947	14.435	0.030000
696.851	14.483	0.030000
701.755	14.510	0.030000
706.660	14.435	0.030000
711.564	14.434	0.030000
716.468	14.470	0.030000
720.843	14.435	0.030000
725.218	14.442	0.030000
729.593	14.491	0.030000
733.968	14.476	0.030000
738.698	14.424	0.030000
743.428	14.486	0.030000
748.159	14.608	0.030000
752.889	14.616	0.030000
757.620	14.669	0.030000
762.350	14.631	0.030000
767.081	14.657	0.030000
771.811	14.663	0.030000
776.541	14.634	0.030000
781.272	14.581	0.030000
786.002	14.529	0.030000
790.732	14.478	0.030000
795.463	14.688	0.030000
800.193	14.554	0.030000
804.924	14.429	0.030000
809.654	14.402	0.030000
814.384	14.438	0.030000
819.115	14.449	0.030000
822.448	14.443	0.030000
825.781	14.475	0.030000
829.115	14.435	0.030000
833.559	14.361	0.030000
838.004	14.144	0.030000
842.448	13.606	0.030000
846.893	13.222	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

851.337	13.311	0.030000
855.781	14.041	0.030000
860.226	14.095	0.030000
864.670	14.270	0.030000
869.115	14.482	0.030000
873.594	14.434	0.030000
878.073	14.311	0.030000
882.552	14.402	0.030000
887.031	14.445	0.030000
891.510	14.488	0.030000
895.989	14.444	0.030000
900.468	14.457	0.030000
904.947	14.456	0.030000
909.426	14.501	0.030000
912.759	14.609	0.030000
916.093	14.831	0.030000
919.426	14.980	0.030000
924.114	14.855	0.030000
928.801	14.500	0.030000
933.489	14.376	0.030000
938.176	14.420	0.030000
942.864	14.566	0.030000
947.551	14.689	0.030000
952.239	15.153	0.030000
956.926	14.731	0.030000
961.476	14.437	0.030000
966.026	14.595	0.030000
970.576	14.779	0.030000
975.126	14.942	0.030000
979.079	14.995	0.030000
983.032	15.149	0.030000
986.985	15.181	0.030000
990.938	15.195	0.030000
994.664	15.025	0.030000
998.391	15.058	0.030000
1002.118	15.010	0.030000
1006.977	14.778	0.030000
1011.836	14.737	0.030000
1016.695	14.635	0.030000
1020.804	14.650	0.030000
1024.913	14.611	0.030000
1029.022	14.504	0.030000
1033.131	14.556	0.030000
1036.689	14.450	0.030000
1040.246	14.413	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1043.803	14.398	0.030000
1048.772	14.458	0.030000
1053.741	14.460	0.030000
1058.710	14.480	0.030000
1063.679	14.501	0.030000
1068.648	14.584	0.030000
1073.617	14.478	0.030000
1077.175	14.568	0.030000
1080.732	14.560	0.030000
1084.289	14.511	0.030000
1088.718	14.475	0.030000
1093.148	14.489	0.030000
1096.874	14.554	0.030000
1100.601	14.535	0.030000
1104.328	14.548	0.030000
1108.373	14.588	0.030000
1112.418	14.639	0.030000
1116.463	14.644	0.030000
1120.508	14.644	0.030000
1124.856	14.649	0.030000
1129.204	14.621	0.030000
1133.552	14.594	0.030000
1138.102	14.599	0.030000
1142.652	14.585	0.030000
1147.202	14.538	0.030000
1151.753	14.407	0.030000
1156.503	14.464	0.030000
1161.253	14.439	0.030000
1166.003	14.223	0.030000
1170.753	14.301	0.030000
1175.503	14.236	0.030000
1180.253	14.165	0.030000
1185.003	14.161	0.030000
1189.753	14.151	0.030000
1194.503	14.152	0.030000
1199.253	14.154	0.030000
1203.821	14.180	0.030000
1208.389	14.241	0.030000
1212.957	14.264	0.030000
1217.525	14.259	0.030000
1222.093	14.215	0.030000
1226.661	14.351	0.030000
1231.229	14.322	0.030000
1235.797	14.307	0.030000
1240.366	14.330	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1244.934	14.368	0.030000
1249.502	14.349	0.030000
1253.921	14.361	0.030000
1258.341	14.414	0.030000
1262.760	14.486	0.030000
1267.180	14.573	0.030000
1271.599	14.656	0.030000
1276.018	14.645	0.030000
1280.438	14.682	0.030000
1284.857	14.745	0.030000
1288.607	14.742	0.030000
1292.357	14.725	0.030000
1296.107	14.764	0.030000
1299.857	14.789	0.030000
1303.616	14.758	0.030000
1307.374	14.664	0.030000
1311.132	14.704	0.030000
1314.891	14.683	0.030000

-----

Name: XJ0090D	Group: J
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	15.245	0.030000
4.973	14.389	0.030000
9.946	14.445	0.030000
14.919	14.293	0.030000
19.892	14.345	0.030000
24.865	14.426	0.030000
29.838	14.591	0.030000
34.811	14.692	0.030000
39.784	14.820	0.030000
44.757	14.846	0.030000
49.730	14.960	0.030000
54.703	15.078	0.030000

-----

Name: XJ0090E	Group: J
Encroachment: No	

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	14.180	0.030000
4.981	14.607	0.030000
9.961	14.710	0.030000
14.942	14.474	0.030000
19.922	14.802	0.030000
24.903	14.808	0.030000
29.883	14.770	0.030000
34.864	14.662	0.030000
39.844	14.545	0.030000
44.825	14.499	0.030000
49.806	14.522	0.030000
54.786	14.569	0.030000
59.767	14.408	0.030000
64.747	14.328	0.030000
69.728	14.166	0.030000
74.708	14.129	0.030000
79.689	14.082	0.030000
84.669	14.005	0.030000
89.650	14.060	0.030000
94.630	14.025	0.030000
99.611	14.131	0.030000
104.592	14.204	0.030000
109.572	14.237	0.030000
114.553	14.297	0.030000
119.533	14.403	0.030000
124.514	14.430	0.030000
129.494	14.475	0.030000
134.475	14.523	0.030000
139.455	14.528	0.030000
144.436	14.465	0.030000
149.417	14.489	0.030000
154.397	14.559	0.030000
159.378	14.619	0.030000
164.358	14.493	0.030000
169.339	14.551	0.030000
174.319	14.624	0.030000
179.300	14.777	0.030000
184.280	14.789	0.030000
189.261	14.763	0.030000
194.241	14.678	0.030000
199.222	14.677	0.030000
204.202	14.599	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

209.183	14.737	0.030000
214.164	14.765	0.030000
219.144	14.773	0.030000
224.125	14.748	0.030000
229.105	14.728	0.030000
234.086	14.651	0.030000
239.066	14.603	0.030000
244.047	14.616	0.030000
249.027	14.556	0.030000
254.008	14.495	0.030000
258.180	14.489	0.030000
262.352	14.628	0.030000
266.524	14.714	0.030000
270.695	14.846	0.030000
275.411	15.081	0.030000
280.126	15.330	0.030000
284.841	15.472	0.030000
289.556	15.533	0.030000
294.271	15.545	0.030000
298.986	15.376	0.030000
303.701	15.231	0.030000
308.416	15.259	0.030000
313.131	15.254	0.030000
317.846	15.251	0.030000
322.561	15.302	0.030000
327.276	15.593	0.030000
331.991	15.498	0.030000
336.706	15.475	0.030000
341.421	15.512	0.030000
346.137	15.546	0.030000
350.852	15.572	0.030000
355.711	15.482	0.030000
360.570	15.336	0.030000
365.429	15.263	0.030000
370.289	15.270	0.030000
375.148	15.351	0.030000
380.007	15.442	0.030000
384.866	15.495	0.030000
389.726	15.461	0.030000
394.585	15.232	0.030000
399.444	15.292	0.030000
404.303	15.306	0.030000
409.163	15.329	0.030000
414.022	15.166	0.030000
418.881	15.045	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

423.740	14.973	0.030000
428.599	14.814	0.030000
433.459	14.701	0.030000
438.318	14.701	0.030000
443.177	14.490	0.030000
448.036	14.728	0.030000
452.896	14.728	0.030000
457.755	15.028	0.030000
462.614	15.439	0.030000
467.473	15.425	0.030000
472.333	14.995	0.030000
477.192	14.744	0.030000
482.051	14.751	0.030000
486.910	14.809	0.030000
491.770	14.818	0.030000
496.629	14.804	0.030000
501.488	14.788	0.030000
506.347	14.840	0.030000
511.207	15.026	0.030000
516.066	15.106	0.030000
520.925	15.081	0.030000
525.330	15.071	0.030000
529.735	15.041	0.030000
534.141	15.007	0.030000
538.546	14.841	0.030000
542.951	14.945	0.030000
547.356	15.147	0.030000

-----

Name: XJ0090F	Group: J
Encroachment: No	

-----

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	15.098	0.030000
4.862	15.029	0.030000
9.725	14.967	0.030000
14.587	14.894	0.030000
19.450	14.786	0.030000
24.312	14.732	0.030000
29.174	14.725	0.030000
34.037	14.706	0.030000
38.899	14.698	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

43.761	14.716	0.030000
48.625	14.732	0.030000
53.488	14.669	0.030000
58.351	14.679	0.030000
63.214	14.749	0.030000
68.077	14.681	0.030000
72.941	14.653	0.030000
77.804	14.559	0.030000
82.667	14.644	0.030000
87.530	14.540	0.030000
92.393	14.461	0.030000
97.256	14.446	0.030000
102.120	14.491	0.030000
106.983	14.482	0.030000
111.846	14.432	0.030000
116.709	14.458	0.030000
121.572	14.439	0.030000
126.435	14.494	0.030000
131.299	14.530	0.030000
136.162	14.531	0.030000
141.025	14.532	0.030000
145.888	14.520	0.030000
150.751	14.492	0.030000
155.614	14.454	0.030000
160.478	14.433	0.030000
165.341	14.409	0.030000
170.204	14.335	0.030000
175.067	14.253	0.030000
179.930	14.188	0.030000
184.793	14.097	0.030000
189.657	13.979	0.030000
194.520	13.899	0.030000
199.383	13.863	0.030000
204.246	13.930	0.030000
209.109	14.020	0.030000
214.037	14.114	0.030000
218.964	14.227	0.030000
223.892	14.331	0.030000
228.820	14.420	0.030000
233.747	14.624	0.030000
238.675	14.940	0.030000
243.603	15.006	0.030000
248.530	14.904	0.030000
253.458	14.855	0.030000
258.385	14.922	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

263.313	14.941	0.030000
268.241	14.847	0.030000
273.168	14.812	0.030000
278.096	14.773	0.030000
283.024	14.727	0.030000
287.951	14.656	0.030000
292.879	14.595	0.030000
297.807	14.464	0.030000
302.734	14.288	0.030000
307.662	14.388	0.030000
312.589	14.425	0.030000
317.517	14.363	0.030000
322.445	14.423	0.030000
327.372	14.574	0.030000
332.300	14.536	0.030000
337.228	14.569	0.030000
342.155	14.650	0.030000
347.083	14.938	0.030000
352.010	15.123	0.030000
356.938	15.089	0.030000
361.866	15.702	0.030000
366.793	15.642	0.030000
371.721	15.340	0.030000
376.649	15.286	0.030000
381.576	14.931	0.030000
386.504	14.928	0.030000
391.431	14.642	0.030000
396.359	14.775	0.030000
401.287	14.763	0.030000
406.214	14.752	0.030000
411.142	14.761	0.030000
416.070	14.599	0.030000
420.997	14.275	0.030000
425.925	14.072	0.030000
430.852	14.340	0.030000
435.780	14.534	0.030000
440.708	14.479	0.030000
445.635	14.461	0.030000
450.563	14.732	0.030000
455.491	14.613	0.030000
460.418	14.589	0.030000
465.346	14.781	0.030000
470.273	14.806	0.030000
475.201	14.791	0.030000
480.129	14.892	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

485.056	14.940	0.030000
489.984	14.802	0.030000
494.911	14.711	0.030000
499.839	14.557	0.030000

Name: XJ0090G                      Group: J  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.186	0.030000
3.915	14.140	0.030000
7.830	14.179	0.030000
11.745	14.306	0.030000
15.661	14.553	0.030000
20.660	14.608	0.030000
25.660	14.684	0.030000
30.660	15.013	0.030000
35.035	15.204	0.030000
39.410	15.404	0.030000
43.785	15.582	0.030000
48.160	15.515	0.030000
52.535	15.211	0.030000
56.910	15.222	0.030000
61.285	15.284	0.030000
65.660	15.298	0.030000
70.383	15.317	0.030000
75.105	15.494	0.030000
79.827	15.662	0.030000
84.549	15.567	0.030000
89.272	15.594	0.030000
93.994	15.677	0.030000
98.716	15.732	0.030000
103.438	15.662	0.030000
108.161	15.768	0.030000
112.911	15.692	0.030000
117.661	15.648	0.030000
122.411	15.624	0.030000
127.161	15.339	0.030000
131.911	15.412	0.030000
136.661	15.544	0.030000
141.411	15.598	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

146.161	15.663	0.030000
150.911	15.731	0.030000
155.661	15.728	0.030000
159.387	15.666	0.030000
163.114	15.559	0.030000
166.841	15.563	0.030000
170.794	15.543	0.030000
174.747	15.483	0.030000
178.699	15.307	0.030000
182.652	15.264	0.030000
186.605	15.068	0.030000
190.558	14.723	0.030000
194.511	14.740	0.030000
198.464	14.861	0.030000
202.416	14.923	0.030000
206.369	14.941	0.030000
210.322	14.779	0.030000
214.275	14.703	0.030000
218.228	14.656	0.030000
222.181	14.595	0.030000
226.134	14.616	0.030000
230.086	14.516	0.030000
234.846	14.565	0.030000
239.606	14.644	0.030000
244.366	14.581	0.030000
249.126	14.741	0.030000
253.106	14.676	0.030000
257.086	14.578	0.030000
261.066	14.480	0.030000
265.047	14.214	0.030000
269.091	14.202	0.030000
273.136	14.213	0.030000
277.180	14.223	0.030000
281.668	14.270	0.030000
286.155	14.359	0.030000
290.643	14.467	0.030000
295.150	14.407	0.030000
299.657	14.505	0.030000
304.164	14.441	0.030000
308.671	14.553	0.030000
313.588	14.736	0.030000
318.505	14.878	0.030000
323.421	14.738	0.030000
328.338	14.587	0.030000
332.686	14.679	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

337.034	14.597	0.030000
341.382	14.586	0.030000
345.109	14.759	0.030000
348.835	14.877	0.030000
352.562	14.893	0.030000
356.692	14.503	0.030000
360.821	14.218	0.030000
364.951	14.173	0.030000
369.060	14.821	0.030000
373.169	15.248	0.030000
377.277	15.407	0.030000
381.387	15.161	0.030000
385.894	14.875	0.030000
390.400	14.594	0.030000
394.907	14.453	0.030000
399.414	14.422	0.030000
402.950	14.365	0.030000
406.485	14.407	0.030000
410.021	14.459	0.030000
413.748	14.483	0.030000
417.474	14.532	0.030000
421.201	14.529	0.030000
424.737	14.509	0.030000
428.272	14.491	0.030000
431.808	14.526	0.030000
436.315	14.454	0.030000
440.822	14.393	0.030000
445.329	14.473	0.030000
449.836	14.469	0.030000
453.945	14.413	0.030000
458.053	14.485	0.030000
462.163	14.823	0.030000
466.272	14.898	0.030000
469.829	14.637	0.030000
473.386	14.559	0.030000
476.943	14.354	0.030000
481.912	14.431	0.030000
486.881	14.927	0.030000
491.851	14.793	0.030000
496.702	14.618	0.030000
501.553	14.443	0.030000
506.404	14.196	0.030000
511.256	13.810	0.030000
516.107	13.810	0.030000
520.958	14.449	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

525.809 14.810 0.030000  
530.661 15.308 0.030000

Name: XJ0090H Group: J  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000 15.098 0.030000  
3.436 15.111 0.030000  
6.872 15.044 0.030000  
10.308 15.049 0.030000  
14.261 15.039 0.030000  
18.214 15.000 0.030000  
22.166 15.027 0.030000  
26.119 15.043 0.030000  
30.072 15.072 0.030000  
34.025 15.217 0.030000  
37.978 15.307 0.030000  
41.931 15.328 0.030000  
46.360 15.176 0.030000  
50.789 15.342 0.030000  
55.758 15.362 0.030000  
60.727 15.142 0.030000  
65.696 14.850 0.030000  
69.826 14.800 0.030000  
73.955 14.741 0.030000  
78.085 14.793 0.030000  
81.620 14.760 0.030000  
85.156 14.711 0.030000  
88.691 14.651 0.030000  
92.800 14.675 0.030000  
96.909 14.671 0.030000  
101.018 14.655 0.030000  
105.127 14.641 0.030000  
109.107 14.606 0.030000  
113.087 14.601 0.030000  
117.068 14.614 0.030000  
121.048 14.613 0.030000  
125.907 14.595 0.030000  
130.766 14.536 0.030000  
135.625 14.508 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

140.054	14.501	0.030000
144.484	14.414	0.030000
148.041	14.447	0.030000
151.598	14.481	0.030000
155.155	14.476	0.030000
159.585	14.402	0.030000
164.014	14.417	0.030000
168.873	14.371	0.030000
173.732	14.369	0.030000
178.591	14.330	0.030000
182.572	14.355	0.030000
186.552	14.368	0.030000
190.532	14.360	0.030000
194.512	14.340	0.030000
198.070	14.264	0.030000
201.627	14.292	0.030000
205.184	14.280	0.030000
209.293	14.270	0.030000
213.402	14.281	0.030000
217.511	14.261	0.030000
221.620	14.417	0.030000
226.479	14.264	0.030000
231.338	14.330	0.030000
236.197	14.209	0.030000
239.924	14.213	0.030000
243.651	14.288	0.030000
247.378	14.214	0.030000
252.277	14.123	0.030000
257.176	14.151	0.030000
262.075	14.328	0.030000
266.974	14.478	0.030000
271.873	14.485	0.030000
276.772	14.495	0.030000
281.671	14.518	0.030000
286.570	14.339	0.030000
291.469	14.340	0.030000
296.368	14.281	0.030000
301.267	14.208	0.030000
306.166	14.099	0.030000
311.065	14.091	0.030000
315.964	14.101	0.030000
320.863	13.914	0.030000
325.763	13.797	0.030000
330.662	13.785	0.030000
335.561	13.763	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

340.460	13.937	0.030000
345.359	14.367	0.030000
350.258	14.238	0.030000
355.157	14.127	0.030000
360.056	14.174	0.030000
364.955	14.133	0.030000
369.854	14.145	0.030000
374.753	14.082	0.030000
379.652	14.105	0.030000
384.551	13.970	0.030000
389.450	13.855	0.030000
394.349	13.801	0.030000
399.248	13.866	0.030000
404.147	13.818	0.030000
409.046	13.947	0.030000
413.646	14.069	0.030000
418.246	14.239	0.030000
422.846	14.430	0.030000
427.446	14.519	0.030000
432.046	14.624	0.030000
436.646	14.670	0.030000
441.246	14.701	0.030000
446.099	14.731	0.030000
450.952	14.800	0.030000
455.805	14.892	0.030000
460.658	14.963	0.030000
465.511	15.088	0.030000
470.364	15.107	0.030000
471.234	15.078	0.030000

Name: XJ0100A\_1      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	8.379	0.085000
4.515	6.760	0.085000
9.031	6.760	0.085000
13.546	6.760	0.085000
18.062	6.982	0.085000
22.577	8.492	0.085000
27.092	10.701	0.085000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XJ0100A\_2      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	9.944	0.085000
4.555	8.009	0.085000
9.109	6.753	0.085000
13.664	6.760	0.085000
18.218	6.799	0.085000
22.773	7.089	0.085000
27.328	8.645	0.085000
31.882	10.223	0.085000

Name: XJ0101A\_2      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	11.831	0.085000
4.914	11.826	0.085000
9.829	11.475	0.085000
14.743	10.471	0.085000
19.657	8.386	0.085000
24.572	6.403	0.085000
29.486	6.184	0.085000
34.400	6.191	0.085000
39.315	6.194	0.085000
44.229	6.473	0.085000
49.143	8.436	0.085000
54.058	10.626	0.085000
58.972	11.569	0.085000
63.886	11.547	0.085000

Name: XJ0101B      Group: J  
Encroachment: No



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	14.683	0.030000
3.960	14.627	0.030000
7.920	14.260	0.030000
11.880	13.719	0.030000
16.295	13.461	0.030000
20.709	13.372	0.030000
25.124	13.273	0.030000
29.538	13.214	0.030000
33.265	13.222	0.030000
36.992	13.114	0.030000
40.718	13.074	0.030000
45.066	12.998	0.030000
49.414	12.904	0.030000
53.762	12.946	0.030000
58.616	12.880	0.030000
63.469	12.741	0.030000
68.323	12.713	0.030000
73.176	12.729	0.030000
78.029	12.610	0.030000
81.587	12.448	0.030000
85.144	12.372	0.030000
88.701	12.371	0.030000
93.116	12.403	0.030000
97.530	12.387	0.030000
101.945	12.369	0.030000
106.359	12.323	0.030000
109.795	12.290	0.030000
113.231	12.256	0.030000
116.667	12.187	0.030000
120.000	12.177	0.030000
123.334	12.125	0.030000
126.667	12.054	0.030000
130.103	12.016	0.030000
133.539	11.911	0.030000
136.975	11.872	0.030000
141.881	11.868	0.030000
146.787	11.858	0.030000
151.693	11.831	0.030000

Name: XJ0110A

Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.754	0.030000
4.992	15.619	0.030000
9.983	15.255	0.030000
14.975	14.982	0.030000
19.966	15.321	0.030000
24.958	15.544	0.030000
29.949	15.460	0.030000
34.941	15.373	0.030000
39.932	15.222	0.030000
44.924	14.954	0.030000
49.915	14.705	0.030000
54.907	14.808	0.030000
59.898	15.639	0.030000
64.890	14.737	0.030000
69.881	13.918	0.030000
74.873	13.044	0.030000
79.864	12.319	0.030000
84.856	12.313	0.030000
89.847	12.356	0.030000
94.839	12.243	0.030000
99.831	12.077	0.030000
104.822	12.213	0.030000
109.814	12.257	0.030000
114.805	12.141	0.030000
119.797	12.149	0.030000
124.788	11.995	0.030000
129.780	12.236	0.030000
134.771	12.476	0.030000
139.763	12.247	0.030000
144.754	12.240	0.030000
149.746	12.150	0.030000
154.737	12.080	0.030000
159.729	12.399	0.030000
164.720	12.801	0.030000
169.712	12.688	0.030000
174.703	12.709	0.030000
179.695	12.711	0.030000
184.686	12.872	0.030000
189.678	12.803	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

194.669	12.838	0.030000
199.661	13.033	0.030000
204.653	13.115	0.030000
209.644	13.161	0.030000
214.636	12.992	0.030000
219.627	13.224	0.030000
224.619	12.923	0.030000
229.610	12.999	0.030000
234.602	13.073	0.030000
239.593	13.096	0.030000
244.585	13.433	0.030000
249.576	13.480	0.030000
254.568	13.464	0.030000
259.559	13.757	0.030000
264.551	13.833	0.030000
269.542	14.031	0.030000
274.534	13.805	0.030000
279.525	13.697	0.030000
284.517	13.875	0.030000
289.508	14.118	0.030000
294.500	14.047	0.030000
299.491	14.009	0.030000
304.483	14.050	0.030000
309.474	14.118	0.030000
314.466	14.023	0.030000
319.457	13.760	0.030000
324.449	13.919	0.030000
329.440	13.837	0.030000
334.432	13.647	0.030000
339.424	13.797	0.030000
344.415	13.949	0.030000
349.407	14.050	0.030000
354.398	13.747	0.030000
359.390	13.775	0.030000
364.381	14.036	0.030000
369.373	14.280	0.030000
374.364	13.950	0.030000
379.356	13.763	0.030000
384.347	14.016	0.030000
389.339	14.195	0.030000
394.330	13.844	0.030000
399.322	13.960	0.030000
404.313	14.209	0.030000
409.305	13.954	0.030000
414.296	13.944	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

419.288	14.311	0.030000
424.279	14.250	0.030000
429.271	14.004	0.030000
434.262	14.247	0.030000
439.254	14.369	0.030000
444.246	14.056	0.030000
449.237	14.294	0.030000
454.229	14.543	0.030000
459.220	14.507	0.030000
464.212	14.018	0.030000
469.203	14.002	0.030000
474.195	14.316	0.030000
479.186	14.225	0.030000
484.178	13.981	0.030000
489.169	13.725	0.030000
494.161	13.777	0.030000
499.152	14.007	0.030000
504.144	14.222	0.030000
509.135	13.931	0.030000
514.127	13.737	0.030000
519.118	13.735	0.030000
524.110	13.996	0.030000
529.101	14.233	0.030000
534.093	14.336	0.030000
539.085	14.229	0.030000
544.076	14.120	0.030000
549.068	13.827	0.030000
554.059	14.065	0.030000
559.051	14.010	0.030000
564.042	13.992	0.030000
569.034	13.959	0.030000
574.025	13.939	0.030000
579.017	14.135	0.030000
584.008	14.127	0.030000
588.913	14.289	0.030000
593.819	14.331	0.030000
598.724	14.052	0.030000
603.629	14.087	0.030000
608.534	14.647	0.030000
613.440	15.139	0.030000
618.345	15.621	0.030000
623.250	15.714	0.030000
628.155	15.617	0.030000
633.060	15.217	0.030000
637.966	14.789	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

642.871	14.787	0.030000
647.776	14.748	0.030000
652.681	14.787	0.030000
657.587	14.732	0.030000
662.492	14.858	0.030000
667.397	14.989	0.030000
672.302	14.860	0.030000
677.207	15.056	0.030000
682.113	15.206	0.030000
685.558	15.211	0.030000
689.004	15.084	0.030000
692.450	15.286	0.030000
697.412	15.326	0.030000
702.375	15.266	0.030000
707.337	15.020	0.030000
712.300	14.643	0.030000
717.262	14.731	0.030000
722.225	14.930	0.030000
727.187	14.825	0.030000
732.150	14.638	0.030000
737.112	14.605	0.030000
742.074	14.686	0.030000
747.037	14.876	0.030000
752.000	15.174	0.030000
756.962	15.391	0.030000
761.924	15.243	0.030000
766.887	15.133	0.030000
771.849	14.956	0.030000
776.812	14.663	0.030000
781.774	14.702	0.030000
786.737	14.804	0.030000
791.699	14.699	0.030000
796.662	14.808	0.030000
801.624	15.083	0.030000
806.587	14.950	0.030000
811.549	14.744	0.030000
816.511	14.642	0.030000
821.474	14.404	0.030000
826.437	14.425	0.030000
831.399	14.567	0.030000
836.361	14.560	0.030000
841.324	14.551	0.030000
846.286	14.265	0.030000
851.249	14.052	0.030000
856.211	14.350	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

861.174	14.652	0.030000
866.136	14.921	0.030000
871.099	15.182	0.030000
876.061	15.588	0.030000
881.024	16.108	0.030000
885.986	16.165	0.030000
890.948	15.884	0.030000
895.911	15.675	0.030000
900.828	15.477	0.030000
905.746	15.638	0.030000
910.664	15.693	0.030000
915.581	15.711	0.030000
920.499	15.569	0.030000
925.416	15.426	0.030000
930.334	15.294	0.030000
935.251	15.163	0.030000
940.169	15.043	0.030000
945.086	15.043	0.030000
950.004	15.266	0.030000
954.921	15.247	0.030000
959.839	15.138	0.030000
964.756	14.660	0.030000
969.674	13.803	0.030000
974.591	14.030	0.030000
979.509	14.465	0.030000
984.426	14.738	0.030000
989.344	14.770	0.030000
994.261	14.593	0.030000
999.179	14.252	0.030000
1004.096	14.129	0.030000
1009.014	14.268	0.030000
1013.931	14.407	0.030000
1018.849	14.547	0.030000
1023.767	14.686	0.030000
1028.684	14.826	0.030000
1033.602	14.914	0.030000
1038.519	14.844	0.030000
1043.437	14.631	0.030000
1048.354	14.553	0.030000
1053.272	14.598	0.030000
1058.189	14.535	0.030000
1063.107	14.480	0.030000
1068.024	14.707	0.030000
1072.942	14.914	0.030000
1077.859	15.184	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1082.777	15.233	0.030000
1087.694	15.122	0.030000
1092.612	14.983	0.030000
1097.529	15.023	0.030000
1102.447	15.096	0.030000
1107.364	15.027	0.030000
1112.282	15.037	0.030000
1117.199	15.102	0.030000
1122.117	15.096	0.030000
1127.034	15.080	0.030000
1131.952	15.120	0.030000
1136.869	15.234	0.030000
1141.787	15.309	0.030000
1146.704	15.219	0.030000
1151.622	15.180	0.030000
1156.540	15.252	0.030000
1161.457	15.304	0.030000
1166.374	15.329	0.030000
1170.902	15.374	0.030000
1175.430	15.502	0.030000
1179.958	15.661	0.030000
1184.486	15.794	0.030000
1189.299	15.659	0.030000
1194.113	15.507	0.030000
1198.927	15.798	0.030000
1203.740	15.978	0.030000
1208.554	16.120	0.030000
1213.367	16.204	0.030000
1218.181	16.243	0.030000
1222.995	16.267	0.030000
1227.953	16.194	0.030000
1232.911	16.141	0.030000
1237.869	16.105	0.030000
1242.827	15.876	0.030000
1247.785	15.520	0.030000
1252.743	15.457	0.030000
1257.701	15.627	0.030000
1262.659	15.772	0.030000
1267.617	15.647	0.030000
1272.575	14.944	0.030000
1277.533	14.422	0.030000
1282.491	14.664	0.030000
1287.449	14.960	0.030000
1292.408	14.973	0.030000
1297.366	15.134	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1302.324	15.334	0.030000
1307.282	15.291	0.030000
1312.240	15.316	0.030000
1317.198	15.393	0.030000
1322.156	15.435	0.030000
1327.114	15.303	0.030000
1332.072	15.087	0.030000
1337.030	15.087	0.030000
1341.988	15.226	0.030000
1346.946	15.089	0.030000
1351.904	14.966	0.030000
1356.862	14.938	0.030000
1361.820	14.944	0.030000
1366.778	15.015	0.030000
1371.737	15.163	0.030000
1376.695	14.996	0.030000
1381.653	14.891	0.030000
1386.611	14.747	0.030000
1391.569	14.456	0.030000
1396.527	14.163	0.030000
1401.485	14.013	0.030000
1406.443	13.681	0.030000
1411.401	13.367	0.030000
1416.359	13.361	0.030000
1421.317	13.312	0.030000
1426.275	13.452	0.030000
1431.233	13.921	0.030000
1436.191	14.298	0.030000
1441.149	14.704	0.030000
1446.108	14.963	0.030000
1451.065	14.745	0.030000
1456.024	14.685	0.030000
1461.016	14.725	0.030000
1466.008	14.747	0.030000
1471.000	14.781	0.030000
1475.992	14.822	0.030000
1480.985	14.944	0.030000
1485.977	14.923	0.030000
1490.969	15.011	0.030000
1495.961	15.174	0.030000
1500.953	15.300	0.030000
1505.945	14.789	0.030000
1510.938	14.754	0.030000
1515.930	14.868	0.030000
1520.922	14.798	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1525.914	14.852	0.030000
1530.906	14.865	0.030000
1535.899	15.278	0.030000
1540.891	15.102	0.030000
1545.883	15.144	0.030000
1550.875	15.018	0.030000
1555.867	15.031	0.030000
1560.860	15.023	0.030000
1565.852	14.963	0.030000
1570.844	14.848	0.030000
1575.836	14.950	0.030000
1580.828	15.026	0.030000
1585.820	14.956	0.030000
1590.777	14.908	0.030000
1595.733	14.740	0.030000
1600.690	14.792	0.030000
1605.646	14.673	0.030000
1610.603	14.656	0.030000
1615.559	14.611	0.030000
1620.516	14.693	0.030000
1625.472	14.652	0.030000
1630.429	14.773	0.030000
1635.385	15.154	0.030000
1640.342	15.361	0.030000
1645.298	15.182	0.030000
1650.255	14.323	0.030000
1655.211	14.540	0.030000
1660.168	14.965	0.030000
1665.124	14.911	0.030000
1670.080	14.268	0.030000
1675.037	14.605	0.030000
1679.993	14.865	0.030000
1684.950	15.320	0.030000
1689.906	15.089	0.030000
1694.863	14.731	0.030000
1699.819	14.382	0.030000
1704.776	14.313	0.030000
1709.732	14.333	0.030000
1714.689	14.280	0.030000
1719.645	14.389	0.030000
1724.602	14.556	0.030000
1729.558	14.885	0.030000
1734.515	14.672	0.030000
1739.471	14.558	0.030000
1744.428	14.538	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1749.384	14.593	0.030000
1754.341	14.655	0.030000
1759.297	14.852	0.030000
1764.253	14.962	0.030000
1769.210	15.179	0.030000
1774.166	15.334	0.030000
1779.123	15.308	0.030000
1784.079	15.050	0.030000
1789.036	15.038	0.030000
1793.992	15.101	0.030000
1798.949	14.820	0.030000
1803.905	15.015	0.030000
1808.862	14.595	0.030000
1813.818	14.335	0.030000
1818.775	14.381	0.030000
1823.731	14.302	0.030000
1828.688	14.459	0.030000
1833.644	14.724	0.030000
1838.601	14.507	0.030000
1843.557	14.307	0.030000
1848.514	14.385	0.030000
1853.470	14.276	0.030000
1858.426	14.525	0.030000
1863.383	14.734	0.030000
1868.339	14.791	0.030000
1873.296	14.759	0.030000
1878.252	14.794	0.030000
1883.209	14.810	0.030000
1888.165	14.745	0.030000
1893.122	14.553	0.030000
1898.078	14.327	0.030000
1903.035	14.178	0.030000
1907.991	13.924	0.030000
1912.948	13.441	0.030000
1917.904	13.523	0.030000
1922.861	14.341	0.030000
1927.817	15.418	0.030000
1932.774	15.990	0.030000
1937.730	16.066	0.030000

Name: XJ0120A  
Encroachment: No

Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	17.018	0.030000
4.998	17.090	0.030000
9.996	16.909	0.030000
14.995	16.704	0.030000
19.993	16.635	0.030000
24.991	16.564	0.030000
29.989	16.533	0.030000
34.987	16.457	0.030000
39.985	16.234	0.030000
44.983	15.880	0.030000
49.982	15.571	0.030000
54.980	15.514	0.030000
59.978	15.507	0.030000
64.976	15.632	0.030000
69.974	15.794	0.030000
74.972	15.678	0.030000
79.971	15.517	0.030000
84.969	15.541	0.030000
89.967	15.662	0.030000
94.965	15.732	0.030000
99.963	15.647	0.030000
104.961	15.662	0.030000
109.960	15.646	0.030000
114.958	15.349	0.030000
119.956	15.026	0.030000
124.954	15.188	0.030000
129.952	15.675	0.030000
134.950	15.844	0.030000
139.949	15.756	0.030000
144.947	15.681	0.030000
149.945	15.758	0.030000
154.943	15.883	0.030000
159.941	15.841	0.030000
164.939	15.889	0.030000
169.938	16.017	0.030000
174.936	16.081	0.030000
179.934	16.107	0.030000
184.932	16.060	0.030000
189.930	15.989	0.030000
194.928	15.958	0.030000
199.927	15.915	0.030000
204.925	15.790	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

209.923	15.646	0.030000
214.921	15.438	0.030000
219.919	15.244	0.030000
224.917	15.615	0.030000
229.916	16.316	0.030000
234.914	16.437	0.030000
239.912	16.228	0.030000
244.910	16.314	0.030000
249.908	16.344	0.030000
254.906	16.212	0.030000
259.904	16.201	0.030000
264.903	16.053	0.030000
269.901	16.014	0.030000
274.899	15.983	0.030000
279.897	16.045	0.030000
284.895	16.357	0.030000
289.894	16.427	0.030000
294.892	16.354	0.030000
299.890	16.228	0.030000
304.888	16.145	0.030000
309.886	16.104	0.030000
314.884	15.858	0.030000
319.882	15.567	0.030000
324.881	15.424	0.030000
329.879	15.604	0.030000
334.877	15.828	0.030000
339.875	15.693	0.030000
344.873	15.508	0.030000
349.872	15.412	0.030000
354.870	15.289	0.030000
359.868	14.978	0.030000
364.866	14.638	0.030000
369.864	14.604	0.030000
374.862	14.718	0.030000
379.861	14.648	0.030000
384.859	14.532	0.030000
389.857	14.554	0.030000
394.855	14.384	0.030000
399.853	14.008	0.030000
404.851	13.628	0.030000
409.849	13.455	0.030000
414.848	13.730	0.030000
419.846	14.049	0.030000
424.844	14.102	0.030000
429.842	14.070	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

434.840	13.813	0.030000
439.838	13.453	0.030000
444.837	13.379	0.030000
449.835	13.427	0.030000
454.833	13.577	0.030000
459.831	14.146	0.030000
464.829	14.375	0.030000
469.827	13.751	0.030000
474.826	13.118	0.030000
479.659	13.100	0.030000
484.493	13.278	0.030000
489.326	13.253	0.030000
494.160	13.017	0.030000
498.993	12.919	0.030000
503.827	12.707	0.030000
508.661	12.734	0.030000
513.494	12.790	0.030000
518.328	12.970	0.030000
523.162	13.141	0.030000
527.995	13.480	0.030000
532.829	13.554	0.030000
537.662	13.612	0.030000
542.496	13.693	0.030000
547.329	13.746	0.030000
552.163	13.403	0.030000
556.997	12.947	0.030000
561.830	12.912	0.030000
566.664	13.067	0.030000
571.497	13.351	0.030000
576.331	13.351	0.030000
581.164	13.227	0.030000
585.998	13.008	0.030000
590.832	12.939	0.030000
595.665	12.921	0.030000
600.499	12.868	0.030000
605.332	12.804	0.030000
610.330	12.945	0.030000
615.327	12.729	0.030000
620.324	13.196	0.030000
625.322	13.232	0.030000
630.319	13.322	0.030000
635.316	13.758	0.030000
640.313	14.196	0.030000
645.311	14.360	0.030000
650.308	14.098	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

655.305	13.727	0.030000
660.303	13.576	0.030000
665.300	13.749	0.030000
670.297	13.409	0.030000
675.295	13.246	0.030000
680.292	13.304	0.030000
685.289	13.467	0.030000
690.286	13.480	0.030000
695.284	13.565	0.030000
700.281	13.651	0.030000
705.278	13.682	0.030000
710.276	13.786	0.030000
715.273	13.730	0.030000
720.270	13.672	0.030000
725.268	13.713	0.030000
730.265	13.909	0.030000
735.262	14.225	0.030000
740.259	14.400	0.030000
745.257	14.224	0.030000
750.254	13.975	0.030000
755.251	13.690	0.030000
760.249	13.729	0.030000
765.246	13.698	0.030000
770.243	13.459	0.030000
775.240	13.496	0.030000
780.238	13.765	0.030000
785.235	14.229	0.030000
790.232	14.307	0.030000
795.230	13.759	0.030000
800.227	13.590	0.030000
805.224	13.702	0.030000
810.221	13.678	0.030000
815.219	13.706	0.030000
820.216	13.859	0.030000
825.213	13.986	0.030000
830.211	14.286	0.030000
835.208	14.566	0.030000
840.205	14.530	0.030000
845.202	14.109	0.030000
850.200	13.766	0.030000
855.197	14.030	0.030000
860.194	14.288	0.030000
865.192	14.394	0.030000
870.189	14.533	0.030000
875.186	14.426	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

880.183	14.302	0.030000
885.181	14.496	0.030000
890.178	14.753	0.030000
895.175	15.059	0.030000
900.173	14.785	0.030000
905.170	14.578	0.030000
910.167	14.155	0.030000
915.165	14.192	0.030000
920.162	14.046	0.030000
925.159	13.489	0.030000
929.860	13.142	0.030000
934.561	12.442	0.030000
939.262	12.522	0.030000
943.963	12.810	0.030000
948.664	12.735	0.030000
953.365	12.686	0.030000
958.066	12.566	0.030000
962.767	12.639	0.030000
967.468	12.683	0.030000

Name: XJ0130D      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	22.518	0.030000
3.334	22.614	0.030000
6.668	22.535	0.030000
10.001	22.192	0.030000
14.431	21.668	0.030000
18.860	21.413	0.030000
22.759	21.290	0.030000
26.657	20.707	0.030000
30.556	20.382	0.030000
34.611	19.985	0.030000
38.667	19.435	0.030000
42.722	18.926	0.030000
46.777	18.805	0.030000
50.832	18.726	0.030000
55.247	18.354	0.030000
59.661	18.072	0.030000
64.076	17.636	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

68.490	17.471	0.030000
73.147	17.409	0.030000
77.803	17.267	0.030000
82.460	17.104	0.030000
87.116	16.973	0.030000
91.773	16.854	0.030000
96.430	16.744	0.030000
101.086	16.734	0.030000
105.896	16.748	0.030000
110.706	16.812	0.030000
115.515	16.795	0.030000
120.325	16.799	0.030000
123.882	16.756	0.030000
127.440	16.681	0.030000
130.997	16.748	0.030000
134.977	16.710	0.030000
138.957	16.536	0.030000
142.938	16.335	0.030000
146.918	16.131	0.030000
151.098	15.930	0.030000
155.278	15.703	0.030000
159.458	15.459	0.030000
163.638	15.213	0.030000
167.818	15.144	0.030000
171.871	15.078	0.030000
175.924	15.043	0.030000
179.977	14.844	0.030000
184.030	14.899	0.030000
188.105	14.895	0.030000
192.179	14.918	0.030000
196.254	14.944	0.030000
200.328	14.920	0.030000
204.577	14.923	0.030000
208.827	14.966	0.030000
213.076	14.875	0.030000
217.325	14.849	0.030000
221.574	15.267	0.030000
225.823	15.334	0.030000
228.323	15.202	0.030000
230.823	15.143	0.030000
235.823	15.264	0.030000
240.823	15.470	0.030000
245.823	15.496	0.030000
250.253	15.481	0.030000
254.682	15.439	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

259.651	15.427	0.030000
264.620	15.385	0.030000
269.589	15.349	0.030000
273.838	15.316	0.030000
278.087	15.304	0.030000
282.337	15.405	0.030000
286.586	15.485	0.030000
290.617	15.476	0.030000
294.648	15.442	0.030000
298.679	15.368	0.030000
302.710	15.375	0.030000
306.741	15.281	0.030000
310.929	15.059	0.030000
315.116	14.870	0.030000
319.304	14.829	0.030000
323.491	14.989	0.030000
327.679	15.155	0.030000
331.866	15.167	0.030000
336.866	15.146	0.030000
341.866	15.029	0.030000
346.866	15.153	0.030000
351.866	15.400	0.030000
356.866	15.145	0.030000
361.866	14.993	0.030000
366.866	15.160	0.030000
371.866	15.485	0.030000
376.866	15.802	0.030000
381.035	15.685	0.030000
385.205	15.468	0.030000
389.374	15.571	0.030000
393.543	15.454	0.030000
397.618	15.436	0.030000
401.692	15.345	0.030000
405.767	15.287	0.030000
409.841	15.181	0.030000
413.971	15.046	0.030000
418.100	14.904	0.030000
422.229	14.699	0.030000
426.479	14.565	0.030000
430.728	14.324	0.030000
434.977	14.422	0.030000
439.226	14.626	0.030000
443.475	14.588	0.030000
447.725	14.482	0.030000
451.974	14.399	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

456.223	14.412	0.030000
460.571	14.189	0.030000
464.919	14.222	0.030000
469.267	14.324	0.030000
472.600	14.442	0.030000
475.933	14.637	0.030000
479.267	14.809	0.030000
483.867	15.213	0.030000
488.467	15.612	0.030000
493.067	15.646	0.030000
497.666	15.743	0.030000
502.266	15.887	0.030000
506.866	15.893	0.030000
511.466	15.938	0.030000
515.024	15.932	0.030000
518.581	15.859	0.030000
522.138	15.748	0.030000
526.486	15.608	0.030000
530.834	15.122	0.030000
535.182	14.916	0.030000
538.618	14.842	0.030000
542.054	14.826	0.030000
545.490	14.680	0.030000
549.291	14.577	0.030000
553.093	14.457	0.030000
556.895	14.459	0.030000
560.697	14.510	0.030000
564.498	14.589	0.030000
568.300	14.667	0.030000
572.102	14.745	0.030000
575.903	14.764	0.030000
579.948	14.803	0.030000
583.992	14.848	0.030000
588.037	14.850	0.030000
592.385	14.905	0.030000
596.733	14.946	0.030000
601.081	15.027	0.030000
605.568	15.033	0.030000
610.056	14.968	0.030000
614.543	14.892	0.030000
619.031	14.874	0.030000
623.519	14.849	0.030000
628.006	14.760	0.030000
632.757	14.719	0.030000
637.508	14.795	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

642.259	14.966	0.030000
647.009	14.988	0.030000
651.760	14.957	0.030000
656.511	14.908	0.030000
659.011	14.876	0.030000
661.511	14.840	0.030000
666.511	14.754	0.030000
671.511	14.704	0.030000
676.511	14.707	0.030000
680.634	14.698	0.030000
684.757	14.690	0.030000
688.880	14.681	0.030000
693.003	14.673	0.030000
697.126	14.680	0.030000
700.562	14.675	0.030000
703.998	14.641	0.030000
707.434	14.595	0.030000
711.683	14.560	0.030000
715.933	14.530	0.030000
720.182	14.478	0.030000
724.431	14.425	0.030000
728.330	14.426	0.030000
732.228	14.350	0.030000
736.127	14.291	0.030000
739.854	14.244	0.030000
743.581	14.263	0.030000
747.308	14.367	0.030000
751.722	14.437	0.030000
756.137	14.451	0.030000
760.551	14.715	0.030000
764.966	14.790	0.030000
769.010	14.939	0.030000
773.055	15.088	0.030000
777.099	15.052	0.030000
780.535	15.073	0.030000
783.971	15.152	0.030000
787.407	15.224	0.030000
790.843	15.198	0.030000
794.279	15.075	0.030000
797.715	15.040	0.030000
801.151	15.010	0.030000
804.587	14.920	0.030000
808.022	14.853	0.030000
811.458	14.747	0.030000
814.894	14.609	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

818.330	14.568	0.030000
822.579	14.550	0.030000
826.828	14.548	0.030000
831.078	14.392	0.030000
835.565	14.089	0.030000
840.053	13.750	0.030000
844.541	13.675	0.030000
849.392	13.582	0.030000
854.243	13.556	0.030000
859.095	13.429	0.030000
863.946	13.355	0.030000
868.232	13.511	0.030000
872.517	13.372	0.030000
876.803	13.481	0.030000
881.089	13.382	0.030000
885.374	13.456	0.030000
889.660	13.653	0.030000
893.946	13.766	0.030000
898.627	13.687	0.030000
903.308	13.624	0.030000
907.990	13.707	0.030000
912.671	13.906	0.030000
917.352	14.050	0.030000
922.033	14.202	0.030000
926.714	14.505	0.030000
931.395	14.522	0.030000
936.077	14.352	0.030000
940.758	14.258	0.030000
945.439	14.112	0.030000
949.927	13.973	0.030000
954.414	14.082	0.030000
958.902	14.348	0.030000
963.093	14.358	0.030000
967.283	14.352	0.030000
971.474	14.392	0.030000
975.665	14.441	0.030000
979.855	14.310	0.030000

-----  
Name: XJ0140A\_1      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	10.063	0.085000
4.842	9.758	0.085000
9.683	9.151	0.085000
14.525	7.921	0.085000
19.366	6.672	0.085000
24.208	6.190	0.085000
29.050	6.180	0.085000
33.891	6.180	0.085000
38.733	6.389	0.085000
43.575	8.088	0.085000
48.416	10.113	0.085000

Name: XJ0141A\_2      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	10.103	0.085000
4.719	8.477	0.085000
9.438	6.470	0.085000
14.158	6.191	0.085000
18.877	6.180	0.085000
23.596	6.180	0.085000
28.315	6.322	0.085000
33.035	8.763	0.085000
37.754	10.280	0.085000

Name: XJ0150A      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.305	0.030000
278.426	16.274	0.030000
368.386	16.416	0.030000
445.902	16.652	0.030000
473.390	16.498	0.030000
524.059	16.222	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

579.836	16.522	0.030000
657.805	16.396	0.030000
675.755	16.411	0.030000
717.212	16.376	0.030000
760.886	16.415	0.030000
809.671	16.297	0.030000
822.528	16.181	0.030000
876.875	16.344	0.030000
910.066	16.458	0.030000
952.632	16.361	0.030000
965.966	16.416	0.030000
1005.474	16.243	0.030000
1034.754	16.177	0.030000
1072.256	16.220	0.030000
1084.313	16.179	0.030000
1119.938	16.371	0.030000
1132.795	16.344	0.030000
1173.583	16.310	0.030000
1201.599	16.366	0.030000
1232.532	16.715	0.030000
1254.534	15.927	0.030000
1290.934	15.614	0.030000
1317.427	15.551	0.030000
1354.705	15.725	0.030000
1367.511	15.639	0.030000
1406.911	15.444	0.030000
1433.393	15.299	0.030000
1465.892	15.381	0.030000
1480.010	15.475	0.030000
1522.150	15.731	0.030000
1549.017	15.897	0.030000
1586.151	15.833	0.030000
1592.817	15.688	0.030000
1633.894	15.647	0.030000
1657.382	15.536	0.030000
1707.600	17.585	0.030000
1720.725	17.966	0.030000
1760.262	18.130	0.030000
1784.251	18.104	0.030000
1826.139	17.812	0.030000
1840.707	17.622	0.030000
1921.929	17.798	0.030000
1960.395	17.787	0.030000
1989.352	17.571	0.030000
1999.352	17.665	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

2041.946	17.521	0.030000
2064.026	17.121	0.030000
2103.264	15.750	0.030000
2113.871	15.640	0.030000
2151.680	15.442	0.030000
2174.502	15.413	0.030000
2216.376	15.508	0.030000
2230.004	15.531	0.030000
2279.245	15.628	0.030000
2291.245	15.614	0.030000
2335.278	15.630	0.030000
2362.778	16.883	0.030000
2442.754	17.639	0.030000
2458.445	17.783	0.030000
2502.109	17.898	0.030000
2528.823	17.886	0.030000
2591.684	17.814	0.030000
2605.557	17.807	0.030000
2647.130	17.567	0.030000
2676.944	17.272	0.030000
2712.859	16.025	0.030000
2724.039	15.846	0.030000
2761.963	15.890	0.030000
2789.902	15.993	0.030000
2829.934	15.776	0.030000
2844.086	15.840	0.030000
2874.358	16.102	0.030000
2904.564	16.095	0.030000
2977.935	16.222	0.030000
2989.583	16.035	0.030000
3021.526	16.587	0.030000
3053.000	16.819	0.030000
3088.685	17.797	0.030000
3098.685	17.763	0.030000
3132.487	17.708	0.030000
3158.142	17.662	0.030000
3201.336	17.518	0.030000
3216.253	17.493	0.030000
3256.555	17.481	0.030000
3283.598	17.500	0.030000
3322.778	17.466	0.030000
3334.782	17.520	0.030000
3455.476	17.833	0.030000
3528.618	17.746	0.030000
3580.761	17.549	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

3595.761	17.492	0.030000
3645.077	17.203	0.030000
3675.384	17.135	0.030000

Name: XJ0160A                      Group: J  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.934	0.030000
4.979	14.899	0.030000
9.957	14.932	0.030000
14.936	14.908	0.030000
19.915	14.950	0.030000
24.894	15.003	0.030000
29.872	14.992	0.030000
34.851	14.925	0.030000
39.830	14.685	0.030000
44.808	14.450	0.030000
49.787	14.305	0.030000
54.766	14.238	0.030000
59.744	14.328	0.030000
64.723	14.389	0.030000
69.702	14.350	0.030000
74.680	14.336	0.030000
79.659	14.386	0.030000
84.638	14.554	0.030000
89.617	14.853	0.030000
94.595	15.000	0.030000
99.574	14.968	0.030000
104.552	14.922	0.030000
109.531	14.695	0.030000
114.510	14.638	0.030000
119.489	14.778	0.030000
124.467	14.812	0.030000
129.446	14.676	0.030000
134.425	14.622	0.030000
139.403	14.562	0.030000
144.382	14.591	0.030000
149.361	14.595	0.030000
154.339	14.586	0.030000
159.318	14.594	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

164.297	14.601	0.030000
169.275	14.539	0.030000
174.254	14.493	0.030000
179.233	14.554	0.030000
184.212	14.553	0.030000
189.190	14.517	0.030000
194.169	14.549	0.030000
199.148	14.604	0.030000
204.126	14.678	0.030000
209.105	14.878	0.030000
214.084	14.838	0.030000
219.063	14.832	0.030000
224.041	14.775	0.030000
229.020	14.581	0.030000
233.999	14.587	0.030000
238.977	14.620	0.030000
243.956	14.647	0.030000
248.935	14.737	0.030000
253.913	14.852	0.030000
258.892	14.840	0.030000
263.871	14.842	0.030000
268.849	14.823	0.030000
273.828	14.700	0.030000
278.807	14.757	0.030000
283.786	14.840	0.030000
288.764	14.788	0.030000
293.743	14.666	0.030000
298.721	14.992	0.030000
303.700	15.006	0.030000
308.679	14.955	0.030000
313.658	14.817	0.030000
318.636	14.808	0.030000
323.615	14.750	0.030000
328.594	14.733	0.030000
333.572	14.664	0.030000
338.551	14.299	0.030000
343.530	14.081	0.030000
348.509	14.078	0.030000
353.487	14.157	0.030000
358.466	14.320	0.030000
363.445	14.402	0.030000
368.423	14.708	0.030000
373.402	14.643	0.030000
378.381	14.603	0.030000
383.359	14.211	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

388.338	14.386	0.030000
393.317	14.821	0.030000
398.295	14.546	0.030000
403.274	14.538	0.030000
408.253	14.556	0.030000
413.231	14.452	0.030000
418.210	14.721	0.030000
423.189	14.853	0.030000
428.168	14.973	0.030000
433.146	15.068	0.030000
438.125	15.155	0.030000
443.104	15.180	0.030000
448.082	15.090	0.030000
453.061	14.770	0.030000
458.040	14.523	0.030000
463.018	14.512	0.030000
467.997	14.332	0.030000
472.976	14.118	0.030000
477.955	13.858	0.030000
482.933	13.915	0.030000
487.912	13.876	0.030000
492.890	13.539	0.030000
497.869	13.335	0.030000
502.848	13.117	0.030000
507.827	12.898	0.030000
512.805	12.680	0.030000
517.784	12.461	0.030000
522.763	12.242	0.030000
527.741	11.999	0.030000
532.720	11.749	0.030000
537.699	11.523	0.030000
542.678	11.914	0.030000
547.656	12.258	0.030000
552.635	12.390	0.030000
557.614	12.502	0.030000
562.592	12.742	0.030000
567.571	12.961	0.030000
572.550	13.072	0.030000
577.528	13.166	0.030000
582.507	13.030	0.030000
587.486	13.029	0.030000
592.464	12.938	0.030000
597.443	12.821	0.030000
602.422	12.478	0.030000
607.400	12.437	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

612.379	12.388	0.030000
617.358	12.348	0.030000
622.337	12.499	0.030000
627.315	12.772	0.030000
632.294	12.668	0.030000
637.273	12.491	0.030000
642.251	12.220	0.030000
647.230	12.016	0.030000
652.209	11.835	0.030000
657.187	11.786	0.030000
662.166	11.817	0.030000
667.145	11.750	0.030000
672.124	11.965	0.030000
677.102	12.098	0.030000
682.081	12.208	0.030000
687.059	12.282	0.030000
692.038	12.303	0.030000
697.017	12.371	0.030000
701.996	12.523	0.030000
706.974	12.532	0.030000
711.953	12.569	0.030000
716.932	12.577	0.030000
721.910	12.525	0.030000
726.889	12.621	0.030000
731.868	12.677	0.030000
736.846	12.689	0.030000
741.825	12.759	0.030000
746.804	12.819	0.030000
751.783	12.783	0.030000
756.761	12.810	0.030000
761.740	12.823	0.030000
766.719	12.898	0.030000
771.697	12.943	0.030000
776.676	12.879	0.030000
781.655	12.982	0.030000
786.633	12.886	0.030000
791.612	12.935	0.030000
796.591	12.942	0.030000
801.569	12.997	0.030000
806.548	12.972	0.030000
811.527	12.971	0.030000
816.505	13.054	0.030000
821.484	13.052	0.030000
826.463	13.101	0.030000
831.442	13.105	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

836.420	13.088	0.030000
841.399	13.136	0.030000
846.378	13.176	0.030000
851.356	13.240	0.030000
856.335	13.335	0.030000
861.314	13.398	0.030000
866.293	13.465	0.030000
871.271	13.509	0.030000
876.250	13.535	0.030000
881.229	13.608	0.030000
886.207	13.770	0.030000
891.186	14.038	0.030000
896.165	14.321	0.030000
901.143	14.346	0.030000
906.122	14.332	0.030000
911.101	14.436	0.030000
916.079	14.455	0.030000
921.058	14.446	0.030000
926.037	14.403	0.030000
931.015	14.221	0.030000
935.994	14.061	0.030000
940.973	14.084	0.030000
945.952	14.330	0.030000
950.930	14.653	0.030000
955.909	14.975	0.030000
960.888	15.124	0.030000
965.866	15.124	0.030000
970.845	15.135	0.030000
975.824	15.119	0.030000
980.802	15.202	0.030000
985.797	15.219	0.030000
990.791	15.350	0.030000
995.786	15.482	0.030000
1000.780	15.504	0.030000
1005.775	15.560	0.030000
1009.211	15.507	0.030000
1012.646	15.517	0.030000
1016.082	15.539	0.030000
1020.741	15.531	0.030000
1025.399	15.653	0.030000
1030.058	15.628	0.030000
1034.716	15.717	0.030000
1039.375	15.659	0.030000
1044.033	15.605	0.030000
1048.635	15.629	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1053.238	15.692	0.030000
1057.840	15.726	0.030000
1062.442	15.660	0.030000
1067.044	15.653	0.030000
1071.647	15.591	0.030000
1076.249	15.635	0.030000
1080.851	15.602	0.030000
1085.453	15.666	0.030000
1090.055	15.747	0.030000
1094.658	15.757	0.030000
1099.260	15.676	0.030000
1103.785	15.601	0.030000
1108.311	15.577	0.030000
1112.836	15.586	0.030000
1117.362	15.581	0.030000
1121.887	15.487	0.030000
1126.412	15.682	0.030000
1130.938	15.725	0.030000
1135.286	15.675	0.030000
1139.633	15.590	0.030000
1143.981	15.531	0.030000
1148.230	15.477	0.030000
1152.480	15.528	0.030000
1156.729	15.669	0.030000
1160.978	15.792	0.030000
1165.227	15.914	0.030000
1169.477	16.099	0.030000
1173.896	16.294	0.030000
1178.315	16.453	0.030000
1182.735	16.455	0.030000
1187.154	16.224	0.030000
1191.898	15.901	0.030000
1196.641	15.601	0.030000
1201.384	15.623	0.030000
1206.128	15.654	0.030000
1210.871	15.625	0.030000
1214.946	15.596	0.030000
1219.022	15.613	0.030000
1223.097	15.792	0.030000

Name: XJ0160C  
Encroachment: No

Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	14.934	0.030000
4.972	14.893	0.030000
9.944	14.758	0.030000
14.915	14.742	0.030000
19.887	14.672	0.030000
24.859	14.560	0.030000
29.831	14.540	0.030000
34.803	14.499	0.030000
39.774	14.448	0.030000
44.746	14.489	0.030000
49.718	14.509	0.030000
54.690	14.464	0.030000
59.662	14.455	0.030000
64.633	14.438	0.030000
69.605	14.406	0.030000
74.577	14.443	0.030000
79.549	14.453	0.030000
84.521	14.465	0.030000
89.492	14.542	0.030000
94.464	14.597	0.030000
99.436	14.616	0.030000
104.408	14.620	0.030000
109.380	14.621	0.030000
114.351	14.639	0.030000
119.323	14.663	0.030000
124.295	14.687	0.030000
129.267	14.705	0.030000
134.239	14.688	0.030000
139.210	14.676	0.030000
144.182	14.634	0.030000
149.154	14.632	0.030000
154.126	14.621	0.030000
159.098	14.633	0.030000
164.069	14.605	0.030000
169.041	14.611	0.030000
174.013	14.628	0.030000
178.985	14.626	0.030000
183.957	14.641	0.030000
188.928	14.663	0.030000
193.900	14.677	0.030000
198.872	14.697	0.030000
203.844	14.657	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

208.816	14.665	0.030000
213.787	14.661	0.030000
218.759	14.656	0.030000
223.731	14.687	0.030000
228.703	14.727	0.030000
233.675	14.800	0.030000
238.646	14.722	0.030000
243.618	14.714	0.030000
248.590	14.748	0.030000
253.562	14.794	0.030000
258.534	14.860	0.030000
263.505	14.868	0.030000
268.477	14.914	0.030000
273.449	14.988	0.030000
278.421	15.052	0.030000
283.393	15.037	0.030000
288.023	15.123	0.030000
292.654	15.168	0.030000
297.284	15.192	0.030000
301.915	15.182	0.030000
306.545	15.125	0.030000
311.176	15.116	0.030000
315.807	15.108	0.030000
320.437	15.075	0.030000
325.068	15.102	0.030000
329.902	15.137	0.030000
334.736	15.104	0.030000
339.570	15.070	0.030000
344.404	15.070	0.030000
349.238	15.122	0.030000
354.072	15.157	0.030000
359.009	15.152	0.030000
363.945	15.136	0.030000
368.882	15.177	0.030000
373.819	15.154	0.030000
378.755	15.137	0.030000
383.692	15.121	0.030000
388.629	15.081	0.030000
393.566	14.992	0.030000
398.502	14.978	0.030000
403.439	14.939	0.030000
408.376	14.954	0.030000
413.313	14.910	0.030000
418.249	14.945	0.030000
423.186	14.853	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

428.123	14.763	0.030000
433.059	14.783	0.030000
437.996	14.760	0.030000
442.933	14.717	0.030000
447.870	14.698	0.030000
452.806	14.728	0.030000
457.743	14.734	0.030000
462.680	14.630	0.030000
467.616	14.727	0.030000
472.553	14.811	0.030000
477.490	14.834	0.030000
482.426	14.796	0.030000
487.363	14.803	0.030000
492.300	14.759	0.030000
497.237	14.779	0.030000
502.173	14.800	0.030000
507.110	14.780	0.030000
512.047	14.793	0.030000
516.984	14.775	0.030000
521.920	14.756	0.030000
526.857	14.789	0.030000
531.794	14.775	0.030000
536.730	14.751	0.030000
541.667	14.753	0.030000
546.604	14.737	0.030000
551.540	14.675	0.030000
556.477	14.671	0.030000
561.414	14.657	0.030000
566.351	14.651	0.030000
571.287	14.682	0.030000
576.224	14.678	0.030000
581.161	14.675	0.030000
586.097	14.704	0.030000
591.034	14.682	0.030000
595.971	14.765	0.030000
600.908	14.782	0.030000
605.844	14.725	0.030000
610.781	14.691	0.030000
615.718	14.735	0.030000
620.654	14.766	0.030000
625.591	14.776	0.030000
630.528	14.808	0.030000
635.465	14.771	0.030000
640.401	14.764	0.030000
645.338	14.833	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

650.275	14.916	0.030000
655.212	14.966	0.030000
660.148	15.092	0.030000
665.085	15.190	0.030000

-----

Name: XJ0170B	Group: J
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	15.334	0.030000
4.479	15.293	0.030000
8.958	15.138	0.030000
13.437	14.950	0.030000
17.916	15.015	0.030000
22.395	15.115	0.030000
26.874	15.256	0.030000
31.123	15.297	0.030000
35.373	15.181	0.030000
39.622	15.197	0.030000
43.871	15.201	0.030000
48.359	15.277	0.030000
52.846	15.318	0.030000
56.891	15.379	0.030000
60.935	15.411	0.030000
64.980	15.421	0.030000
69.399	15.453	0.030000
73.819	15.432	0.030000
78.238	15.461	0.030000
82.657	15.527	0.030000
86.487	15.467	0.030000
90.318	15.540	0.030000
94.148	15.441	0.030000
97.978	15.440	0.030000
102.022	15.539	0.030000
106.067	15.445	0.030000
110.112	15.356	0.030000
114.599	15.261	0.030000
119.087	15.258	0.030000
123.575	15.298	0.030000
128.434	15.417	0.030000
133.293	15.757	0.030000

0.000	15.334	0.030000
4.479	15.293	0.030000
8.958	15.138	0.030000
13.437	14.950	0.030000
17.916	15.015	0.030000
22.395	15.115	0.030000
26.874	15.256	0.030000
31.123	15.297	0.030000
35.373	15.181	0.030000
39.622	15.197	0.030000
43.871	15.201	0.030000
48.359	15.277	0.030000
52.846	15.318	0.030000
56.891	15.379	0.030000
60.935	15.411	0.030000
64.980	15.421	0.030000
69.399	15.453	0.030000
73.819	15.432	0.030000
78.238	15.461	0.030000
82.657	15.527	0.030000
86.487	15.467	0.030000
90.318	15.540	0.030000
94.148	15.441	0.030000
97.978	15.440	0.030000
102.022	15.539	0.030000
106.067	15.445	0.030000
110.112	15.356	0.030000
114.599	15.261	0.030000
119.087	15.258	0.030000
123.575	15.298	0.030000
128.434	15.417	0.030000
133.293	15.757	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

138.152	15.939	0.030000
142.581	16.047	0.030000
147.010	16.147	0.030000
151.613	16.205	0.030000
156.215	16.264	0.030000
160.045	16.196	0.030000
163.875	16.034	0.030000
167.705	15.896	0.030000
171.535	15.806	0.030000
175.093	15.700	0.030000
178.650	15.598	0.030000
182.207	15.491	0.030000
186.555	15.356	0.030000
190.903	15.220	0.030000
195.251	15.162	0.030000
199.053	15.258	0.030000
202.855	15.480	0.030000
206.656	15.454	0.030000
210.458	15.414	0.030000
215.458	15.480	0.030000
220.458	15.533	0.030000
224.260	15.499	0.030000
228.061	15.459	0.030000
231.863	15.430	0.030000
235.665	15.388	0.030000
239.564	15.315	0.030000
243.462	15.243	0.030000
247.361	15.250	0.030000
251.367	15.254	0.030000
255.374	15.181	0.030000
259.380	15.172	0.030000
263.552	15.086	0.030000
267.724	15.099	0.030000
271.895	15.185	0.030000
276.067	15.059	0.030000
279.869	14.882	0.030000
283.671	14.896	0.030000
287.472	14.958	0.030000
291.274	15.026	0.030000
296.247	15.059	0.030000
301.221	14.959	0.030000
306.194	14.863	0.030000
311.167	14.773	0.030000
316.140	14.686	0.030000
321.113	14.666	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

326.086	14.575	0.030000
331.060	14.478	0.030000
336.033	14.442	0.030000
341.006	14.473	0.030000
345.979	14.445	0.030000
350.952	14.351	0.030000
355.925	14.335	0.030000
360.899	14.356	0.030000
365.872	14.351	0.030000
370.845	14.310	0.030000
375.818	14.311	0.030000
380.791	14.310	0.030000
385.764	14.286	0.030000
390.738	14.284	0.030000
395.711	14.251	0.030000
400.684	14.282	0.030000
405.657	14.335	0.030000
410.630	14.306	0.030000
415.604	14.306	0.030000
420.577	14.310	0.030000
425.550	14.365	0.030000
430.523	14.346	0.030000
435.496	14.393	0.030000
440.469	14.371	0.030000
445.443	14.379	0.030000
450.416	14.388	0.030000
455.389	14.419	0.030000
460.362	14.424	0.030000
465.335	14.424	0.030000
470.308	14.467	0.030000
475.282	14.574	0.030000
480.255	14.566	0.030000
485.228	14.509	0.030000
490.201	14.561	0.030000
495.174	14.602	0.030000
500.147	14.558	0.030000
505.121	14.521	0.030000
510.094	14.549	0.030000
515.067	14.648	0.030000
520.040	14.627	0.030000
525.013	14.653	0.030000
529.986	14.693	0.030000
534.960	14.640	0.030000
539.933	14.621	0.030000
544.906	14.730	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

549.879	14.832	0.030000
554.852	14.743	0.030000
559.826	14.776	0.030000
564.799	14.871	0.030000
569.772	14.767	0.030000
574.745	14.786	0.030000
579.718	14.785	0.030000
584.691	14.841	0.030000
589.665	14.785	0.030000
594.638	14.756	0.030000
599.611	14.788	0.030000
604.584	14.950	0.030000
609.557	14.872	0.030000
614.530	14.927	0.030000
619.504	14.956	0.030000
624.477	14.866	0.030000
629.450	14.961	0.030000
634.423	15.026	0.030000
639.396	14.903	0.030000
644.370	14.989	0.030000
649.343	15.118	0.030000
654.316	15.103	0.030000
659.289	14.986	0.030000
664.262	15.125	0.030000
669.235	15.130	0.030000
674.208	15.113	0.030000
679.182	15.106	0.030000
684.155	15.032	0.030000
689.128	15.166	0.030000
694.101	15.097	0.030000
699.074	14.982	0.030000
704.048	15.054	0.030000
709.021	15.033	0.030000
713.994	15.045	0.030000
718.967	15.020	0.030000
723.940	14.986	0.030000
728.913	14.999	0.030000
733.887	14.985	0.030000
738.860	14.963	0.030000
743.833	14.939	0.030000
748.806	14.882	0.030000
753.779	14.870	0.030000
758.753	14.865	0.030000
763.726	14.872	0.030000
768.699	14.820	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

773.672	14.846	0.030000
778.645	14.855	0.030000
783.618	14.817	0.030000
788.592	14.809	0.030000
793.565	14.786	0.030000
798.538	14.777	0.030000
803.511	14.754	0.030000
808.484	14.733	0.030000
813.457	14.731	0.030000
818.431	14.672	0.030000
823.404	14.777	0.030000
828.377	14.650	0.030000
833.350	14.619	0.030000
838.323	14.572	0.030000
843.297	14.566	0.030000
848.270	14.553	0.030000
853.243	14.527	0.030000
858.216	14.605	0.030000
863.189	14.573	0.030000
868.162	14.565	0.030000
873.135	14.547	0.030000
878.109	14.589	0.030000
883.082	14.622	0.030000
888.055	14.662	0.030000
893.028	14.713	0.030000
898.001	14.785	0.030000
902.975	14.795	0.030000
907.948	14.888	0.030000
912.921	14.918	0.030000
917.894	15.039	0.030000
922.867	15.068	0.030000
927.840	15.133	0.030000

-----

Name: XJ0170D	Group: J
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-----		
0.000	15.334	0.030000
4.167	15.329	0.030000
8.333	15.345	0.030000
12.500	15.392	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

16.667	15.280	0.030000
20.833	15.300	0.030000
25.000	15.285	0.030000
29.044	15.315	0.030000
33.089	15.295	0.030000
37.133	15.226	0.030000
42.011	15.183	0.030000
46.887	15.311	0.030000
51.764	15.361	0.030000
56.641	15.459	0.030000
61.071	15.524	0.030000
65.500	15.593	0.030000
69.749	15.630	0.030000
73.998	15.670	0.030000
78.247	15.714	0.030000
82.496	15.603	0.030000
86.746	15.911	0.030000
90.995	15.981	0.030000
95.340	15.843	0.030000
99.685	15.840	0.030000
104.029	15.837	0.030000
108.374	15.834	0.030000
112.719	15.831	0.030000
117.064	15.828	0.030000
121.409	15.825	0.030000
124.845	15.793	0.030000
128.281	15.793	0.030000
131.717	15.790	0.030000
135.966	15.788	0.030000
140.215	15.789	0.030000
144.464	15.781	0.030000
148.713	15.773	0.030000
152.758	15.765	0.030000
156.802	15.761	0.030000
160.847	15.733	0.030000
164.283	15.749	0.030000
167.719	15.736	0.030000
171.155	15.704	0.030000
175.541	15.598	0.030000
179.927	15.487	0.030000
184.313	15.503	0.030000
188.699	15.548	0.030000
193.085	15.523	0.030000
197.471	15.457	0.030000
201.857	15.348	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

206.244	15.447	0.030000
210.697	15.398	0.030000
215.150	15.299	0.030000
219.603	15.297	0.030000
224.056	15.407	0.030000
228.509	15.354	0.030000
232.962	15.303	0.030000
237.416	15.166	0.030000
241.869	15.134	0.030000
246.322	15.097	0.030000
250.123	15.048	0.030000
253.925	15.065	0.030000
257.727	15.040	0.030000
261.529	15.097	0.030000
266.079	15.170	0.030000
270.629	15.150	0.030000
275.179	15.282	0.030000
279.729	15.312	0.030000
284.148	15.325	0.030000
288.568	15.337	0.030000
292.987	15.298	0.030000
297.407	15.252	0.030000
300.740	15.269	0.030000
304.073	15.416	0.030000
307.407	15.447	0.030000
310.842	15.496	0.030000
314.278	15.679	0.030000
317.714	15.748	0.030000
322.202	15.733	0.030000
326.690	15.653	0.030000
331.177	15.682	0.030000
335.834	15.711	0.030000
340.490	15.698	0.030000
345.147	15.619	0.030000
349.803	15.555	0.030000
354.460	15.439	0.030000
359.117	15.303	0.030000
363.773	15.223	0.030000
367.500	15.209	0.030000
371.227	15.242	0.030000
374.954	15.275	0.030000
378.390	15.311	0.030000
381.825	15.358	0.030000
385.261	15.420	0.030000
388.697	15.391	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

392.133	15.398	0.030000
395.569	15.396	0.030000
399.998	15.404	0.030000
404.428	15.411	0.030000
408.915	15.431	0.030000
413.403	15.324	0.030000
417.890	15.223	0.030000
422.378	15.262	0.030000
426.866	15.299	0.030000
431.353	15.262	0.030000
435.841	15.226	0.030000
440.329	15.192	0.030000
444.816	15.197	0.030000
449.304	15.261	0.030000
454.018	15.226	0.030000
458.732	15.223	0.030000
463.446	15.225	0.030000
468.160	15.253	0.030000
472.874	15.275	0.030000
476.874	15.256	0.030000
480.874	15.171	0.030000
484.874	15.067	0.030000
488.874	15.228	0.030000
492.874	15.351	0.030000
496.207	15.485	0.030000
499.541	15.756	0.030000
502.874	15.730	0.030000
506.310	15.805	0.030000
509.746	15.806	0.030000
513.182	15.828	0.030000
517.942	15.748	0.030000
522.702	15.742	0.030000
527.462	15.803	0.030000
532.221	15.888	0.030000
536.633	15.953	0.030000
541.044	15.654	0.030000
545.455	15.178	0.030000
549.866	14.998	0.030000
554.277	15.160	0.030000
558.688	15.361	0.030000
563.100	15.334	0.030000
568.069	15.171	0.030000
573.038	15.008	0.030000
578.007	15.026	0.030000
582.051	15.055	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

586.096	15.067	0.030000
590.140	15.084	0.030000
593.474	15.120	0.030000
596.807	15.231	0.030000
600.140	15.250	0.030000
604.390	15.251	0.030000
608.639	15.298	0.030000
612.888	15.498	0.030000
616.510	15.758	0.030000
620.131	15.966	0.030000
623.753	16.009	0.030000
627.933	15.876	0.030000
632.113	15.796	0.030000
636.293	15.675	0.030000
640.473	15.528	0.030000
644.653	15.584	0.030000
649.141	15.338	0.030000
653.628	15.039	0.030000
658.116	14.806	0.030000
662.283	14.902	0.030000
666.449	14.982	0.030000
670.616	14.952	0.030000
674.783	15.225	0.030000
678.949	15.276	0.030000
683.116	15.278	0.030000
687.786	15.297	0.030000
692.455	15.304	0.030000
697.125	15.411	0.030000
701.795	15.455	0.030000
706.464	15.470	0.030000
711.134	15.441	0.030000
715.803	15.303	0.030000
720.473	15.385	0.030000
725.143	15.341	0.030000
729.813	15.339	0.030000
734.482	15.470	0.030000
739.152	15.470	0.030000
743.821	15.536	0.030000
748.491	15.581	0.030000
753.161	15.451	0.030000
757.505	15.266	0.030000
761.850	15.156	0.030000
766.195	15.219	0.030000
770.540	15.279	0.030000
774.885	15.354	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

779.230	15.291	0.030000
783.574	15.322	0.030000
787.741	15.427	0.030000
791.908	15.479	0.030000
796.074	15.354	0.030000
801.074	15.389	0.030000
806.074	15.319	0.030000
811.074	15.281	0.030000
816.074	15.144	0.030000
821.074	15.375	0.030000
826.074	15.198	0.030000
831.074	15.270	0.030000
833.574	15.256	0.030000
836.074	15.243	0.030000
840.198	15.203	0.030000
844.321	15.128	0.030000
848.444	15.161	0.030000
852.567	15.225	0.030000
856.690	15.114	0.030000
861.065	15.263	0.030000
865.440	15.390	0.030000
869.815	15.315	0.030000
874.190	15.220	0.030000
879.119	15.155	0.030000
884.048	15.180	0.030000
888.978	15.286	0.030000
893.907	15.263	0.030000
898.836	15.272	0.030000
903.765	15.325	0.030000
908.695	15.315	0.030000
913.624	15.471	0.030000
918.553	15.347	0.030000
923.482	15.154	0.030000
928.412	15.153	0.030000
933.341	15.120	0.030000
938.270	15.177	0.030000
943.199	15.224	0.030000
948.129	15.646	0.030000
953.058	15.753	0.030000
957.399	15.696	0.030000
961.741	15.587	0.030000
966.082	15.193	0.030000
970.424	15.334	0.030000
974.765	15.544	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XJ0190A      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.134	0.030000
4.562	15.037	0.030000
9.123	14.882	0.030000
13.685	14.800	0.030000
18.093	14.664	0.030000
22.501	14.578	0.030000
26.909	14.519	0.030000
31.317	14.464	0.030000
35.725	14.491	0.030000
40.133	15.249	0.030000
44.541	15.994	0.030000
48.949	16.457	0.030000
53.830	16.363	0.030000
58.712	15.917	0.030000
63.593	15.394	0.030000
68.474	15.333	0.030000
73.355	15.225	0.030000
78.236	15.026	0.030000
83.117	15.029	0.030000
87.999	15.148	0.030000
92.880	15.328	0.030000
97.761	15.524	0.030000
102.642	16.024	0.030000
107.523	16.876	0.030000
112.404	17.578	0.030000
117.285	17.963	0.030000
122.036	17.332	0.030000
126.787	16.069	0.030000
131.539	14.930	0.030000
136.290	14.560	0.030000
141.041	14.803	0.030000
145.792	15.016	0.030000
150.543	14.987	0.030000
155.294	14.915	0.030000
160.045	14.930	0.030000
164.796	15.369	0.030000
169.547	15.414	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

174.298	16.411	0.030000
179.049	17.210	0.030000
183.800	16.956	0.030000
188.552	16.615	0.030000
192.332	16.430	0.030000
196.112	16.138	0.030000
199.892	15.907	0.030000
203.672	15.700	0.030000
208.182	15.514	0.030000
212.693	15.549	0.030000
217.204	15.452	0.030000
221.715	15.049	0.030000
225.075	15.053	0.030000
228.434	15.075	0.030000
231.793	15.103	0.030000
236.562	15.252	0.030000
241.330	15.300	0.030000
246.098	15.270	0.030000
250.867	15.353	0.030000
255.635	15.321	0.030000
260.403	15.218	0.030000
265.172	15.086	0.030000
269.940	15.208	0.030000
274.708	15.285	0.030000
279.476	15.334	0.030000

-----  
Name: XJ0200A                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	15.544	0.030000
3.480	15.595	0.030000
6.960	15.456	0.030000
10.440	15.508	0.030000
14.242	15.565	0.030000
18.044	15.492	0.030000
21.846	15.352	0.030000
25.647	15.435	0.030000
30.647	15.658	0.030000
35.647	15.729	0.030000
40.647	15.870	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

45.647	16.030	0.030000
50.647	15.998	0.030000
55.062	15.974	0.030000
59.476	15.839	0.030000
63.891	15.833	0.030000
68.305	15.958	0.030000
71.927	15.922	0.030000
75.549	15.792	0.030000
79.171	15.707	0.030000
83.420	15.729	0.030000
87.669	15.785	0.030000
91.918	15.793	0.030000
96.397	15.743	0.030000
100.876	15.693	0.030000
105.355	15.631	0.030000
109.834	15.659	0.030000
114.313	15.838	0.030000
118.792	15.817	0.030000
123.042	16.005	0.030000
127.291	15.981	0.030000
131.540	16.009	0.030000
135.789	15.997	0.030000
139.591	15.980	0.030000
143.393	15.829	0.030000
147.194	15.749	0.030000
150.996	15.622	0.030000
154.723	15.426	0.030000
158.450	15.226	0.030000
162.176	15.197	0.030000
166.129	15.166	0.030000
170.082	15.083	0.030000
174.035	15.100	0.030000
177.988	15.091	0.030000
182.237	15.060	0.030000
186.486	15.057	0.030000
190.735	15.133	0.030000
194.984	15.229	0.030000
199.234	15.346	0.030000
203.483	15.465	0.030000
208.483	15.511	0.030000
213.483	15.443	0.030000
215.983	15.393	0.030000
218.483	15.393	0.030000
223.483	15.373	0.030000
228.483	15.361	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

233.483	15.376	0.030000
235.983	15.383	0.030000
238.483	15.390	0.030000
242.018	15.386	0.030000
245.554	15.381	0.030000
249.089	15.397	0.030000
253.639	15.414	0.030000
258.190	15.431	0.030000
262.740	15.442	0.030000
267.290	15.461	0.030000
270.726	15.463	0.030000
274.161	15.433	0.030000
277.597	15.402	0.030000
281.785	15.318	0.030000
285.972	15.188	0.030000
290.160	15.111	0.030000
294.347	15.086	0.030000
298.535	15.194	0.030000
302.722	15.262	0.030000
306.158	15.249	0.030000
309.594	15.339	0.030000
313.030	15.432	0.030000
317.459	15.565	0.030000
321.888	15.562	0.030000
326.318	15.558	0.030000
330.747	15.626	0.030000
334.474	15.592	0.030000
338.200	15.618	0.030000
341.927	15.636	0.030000
345.677	15.594	0.030000
349.427	15.552	0.030000
353.177	15.509	0.030000
356.927	15.467	0.030000
360.654	15.393	0.030000
364.381	15.324	0.030000
368.108	15.277	0.030000
373.108	15.269	0.030000
378.108	15.167	0.030000
381.834	15.056	0.030000
385.561	15.024	0.030000
389.288	15.076	0.030000
393.636	15.002	0.030000
397.984	14.994	0.030000
402.332	15.025	0.030000
407.195	14.874	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

412.058	14.706	0.030000
416.921	14.554	0.030000
421.784	14.392	0.030000
426.647	14.274	0.030000
431.510	14.345	0.030000
435.885	14.270	0.030000
440.260	14.164	0.030000
444.635	14.117	0.030000
449.010	14.111	0.030000
453.302	14.042	0.030000
457.595	13.915	0.030000
461.887	13.887	0.030000
466.179	13.878	0.030000
470.472	13.953	0.030000
474.764	14.009	0.030000
479.056	14.003	0.030000
483.270	13.934	0.030000
487.483	14.058	0.030000
491.696	14.692	0.030000
495.909	14.878	0.030000
499.954	14.973	0.030000
503.998	15.033	0.030000
508.043	14.992	0.030000
512.074	15.080	0.030000
516.105	15.126	0.030000
520.136	15.137	0.030000
524.168	14.996	0.030000
528.199	15.038	0.030000
531.635	15.033	0.030000
535.071	14.830	0.030000
538.506	14.779	0.030000
541.942	14.838	0.030000
545.378	14.866	0.030000
548.814	14.808	0.030000
552.845	14.762	0.030000
556.876	14.771	0.030000
560.908	14.850	0.030000
564.939	14.884	0.030000
568.970	14.921	0.030000
573.219	14.989	0.030000
577.468	15.022	0.030000
581.717	14.915	0.030000
585.967	14.892	0.030000
589.973	14.709	0.030000
593.980	14.786	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

597.987	14.864	0.030000
601.994	14.904	0.030000
606.001	14.876	0.030000
610.376	14.768	0.030000
614.751	14.828	0.030000
619.126	14.874	0.030000
623.501	14.884	0.030000
627.454	14.868	0.030000
631.407	14.878	0.030000
635.360	14.893	0.030000
639.313	14.904	0.030000
643.211	14.898	0.030000
647.110	14.894	0.030000
651.009	14.904	0.030000
654.908	14.909	0.030000
658.807	14.898	0.030000
662.705	14.886	0.030000
666.893	14.869	0.030000
671.080	14.856	0.030000
675.268	14.846	0.030000
679.455	14.957	0.030000
683.643	15.090	0.030000
687.830	15.128	0.030000
691.875	15.288	0.030000
695.919	15.282	0.030000
699.964	15.163	0.030000
704.093	15.093	0.030000
708.222	15.028	0.030000
712.352	14.964	0.030000
715.888	14.898	0.030000
719.423	14.916	0.030000
722.959	14.998	0.030000
726.990	15.064	0.030000
731.021	15.038	0.030000
735.052	14.851	0.030000
739.083	14.677	0.030000
743.114	14.639	0.030000
747.363	14.645	0.030000
751.613	14.468	0.030000
755.862	14.531	0.030000
760.111	14.552	0.030000
764.360	14.609	0.030000
768.609	14.618	0.030000
772.776	14.614	0.030000
776.943	14.686	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

781.109	14.775	0.030000
785.276	14.755	0.030000
789.443	14.659	0.030000
793.609	14.604	0.030000
797.045	14.626	0.030000
800.481	14.748	0.030000
803.917	14.667	0.030000
808.346	14.528	0.030000
812.776	14.599	0.030000
817.263	14.725	0.030000
821.751	14.711	0.030000
826.239	14.887	0.030000
830.726	15.034	0.030000
835.214	15.134	0.030000
838.941	15.142	0.030000
842.667	15.159	0.030000
846.394	15.089	0.030000
850.121	15.024	0.030000
853.848	15.074	0.030000
857.574	14.994	0.030000
862.100	15.065	0.030000
866.625	15.252	0.030000
871.151	15.184	0.030000
875.676	14.961	0.030000
880.201	14.967	0.030000
884.727	15.060	0.030000
889.252	15.038	0.030000
893.266	15.103	0.030000
897.280	15.145	0.030000
901.294	15.088	0.030000
905.308	14.935	0.030000
909.321	15.006	0.030000
913.669	14.942	0.030000
918.017	14.937	0.030000
922.365	15.041	0.030000
926.488	15.009	0.030000
930.611	14.877	0.030000
934.734	14.942	0.030000
938.857	15.025	0.030000
942.981	15.040	0.030000
947.230	15.019	0.030000
951.479	15.001	0.030000
955.728	15.249	0.030000
960.216	15.182	0.030000
964.703	15.238	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

969.191	15.106	0.030000
973.575	15.078	0.030000
977.960	15.073	0.030000
982.344	15.161	0.030000
986.728	15.043	0.030000
991.113	15.140	0.030000
995.715	15.130	0.030000
1000.317	15.101	0.030000
1004.919	15.053	0.030000
1009.522	15.029	0.030000
1014.124	15.048	0.030000
1018.726	15.060	0.030000
1023.328	15.066	0.030000
1027.931	15.079	0.030000
1031.367	15.048	0.030000
1034.802	15.017	0.030000
1038.238	14.986	0.030000
1041.674	14.919	0.030000
1045.110	14.874	0.030000
1048.546	14.863	0.030000
1052.795	14.923	0.030000
1057.044	15.126	0.030000
1061.294	15.186	0.030000
1065.543	15.344	0.030000
1069.927	15.439	0.030000
1074.311	15.450	0.030000
1078.696	15.024	0.030000
1083.080	15.030	0.030000
1087.464	15.032	0.030000
1091.266	14.968	0.030000
1095.068	14.942	0.030000
1098.870	14.933	0.030000
1102.671	14.909	0.030000
1106.473	14.921	0.030000
1110.275	15.002	0.030000
1114.076	14.996	0.030000
1117.878	15.039	0.030000
1122.066	15.101	0.030000
1126.253	15.124	0.030000
1130.440	15.185	0.030000
1134.628	15.082	0.030000
1138.815	15.204	0.030000
1143.003	15.315	0.030000
1146.902	15.366	0.030000
1150.801	15.408	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1154.699	15.296	0.030000
1159.668	15.202	0.030000
1164.637	15.087	0.030000
1169.606	14.994	0.030000
1174.036	15.115	0.030000
1178.465	15.169	0.030000
1182.364	15.134	0.030000
1186.262	15.149	0.030000
1190.161	15.218	0.030000
1194.954	15.160	0.030000
1199.747	15.093	0.030000
1204.540	15.054	0.030000
1209.332	15.043	0.030000
1214.125	15.058	0.030000
1218.918	15.154	0.030000
1223.711	15.161	0.030000
1228.504	15.169	0.030000
1233.267	15.217	0.030000
1238.030	15.198	0.030000
1242.794	15.202	0.030000
1247.557	15.261	0.030000
1252.321	15.375	0.030000
1257.084	15.466	0.030000
1261.847	15.530	0.030000
1266.277	15.510	0.030000
1270.706	15.395	0.030000
1275.300	15.192	0.030000
1279.894	14.919	0.030000
1284.488	14.702	0.030000
1289.082	14.977	0.030000
1293.676	15.327	0.030000
1298.270	15.475	0.030000
1302.864	15.841	0.030000
1307.458	15.969	0.030000
1311.745	15.786	0.030000
1316.032	15.598	0.030000
1320.320	15.256	0.030000
1324.607	14.914	0.030000
1328.895	15.232	0.030000
1333.182	15.436	0.030000
1337.469	15.205	0.030000
1341.817	15.005	0.030000
1346.165	15.371	0.030000
1350.513	15.398	0.030000
1355.464	15.343	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1360.415	15.347	0.030000
1365.366	15.403	0.030000
1370.318	15.615	0.030000
1375.269	15.703	0.030000
1379.526	15.909	0.030000
1383.783	15.976	0.030000
1388.041	15.778	0.030000
1392.298	15.630	0.030000
1396.555	15.495	0.030000
1400.600	15.401	0.030000
1404.644	15.345	0.030000
1408.689	15.303	0.030000
1413.136	15.199	0.030000
1417.582	15.144	0.030000
1422.029	15.303	0.030000
1426.475	15.403	0.030000
1430.922	15.458	0.030000
1435.369	15.440	0.030000
1439.119	15.427	0.030000
1442.869	15.505	0.030000
1446.619	15.541	0.030000
1450.369	15.568	0.030000
1454.095	15.583	0.030000
1457.822	15.604	0.030000
1461.549	15.629	0.030000
1466.207	15.667	0.030000
1470.866	15.662	0.030000
1475.524	15.616	0.030000
1480.183	15.574	0.030000
1484.841	15.436	0.030000
1489.500	15.280	0.030000
1493.623	15.102	0.030000
1497.746	14.957	0.030000
1501.869	14.983	0.030000
1505.992	15.081	0.030000
1510.115	15.149	0.030000
1514.622	15.170	0.030000
1519.129	15.265	0.030000
1522.856	15.244	0.030000
1526.583	15.175	0.030000
1530.310	15.079	0.030000
1534.208	15.029	0.030000
1538.107	15.002	0.030000
1542.006	14.978	0.030000
1546.420	15.009	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1550.835	14.913	0.030000
1555.249	14.915	0.030000
1559.664	14.936	0.030000
1563.695	14.977	0.030000
1567.726	15.167	0.030000
1571.757	15.261	0.030000
1575.789	15.345	0.030000
1579.820	15.416	0.030000
1584.534	15.273	0.030000
1589.248	15.164	0.030000
1593.962	15.183	0.030000
1597.845	15.160	0.030000
1601.728	15.079	0.030000
1605.611	14.930	0.030000
1609.494	14.884	0.030000
1613.221	14.866	0.030000
1616.948	14.900	0.030000
1620.674	14.891	0.030000
1625.103	14.892	0.030000
1629.533	14.863	0.030000
1633.962	14.802	0.030000
1638.391	14.923	0.030000
1643.391	14.987	0.030000
1648.391	14.887	0.030000
1652.820	14.808	0.030000
1657.250	14.672	0.030000
1661.679	14.589	0.030000
1666.108	14.607	0.030000
1670.456	14.629	0.030000
1674.804	14.652	0.030000
1679.152	14.666	0.030000
1683.401	14.705	0.030000
1687.650	14.749	0.030000
1691.899	14.790	0.030000
1696.149	14.826	0.030000
1701.149	14.932	0.030000
1706.149	15.040	0.030000
1709.584	15.071	0.030000
1713.020	14.924	0.030000
1716.456	14.866	0.030000
1719.892	14.896	0.030000
1723.328	14.944	0.030000
1726.764	14.942	0.030000
1730.566	14.909	0.030000
1734.368	14.686	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1738.169	14.669	0.030000
1741.971	14.622	0.030000
1745.407	14.579	0.030000
1748.843	14.566	0.030000
1752.279	14.577	0.030000
1757.279	14.597	0.030000
1762.279	14.604	0.030000
1764.779	14.606	0.030000
1767.279	14.557	0.030000
1771.552	14.609	0.030000
1775.824	14.800	0.030000
1780.097	14.826	0.030000
1784.370	14.821	0.030000
1788.643	14.835	0.030000

Name: XJ0210B                      Group: J  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.499	0.030000
4.989	14.653	0.030000
9.977	14.543	0.030000
14.966	14.470	0.030000
19.954	14.647	0.030000
24.943	14.695	0.030000
29.931	14.658	0.030000
34.920	14.844	0.030000
39.908	14.847	0.030000
44.897	14.808	0.030000
49.885	14.609	0.030000
54.874	14.656	0.030000
59.862	14.720	0.030000
64.851	14.700	0.030000
69.840	14.713	0.030000
74.828	14.794	0.030000
79.817	14.698	0.030000
84.805	14.647	0.030000
89.794	14.563	0.030000
94.782	14.634	0.030000
99.771	14.647	0.030000
104.759	14.575	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

109.748	14.500	0.030000
114.737	14.418	0.030000
119.725	14.563	0.030000
124.714	14.663	0.030000
129.702	14.574	0.030000
134.691	14.636	0.030000
139.679	14.630	0.030000
144.668	14.536	0.030000
149.656	14.311	0.030000
154.645	14.504	0.030000
159.633	14.453	0.030000
164.622	14.433	0.030000
169.610	14.452	0.030000
174.599	14.356	0.030000
179.588	14.432	0.030000
184.576	14.434	0.030000
189.565	14.455	0.030000
194.553	14.319	0.030000
199.542	14.301	0.030000
204.530	14.249	0.030000
209.519	14.354	0.030000
214.507	14.349	0.030000
219.496	14.382	0.030000
224.484	14.337	0.030000
229.473	14.324	0.030000
234.462	14.288	0.030000
239.450	14.189	0.030000
244.439	14.262	0.030000
249.427	14.401	0.030000
254.416	14.350	0.030000
259.404	14.366	0.030000
264.393	14.355	0.030000
269.381	14.445	0.030000
274.370	14.500	0.030000
279.358	14.409	0.030000
284.347	14.226	0.030000
289.336	14.293	0.030000
294.324	14.291	0.030000
299.313	14.238	0.030000
304.301	14.326	0.030000
309.290	14.322	0.030000
314.278	14.342	0.030000
319.267	14.301	0.030000
324.255	14.180	0.030000
329.244	14.304	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

334.232	14.368	0.030000
339.221	14.440	0.030000
344.209	14.471	0.030000
349.198	14.477	0.030000
354.187	14.429	0.030000
359.175	14.317	0.030000
364.164	14.236	0.030000
369.152	14.185	0.030000
374.141	14.160	0.030000
379.129	14.181	0.030000
384.118	14.082	0.030000
389.106	14.050	0.030000
394.095	13.964	0.030000
399.083	13.979	0.030000
404.072	13.947	0.030000
409.060	13.939	0.030000
414.049	13.913	0.030000
419.038	13.940	0.030000
424.026	13.839	0.030000
429.015	13.844	0.030000
434.003	13.821	0.030000
438.992	13.768	0.030000
443.980	13.695	0.030000
448.969	13.713	0.030000
453.957	13.735	0.030000

-----

Name: XJ0210C	Group: J
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	13.735	0.030000
4.953	13.129	0.030000
9.905	12.581	0.030000
14.858	12.975	0.030000
19.810	13.752	0.030000
24.763	14.080	0.030000
29.715	14.278	0.030000
34.668	14.204	0.030000
39.621	14.098	0.030000
44.573	14.078	0.030000
49.526	13.922	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

54.478	14.066	0.030000
59.431	14.087	0.030000
64.384	14.334	0.030000
69.336	14.370	0.030000
74.289	14.301	0.030000
79.242	14.404	0.030000
84.194	14.460	0.030000
89.147	14.495	0.030000
94.099	14.493	0.030000
99.052	14.506	0.030000
104.004	14.352	0.030000
108.957	14.524	0.030000
113.910	14.461	0.030000
118.862	14.386	0.030000
123.815	14.200	0.030000
128.767	14.162	0.030000
133.720	14.085	0.030000
138.673	14.129	0.030000
143.625	14.090	0.030000
148.578	14.057	0.030000
153.530	13.999	0.030000
158.483	13.979	0.030000
163.435	13.984	0.030000
168.388	14.207	0.030000
173.341	14.234	0.030000
178.293	14.297	0.030000
183.246	14.532	0.030000
188.199	14.639	0.030000
193.151	14.404	0.030000
198.104	14.254	0.030000
203.056	14.405	0.030000
208.009	14.270	0.030000
212.961	14.349	0.030000
217.914	14.345	0.030000
222.867	14.325	0.030000
227.819	14.180	0.030000
232.772	14.200	0.030000
237.724	14.122	0.030000
242.677	14.097	0.030000
247.630	14.046	0.030000
252.582	14.021	0.030000
257.535	14.108	0.030000
262.487	14.100	0.030000
267.440	14.195	0.030000
272.392	14.185	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

277.345	14.056	0.030000
282.298	13.923	0.030000
287.250	13.956	0.030000
292.203	13.962	0.030000
297.156	14.021	0.030000
302.108	14.166	0.030000
307.061	14.142	0.030000
312.013	14.169	0.030000
316.966	14.273	0.030000
321.918	14.354	0.030000
326.871	14.439	0.030000
331.824	14.447	0.030000
336.776	14.469	0.030000
341.729	14.499	0.030000
346.681	14.422	0.030000
351.634	14.426	0.030000
356.587	14.444	0.030000
361.539	14.435	0.030000
366.492	14.458	0.030000
371.444	14.533	0.030000
376.397	14.586	0.030000
381.349	14.632	0.030000
386.302	14.629	0.030000
391.219	14.477	0.030000
396.135	14.411	0.030000
401.052	14.451	0.030000
405.968	14.391	0.030000
410.885	14.376	0.030000
415.801	14.399	0.030000
420.717	14.332	0.030000
425.634	14.374	0.030000
430.550	14.415	0.030000
435.467	14.493	0.030000
440.383	14.538	0.030000
445.300	14.587	0.030000
450.216	14.672	0.030000
455.133	14.787	0.030000
460.049	15.090	0.030000
464.966	15.289	0.030000
469.882	15.175	0.030000
474.799	14.969	0.030000
479.715	14.685	0.030000
484.632	14.548	0.030000
489.548	14.543	0.030000
494.465	14.555	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

499.381	14.599	0.030000
504.298	14.702	0.030000
509.214	14.645	0.030000
514.131	14.581	0.030000
519.047	14.655	0.030000
523.963	14.622	0.030000
528.880	14.668	0.030000
533.797	14.532	0.030000
538.713	14.683	0.030000
543.629	14.777	0.030000
548.546	14.865	0.030000
553.462	15.115	0.030000
558.379	15.187	0.030000
563.295	15.150	0.030000
568.212	15.131	0.030000
573.128	15.182	0.030000
578.045	15.277	0.030000
582.961	15.234	0.030000
587.878	15.161	0.030000
592.794	15.076	0.030000
597.711	15.117	0.030000
602.627	15.229	0.030000
607.544	15.231	0.030000
612.460	15.066	0.030000
617.377	14.857	0.030000
622.293	14.664	0.030000

-----

Name: XJ0210D	Group: J
Encroachment: No	

-----

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

-----

0.000	14.835	0.030000
4.987	14.820	0.030000
9.975	14.780	0.030000
14.556	14.638	0.030000
19.137	14.653	0.030000
23.718	14.907	0.030000
28.300	14.902	0.030000
32.881	14.934	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

Name: XJ0210E      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.835	0.030000
4.952	14.813	0.030000
9.904	14.810	0.030000
14.856	14.836	0.030000
19.808	14.843	0.030000
24.760	14.842	0.030000
29.712	14.797	0.030000
34.664	14.762	0.030000
39.616	14.736	0.030000
44.568	14.725	0.030000
49.520	14.769	0.030000
54.472	14.792	0.030000
59.424	14.665	0.030000
64.376	14.723	0.030000
69.328	14.713	0.030000
74.280	14.769	0.030000
79.232	14.799	0.030000
84.184	14.812	0.030000
89.136	14.857	0.030000
94.088	14.780	0.030000
99.040	14.551	0.030000
103.992	14.429	0.030000
108.944	14.435	0.030000
113.896	14.421	0.030000
118.848	14.435	0.030000
123.800	14.506	0.030000
128.752	14.474	0.030000
133.704	14.528	0.030000
138.656	14.565	0.030000
143.608	14.627	0.030000
148.560	14.665	0.030000
153.512	14.630	0.030000
158.464	14.643	0.030000
163.416	14.742	0.030000
168.368	14.664	0.030000
173.320	14.747	0.030000
178.272	14.743	0.030000
183.224	14.910	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

188.176	14.955	0.030000
193.128	14.933	0.030000
198.080	15.002	0.030000
203.032	15.146	0.030000
207.984	15.029	0.030000
212.936	14.829	0.030000
217.888	14.718	0.030000
222.840	14.624	0.030000
227.792	14.727	0.030000
232.744	14.682	0.030000
237.696	14.627	0.030000
242.648	14.593	0.030000
247.600	14.581	0.030000
252.552	14.548	0.030000
257.504	14.509	0.030000
262.456	14.481	0.030000
267.408	14.732	0.030000
272.360	14.696	0.030000
277.312	14.751	0.030000
282.264	14.670	0.030000
287.216	14.655	0.030000
292.168	14.506	0.030000
297.120	14.486	0.030000
302.072	14.523	0.030000
307.024	14.503	0.030000
311.976	14.380	0.030000
316.928	14.339	0.030000
321.880	14.357	0.030000
326.832	14.352	0.030000
331.784	14.355	0.030000
336.736	14.385	0.030000
341.688	14.465	0.030000
346.640	14.439	0.030000
351.592	14.472	0.030000
356.544	14.477	0.030000
361.496	14.548	0.030000
366.448	14.577	0.030000
371.400	14.529	0.030000
376.352	14.397	0.030000
381.304	14.376	0.030000
386.256	14.384	0.030000
391.208	14.310	0.030000
396.160	14.321	0.030000
401.112	14.341	0.030000
406.064	14.309	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

411.016	14.250	0.030000
415.968	14.243	0.030000
420.920	14.225	0.030000
425.872	14.194	0.030000
430.824	14.206	0.030000
435.776	14.177	0.030000
440.728	14.139	0.030000
445.680	14.159	0.030000
450.632	14.134	0.030000
455.584	14.059	0.030000
460.536	14.063	0.030000
465.488	14.098	0.030000
470.440	14.067	0.030000
475.392	14.027	0.030000
480.344	14.011	0.030000
485.296	13.996	0.030000
490.248	13.950	0.030000
495.200	13.916	0.030000
500.152	13.910	0.030000
505.104	13.907	0.030000
510.056	13.930	0.030000
515.008	13.937	0.030000
519.996	13.904	0.030000
524.985	13.880	0.030000
529.973	13.927	0.030000
534.961	13.903	0.030000
539.949	13.894	0.030000
544.937	13.886	0.030000
549.925	13.892	0.030000
554.913	13.888	0.030000
559.901	13.900	0.030000
564.889	13.913	0.030000
569.877	13.917	0.030000
574.865	13.913	0.030000
579.854	13.897	0.030000
584.842	13.881	0.030000
589.830	13.888	0.030000
594.818	13.882	0.030000
599.806	13.888	0.030000
604.794	13.881	0.030000
609.782	13.907	0.030000
614.770	13.922	0.030000
619.758	14.020	0.030000
624.746	13.971	0.030000
629.734	14.089	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

634.722	14.390	0.030000
639.711	14.370	0.030000
644.699	14.346	0.030000
649.687	14.338	0.030000
654.675	14.365	0.030000
659.663	14.474	0.030000
664.651	14.563	0.030000
669.639	14.454	0.030000
674.044	14.524	0.030000
678.450	14.677	0.030000
682.855	14.687	0.030000
687.260	14.618	0.030000
691.665	14.588	0.030000
696.071	14.664	0.030000

Name: XJ0220A                      Group: J  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.165	0.030000
4.981	14.202	0.030000
9.961	14.204	0.030000
14.942	14.146	0.030000
19.923	14.091	0.030000
24.904	14.214	0.030000
29.885	14.145	0.030000
34.865	14.233	0.030000
39.846	14.147	0.030000
44.827	14.138	0.030000
49.808	14.101	0.030000
54.788	14.110	0.030000
59.769	14.217	0.030000
64.750	14.258	0.030000
69.731	14.466	0.030000
74.711	14.504	0.030000
79.692	14.527	0.030000
84.673	14.470	0.030000
89.654	14.341	0.030000
94.634	14.395	0.030000
99.615	14.368	0.030000
104.596	14.311	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

109.577	14.307	0.030000
114.558	14.351	0.030000
119.538	14.398	0.030000
124.519	14.400	0.030000
129.500	14.401	0.030000
134.481	14.466	0.030000
139.461	14.483	0.030000
144.442	14.375	0.030000
149.423	14.454	0.030000
154.404	14.434	0.030000
159.384	14.474	0.030000
164.365	14.535	0.030000
169.346	14.696	0.030000
174.327	14.867	0.030000
179.307	15.051	0.030000
184.288	15.205	0.030000
189.269	15.146	0.030000
194.250	14.987	0.030000
199.230	14.691	0.030000
204.211	14.441	0.030000
209.192	14.407	0.030000
214.173	14.477	0.030000
219.153	14.555	0.030000
224.134	14.682	0.030000
229.115	14.688	0.030000
234.096	14.574	0.030000
239.077	14.436	0.030000
244.057	14.296	0.030000
249.038	14.197	0.030000
254.019	14.195	0.030000
258.926	14.145	0.030000
263.834	14.099	0.030000
268.741	14.021	0.030000
273.649	14.022	0.030000
278.556	14.008	0.030000
283.463	14.036	0.030000
288.371	14.123	0.030000
293.278	14.052	0.030000
298.186	13.921	0.030000
303.093	13.883	0.030000
308.001	13.972	0.030000
312.908	14.015	0.030000
317.815	13.860	0.030000
322.723	13.828	0.030000
327.630	13.880	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

332.538	14.013	0.030000
337.445	13.957	0.030000
342.353	13.644	0.030000
347.260	13.482	0.030000
352.168	13.667	0.030000
357.075	13.937	0.030000
361.983	14.008	0.030000
366.890	14.169	0.030000
371.797	13.842	0.030000
376.705	13.922	0.030000
381.612	13.943	0.030000
386.520	13.878	0.030000
391.427	13.991	0.030000
396.335	14.336	0.030000
401.242	14.489	0.030000
406.150	14.711	0.030000
411.057	14.936	0.030000
415.964	14.944	0.030000
420.872	15.035	0.030000
425.779	14.943	0.030000
430.687	14.723	0.030000
435.594	14.560	0.030000
440.502	14.686	0.030000
445.409	14.694	0.030000
450.397	14.746	0.030000
455.385	14.777	0.030000
460.372	14.702	0.030000
465.360	14.676	0.030000
470.348	14.783	0.030000
475.335	14.823	0.030000
480.323	14.829	0.030000
485.311	14.826	0.030000
490.298	14.892	0.030000
495.286	14.843	0.030000
500.274	14.871	0.030000
505.261	14.820	0.030000
510.249	14.784	0.030000
515.237	14.831	0.030000
520.225	14.833	0.030000
525.212	14.861	0.030000
530.200	14.848	0.030000
535.188	14.915	0.030000
540.175	14.910	0.030000
545.163	14.943	0.030000
550.151	14.933	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

555.138	14.922	0.030000
560.126	15.018	0.030000
565.114	14.950	0.030000
570.101	14.855	0.030000
575.089	14.791	0.030000
580.077	14.889	0.030000
585.064	14.871	0.030000
590.052	14.863	0.030000
595.040	14.810	0.030000
600.028	14.851	0.030000
605.015	14.873	0.030000
610.003	14.734	0.030000
614.991	14.699	0.030000
619.978	14.617	0.030000
624.966	14.530	0.030000
629.954	14.403	0.030000
634.941	14.566	0.030000
639.929	14.557	0.030000
644.917	14.493	0.030000
649.904	14.437	0.030000
654.892	14.497	0.030000
659.880	14.488	0.030000
664.867	14.451	0.030000
669.855	14.394	0.030000
674.843	14.337	0.030000
679.831	14.227	0.030000
684.818	14.286	0.030000
689.806	14.265	0.030000
694.794	14.253	0.030000
699.781	14.232	0.030000
704.769	14.285	0.030000
709.757	14.227	0.030000
714.744	14.186	0.030000
719.732	14.154	0.030000
724.720	14.182	0.030000
729.707	14.256	0.030000
734.695	14.259	0.030000
739.683	14.257	0.030000
744.670	14.109	0.030000
749.658	14.165	0.030000
754.646	14.144	0.030000
759.634	14.095	0.030000
764.621	14.046	0.030000
769.609	14.087	0.030000
774.597	14.169	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

779.584	14.059	0.030000
784.572	13.968	0.030000
789.560	13.828	0.030000
794.547	13.735	0.030000

Name: XJ0230B                      Group: J  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.664	0.030000
4.968	14.481	0.030000
9.935	14.512	0.030000
14.902	14.811	0.030000
19.870	14.860	0.030000
24.837	14.872	0.030000
29.805	14.881	0.030000
34.772	14.874	0.030000
39.740	14.863	0.030000
44.707	14.893	0.030000
49.675	15.093	0.030000
54.642	14.966	0.030000
59.609	14.607	0.030000
64.577	14.129	0.030000
69.544	13.615	0.030000
74.512	13.097	0.030000
79.479	12.680	0.030000
84.447	12.922	0.030000
89.414	13.468	0.030000
94.382	14.022	0.030000
99.349	14.593	0.030000
104.317	14.648	0.030000
109.284	14.405	0.030000
114.251	13.796	0.030000
119.219	13.952	0.030000
124.186	14.370	0.030000
129.154	14.382	0.030000
134.121	14.288	0.030000
139.089	14.184	0.030000
144.056	14.045	0.030000
149.024	14.102	0.030000
153.991	13.858	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

158.958	13.931	0.030000
163.926	14.159	0.030000
168.893	14.517	0.030000
173.861	14.628	0.030000
178.828	14.697	0.030000
183.796	14.764	0.030000
188.763	14.781	0.030000
193.731	14.934	0.030000
198.698	15.049	0.030000
203.666	15.112	0.030000
208.633	14.944	0.030000
213.600	14.957	0.030000
218.568	14.769	0.030000
223.535	14.674	0.030000
228.503	14.539	0.030000
233.470	14.351	0.030000
238.438	14.387	0.030000
243.405	14.410	0.030000
248.373	14.405	0.030000
253.340	14.568	0.030000
258.308	14.448	0.030000
263.275	14.330	0.030000
268.242	14.622	0.030000
273.210	14.764	0.030000
278.177	14.980	0.030000
283.145	15.029	0.030000
288.112	14.600	0.030000
293.080	14.544	0.030000
298.047	14.621	0.030000
303.015	14.677	0.030000
307.982	14.739	0.030000
312.950	14.803	0.030000
317.917	14.837	0.030000
322.884	14.847	0.030000
327.852	14.844	0.030000
332.819	14.776	0.030000
337.787	14.608	0.030000
342.754	14.123	0.030000
347.722	13.477	0.030000
352.592	13.624	0.030000
357.462	13.602	0.030000
362.333	13.506	0.030000
367.203	13.578	0.030000
372.074	13.857	0.030000
376.944	13.957	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

381.815	13.885	0.030000
386.685	13.821	0.030000
391.555	13.739	0.030000
396.426	13.681	0.030000
401.296	13.870	0.030000
406.167	14.057	0.030000
411.037	14.415	0.030000
415.908	14.548	0.030000
420.778	14.377	0.030000
425.648	14.076	0.030000
430.519	13.706	0.030000
435.389	13.875	0.030000
440.260	13.872	0.030000
445.130	14.423	0.030000
450.000	14.730	0.030000
454.871	15.028	0.030000
459.741	15.053	0.030000
464.612	14.647	0.030000
469.482	14.443	0.030000
474.353	14.431	0.030000
479.325	14.639	0.030000
484.298	14.741	0.030000
489.270	14.604	0.030000
494.242	14.420	0.030000
499.215	14.299	0.030000
504.187	14.230	0.030000
509.160	14.217	0.030000
514.132	14.215	0.030000
519.105	14.131	0.030000
524.077	14.085	0.030000
529.049	14.086	0.030000
534.022	14.065	0.030000
538.994	14.070	0.030000
543.967	14.080	0.030000
548.939	14.108	0.030000
553.912	14.118	0.030000
558.884	14.079	0.030000
563.857	14.097	0.030000
568.829	14.138	0.030000
573.802	14.132	0.030000
578.774	14.154	0.030000
583.746	14.233	0.030000
588.719	14.262	0.030000
593.691	14.266	0.030000
598.664	14.293	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

603.636	14.331	0.030000
608.515	14.354	0.030000
613.393	14.332	0.030000
618.271	14.346	0.030000
623.149	14.347	0.030000
628.028	14.414	0.030000
632.906	14.341	0.030000
637.784	14.410	0.030000
642.663	14.346	0.030000
647.541	14.212	0.030000
652.419	14.189	0.030000
657.298	14.237	0.030000
662.176	14.240	0.030000
667.054	14.277	0.030000
671.933	14.176	0.030000
676.811	14.192	0.030000
681.689	14.193	0.030000
686.568	14.235	0.030000
691.446	14.168	0.030000
696.029	14.132	0.030000
700.612	14.011	0.030000
705.194	13.942	0.030000
709.777	13.876	0.030000
714.360	13.891	0.030000
718.943	13.849	0.030000
723.525	13.730	0.030000
728.108	13.699	0.030000
732.691	13.592	0.030000
737.273	13.520	0.030000
741.856	13.478	0.030000
746.292	13.395	0.030000
750.729	13.300	0.030000
755.165	13.301	0.030000

Name: XJ0240B                      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	14.310	0.030000
4.943	14.315	0.030000
9.886	14.257	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

14.828	14.168	0.030000
19.771	14.154	0.030000
24.714	14.097	0.030000
29.657	14.134	0.030000
34.599	14.069	0.030000
39.542	13.841	0.030000
44.485	13.611	0.030000
49.428	13.440	0.030000
54.370	13.650	0.030000
59.313	13.800	0.030000
64.256	13.753	0.030000
69.199	13.813	0.030000
74.141	13.848	0.030000
79.084	13.819	0.030000
82.418	13.793	0.030000
85.751	13.716	0.030000
89.084	13.731	0.030000
94.045	13.746	0.030000
99.006	13.703	0.030000
103.967	13.660	0.030000
108.928	13.644	0.030000
113.889	13.621	0.030000
118.850	13.621	0.030000
123.811	13.646	0.030000
128.772	13.622	0.030000
133.733	13.635	0.030000
138.694	13.578	0.030000
143.655	13.521	0.030000
148.616	13.589	0.030000
153.577	13.572	0.030000
158.538	13.542	0.030000
163.499	13.503	0.030000
168.460	13.452	0.030000
173.421	13.430	0.030000
178.382	13.513	0.030000
183.343	13.451	0.030000
188.304	13.401	0.030000
193.265	13.393	0.030000
198.225	13.394	0.030000
203.186	13.370	0.030000
208.147	13.317	0.030000
213.108	13.302	0.030000
218.069	13.342	0.030000
223.030	13.304	0.030000
227.991	13.318	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

232.952	13.320	0.030000
237.913	13.301	0.030000
242.874	13.298	0.030000
247.835	13.258	0.030000
252.796	13.245	0.030000
257.757	13.205	0.030000
262.718	13.223	0.030000
267.679	13.191	0.030000
272.640	13.224	0.030000
277.601	13.206	0.030000
282.562	13.177	0.030000
287.523	13.146	0.030000
292.484	13.134	0.030000
297.445	13.077	0.030000
302.406	13.147	0.030000
307.367	13.127	0.030000
312.328	13.079	0.030000
317.289	13.110	0.030000
322.250	13.096	0.030000
327.210	13.075	0.030000
332.171	13.003	0.030000
337.132	13.047	0.030000
342.096	13.051	0.030000
347.060	13.015	0.030000
352.024	13.018	0.030000
356.988	12.992	0.030000
361.952	13.025	0.030000
366.916	13.020	0.030000
371.880	12.972	0.030000
376.844	12.941	0.030000
381.808	12.945	0.030000
386.772	12.873	0.030000
391.736	12.794	0.030000
396.700	12.866	0.030000
401.664	12.872	0.030000
406.628	12.887	0.030000
411.592	12.854	0.030000
416.556	12.740	0.030000
421.520	12.793	0.030000
426.484	12.809	0.030000
431.448	12.779	0.030000
436.412	12.722	0.030000
441.376	12.763	0.030000
446.340	12.694	0.030000
451.304	12.659	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

456.268	12.702	0.030000
461.232	12.706	0.030000
466.196	12.686	0.030000
471.160	12.715	0.030000
476.124	12.691	0.030000
481.088	12.610	0.030000
486.052	12.724	0.030000
491.016	12.829	0.030000
495.980	12.781	0.030000
500.944	12.821	0.030000
505.908	12.849	0.030000
510.872	12.948	0.030000
515.836	12.937	0.030000
520.800	12.883	0.030000
525.764	12.879	0.030000
530.728	12.878	0.030000
535.692	12.885	0.030000
540.656	12.900	0.030000
545.620	12.932	0.030000
550.584	12.965	0.030000
555.548	12.930	0.030000
560.512	12.954	0.030000
565.476	13.002	0.030000
570.440	13.040	0.030000
575.404	13.053	0.030000
580.368	13.051	0.030000
585.332	13.179	0.030000
590.296	13.213	0.030000
595.260	13.248	0.030000
600.224	13.310	0.030000
605.188	13.339	0.030000
610.152	13.433	0.030000
615.116	13.354	0.030000
620.080	13.219	0.030000
625.044	13.253	0.030000
630.008	13.295	0.030000
634.972	13.323	0.030000
639.936	13.276	0.030000
644.900	13.259	0.030000
649.864	13.297	0.030000
654.828	13.345	0.030000
659.516	13.395	0.030000
664.205	13.508	0.030000
668.893	13.652	0.030000
673.582	13.667	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

678.270	13.608	0.030000
682.959	13.691	0.030000
687.647	13.783	0.030000
692.336	13.946	0.030000
697.024	14.011	0.030000
701.713	14.136	0.030000
706.401	14.152	0.030000
711.090	14.337	0.030000

Name: XJ0240D                      Group: J  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	14.310	0.030000
3.596	14.300	0.030000
7.191	14.344	0.030000
10.787	14.365	0.030000
15.124	14.378	0.030000
19.460	14.326	0.030000
23.797	14.291	0.030000
28.133	14.414	0.030000
32.470	14.560	0.030000
36.501	14.652	0.030000
40.532	14.676	0.030000
44.563	14.618	0.030000
48.594	14.526	0.030000
52.625	14.476	0.030000
55.959	14.482	0.030000
59.292	14.461	0.030000
62.625	14.405	0.030000
67.625	14.399	0.030000
70.125	14.400	0.030000
72.625	14.373	0.030000
77.625	14.299	0.030000
82.625	14.249	0.030000
85.125	14.246	0.030000
87.625	14.230	0.030000
92.625	14.092	0.030000
96.375	14.071	0.030000
100.125	14.051	0.030000
103.875	13.940	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

107.625	13.887	0.030000
110.125	13.843	0.030000
112.625	13.872	0.030000
117.625	13.954	0.030000
122.625	14.089	0.030000
126.670	14.186	0.030000
130.714	14.084	0.030000
134.759	14.260	0.030000
138.931	14.282	0.030000
143.102	14.455	0.030000
147.274	14.550	0.030000
151.446	14.568	0.030000
155.248	14.526	0.030000
159.050	14.485	0.030000
162.851	14.629	0.030000
166.653	14.634	0.030000
170.841	14.560	0.030000
175.028	14.422	0.030000
179.215	14.378	0.030000
183.403	14.333	0.030000
187.590	14.329	0.030000
191.778	14.368	0.030000
195.505	14.401	0.030000
199.231	14.359	0.030000
202.958	14.366	0.030000
206.349	14.381	0.030000
209.740	14.458	0.030000
213.130	14.546	0.030000
217.478	14.630	0.030000
221.826	14.555	0.030000
226.174	14.438	0.030000
229.507	14.318	0.030000
232.841	14.284	0.030000
236.174	14.200	0.030000
241.033	14.145	0.030000
245.892	14.251	0.030000
250.751	14.302	0.030000
255.611	14.339	0.030000
260.470	14.378	0.030000
265.329	14.511	0.030000
269.212	14.567	0.030000
273.095	14.690	0.030000
276.978	14.725	0.030000
280.861	14.841	0.030000
285.678	14.733	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

290.494	14.376	0.030000
295.311	14.317	0.030000
300.128	14.509	0.030000
304.944	14.524	0.030000
308.975	14.443	0.030000
313.007	14.338	0.030000
317.038	14.470	0.030000
321.069	14.439	0.030000
325.100	14.496	0.030000
329.544	14.590	0.030000
333.989	14.575	0.030000
338.433	14.529	0.030000
342.878	14.405	0.030000
347.322	14.299	0.030000
351.767	14.275	0.030000
356.211	14.384	0.030000
360.655	14.522	0.030000
365.100	14.637	0.030000
369.349	14.723	0.030000
373.598	14.799	0.030000
377.847	14.907	0.030000
382.097	14.796	0.030000
386.346	14.743	0.030000
390.595	14.675	0.030000
394.031	14.581	0.030000
397.467	14.518	0.030000
400.903	14.453	0.030000
404.339	14.447	0.030000
407.775	14.386	0.030000
411.211	14.459	0.030000
415.975	14.682	0.030000
420.740	14.867	0.030000
425.505	15.088	0.030000
430.270	15.348	0.030000
435.035	15.315	0.030000
439.800	15.008	0.030000
444.565	14.808	0.030000
448.694	14.709	0.030000
452.824	14.610	0.030000
456.953	14.543	0.030000
461.057	14.441	0.030000
465.160	14.338	0.030000
469.264	14.488	0.030000
473.368	14.776	0.030000
477.267	14.958	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

481.165	15.187	0.030000
485.064	15.409	0.030000
489.592	15.407	0.030000
494.120	15.297	0.030000
498.647	15.187	0.030000
503.175	15.048	0.030000
507.703	14.905	0.030000
511.618	14.757	0.030000
515.534	14.676	0.030000
519.449	14.700	0.030000
523.365	14.787	0.030000
528.216	14.662	0.030000
533.068	14.444	0.030000
537.919	14.412	0.030000
542.770	14.451	0.030000
547.770	14.489	0.030000
552.770	14.508	0.030000
557.320	14.483	0.030000
561.870	14.504	0.030000
566.421	14.594	0.030000
570.971	14.738	0.030000
575.700	14.760	0.030000
580.429	14.540	0.030000
585.158	14.490	0.030000
589.887	14.487	0.030000
594.616	14.426	0.030000
599.345	14.307	0.030000
604.073	14.437	0.030000
608.803	14.610	0.030000
613.803	14.559	0.030000
618.803	14.542	0.030000
622.755	14.558	0.030000
626.708	14.602	0.030000
630.661	14.717	0.030000
634.614	14.795	0.030000
638.050	14.818	0.030000
641.486	14.851	0.030000
644.922	14.901	0.030000
649.652	14.903	0.030000
654.382	14.879	0.030000
659.113	14.814	0.030000
663.843	14.785	0.030000
668.574	14.829	0.030000
673.304	14.878	0.030000
678.034	15.319	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

682.765	15.502	0.030000
687.495	15.607	0.030000
692.045	15.202	0.030000
696.595	14.855	0.030000
701.145	14.692	0.030000
705.695	14.618	0.030000
710.365	14.653	0.030000
715.035	14.810	0.030000
719.704	14.851	0.030000
724.176	14.692	0.030000
728.649	14.742	0.030000
733.121	14.738	0.030000
737.723	14.730	0.030000
742.325	14.692	0.030000
746.927	14.627	0.030000
751.530	14.564	0.030000
756.132	14.604	0.030000
760.734	14.554	0.030000
765.491	14.675	0.030000
770.247	14.498	0.030000
775.004	14.512	0.030000
779.760	14.566	0.030000
784.517	14.565	0.030000
789.274	14.497	0.030000
794.030	14.489	0.030000
798.787	14.550	0.030000
803.543	14.630	0.030000
808.300	14.696	0.030000
812.056	14.684	0.030000
815.811	14.655	0.030000
819.567	14.626	0.030000
823.323	14.599	0.030000
827.954	14.521	0.030000
832.585	14.460	0.030000
837.215	14.321	0.030000
841.846	14.197	0.030000
846.477	14.035	0.030000
851.089	14.050	0.030000
855.700	14.284	0.030000
860.312	14.540	0.030000
864.924	15.047	0.030000
869.704	15.522	0.030000
874.484	15.941	0.030000
879.265	16.076	0.030000
884.045	15.967	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

888.335	15.800	0.030000
892.625	15.626	0.030000
896.914	15.452	0.030000
901.259	15.269	0.030000
905.604	15.027	0.030000
909.949	14.738	0.030000
914.294	14.672	0.030000
918.639	14.553	0.030000
922.984	14.453	0.030000
927.328	14.517	0.030000
931.577	14.662	0.030000
935.827	14.808	0.030000
940.076	14.716	0.030000
944.935	14.580	0.030000
949.794	14.431	0.030000
954.653	14.345	0.030000
958.820	14.355	0.030000
962.987	14.515	0.030000
967.153	14.762	0.030000
971.320	15.018	0.030000
975.487	15.106	0.030000
979.653	14.973	0.030000
983.606	14.664	0.030000
987.559	14.439	0.030000
991.512	14.385	0.030000
995.465	14.371	0.030000
999.588	14.307	0.030000
1003.711	14.294	0.030000
1007.834	14.360	0.030000
1011.957	14.459	0.030000
1016.080	14.573	0.030000
1020.500	14.652	0.030000
1024.919	14.688	0.030000
1029.339	14.725	0.030000
1033.758	14.762	0.030000
1038.177	14.972	0.030000
1042.597	15.100	0.030000
1047.016	15.217	0.030000
1051.436	15.344	0.030000
1056.092	15.456	0.030000
1060.748	15.564	0.030000
1065.405	15.634	0.030000
1069.449	15.688	0.030000
1073.494	15.335	0.030000
1077.538	15.147	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1082.538	15.122	0.030000
1087.538	15.110	0.030000
1090.974	15.119	0.030000
1094.410	15.220	0.030000
1097.846	15.322	0.030000
1101.799	15.552	0.030000
1105.752	15.792	0.030000
1109.705	15.752	0.030000
1113.657	15.622	0.030000
1117.824	15.367	0.030000
1121.991	15.155	0.030000
1126.157	15.117	0.030000
1130.324	15.208	0.030000
1134.491	15.300	0.030000
1138.657	15.368	0.030000
1142.657	15.358	0.030000
1146.657	15.264	0.030000
1150.657	15.277	0.030000
1154.657	15.476	0.030000
1158.657	15.702	0.030000
1162.093	15.827	0.030000
1165.529	15.892	0.030000
1168.965	15.978	0.030000
1172.401	15.820	0.030000
1175.837	15.583	0.030000
1179.273	15.346	0.030000
1183.075	15.131	0.030000
1186.876	15.150	0.030000
1190.678	15.562	0.030000
1194.480	15.525	0.030000
1199.008	15.406	0.030000
1203.535	15.074	0.030000
1208.063	14.768	0.030000
1212.591	14.711	0.030000
1217.118	14.668	0.030000
1221.150	14.877	0.030000
1225.181	14.951	0.030000
1229.212	14.917	0.030000
1233.243	14.841	0.030000
1237.274	14.791	0.030000
1241.403	14.851	0.030000
1245.533	14.792	0.030000
1249.662	14.703	0.030000
1254.077	14.591	0.030000
1258.491	14.461	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

1262.906	14.470	0.030000
1267.320	14.579	0.030000
1271.122	14.662	0.030000
1274.924	14.732	0.030000
1278.726	14.784	0.030000
1282.527	14.806	0.030000
1287.527	14.785	0.030000
1292.527	14.728	0.030000
1295.027	14.689	0.030000
1297.527	14.633	0.030000
1302.527	14.589	0.030000
1307.527	14.568	0.030000
1312.527	14.588	0.030000
1317.527	14.692	0.030000
1321.813	14.679	0.030000
1326.099	14.600	0.030000
1330.384	14.594	0.030000
1334.670	14.585	0.030000
1338.956	14.613	0.030000
1343.242	14.621	0.030000
1347.527	14.626	0.030000
1351.277	14.602	0.030000
1355.027	14.587	0.030000
1358.777	14.699	0.030000
1362.527	14.706	0.030000
1365.963	14.756	0.030000
1369.399	14.775	0.030000
1372.835	14.745	0.030000
1376.562	14.711	0.030000
1380.289	14.679	0.030000
1384.015	14.664	0.030000
1387.817	14.617	0.030000
1391.619	14.559	0.030000
1395.421	14.509	0.030000
1399.222	14.465	0.030000
1403.701	14.472	0.030000
1408.180	14.388	0.030000
1412.659	14.267	0.030000
1417.138	14.295	0.030000
1421.618	14.582	0.030000
1426.097	14.766	0.030000
1430.526	14.966	0.030000
1434.955	15.095	0.030000
1439.483	15.057	0.030000
1444.010	14.912	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1448.538	14.778	0.030000
1453.066	14.662	0.030000
1457.593	14.711	0.030000
1461.343	14.653	0.030000
1465.093	14.595	0.030000
1468.843	14.551	0.030000
1472.593	14.536	0.030000
1477.081	14.344	0.030000
1481.569	14.380	0.030000
1486.056	14.333	0.030000
1490.101	14.523	0.030000
1494.145	14.894	0.030000
1498.190	15.060	0.030000
1502.634	15.284	0.030000
1507.079	15.248	0.030000
1511.523	15.151	0.030000
1515.422	14.812	0.030000
1519.321	14.568	0.030000
1523.220	14.445	0.030000
1527.770	14.360	0.030000
1532.320	14.274	0.030000
1536.870	14.189	0.030000
1541.420	14.104	0.030000
1545.613	14.069	0.030000
1549.805	14.095	0.030000
1553.998	14.187	0.030000
1558.190	14.198	0.030000
1561.726	14.121	0.030000
1565.261	14.072	0.030000
1568.797	14.045	0.030000
1573.231	13.985	0.030000
1577.664	14.033	0.030000
1582.098	14.331	0.030000
1586.532	14.630	0.030000
1590.966	14.499	0.030000

Name: XJ0260C      Group: J  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      14.249      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

4.832	14.684	0.030000
9.663	14.520	0.030000
14.495	13.999	0.030000
19.326	13.981	0.030000
24.158	14.298	0.030000
28.989	13.904	0.030000
33.821	13.982	0.030000
38.652	14.063	0.030000
43.484	13.988	0.030000
48.315	13.709	0.030000
53.147	13.614	0.030000
57.978	14.155	0.030000
62.951	14.301	0.030000
67.924	14.318	0.030000
72.896	14.332	0.030000
77.869	14.368	0.030000
82.841	14.401	0.030000
87.814	14.452	0.030000
92.787	14.438	0.030000
97.760	14.493	0.030000
102.732	14.521	0.030000
107.705	14.587	0.030000
112.677	14.637	0.030000
117.650	14.744	0.030000
122.623	14.810	0.030000
127.595	14.651	0.030000
132.568	14.493	0.030000
137.541	14.562	0.030000
142.513	14.505	0.030000
147.486	14.432	0.030000
152.459	14.371	0.030000
157.431	14.165	0.030000
162.404	14.245	0.030000
167.377	14.384	0.030000
172.349	14.481	0.030000
177.322	14.505	0.030000
181.708	14.389	0.030000
186.095	14.317	0.030000
190.481	14.337	0.030000

-----  
Name: XJ0261A\_1  
Encroachment: No

Group: J

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

-----  
0.000 10.182 0.085000  
4.519 7.071 0.085000  
9.039 4.923 0.085000  
13.558 5.020 0.085000  
18.078 5.020 0.085000  
22.597 5.020 0.085000  
27.116 5.020 0.085000  
31.636 4.944 0.085000  
36.155 6.770 0.085000  
40.674 10.088 0.085000

-----  
Name: XJ0261A\_2 Group: J  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 6.790 0.085000  
4.546 5.000 0.085000  
9.091 4.992 0.085000  
13.637 4.519 0.085000  
18.183 3.591 0.085000  
22.729 4.970 0.085000  
27.274 7.042 0.085000  
31.820 9.284 0.085000

-----  
Name: XK0010A Group: K  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

-----  
0.000 17.466 0.030000  
4.995 17.381 0.030000  
9.990 17.475 0.030000  
14.986 17.563 0.030000  
19.981 16.901 0.030000  
24.976 16.870 0.030000

Long Branch BMP Model Results  
Input Data Report Summary

29.971	16.829	0.030000
34.966	16.889	0.030000
39.961	16.715	0.030000
44.956	16.504	0.030000
49.952	16.410	0.030000
54.947	16.345	0.030000
59.942	16.626	0.030000
64.937	16.611	0.030000
69.932	16.566	0.030000
74.927	16.540	0.030000
79.923	16.529	0.030000
84.918	16.602	0.030000
89.913	16.687	0.030000
94.908	16.576	0.030000
99.903	16.542	0.030000
104.899	16.266	0.030000
109.894	16.061	0.030000
114.889	15.879	0.030000
119.884	15.900	0.030000
124.879	16.257	0.030000
129.874	16.551	0.030000
134.869	16.535	0.030000
139.865	16.487	0.030000
144.860	16.555	0.030000
149.855	16.511	0.030000
154.850	16.384	0.030000
159.845	16.378	0.030000
164.840	16.204	0.030000
169.836	16.181	0.030000
174.831	16.072	0.030000
179.826	16.628	0.030000
184.821	16.566	0.030000
189.816	16.598	0.030000
194.812	16.511	0.030000
199.807	16.465	0.030000
204.802	16.469	0.030000
209.797	16.478	0.030000
214.792	16.508	0.030000
219.787	16.692	0.030000
224.783	16.786	0.030000
229.778	16.834	0.030000
234.773	16.757	0.030000
239.768	16.656	0.030000
244.763	16.676	0.030000
249.758	16.916	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

254.754	17.102	0.030000
259.749	16.993	0.030000
264.744	17.236	0.030000
269.739	17.444	0.030000
274.734	16.930	0.030000
279.729	16.492	0.030000
284.724	16.195	0.030000
289.720	16.010	0.030000
294.715	16.081	0.030000
299.710	16.775	0.030000
304.705	16.927	0.030000
309.700	16.772	0.030000
314.695	16.491	0.030000
319.691	16.390	0.030000
324.686	16.369	0.030000
329.681	16.396	0.030000
334.676	16.562	0.030000
339.671	16.869	0.030000
344.666	16.659	0.030000
349.662	16.718	0.030000
354.657	16.447	0.030000
359.652	16.426	0.030000
364.647	16.543	0.030000
369.642	16.544	0.030000
374.637	16.453	0.030000
379.633	16.563	0.030000
384.628	16.443	0.030000
389.623	16.367	0.030000
394.618	16.377	0.030000
399.613	16.317	0.030000
404.608	16.481	0.030000
409.604	16.609	0.030000
414.599	16.671	0.030000
419.594	16.770	0.030000
424.589	16.863	0.030000
429.584	16.699	0.030000
434.579	16.574	0.030000
439.575	16.301	0.030000
444.570	16.342	0.030000
449.565	16.536	0.030000
454.560	16.545	0.030000
459.555	16.412	0.030000
464.550	16.487	0.030000
469.546	16.440	0.030000
474.541	16.363	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

479.536	16.346	0.030000
484.531	16.742	0.030000
489.526	17.073	0.030000
494.521	17.081	0.030000
499.517	17.049	0.030000
504.512	17.150	0.030000
509.507	17.001	0.030000
514.502	16.680	0.030000
519.497	16.456	0.030000
524.492	16.446	0.030000
529.488	16.695	0.030000
534.483	16.890	0.030000
539.478	17.192	0.030000
544.473	17.243	0.030000
549.468	17.245	0.030000
554.463	17.103	0.030000
559.459	16.805	0.030000
564.454	16.884	0.030000
569.449	16.646	0.030000
574.444	16.543	0.030000
579.439	16.561	0.030000
584.434	16.569	0.030000
589.430	16.719	0.030000
594.425	16.656	0.030000
599.420	16.678	0.030000
604.415	16.733	0.030000
609.410	16.829	0.030000
614.405	16.851	0.030000
619.401	16.874	0.030000
624.396	16.889	0.030000
629.391	16.780	0.030000
634.386	16.657	0.030000
639.381	16.757	0.030000
644.376	16.892	0.030000
649.372	16.926	0.030000
654.367	16.934	0.030000
659.362	17.012	0.030000
664.357	16.905	0.030000
669.352	16.850	0.030000
674.347	16.919	0.030000
679.343	17.459	0.030000
684.338	17.622	0.030000
689.333	17.804	0.030000
694.176	17.843	0.030000
699.019	17.745	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

703.861	17.660	0.030000
708.704	17.432	0.030000
713.547	17.336	0.030000
718.390	17.014	0.030000
723.232	17.253	0.030000
728.075	17.471	0.030000
732.918	17.644	0.030000
737.761	17.790	0.030000
742.604	17.850	0.030000
747.446	17.547	0.030000
752.289	17.231	0.030000
757.132	17.073	0.030000
761.975	16.856	0.030000
766.818	16.796	0.030000
771.660	16.950	0.030000
776.503	17.019	0.030000
781.346	17.068	0.030000
786.189	17.159	0.030000
791.031	17.064	0.030000

Name: XK0010B      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.549	0.030000
3.826	17.594	0.030000
7.652	17.540	0.030000
11.479	17.656	0.030000
15.510	17.489	0.030000
19.541	16.922	0.030000
23.572	16.829	0.030000
27.603	16.971	0.030000
31.634	16.885	0.030000
36.634	16.780	0.030000
41.634	16.726	0.030000
45.679	16.801	0.030000
49.723	16.813	0.030000
53.768	16.829	0.030000
58.255	17.012	0.030000
62.743	16.916	0.030000
67.231	16.831	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

71.718	16.944	0.030000
76.206	17.195	0.030000
79.642	17.272	0.030000
83.078	17.186	0.030000
86.514	17.106	0.030000
91.514	17.111	0.030000
96.514	17.001	0.030000
101.514	17.007	0.030000
105.558	17.006	0.030000
109.603	17.027	0.030000
113.647	17.030	0.030000
117.995	16.961	0.030000
122.343	16.684	0.030000
126.691	16.608	0.030000
131.550	16.651	0.030000
136.409	16.711	0.030000
141.268	16.769	0.030000
144.804	16.812	0.030000
148.339	16.856	0.030000
151.875	16.899	0.030000
156.304	16.953	0.030000
160.733	17.008	0.030000
165.447	16.971	0.030000
170.162	16.932	0.030000
174.876	16.890	0.030000
179.590	16.847	0.030000
184.304	16.802	0.030000
188.491	16.742	0.030000
192.679	16.627	0.030000
196.866	16.677	0.030000
201.054	16.726	0.030000
205.241	16.774	0.030000
209.428	16.813	0.030000
213.776	16.846	0.030000
218.124	16.878	0.030000
222.472	16.912	0.030000
227.186	16.843	0.030000
231.900	16.797	0.030000
236.614	16.852	0.030000
240.659	17.069	0.030000
244.703	17.176	0.030000
248.748	17.228	0.030000
253.614	17.104	0.030000
258.481	17.037	0.030000
263.347	17.219	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

268.213	17.409	0.030000
273.080	17.451	0.030000
277.946	17.545	0.030000
282.812	17.568	0.030000
287.679	17.588	0.030000
292.188	17.595	0.030000
296.697	17.606	0.030000
301.207	17.589	0.030000
305.716	17.574	0.030000
309.846	17.574	0.030000
313.975	17.565	0.030000
318.105	17.563	0.030000
322.285	17.537	0.030000
326.464	17.526	0.030000
330.644	17.514	0.030000
334.825	17.479	0.030000
339.005	17.488	0.030000
343.134	17.502	0.030000
347.263	17.556	0.030000
351.393	17.630	0.030000
356.117	17.558	0.030000
360.841	17.555	0.030000
365.566	17.566	0.030000
370.290	17.577	0.030000
375.014	17.577	0.030000
379.738	17.615	0.030000
383.783	17.671	0.030000
387.827	17.712	0.030000
391.872	17.731	0.030000
396.188	17.683	0.030000
400.503	17.694	0.030000
404.819	17.726	0.030000
409.135	17.757	0.030000
413.450	17.786	0.030000
418.148	17.756	0.030000
422.846	17.724	0.030000
427.544	17.690	0.030000
432.242	17.632	0.030000
436.409	17.728	0.030000
440.575	17.517	0.030000
444.742	17.412	0.030000
448.773	17.337	0.030000
452.804	17.172	0.030000
456.835	17.161	0.030000
460.866	17.060	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

464.898	17.129	0.030000
468.231	17.157	0.030000
471.564	17.023	0.030000
474.898	16.914	0.030000
479.085	16.904	0.030000
483.272	16.846	0.030000
487.460	16.833	0.030000
491.647	16.851	0.030000
495.835	16.880	0.030000
500.022	16.873	0.030000
505.022	16.810	0.030000
510.022	16.683	0.030000
515.022	16.530	0.030000
520.022	16.446	0.030000
525.022	16.617	0.030000
530.022	16.860	0.030000
534.452	16.924	0.030000
538.881	16.970	0.030000
542.438	16.907	0.030000
545.995	16.904	0.030000
549.553	16.823	0.030000
553.802	16.714	0.030000
558.051	16.972	0.030000
562.300	17.072	0.030000
566.549	17.116	0.030000
571.549	17.186	0.030000
574.049	17.298	0.030000
576.549	17.260	0.030000
580.351	17.354	0.030000
584.153	17.460	0.030000
587.955	17.763	0.030000
591.756	18.018	0.030000
595.923	18.143	0.030000
600.090	18.181	0.030000
604.256	18.262	0.030000
608.505	18.234	0.030000
612.755	18.131	0.030000
617.004	17.976	0.030000
621.253	17.829	0.030000
625.502	17.735	0.030000
629.850	17.662	0.030000
634.198	17.648	0.030000
638.546	17.654	0.030000
643.053	17.623	0.030000
647.560	17.758	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

651.979	17.637	0.030000
656.399	17.444	0.030000
660.818	17.423	0.030000
665.237	17.350	0.030000
668.571	17.352	0.030000
671.904	17.325	0.030000
675.237	17.100	0.030000
679.788	17.069	0.030000
684.338	16.992	0.030000
688.888	16.836	0.030000
693.438	16.616	0.030000
698.152	16.441	0.030000
702.866	16.290	0.030000
707.580	16.092	0.030000
711.866	16.108	0.030000
716.153	16.125	0.030000
720.439	16.122	0.030000
724.726	16.410	0.030000
729.012	16.956	0.030000
733.298	17.307	0.030000
737.585	17.466	0.030000

Name: XK0010C                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.132	0.030000
4.126	16.844	0.030000
8.251	16.625	0.030000
12.377	16.418	0.030000
16.637	16.433	0.030000
20.898	16.388	0.030000
25.159	16.272	0.030000
29.419	16.312	0.030000
33.679	16.382	0.030000
37.940	16.362	0.030000
42.288	16.273	0.030000
46.636	16.191	0.030000
50.984	16.303	0.030000
54.711	16.305	0.030000
58.437	16.398	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

62.164	16.532	0.030000
66.164	16.718	0.030000
70.164	16.970	0.030000
74.164	16.973	0.030000
78.164	17.027	0.030000
82.164	17.099	0.030000
86.671	17.188	0.030000
91.178	17.272	0.030000
94.800	17.251	0.030000
98.422	17.227	0.030000
102.043	17.207	0.030000
106.473	17.196	0.030000
110.902	17.196	0.030000
114.437	17.185	0.030000
117.973	17.187	0.030000
121.508	17.187	0.030000
125.675	17.182	0.030000
129.842	17.169	0.030000
134.008	17.163	0.030000
138.175	17.155	0.030000
142.342	17.154	0.030000
146.508	17.154	0.030000
150.678	17.161	0.030000
154.847	17.208	0.030000
159.016	17.292	0.030000
163.185	17.335	0.030000
168.096	17.355	0.030000
173.006	17.350	0.030000
177.917	17.341	0.030000
181.539	17.257	0.030000
185.160	17.290	0.030000
188.782	17.367	0.030000
192.584	17.320	0.030000
196.386	17.274	0.030000
200.187	17.237	0.030000
203.989	17.231	0.030000
208.496	17.238	0.030000
213.003	17.160	0.030000
217.510	17.083	0.030000
222.017	16.999	0.030000
226.760	16.920	0.030000
231.504	16.885	0.030000
236.247	16.890	0.030000
240.991	16.933	0.030000
245.734	16.952	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

249.983	16.910	0.030000
254.232	16.973	0.030000
258.481	17.431	0.030000
263.032	17.367	0.030000
267.582	17.217	0.030000
272.132	17.075	0.030000
276.682	16.950	0.030000
280.931	16.939	0.030000
285.180	17.000	0.030000
289.429	17.061	0.030000
293.678	17.078	0.030000
298.262	17.061	0.030000
302.845	16.982	0.030000
307.428	16.999	0.030000
312.012	17.011	0.030000
316.056	17.041	0.030000
320.101	17.057	0.030000
324.145	17.058	0.030000
327.581	17.021	0.030000
331.017	16.983	0.030000
334.453	16.972	0.030000
337.889	16.974	0.030000
341.325	16.976	0.030000
344.761	16.977	0.030000
348.197	16.986	0.030000
351.633	16.995	0.030000
355.069	17.004	0.030000
358.795	17.010	0.030000
362.522	17.028	0.030000
366.249	17.064	0.030000
369.976	17.067	0.030000
373.702	17.035	0.030000
377.429	17.103	0.030000
381.844	17.207	0.030000
386.258	17.250	0.030000
390.673	17.300	0.030000
395.087	17.237	0.030000
399.884	17.207	0.030000
404.680	17.040	0.030000
409.476	16.963	0.030000
414.272	16.990	0.030000
418.846	16.982	0.030000
423.420	16.985	0.030000
427.994	17.102	0.030000
432.568	17.257	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

436.982	17.350	0.030000
441.397	17.413	0.030000
445.811	17.515	0.030000
450.226	17.657	0.030000
454.733	17.726	0.030000
459.239	17.692	0.030000
463.746	17.591	0.030000
468.253	17.493	0.030000
472.760	17.400	0.030000
477.267	17.322	0.030000
481.774	17.275	0.030000
486.281	17.222	0.030000
490.788	17.198	0.030000
495.295	17.212	0.030000
499.326	17.247	0.030000
503.357	17.299	0.030000
507.388	17.349	0.030000
511.420	17.384	0.030000
515.451	17.415	0.030000
518.886	17.427	0.030000
522.322	17.449	0.030000
525.758	17.483	0.030000
529.194	17.467	0.030000
532.630	17.427	0.030000
536.066	17.388	0.030000
540.495	17.335	0.030000
544.925	17.282	0.030000
549.412	17.241	0.030000
553.900	17.200	0.030000
558.388	17.179	0.030000
562.875	17.189	0.030000
567.363	17.207	0.030000
571.164	17.208	0.030000
574.966	17.197	0.030000
578.768	17.245	0.030000
582.570	17.262	0.030000
586.006	17.320	0.030000
589.442	17.393	0.030000
592.877	17.450	0.030000
597.299	17.493	0.030000
601.720	17.549	0.030000

Name: XK0020A  
Encroachment: No

Group: K

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	17.549	0.030000
4.333	17.562	0.030000
8.667	17.594	0.030000
13.015	17.596	0.030000
17.363	17.630	0.030000
21.711	17.732	0.030000
25.663	17.763	0.030000
29.616	17.788	0.030000
33.569	17.640	0.030000
37.522	17.401	0.030000
41.475	17.157	0.030000
45.428	17.349	0.030000
49.380	17.349	0.030000
53.333	17.309	0.030000
57.821	17.336	0.030000
62.309	17.336	0.030000
66.796	17.312	0.030000
71.284	17.486	0.030000
75.772	17.327	0.030000
79.901	17.328	0.030000
84.030	17.423	0.030000
88.160	17.508	0.030000
91.596	17.586	0.030000
95.032	17.664	0.030000
98.468	17.730	0.030000
101.904	17.731	0.030000
105.340	17.740	0.030000
108.775	17.772	0.030000
112.728	17.770	0.030000
116.681	17.765	0.030000
120.634	17.762	0.030000
124.587	17.788	0.030000
129.137	17.794	0.030000
133.687	17.792	0.030000
138.237	17.792	0.030000
142.787	17.825	0.030000
146.589	17.846	0.030000
150.391	17.756	0.030000
154.192	17.612	0.030000
157.994	17.475	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

162.754	17.364	0.030000
167.514	17.084	0.030000
172.274	16.749	0.030000
177.033	16.529	0.030000
181.935	16.306	0.030000
186.837	16.168	0.030000
191.739	16.161	0.030000
195.515	16.119	0.030000
199.291	16.153	0.030000
203.067	16.162	0.030000
206.843	16.174	0.030000
210.427	16.157	0.030000
214.011	16.127	0.030000
217.596	16.127	0.030000
221.031	16.299	0.030000
224.467	16.952	0.030000
227.903	17.108	0.030000
231.339	17.106	0.030000
234.775	17.096	0.030000
238.211	17.085	0.030000
242.690	17.055	0.030000
247.169	17.035	0.030000
251.648	17.024	0.030000
256.127	17.023	0.030000
260.606	17.029	0.030000
265.085	17.043	0.030000
269.564	17.070	0.030000
274.043	17.103	0.030000
278.522	17.070	0.030000
281.958	16.996	0.030000
285.394	17.022	0.030000
288.830	17.064	0.030000
292.266	17.162	0.030000
295.702	17.274	0.030000
299.138	17.395	0.030000
303.169	17.351	0.030000
307.200	17.199	0.030000
311.231	17.089	0.030000
315.262	17.072	0.030000
319.294	17.003	0.030000
323.460	17.398	0.030000
327.627	17.424	0.030000
331.794	17.440	0.030000
335.746	17.525	0.030000
339.699	17.503	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

343.652	17.426	0.030000
347.605	17.313	0.030000
351.953	17.345	0.030000
356.301	17.547	0.030000
360.649	17.341	0.030000
364.997	17.058	0.030000
369.344	16.958	0.030000
373.692	16.956	0.030000
378.220	16.884	0.030000
382.748	16.764	0.030000
387.276	16.711	0.030000
391.803	16.718	0.030000
396.331	16.719	0.030000
400.331	16.557	0.030000
404.331	16.584	0.030000
408.331	16.612	0.030000
412.331	16.587	0.030000
416.331	16.590	0.030000
420.941	16.625	0.030000
425.550	16.575	0.030000
430.160	16.541	0.030000
434.770	16.540	0.030000
439.380	16.588	0.030000
443.130	16.694	0.030000
446.880	16.835	0.030000
450.630	16.796	0.030000
454.380	16.721	0.030000
459.094	16.677	0.030000
463.808	16.618	0.030000
468.522	16.600	0.030000
472.767	16.594	0.030000
477.013	16.540	0.030000
481.259	16.477	0.030000
485.688	16.541	0.030000
490.117	16.619	0.030000
494.624	16.697	0.030000
499.131	16.819	0.030000
503.631	16.727	0.030000
508.131	16.477	0.030000
512.631	16.206	0.030000
517.131	16.013	0.030000
521.631	16.004	0.030000
525.979	16.124	0.030000
530.327	16.261	0.030000
534.675	16.356	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

539.023	16.413	0.030000
543.370	16.652	0.030000
547.718	16.888	0.030000
551.154	16.993	0.030000
554.590	16.989	0.030000
558.026	16.958	0.030000
561.462	16.934	0.030000
564.898	16.900	0.030000
568.334	16.882	0.030000
572.634	16.851	0.030000
576.935	16.823	0.030000
581.236	16.798	0.030000
585.536	16.775	0.030000
589.837	16.763	0.030000
594.137	16.727	0.030000
598.438	16.706	0.030000

Name: XK0020B      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.287	0.030000
4.951	16.280	0.030000
9.901	16.317	0.030000
14.851	16.361	0.030000
19.802	16.337	0.030000
24.752	16.368	0.030000
29.703	16.402	0.030000
34.653	16.387	0.030000
39.604	16.377	0.030000
44.554	16.386	0.030000
49.505	16.323	0.030000
54.455	16.232	0.030000
59.406	16.224	0.030000
64.356	16.235	0.030000
69.307	16.259	0.030000
74.257	16.260	0.030000
79.207	16.247	0.030000
84.158	16.196	0.030000
89.108	16.216	0.030000
94.059	16.186	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

99.009	16.248	0.030000
103.960	16.275	0.030000
108.910	16.217	0.030000
113.861	16.380	0.030000
118.811	16.344	0.030000
123.762	16.237	0.030000
128.712	16.212	0.030000
133.663	16.179	0.030000
138.613	16.108	0.030000
143.564	16.125	0.030000
148.514	16.159	0.030000
153.464	16.258	0.030000
158.415	16.209	0.030000
163.365	16.158	0.030000
168.316	16.188	0.030000
173.266	16.187	0.030000
178.217	16.144	0.030000
183.167	16.081	0.030000
188.118	16.078	0.030000
193.068	16.090	0.030000
198.019	16.057	0.030000
202.969	16.064	0.030000
207.920	16.104	0.030000
212.870	16.116	0.030000
217.821	16.070	0.030000
222.771	16.090	0.030000
227.721	16.163	0.030000
232.672	16.214	0.030000
237.622	16.269	0.030000
242.573	16.209	0.030000
247.523	16.282	0.030000
252.474	16.284	0.030000
257.424	16.245	0.030000
262.375	16.222	0.030000
267.325	16.188	0.030000
272.276	16.197	0.030000
277.226	16.193	0.030000
282.176	16.163	0.030000
287.127	16.150	0.030000
292.077	16.169	0.030000
297.028	16.145	0.030000
301.978	16.092	0.030000
306.929	16.127	0.030000
311.879	16.165	0.030000
316.830	16.170	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

321.780	16.146	0.030000
326.731	16.117	0.030000
331.715	16.034	0.030000
336.699	16.043	0.030000
341.683	16.074	0.030000
346.668	16.162	0.030000
351.652	16.241	0.030000
356.636	16.179	0.030000
361.620	16.356	0.030000
366.604	16.309	0.030000
371.588	16.204	0.030000
376.573	16.213	0.030000
381.557	16.273	0.030000
386.541	16.326	0.030000
391.525	16.389	0.030000
396.509	16.318	0.030000
401.493	16.118	0.030000
406.478	16.102	0.030000
411.462	16.219	0.030000
416.446	16.142	0.030000
421.430	16.141	0.030000
426.414	16.255	0.030000
431.399	16.193	0.030000
436.383	16.103	0.030000
441.367	16.212	0.030000
446.351	16.199	0.030000
451.335	16.198	0.030000
456.320	16.251	0.030000
461.304	16.286	0.030000
466.124	16.192	0.030000
470.943	16.437	0.030000
475.764	16.438	0.030000
480.583	16.351	0.030000
485.403	16.631	0.030000
490.223	16.335	0.030000
495.043	16.497	0.030000
499.863	16.418	0.030000
504.683	16.373	0.030000
509.503	16.309	0.030000
514.323	16.353	0.030000
519.143	16.553	0.030000
523.963	16.614	0.030000
528.783	16.535	0.030000
533.603	16.509	0.030000
538.423	16.592	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

543.242	16.925	0.030000
548.062	17.026	0.030000
552.882	17.029	0.030000
557.702	16.911	0.030000
562.522	17.258	0.030000
567.342	17.279	0.030000
572.162	17.296	0.030000
576.982	17.368	0.030000
581.802	17.254	0.030000
586.621	17.173	0.030000
591.440	17.152	0.030000
596.259	17.220	0.030000
601.078	17.555	0.030000
605.897	17.240	0.030000
610.716	17.064	0.030000
615.535	16.946	0.030000
620.354	17.334	0.030000
625.173	17.484	0.030000
629.991	17.371	0.030000
634.810	17.331	0.030000
639.629	17.320	0.030000
644.448	17.299	0.030000
649.267	17.353	0.030000
654.086	17.480	0.030000
658.905	17.347	0.030000
663.724	17.299	0.030000
668.543	17.089	0.030000
673.362	17.067	0.030000
678.181	17.043	0.030000
683.000	17.156	0.030000
687.819	17.254	0.030000
692.638	17.096	0.030000
697.457	17.102	0.030000
702.276	17.044	0.030000
707.095	17.132	0.030000

Name: XK0030A      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000      17.593      0.030000

Long Branch BMP Model Results  
Input Data Report Summary

4.957	17.607	0.030000
9.913	17.573	0.030000
14.870	17.125	0.030000
19.827	16.765	0.030000
24.784	16.680	0.030000
29.740	16.221	0.030000
34.697	16.094	0.030000
39.654	16.093	0.030000
44.610	15.910	0.030000
49.567	16.133	0.030000
54.524	16.130	0.030000
59.480	16.212	0.030000
64.437	16.704	0.030000
69.394	16.878	0.030000
74.350	17.059	0.030000
79.307	17.036	0.030000
84.264	16.950	0.030000
89.221	16.836	0.030000
94.177	16.790	0.030000
99.134	16.523	0.030000
104.091	15.969	0.030000
109.047	15.772	0.030000
114.004	15.717	0.030000
118.961	15.706	0.030000
123.918	15.773	0.030000
128.874	15.745	0.030000
133.831	15.713	0.030000
138.788	15.811	0.030000
143.744	16.163	0.030000
148.701	16.717	0.030000
153.658	16.548	0.030000
158.614	16.675	0.030000
163.571	16.674	0.030000
168.528	16.427	0.030000
173.485	16.202	0.030000
178.441	15.976	0.030000
183.398	15.783	0.030000
188.355	15.853	0.030000
193.311	15.733	0.030000
198.268	15.935	0.030000
203.225	16.188	0.030000
208.182	16.096	0.030000
213.138	16.295	0.030000
218.095	16.625	0.030000
223.052	16.676	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

228.008	16.583	0.030000
232.965	16.427	0.030000
237.922	16.235	0.030000
242.878	15.677	0.030000
247.835	16.103	0.030000
252.792	16.279	0.030000
257.748	16.293	0.030000
262.705	16.154	0.030000
267.662	16.020	0.030000
272.619	16.099	0.030000
277.575	16.136	0.030000
282.532	16.156	0.030000
287.489	16.104	0.030000
292.445	16.215	0.030000
297.402	16.339	0.030000
302.359	16.181	0.030000
307.315	16.322	0.030000
312.272	16.435	0.030000
317.229	16.291	0.030000
322.186	16.283	0.030000
327.142	16.595	0.030000
332.099	16.459	0.030000
337.056	16.344	0.030000
342.012	16.207	0.030000
346.969	16.231	0.030000
351.926	16.204	0.030000
356.882	16.084	0.030000
361.839	16.136	0.030000
366.796	16.226	0.030000
371.753	16.159	0.030000
376.709	16.172	0.030000
381.666	16.220	0.030000
386.623	16.198	0.030000
391.579	16.078	0.030000
396.536	16.122	0.030000
401.493	16.273	0.030000
406.450	16.333	0.030000
411.406	16.511	0.030000
416.363	16.623	0.030000
421.320	16.714	0.030000
426.276	16.704	0.030000
431.233	16.739	0.030000
436.190	16.736	0.030000
441.147	16.725	0.030000
446.103	16.741	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

451.060	16.630	0.030000
456.017	16.607	0.030000
460.973	16.626	0.030000
465.930	16.667	0.030000
470.887	16.582	0.030000
475.843	16.556	0.030000
480.800	16.443	0.030000
485.757	16.492	0.030000
490.714	16.469	0.030000
495.670	16.413	0.030000
500.627	16.401	0.030000
505.584	16.501	0.030000
510.540	16.620	0.030000
515.497	16.655	0.030000
520.454	16.635	0.030000
525.410	16.448	0.030000

Name: XK0030B      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.760	0.030000
4.763	15.806	0.030000
9.526	15.878	0.030000
14.289	15.848	0.030000
19.052	15.798	0.030000
23.816	15.758	0.030000
28.579	15.750	0.030000
33.342	15.813	0.030000
38.105	15.741	0.030000
42.868	15.776	0.030000
47.631	15.798	0.030000
52.394	15.858	0.030000
57.157	15.877	0.030000
61.920	15.926	0.030000
66.683	15.939	0.030000
71.446	15.946	0.030000
76.210	15.980	0.030000
80.973	15.944	0.030000
85.736	15.964	0.030000
90.499	16.164	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

95.262 16.448 0.030000

Name: XK0040A Group: K  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	17.553	0.030000
4.805	17.424	0.030000
9.609	17.415	0.030000
14.414	17.456	0.030000
19.219	17.527	0.030000
24.024	17.545	0.030000
28.828	17.472	0.030000
33.633	17.315	0.030000
38.438	17.023	0.030000
43.242	16.648	0.030000
48.047	16.413	0.030000
52.852	16.357	0.030000
57.657	16.202	0.030000
62.461	15.867	0.030000
67.266	15.733	0.030000
72.071	16.083	0.030000
75.933	16.070	0.030000
79.795	15.982	0.030000
83.657	15.938	0.030000
87.519	16.050	0.030000
92.406	16.225	0.030000
97.294	16.471	0.030000
102.181	16.643	0.030000
107.069	16.539	0.030000
111.956	16.379	0.030000
116.844	16.374	0.030000
121.731	16.351	0.030000
126.618	16.361	0.030000
131.506	16.444	0.030000
136.393	16.579	0.030000
141.281	16.702	0.030000
146.168	16.758	0.030000
151.056	16.814	0.030000
155.943	16.888	0.030000
160.831	16.888	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

165.718	16.900	0.030000
170.606	17.009	0.030000
175.493	16.893	0.030000
180.381	16.680	0.030000
185.268	16.535	0.030000
190.155	16.200	0.030000
195.043	16.217	0.030000
200.019	16.211	0.030000
204.995	16.237	0.030000
209.971	16.085	0.030000
214.947	15.905	0.030000
219.923	15.901	0.030000
224.899	15.966	0.030000
229.875	15.960	0.030000
234.851	15.943	0.030000
239.602	15.997	0.030000
244.354	16.064	0.030000
249.105	16.162	0.030000
253.856	16.143	0.030000
258.607	16.219	0.030000
263.358	16.385	0.030000
268.109	16.215	0.030000
272.860	16.262	0.030000
277.611	16.344	0.030000
282.362	16.377	0.030000
287.113	16.366	0.030000
291.415	16.371	0.030000
295.717	16.324	0.030000

-----

Name: XK0040B	Group: K
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	16.324	0.030000
4.198	16.406	0.030000
8.396	16.430	0.030000
12.594	16.442	0.030000
16.348	16.378	0.030000
20.103	16.667	0.030000
23.858	16.722	0.030000
27.613	16.684	0.030000

-----

Long Branch BMP Model Results  
Input Data Report Summary

32.601	16.581	0.030000
37.588	16.451	0.030000
42.576	16.349	0.030000
47.563	16.328	0.030000
52.551	16.389	0.030000
57.538	16.376	0.030000
62.526	16.481	0.030000
67.513	16.586	0.030000
72.501	16.616	0.030000
77.488	16.565	0.030000
82.475	16.381	0.030000
87.463	16.271	0.030000
92.450	16.276	0.030000
97.438	16.204	0.030000
102.425	16.288	0.030000
107.413	16.375	0.030000
112.400	16.407	0.030000
117.388	16.310	0.030000
122.375	16.170	0.030000
127.363	15.935	0.030000
132.350	15.890	0.030000
137.338	15.824	0.030000
142.325	15.794	0.030000
147.313	15.752	0.030000
152.300	16.049	0.030000
157.288	16.120	0.030000
162.275	15.932	0.030000
167.263	15.884	0.030000
172.250	15.750	0.030000
177.238	15.777	0.030000
182.225	15.848	0.030000
187.213	15.842	0.030000
192.200	16.082	0.030000
197.188	16.147	0.030000
202.175	16.115	0.030000
207.162	15.928	0.030000
212.150	15.899	0.030000
217.137	15.813	0.030000
222.125	15.870	0.030000
227.113	15.864	0.030000
232.100	16.150	0.030000
237.087	16.075	0.030000
242.075	15.739	0.030000
247.062	15.777	0.030000
252.050	15.683	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

257.037	15.578	0.030000
262.025	15.482	0.030000
267.012	15.668	0.030000
272.000	15.967	0.030000
276.987	15.891	0.030000
281.975	15.759	0.030000
286.962	15.642	0.030000
291.950	15.649	0.030000
296.937	15.951	0.030000
301.925	16.087	0.030000
306.912	16.340	0.030000
311.900	16.098	0.030000
316.887	15.850	0.030000
321.875	15.577	0.030000
326.862	15.427	0.030000
331.850	15.376	0.030000
336.837	15.400	0.030000
341.825	15.391	0.030000
346.812	15.376	0.030000
351.800	15.421	0.030000
356.787	15.236	0.030000
361.774	15.561	0.030000
366.762	15.982	0.030000
371.750	16.444	0.030000
376.737	16.581	0.030000
381.724	16.574	0.030000
386.712	16.645	0.030000
391.699	16.309	0.030000
396.687	16.347	0.030000
401.674	16.393	0.030000
406.662	16.335	0.030000
411.649	16.410	0.030000
416.637	16.351	0.030000
421.624	16.189	0.030000
426.612	15.753	0.030000
431.599	15.890	0.030000
436.587	15.834	0.030000
441.574	16.104	0.030000
446.562	16.118	0.030000
451.549	16.272	0.030000
456.537	16.089	0.030000
461.524	16.001	0.030000
466.512	15.915	0.030000
471.499	15.954	0.030000
476.487	15.917	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

481.474	15.977	0.030000
486.462	15.985	0.030000
491.449	16.235	0.030000
496.437	16.541	0.030000
501.424	16.342	0.030000
506.411	16.464	0.030000
511.399	16.538	0.030000
516.386	16.284	0.030000
521.374	16.210	0.030000
526.361	16.163	0.030000
531.349	16.137	0.030000
536.336	16.145	0.030000
541.324	16.168	0.030000
546.311	16.082	0.030000
551.299	15.915	0.030000
556.286	15.740	0.030000
561.274	15.825	0.030000
566.261	15.854	0.030000
571.249	15.807	0.030000
576.236	15.872	0.030000
581.224	15.819	0.030000
586.211	15.976	0.030000
591.199	16.035	0.030000
596.186	16.026	0.030000
601.174	15.938	0.030000
606.161	16.067	0.030000
611.149	16.187	0.030000
616.136	16.012	0.030000
621.124	15.745	0.030000
626.111	15.723	0.030000
631.099	15.734	0.030000
636.086	15.774	0.030000
641.074	15.748	0.030000
646.061	15.784	0.030000
651.049	15.798	0.030000
656.036	15.841	0.030000
661.024	15.692	0.030000
666.011	15.781	0.030000
670.999	15.743	0.030000
675.986	15.938	0.030000
680.594	16.006	0.030000
685.202	15.886	0.030000
689.809	15.756	0.030000
694.417	15.697	0.030000
699.025	15.649	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

703.633	15.652	0.030000
708.241	15.711	0.030000
712.849	15.760	0.030000

Name: XK0040C                      Group: K  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.760	0.030000
4.418	15.844	0.030000
8.837	16.095	0.030000
13.256	16.153	0.030000
17.674	16.510	0.030000
22.093	16.947	0.030000
27.056	16.725	0.030000
32.019	16.455	0.030000
36.982	16.149	0.030000
41.945	16.196	0.030000
46.908	16.836	0.030000
51.871	16.797	0.030000
55.673	16.750	0.030000
59.475	16.373	0.030000
63.276	16.473	0.030000
67.078	16.590	0.030000
71.109	16.534	0.030000
75.140	16.271	0.030000
79.171	16.254	0.030000
83.203	16.429	0.030000
87.234	16.554	0.030000
92.234	16.671	0.030000
97.234	16.743	0.030000
100.670	16.961	0.030000
104.106	16.997	0.030000
107.542	17.038	0.030000
110.932	16.988	0.030000
114.323	16.816	0.030000
117.714	16.737	0.030000
122.611	16.604	0.030000
127.507	16.580	0.030000
132.405	16.705	0.030000
137.301	16.686	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

141.654	16.628	0.030000
146.007	16.800	0.030000
150.359	16.870	0.030000
154.712	16.894	0.030000
158.045	16.907	0.030000
161.379	16.891	0.030000
164.712	16.870	0.030000
169.200	17.038	0.030000
173.687	17.396	0.030000
178.175	17.435	0.030000
183.034	17.561	0.030000
187.893	17.568	0.030000
192.752	17.515	0.030000
196.479	17.422	0.030000
200.206	17.463	0.030000
203.933	17.566	0.030000
208.683	17.585	0.030000
213.433	17.451	0.030000
218.183	17.422	0.030000
222.933	17.508	0.030000
227.683	17.485	0.030000
232.190	17.475	0.030000
236.696	17.431	0.030000
241.203	17.505	0.030000
245.710	17.531	0.030000
250.217	17.646	0.030000
254.387	17.619	0.030000
258.556	17.643	0.030000
262.725	17.576	0.030000
266.894	17.478	0.030000
271.401	17.452	0.030000
275.908	17.523	0.030000
279.738	17.369	0.030000
283.568	17.470	0.030000
287.399	17.770	0.030000
291.229	18.049	0.030000
295.959	18.224	0.030000
300.690	18.343	0.030000
305.420	18.260	0.030000
310.118	17.988	0.030000
314.815	17.965	0.030000
319.512	17.964	0.030000
324.210	17.904	0.030000
328.907	17.660	0.030000
333.605	17.398	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

338.302	17.439	0.030000
342.426	17.650	0.030000
346.549	17.579	0.030000
350.672	17.396	0.030000
354.795	17.242	0.030000
358.918	17.014	0.030000
363.266	16.800	0.030000
367.614	16.759	0.030000
371.962	16.689	0.030000
375.519	16.644	0.030000
379.076	16.604	0.030000
382.634	16.595	0.030000
387.505	16.657	0.030000
392.376	16.702	0.030000
397.248	16.746	0.030000
402.119	16.742	0.030000
406.991	16.904	0.030000
411.862	16.934	0.030000
416.734	16.915	0.030000
421.605	16.855	0.030000
426.477	16.894	0.030000
430.034	16.867	0.030000
433.591	16.859	0.030000
437.149	16.889	0.030000
441.578	16.913	0.030000
446.007	16.939	0.030000
449.443	16.885	0.030000
452.879	16.939	0.030000
456.315	16.968	0.030000
459.751	16.919	0.030000
463.187	16.947	0.030000
466.623	17.070	0.030000
470.349	17.160	0.030000
474.076	17.258	0.030000
477.803	17.296	0.030000
482.310	17.291	0.030000
486.817	17.332	0.030000
491.324	17.399	0.030000
495.831	17.630	0.030000
500.018	17.706	0.030000
504.205	17.703	0.030000
508.393	17.648	0.030000
512.580	17.584	0.030000
516.768	17.718	0.030000
520.955	17.731	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

525.000	17.736	0.030000
529.044	17.526	0.030000
533.089	17.585	0.030000
537.576	17.578	0.030000
542.064	17.587	0.030000
546.484	17.614	0.030000
550.903	17.616	0.030000
555.322	17.770	0.030000
559.742	17.905	0.030000
563.991	17.908	0.030000
568.240	18.061	0.030000
572.489	18.048	0.030000
576.775	17.940	0.030000
581.061	17.865	0.030000
585.346	17.915	0.030000
589.632	17.672	0.030000
593.918	17.783	0.030000
598.204	17.988	0.030000
602.489	17.998	0.030000
607.092	18.054	0.030000
611.694	18.276	0.030000
616.296	18.448	0.030000
620.898	18.315	0.030000
625.500	18.111	0.030000
630.103	17.906	0.030000
634.705	17.688	0.030000
639.307	17.528	0.030000
642.640	17.519	0.030000
645.974	17.483	0.030000
649.307	17.476	0.030000
653.409	17.402	0.030000
657.510	17.486	0.030000
661.611	17.744	0.030000
666.118	17.756	0.030000
670.625	17.628	0.030000
673.958	17.588	0.030000
677.292	17.531	0.030000
680.625	17.423	0.030000
684.729	17.274	0.030000
688.832	17.203	0.030000
692.936	17.202	0.030000
697.046	17.203	0.030000
701.157	17.185	0.030000
705.267	17.217	0.030000
709.377	17.474	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

713.980	17.749	0.030000
718.582	17.406	0.030000
723.184	17.003	0.030000
727.786	16.752	0.030000
732.389	16.739	0.030000
736.991	16.854	0.030000
741.339	17.001	0.030000
745.687	17.263	0.030000
750.034	17.604	0.030000
755.004	17.825	0.030000
759.972	17.782	0.030000
764.942	17.757	0.030000
768.563	17.909	0.030000
772.185	18.047	0.030000
775.807	18.209	0.030000
780.295	18.196	0.030000
784.782	18.008	0.030000
789.270	17.989	0.030000
792.706	17.902	0.030000
796.142	17.809	0.030000
799.578	17.727	0.030000
802.911	17.644	0.030000
806.244	17.519	0.030000
809.578	17.399	0.030000
814.128	17.236	0.030000
818.678	17.089	0.030000
823.228	16.923	0.030000
827.778	16.735	0.030000
832.328	16.702	0.030000
836.878	17.017	0.030000
841.428	17.079	0.030000
845.978	17.030	0.030000
849.414	17.052	0.030000
852.850	17.105	0.030000
856.286	17.040	0.030000
860.774	16.891	0.030000
865.261	16.829	0.030000
869.749	16.918	0.030000
874.124	16.804	0.030000
878.499	16.688	0.030000
882.874	16.662	0.030000
887.249	16.640	0.030000
891.051	16.663	0.030000
894.852	16.803	0.030000
898.654	16.939	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

902.456	16.930	0.030000
906.206	17.029	0.030000
909.956	16.847	0.030000
913.706	16.942	0.030000
917.456	16.949	0.030000
921.643	16.980	0.030000
925.831	17.187	0.030000
930.018	17.020	0.030000
934.206	16.973	0.030000
938.393	16.978	0.030000
942.580	16.963	0.030000
946.580	16.848	0.030000
950.580	16.675	0.030000
954.580	16.788	0.030000
958.580	16.936	0.030000
962.580	17.083	0.030000
965.914	17.179	0.030000
969.247	17.207	0.030000
972.580	17.145	0.030000
976.330	17.020	0.030000
980.080	16.852	0.030000
983.830	17.209	0.030000
987.580	17.317	0.030000
991.580	17.201	0.030000
995.580	16.983	0.030000
999.580	17.207	0.030000
1003.580	17.416	0.030000
1007.580	17.509	0.030000
1012.087	17.388	0.030000
1016.594	17.288	0.030000
1021.237	17.184	0.030000
1025.880	17.025	0.030000
1030.523	16.728	0.030000
1035.166	16.804	0.030000
1039.809	17.129	0.030000
1044.451	17.363	0.030000
1049.094	17.446	0.030000
1053.485	17.477	0.030000
1057.876	17.494	0.030000
1062.266	17.466	0.030000

Name: XK0050A  
Encroachment: No

Group: K

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.180	0.030000
4.998	16.105	0.030000
9.995	15.846	0.030000
14.993	15.710	0.030000
19.991	15.841	0.030000
24.988	16.078	0.030000
29.986	16.355	0.030000
34.984	16.367	0.030000
39.982	16.337	0.030000
44.979	16.243	0.030000
49.977	16.032	0.030000
54.975	16.094	0.030000
59.972	16.126	0.030000
64.970	16.160	0.030000
69.968	16.130	0.030000
74.965	16.011	0.030000
79.963	16.129	0.030000
84.961	16.322	0.030000
89.959	16.372	0.030000
94.956	16.312	0.030000
99.954	16.511	0.030000
104.952	16.838	0.030000
109.949	16.663	0.030000
114.947	16.531	0.030000
119.945	16.511	0.030000
124.942	16.371	0.030000
129.940	16.374	0.030000
134.938	16.388	0.030000
139.935	16.248	0.030000
144.933	16.278	0.030000
149.931	16.299	0.030000
154.929	16.127	0.030000
159.926	15.934	0.030000
164.924	15.721	0.030000
169.922	15.564	0.030000
174.919	15.654	0.030000
179.917	15.839	0.030000
184.915	16.043	0.030000
189.912	16.161	0.030000
194.910	16.189	0.030000
199.908	15.977	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

204.905	15.871	0.030000
209.903	15.911	0.030000
214.901	15.883	0.030000
219.899	15.855	0.030000
224.896	16.055	0.030000
229.894	16.530	0.030000
234.892	16.747	0.030000
239.889	16.576	0.030000
244.887	16.353	0.030000
249.885	16.135	0.030000
254.882	16.037	0.030000
259.880	16.088	0.030000
264.878	16.137	0.030000
269.875	16.185	0.030000
274.873	16.201	0.030000
279.871	15.804	0.030000
284.869	15.442	0.030000
289.866	15.432	0.030000
294.864	15.255	0.030000
299.862	15.422	0.030000
304.859	15.506	0.030000
309.857	15.432	0.030000
314.855	15.591	0.030000
319.853	15.438	0.030000
324.850	15.380	0.030000
329.848	15.685	0.030000
334.846	15.461	0.030000
339.843	15.392	0.030000
344.841	15.354	0.030000
349.839	15.459	0.030000
354.836	15.373	0.030000
359.834	15.272	0.030000
364.832	15.514	0.030000
369.829	15.604	0.030000
374.827	15.805	0.030000
379.825	15.794	0.030000
384.822	15.883	0.030000
389.820	16.046	0.030000
394.818	16.157	0.030000
399.816	16.013	0.030000
404.813	16.118	0.030000
409.811	16.198	0.030000
414.809	16.132	0.030000
419.806	16.281	0.030000
424.804	16.181	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

429.802	16.252	0.030000
434.799	16.441	0.030000
439.797	16.541	0.030000
444.795	16.483	0.030000
449.793	16.738	0.030000
454.790	16.541	0.030000
459.788	15.985	0.030000
464.786	15.808	0.030000
469.783	15.725	0.030000
474.781	15.869	0.030000
479.779	16.016	0.030000
484.776	16.021	0.030000
489.774	15.934	0.030000
494.772	15.836	0.030000
499.769	15.735	0.030000
504.767	15.880	0.030000
509.765	15.937	0.030000
514.763	16.190	0.030000
519.760	16.375	0.030000
524.758	16.259	0.030000
529.756	16.210	0.030000
534.753	16.248	0.030000
539.751	16.122	0.030000
544.749	15.790	0.030000
549.746	15.765	0.030000
554.744	15.786	0.030000
559.742	15.621	0.030000
564.740	15.581	0.030000
569.737	15.914	0.030000
574.735	16.143	0.030000
579.733	16.099	0.030000
584.730	16.281	0.030000
589.728	15.932	0.030000
594.726	15.910	0.030000
599.723	16.126	0.030000
604.721	16.317	0.030000
609.719	16.402	0.030000
614.716	16.568	0.030000
619.714	16.594	0.030000
624.712	16.193	0.030000
629.710	15.870	0.030000
634.707	16.059	0.030000
639.705	16.523	0.030000
644.703	16.358	0.030000
649.700	16.302	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

654.698	16.338	0.030000
659.696	16.374	0.030000
664.693	16.413	0.030000
669.691	16.503	0.030000
674.689	16.651	0.030000
679.687	16.520	0.030000
684.684	16.353	0.030000
689.682	16.135	0.030000
694.679	16.124	0.030000
699.677	16.191	0.030000
704.675	16.245	0.030000
709.673	16.300	0.030000

-----

Name: XK0060A	Group: K
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	16.300	0.030000
4.889	16.363	0.030000
9.778	16.307	0.030000
14.667	16.281	0.030000
19.556	16.270	0.030000
24.445	16.272	0.030000
29.334	16.368	0.030000
34.223	16.344	0.030000
39.112	16.281	0.030000
44.002	16.367	0.030000
48.891	16.411	0.030000
53.780	16.417	0.030000
58.669	16.452	0.030000
63.558	16.594	0.030000
68.447	16.429	0.030000
73.336	16.341	0.030000
78.225	16.394	0.030000
83.114	16.377	0.030000
88.003	16.422	0.030000
92.892	16.389	0.030000
97.781	16.310	0.030000
102.670	16.537	0.030000
107.559	16.743	0.030000
112.448	16.738	0.030000

-----



Long Branch BMP Model Results  
Input Data Report Summary

117.337	16.713	0.030000
122.226	16.696	0.030000
127.115	16.671	0.030000
132.004	16.640	0.030000
136.893	16.626	0.030000
141.783	16.724	0.030000
146.672	16.706	0.030000
151.561	16.329	0.030000
156.450	16.101	0.030000
161.339	16.042	0.030000
166.228	16.174	0.030000
171.117	16.235	0.030000
176.006	16.368	0.030000
180.895	16.256	0.030000
185.784	16.441	0.030000
190.673	16.605	0.030000
195.562	16.770	0.030000
200.451	16.935	0.030000
205.340	17.108	0.030000
210.127	17.305	0.030000
214.915	17.173	0.030000
219.702	17.035	0.030000
224.489	16.900	0.030000
229.276	16.725	0.030000
234.064	16.562	0.030000
238.851	16.406	0.030000
243.638	16.390	0.030000
248.425	16.579	0.030000
253.213	16.860	0.030000
258.000	17.116	0.030000
262.787	17.089	0.030000
267.574	16.908	0.030000
272.361	16.897	0.030000
277.149	17.019	0.030000
281.936	17.089	0.030000
286.279	17.117	0.030000
290.621	17.159	0.030000
294.964	17.394	0.030000
299.306	17.650	0.030000
303.649	17.861	0.030000
308.554	17.728	0.030000
313.459	17.174	0.030000
318.364	16.878	0.030000
323.269	16.765	0.030000
328.174	16.686	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

333.079	16.739	0.030000
337.984	16.823	0.030000
342.889	16.817	0.030000
347.794	16.618	0.030000
352.699	16.530	0.030000
357.604	16.732	0.030000
362.509	16.936	0.030000
367.414	16.967	0.030000
372.319	16.902	0.030000
377.224	16.831	0.030000
382.129	16.745	0.030000
387.034	16.666	0.030000
391.939	16.655	0.030000
396.844	16.728	0.030000
401.749	16.808	0.030000
406.654	16.845	0.030000
411.560	16.779	0.030000
416.464	16.684	0.030000
421.370	16.693	0.030000
426.275	16.720	0.030000
431.180	16.796	0.030000
436.085	16.920	0.030000
440.990	17.193	0.030000
445.895	17.325	0.030000
450.800	17.342	0.030000
455.705	17.198	0.030000
460.610	17.045	0.030000
465.515	17.091	0.030000
470.420	17.124	0.030000
475.325	16.745	0.030000
480.230	15.900	0.030000
485.135	16.155	0.030000
490.040	16.183	0.030000
494.945	16.393	0.030000
499.850	16.406	0.030000
504.755	16.534	0.030000
509.660	16.599	0.030000
514.565	16.639	0.030000
519.470	16.590	0.030000
524.375	16.539	0.030000
529.280	16.413	0.030000
534.186	16.333	0.030000
539.091	16.310	0.030000
543.996	16.448	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XK0070A  
Encroachment: No

Group: K

Station(ft)	Elevation(ft)	Manning's N
0.000	16.796	0.030000
4.848	16.750	0.030000
9.697	16.539	0.030000
14.545	16.379	0.030000
19.394	16.486	0.030000
24.242	16.503	0.030000
29.090	16.465	0.030000
33.938	16.317	0.030000
38.787	16.380	0.030000
43.635	16.411	0.030000
48.484	16.444	0.030000
53.332	16.375	0.030000
58.180	16.347	0.030000
63.029	15.952	0.030000
67.877	15.658	0.030000
72.725	15.770	0.030000
77.574	15.769	0.030000
82.422	15.684	0.030000
87.270	15.835	0.030000
92.119	16.090	0.030000
96.967	16.229	0.030000
101.816	16.287	0.030000
106.664	16.259	0.030000
111.512	16.144	0.030000
116.488	16.073	0.030000
121.464	15.731	0.030000
126.440	15.458	0.030000
131.415	15.673	0.030000
136.391	16.126	0.030000
141.367	16.260	0.030000
146.343	16.126	0.030000
151.318	16.029	0.030000
156.294	15.930	0.030000
161.270	15.993	0.030000
166.246	15.953	0.030000
171.221	15.976	0.030000
176.197	15.990	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

181.173	15.979	0.030000
186.149	15.831	0.030000
191.124	15.768	0.030000
196.100	15.930	0.030000
201.076	15.915	0.030000
206.052	15.799	0.030000
211.027	15.791	0.030000
216.003	15.852	0.030000
220.979	16.079	0.030000
225.955	16.254	0.030000
230.930	16.177	0.030000
235.906	16.046	0.030000
240.882	15.975	0.030000
245.858	15.861	0.030000
250.833	15.641	0.030000
255.809	15.440	0.030000
260.785	15.503	0.030000
265.761	15.534	0.030000
270.736	15.583	0.030000
275.712	15.780	0.030000
280.688	15.775	0.030000
285.664	15.746	0.030000
290.639	15.988	0.030000
295.615	16.184	0.030000
300.591	16.056	0.030000
305.567	15.883	0.030000
310.542	15.691	0.030000
315.518	15.553	0.030000
320.494	15.651	0.030000
325.470	15.907	0.030000
330.445	16.149	0.030000
335.421	16.120	0.030000
340.397	15.977	0.030000
345.373	15.912	0.030000
350.348	15.777	0.030000
355.324	15.758	0.030000
360.300	15.946	0.030000
365.276	15.888	0.030000
370.251	15.811	0.030000
375.227	16.188	0.030000
380.203	16.403	0.030000
385.179	16.404	0.030000
390.154	16.369	0.030000
395.130	16.331	0.030000
400.106	16.282	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

405.082	16.204	0.030000
410.057	16.231	0.030000
415.033	16.167	0.030000
420.009	16.077	0.030000
424.985	16.060	0.030000
429.960	15.992	0.030000
434.936	15.850	0.030000
439.912	15.610	0.030000
444.888	15.524	0.030000
449.863	15.538	0.030000
454.839	15.502	0.030000
459.815	15.454	0.030000
464.791	15.466	0.030000
469.767	15.537	0.030000
474.742	15.653	0.030000
479.718	15.620	0.030000
484.694	15.571	0.030000
489.670	15.635	0.030000
494.645	15.664	0.030000
499.621	15.662	0.030000
504.597	15.556	0.030000
509.572	15.685	0.030000
514.548	15.994	0.030000
519.524	15.969	0.030000
524.500	16.111	0.030000
529.476	16.215	0.030000
534.436	16.220	0.030000
539.396	16.225	0.030000
544.356	16.149	0.030000
549.316	15.873	0.030000
554.277	15.882	0.030000
559.237	15.867	0.030000
564.197	15.852	0.030000
569.157	15.694	0.030000
574.117	15.473	0.030000
579.078	15.605	0.030000
584.038	15.624	0.030000
588.998	15.643	0.030000
593.958	15.678	0.030000
598.918	15.820	0.030000
603.879	15.904	0.030000
608.839	15.656	0.030000
613.799	15.608	0.030000
618.759	15.806	0.030000
623.720	15.921	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

628.680	15.742	0.030000
633.640	15.632	0.030000
638.600	15.766	0.030000
643.561	15.971	0.030000
648.521	15.652	0.030000
653.481	15.641	0.030000
658.441	15.692	0.030000
663.401	16.010	0.030000
668.362	15.666	0.030000
673.322	15.710	0.030000
678.282	15.848	0.030000
683.242	15.748	0.030000
688.202	15.678	0.030000
693.163	15.634	0.030000
698.123	15.647	0.030000
703.083	15.639	0.030000
708.043	15.893	0.030000
713.004	16.325	0.030000
717.964	16.400	0.030000
722.924	16.449	0.030000
727.884	16.421	0.030000
732.844	16.274	0.030000
737.805	15.800	0.030000
742.765	15.583	0.030000
747.725	15.951	0.030000
752.685	15.840	0.030000
757.645	15.898	0.030000
762.606	16.058	0.030000
767.566	15.974	0.030000
772.526	15.953	0.030000
777.486	15.966	0.030000
782.447	16.001	0.030000
787.407	15.935	0.030000
792.367	15.706	0.030000
797.327	15.645	0.030000
802.288	15.518	0.030000
807.248	15.502	0.030000
812.208	15.424	0.030000
817.168	15.601	0.030000
822.128	15.743	0.030000
827.089	15.636	0.030000
832.049	15.502	0.030000
837.009	15.210	0.030000
841.969	14.959	0.030000
846.929	14.869	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

851.890	14.924	0.030000
856.850	14.959	0.030000
861.810	14.993	0.030000
866.770	15.087	0.030000
871.731	15.111	0.030000
876.691	15.105	0.030000
881.651	15.196	0.030000
886.611	15.315	0.030000
891.571	15.372	0.030000
896.532	15.416	0.030000
901.492	15.489	0.030000
906.452	15.550	0.030000
911.412	15.538	0.030000
916.372	15.472	0.030000
921.333	15.440	0.030000
926.293	15.409	0.030000
931.253	15.276	0.030000
936.213	15.031	0.030000
941.174	14.912	0.030000
946.134	14.993	0.030000
951.094	14.975	0.030000
956.054	15.281	0.030000
961.015	15.508	0.030000
965.975	15.541	0.030000
970.935	15.717	0.030000
975.895	15.737	0.030000

Name: XK0070B                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.737	0.030000
4.264	15.699	0.030000
8.528	15.724	0.030000
12.792	15.846	0.030000
17.167	15.868	0.030000
21.542	15.763	0.030000
25.917	15.785	0.030000
30.292	15.730	0.030000
34.667	15.813	0.030000
39.042	15.821	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

43.417	15.796	0.030000
47.792	15.788	0.030000
52.792	15.794	0.030000
57.792	15.808	0.030000
62.792	15.849	0.030000
67.792	15.853	0.030000
72.236	15.819	0.030000
76.681	15.829	0.030000
81.125	15.889	0.030000
85.570	15.806	0.030000
90.014	15.818	0.030000
94.459	15.736	0.030000
98.903	15.714	0.030000
103.347	15.732	0.030000
107.792	15.665	0.030000
111.125	15.614	0.030000
114.459	15.726	0.030000
117.792	15.691	0.030000
122.617	15.662	0.030000
127.441	15.705	0.030000
132.266	15.704	0.030000
137.091	15.698	0.030000
141.916	15.699	0.030000
146.740	15.686	0.030000
151.565	15.701	0.030000
156.390	15.700	0.030000
161.214	15.740	0.030000
166.039	15.784	0.030000
170.864	15.718	0.030000
175.689	15.803	0.030000
180.513	15.650	0.030000
185.338	15.791	0.030000
190.163	15.738	0.030000
194.988	15.582	0.030000
199.812	15.716	0.030000
204.637	15.760	0.030000
209.462	15.681	0.030000
214.286	15.742	0.030000
219.111	15.816	0.030000
223.936	15.785	0.030000
228.761	15.745	0.030000
233.585	15.603	0.030000
238.410	15.539	0.030000
243.235	15.617	0.030000
248.060	15.758	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

252.884	15.807	0.030000
257.051	15.790	0.030000
261.218	15.781	0.030000
265.384	15.652	0.030000
269.759	15.655	0.030000
274.134	15.891	0.030000
278.509	15.767	0.030000
282.884	15.689	0.030000
287.259	15.739	0.030000
291.634	15.754	0.030000
296.009	15.764	0.030000
300.384	15.715	0.030000
304.759	15.727	0.030000
309.134	15.649	0.030000
313.509	15.689	0.030000
317.884	15.651	0.030000
322.541	15.633	0.030000
327.197	15.720	0.030000
331.854	15.712	0.030000
335.752	15.671	0.030000
339.651	15.711	0.030000
343.550	15.694	0.030000
347.277	15.657	0.030000
351.003	15.660	0.030000
354.730	15.709	0.030000
359.730	15.788	0.030000
364.730	15.861	0.030000
369.373	15.942	0.030000
374.016	15.970	0.030000
378.659	15.870	0.030000
383.302	15.793	0.030000
387.945	15.734	0.030000
392.587	15.663	0.030000
397.230	15.717	0.030000
401.730	15.806	0.030000
406.230	15.741	0.030000
410.730	15.753	0.030000
415.230	15.744	0.030000
419.730	15.802	0.030000
424.067	15.835	0.030000
428.403	15.768	0.030000
432.740	15.778	0.030000
437.077	15.856	0.030000
441.413	15.905	0.030000
446.264	15.799	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

451.116	15.807	0.030000
455.967	15.887	0.030000
460.818	15.845	0.030000
465.669	15.820	0.030000
470.521	15.903	0.030000
475.372	15.901	0.030000
480.223	15.903	0.030000
485.074	15.964	0.030000
489.926	16.026	0.030000
493.676	16.015	0.030000
497.426	15.841	0.030000
501.176	15.965	0.030000
504.926	15.975	0.030000
509.807	15.945	0.030000
514.688	15.924	0.030000
519.568	15.868	0.030000
524.449	15.864	0.030000
529.330	15.931	0.030000
534.211	16.021	0.030000
539.092	16.066	0.030000
543.973	15.958	0.030000
548.854	15.951	0.030000
553.735	15.860	0.030000
558.616	15.862	0.030000
563.497	15.997	0.030000
568.378	16.044	0.030000
573.259	15.964	0.030000
578.140	16.032	0.030000
583.021	16.247	0.030000
587.902	16.032	0.030000
592.783	16.106	0.030000
597.664	15.934	0.030000
602.545	16.007	0.030000
607.426	16.135	0.030000
612.426	16.000	0.030000
617.426	16.197	0.030000
622.426	16.157	0.030000
627.009	16.116	0.030000
631.592	16.009	0.030000
636.176	16.025	0.030000
640.759	16.048	0.030000
645.342	16.006	0.030000
649.926	16.040	0.030000
653.928	16.147	0.030000
657.931	16.213	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

661.933	16.061	0.030000
665.936	16.157	0.030000
669.938	16.180	0.030000

Name: XK0080A                      Group: K  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	16.294	0.030000
4.178	16.126	0.030000
8.356	16.032	0.030000
12.534	15.988	0.030000
16.336	15.994	0.030000
20.137	16.020	0.030000
23.939	16.010	0.030000
27.741	16.040	0.030000
31.468	16.038	0.030000
35.194	15.996	0.030000
38.921	16.059	0.030000
42.874	16.089	0.030000
46.827	16.133	0.030000
50.780	16.189	0.030000
54.733	16.221	0.030000
58.982	16.116	0.030000
63.231	16.062	0.030000
67.480	15.996	0.030000
71.729	16.102	0.030000
75.978	16.118	0.030000
80.228	16.052	0.030000
84.180	15.995	0.030000
88.133	16.058	0.030000
92.086	16.108	0.030000
96.039	16.166	0.030000
100.217	16.121	0.030000
104.396	16.132	0.030000
108.574	16.220	0.030000
112.752	16.185	0.030000
116.930	16.252	0.030000
121.108	16.330	0.030000
125.596	16.261	0.030000
130.084	16.375	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

134.571	16.429	0.030000
139.059	16.475	0.030000
143.547	16.522	0.030000
147.499	16.483	0.030000
151.452	16.440	0.030000
155.405	16.459	0.030000
159.358	16.496	0.030000
163.311	16.532	0.030000
167.264	16.576	0.030000
171.217	16.522	0.030000
175.169	16.585	0.030000
179.292	16.638	0.030000
183.416	16.682	0.030000
187.539	16.693	0.030000
191.662	16.676	0.030000
195.785	16.700	0.030000
199.512	16.684	0.030000
203.238	16.727	0.030000
206.965	16.797	0.030000
211.088	16.786	0.030000
215.211	16.767	0.030000
219.334	16.754	0.030000
223.458	16.740	0.030000
227.581	16.771	0.030000
231.534	16.804	0.030000
235.486	16.810	0.030000
239.439	16.846	0.030000
243.392	16.791	0.030000
247.119	16.758	0.030000
250.846	16.820	0.030000
254.572	16.882	0.030000
258.525	16.839	0.030000
262.478	16.835	0.030000
266.431	16.875	0.030000
270.384	16.924	0.030000
274.337	16.921	0.030000
278.289	16.926	0.030000
282.242	16.955	0.030000
286.195	16.981	0.030000
290.148	16.978	0.030000
294.101	17.035	0.030000
298.054	17.045	0.030000
302.007	17.071	0.030000
305.959	17.071	0.030000
309.912	17.081	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

313.865	17.081	0.030000
317.818	17.135	0.030000
321.941	17.168	0.030000
326.064	17.165	0.030000
330.187	17.198	0.030000
334.310	17.179	0.030000
338.433	17.196	0.030000
342.160	17.224	0.030000
345.887	17.289	0.030000
349.614	17.355	0.030000
353.737	17.328	0.030000
357.860	17.298	0.030000
361.983	17.350	0.030000
366.106	17.414	0.030000
370.229	17.475	0.030000
374.182	17.483	0.030000
378.135	17.521	0.030000
382.088	17.544	0.030000
386.041	17.569	0.030000
389.768	17.558	0.030000
393.494	17.615	0.030000
397.221	17.726	0.030000
401.174	17.759	0.030000
405.127	17.737	0.030000
409.080	17.740	0.030000
413.033	17.773	0.030000
417.156	17.769	0.030000
421.279	17.791	0.030000
425.402	17.848	0.030000
429.525	17.900	0.030000
433.648	17.916	0.030000
437.771	17.931	0.030000
441.894	17.967	0.030000
446.017	17.986	0.030000
450.140	18.032	0.030000
454.264	18.010	0.030000
457.990	17.992	0.030000
461.717	18.013	0.030000
465.444	18.019	0.030000
469.567	18.022	0.030000
473.690	18.012	0.030000
477.813	18.060	0.030000
481.936	18.055	0.030000
486.060	18.066	0.030000
490.012	18.051	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

493.965	18.111	0.030000
497.918	18.094	0.030000
501.871	18.105	0.030000
506.216	18.062	0.030000
510.560	17.989	0.030000
514.905	18.005	0.030000
519.250	18.090	0.030000
523.595	18.019	0.030000
527.940	17.979	0.030000
532.285	17.960	0.030000
536.237	17.974	0.030000
540.190	17.991	0.030000
544.143	17.961	0.030000
548.096	17.959	0.030000
552.515	17.947	0.030000
556.935	17.955	0.030000
561.354	17.999	0.030000
565.774	17.883	0.030000
570.193	17.921	0.030000
574.612	17.919	0.030000
579.032	17.886	0.030000
583.451	17.876	0.030000
588.182	17.863	0.030000
592.912	17.817	0.030000
597.643	17.800	0.030000
602.373	17.823	0.030000
607.103	17.788	0.030000
611.834	17.773	0.030000
616.564	17.732	0.030000
621.294	17.761	0.030000
626.025	17.733	0.030000
630.755	17.720	0.030000
635.486	17.749	0.030000
640.216	17.712	0.030000
644.946	17.688	0.030000
649.677	17.643	0.030000
654.407	17.636	0.030000
659.138	17.626	0.030000
663.868	17.614	0.030000
668.598	17.611	0.030000
673.376	17.602	0.030000
678.154	17.595	0.030000
682.932	17.589	0.030000
687.710	17.585	0.030000
692.488	17.553	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

Name: XK0080B      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.609	0.030000
3.886	15.594	0.030000
7.772	15.480	0.030000
11.658	15.476	0.030000
16.165	15.450	0.030000
20.672	15.455	0.030000
24.108	15.403	0.030000
27.543	15.316	0.030000
30.979	15.292	0.030000
34.729	15.314	0.030000
38.479	15.406	0.030000
42.229	15.380	0.030000
45.979	15.374	0.030000
49.932	15.363	0.030000
53.885	15.378	0.030000
57.838	15.408	0.030000
61.791	15.457	0.030000
66.791	15.531	0.030000
69.291	15.569	0.030000
71.791	15.680	0.030000
75.227	15.799	0.030000
78.663	15.846	0.030000
82.099	15.840	0.030000
85.849	15.875	0.030000
89.599	15.782	0.030000
93.349	15.671	0.030000
97.099	15.554	0.030000
101.590	15.491	0.030000
106.081	15.366	0.030000
110.573	15.232	0.030000
115.064	15.201	0.030000
119.556	15.166	0.030000
124.047	15.130	0.030000
128.539	15.208	0.030000
133.030	15.359	0.030000
137.522	15.442	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

141.035	15.330	0.030000
144.549	15.330	0.030000
148.063	15.267	0.030000
152.492	15.236	0.030000
156.921	15.195	0.030000
160.478	15.138	0.030000
164.036	15.102	0.030000
167.593	15.118	0.030000
172.562	15.125	0.030000
177.531	15.231	0.030000
182.500	15.177	0.030000
187.469	15.223	0.030000
192.438	15.318	0.030000
197.407	15.556	0.030000
201.306	15.586	0.030000
205.205	15.645	0.030000
209.104	15.686	0.030000
212.437	15.732	0.030000
215.770	15.821	0.030000
219.104	15.826	0.030000
223.451	15.830	0.030000
227.799	15.981	0.030000
232.147	16.319	0.030000
236.046	16.330	0.030000
239.945	16.024	0.030000
243.844	15.736	0.030000
248.844	15.442	0.030000
251.344	15.321	0.030000
253.844	15.339	0.030000
258.844	15.359	0.030000
263.844	15.467	0.030000
268.844	15.641	0.030000
272.279	15.708	0.030000
275.716	15.708	0.030000
279.151	15.691	0.030000
283.196	15.731	0.030000
287.240	15.773	0.030000
291.285	15.792	0.030000
295.868	15.807	0.030000
300.452	15.806	0.030000
305.035	15.845	0.030000
309.618	15.830	0.030000
313.176	15.833	0.030000
316.733	15.829	0.030000
320.290	15.827	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

324.638	15.836	0.030000
328.986	15.833	0.030000
333.334	15.862	0.030000
337.822	15.730	0.030000
342.309	15.558	0.030000
346.797	15.607	0.030000
351.284	15.576	0.030000
355.772	15.616	0.030000
359.817	15.622	0.030000
363.861	15.657	0.030000
367.906	15.664	0.030000
372.906	15.687	0.030000
377.906	15.709	0.030000
381.707	15.747	0.030000
385.509	15.771	0.030000
389.311	15.925	0.030000
393.112	16.022	0.030000
397.634	16.031	0.030000
402.155	15.910	0.030000
406.676	15.686	0.030000
411.197	15.684	0.030000
415.718	15.634	0.030000
420.239	15.804	0.030000
424.760	15.681	0.030000
429.418	15.607	0.030000
434.077	15.598	0.030000
438.735	15.651	0.030000
442.171	15.765	0.030000
445.607	15.942	0.030000
449.043	16.098	0.030000
453.531	16.200	0.030000
458.018	16.304	0.030000
462.506	16.419	0.030000
466.994	16.579	0.030000
471.481	16.453	0.030000
475.896	16.466	0.030000
480.310	16.403	0.030000
484.725	16.384	0.030000
489.139	16.460	0.030000
493.038	16.537	0.030000
496.937	16.604	0.030000
500.836	16.407	0.030000
504.393	16.295	0.030000
507.950	16.279	0.030000
511.508	16.281	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

515.892	16.288	0.030000
520.276	16.267	0.030000
524.660	16.392	0.030000
529.045	16.484	0.030000
533.429	16.466	0.030000
537.474	16.569	0.030000
541.518	16.809	0.030000
545.563	16.685	0.030000
549.992	16.489	0.030000
554.421	16.566	0.030000
558.769	16.577	0.030000
563.117	16.426	0.030000
567.465	16.330	0.030000
571.087	16.314	0.030000
574.708	16.279	0.030000
578.330	16.274	0.030000
583.288	16.142	0.030000
588.245	15.950	0.030000
593.202	16.012	0.030000
598.160	16.113	0.030000
603.117	16.266	0.030000
608.074	16.290	0.030000
612.562	16.273	0.030000
617.050	16.286	0.030000
620.800	16.305	0.030000
624.550	16.305	0.030000
628.300	16.372	0.030000
632.050	16.358	0.030000
635.800	16.363	0.030000
639.550	16.354	0.030000
643.300	16.300	0.030000
647.050	16.285	0.030000
650.383	16.342	0.030000
653.716	16.368	0.030000
657.050	16.366	0.030000
661.537	16.424	0.030000
666.025	16.349	0.030000
670.439	16.253	0.030000
674.854	16.157	0.030000
679.269	16.154	0.030000
683.683	16.199	0.030000
687.485	16.223	0.030000
691.287	16.248	0.030000
695.088	16.237	0.030000
698.890	16.220	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

703.859	16.201	0.030000
708.828	16.182	0.030000
713.797	16.212	0.030000
717.842	16.222	0.030000
721.886	16.231	0.030000
725.931	16.203	0.030000
730.410	16.175	0.030000
734.889	16.095	0.030000
739.368	16.021	0.030000
743.847	15.947	0.030000
748.326	15.874	0.030000
752.805	15.876	0.030000
757.234	15.880	0.030000
761.663	15.887	0.030000
765.099	15.893	0.030000
768.535	15.895	0.030000
771.971	15.904	0.030000
775.773	15.937	0.030000
779.574	16.037	0.030000
783.376	16.077	0.030000
787.178	16.152	0.030000
791.553	16.233	0.030000
795.928	16.240	0.030000
800.303	16.277	0.030000
804.678	16.412	0.030000
809.165	16.390	0.030000
813.653	16.377	0.030000
818.141	16.364	0.030000
822.480	16.338	0.030000
826.819	16.314	0.030000
831.158	16.293	0.030000
834.931	16.247	0.030000
838.704	16.191	0.030000
842.477	16.123	0.030000
846.250	16.006	0.030000
850.893	15.841	0.030000
855.535	15.812	0.030000
860.177	15.950	0.030000
864.819	16.080	0.030000
869.462	16.138	0.030000
874.104	16.193	0.030000
878.746	16.251	0.030000
883.389	16.213	0.030000
888.031	15.997	0.030000
892.673	15.942	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

897.612	15.926	0.030000
902.552	15.896	0.030000
907.491	15.899	0.030000
912.430	15.890	0.030000
917.369	15.807	0.030000
922.308	15.702	0.030000
927.247	15.600	0.030000
932.187	15.588	0.030000
937.126	15.619	0.030000
942.065	15.548	0.030000
947.004	15.482	0.030000
951.943	15.552	0.030000
956.882	15.507	0.030000
961.821	15.503	0.030000
966.760	15.523	0.030000
971.700	15.424	0.030000
976.639	15.371	0.030000
981.578	15.307	0.030000
986.517	15.284	0.030000
991.456	15.412	0.030000
996.395	15.315	0.030000
1001.335	15.339	0.030000
1006.274	15.231	0.030000
1011.213	15.137	0.030000
1016.152	15.003	0.030000
1021.091	14.978	0.030000
1026.030	15.223	0.030000
1030.969	15.712	0.030000
1035.909	15.921	0.030000
1040.848	15.943	0.030000
1045.787	16.058	0.030000
1050.726	16.601	0.030000
1055.665	16.324	0.030000

Name: XK0080C                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.683	0.030000
3.627	15.655	0.030000
3.627	15.669	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

8.415	15.658	0.030000
13.202	15.564	0.030000
17.990	15.585	0.030000
22.778	15.678	0.030000
27.565	15.614	0.030000
32.353	15.575	0.030000
37.141	15.613	0.030000
41.929	15.416	0.030000
46.716	15.381	0.030000
51.504	15.383	0.030000
56.292	15.355	0.030000
61.080	15.372	0.030000
65.867	15.375	0.030000
70.655	15.373	0.030000
75.443	15.375	0.030000
80.230	15.342	0.030000
85.018	15.345	0.030000
89.806	15.315	0.030000
94.594	15.285	0.030000
94.594	15.254	0.030000
98.220	15.292	0.030000

Name: XK0090B      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	17.240	0.030000
4.925	17.308	0.030000
9.850	17.370	0.030000
14.775	17.436	0.030000
19.700	17.502	0.030000
24.048	17.560	0.030000
28.396	17.617	0.030000
32.744	17.678	0.030000
37.092	17.730	0.030000
41.439	17.785	0.030000
45.787	17.840	0.030000
49.345	17.888	0.030000
52.902	17.931	0.030000
56.459	17.979	0.030000
61.214	18.019	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

65.969	18.040	0.030000
70.724	18.007	0.030000
74.853	17.747	0.030000
78.983	17.692	0.030000
83.112	17.652	0.030000
87.221	17.654	0.030000
91.330	17.576	0.030000
95.439	17.520	0.030000
99.548	17.507	0.030000
103.728	17.439	0.030000
107.908	17.380	0.030000
112.088	17.325	0.030000
116.268	17.258	0.030000
120.448	17.225	0.030000
124.492	17.149	0.030000
128.537	17.058	0.030000
132.581	17.024	0.030000
136.331	17.020	0.030000
140.081	17.012	0.030000
143.831	17.017	0.030000
147.581	17.042	0.030000
152.581	16.967	0.030000
157.581	16.849	0.030000
161.534	16.868	0.030000
165.487	16.961	0.030000
169.440	16.527	0.030000
173.499	16.327	0.030000
177.558	16.172	0.030000
181.617	16.181	0.030000
185.676	16.169	0.030000
189.735	16.152	0.030000
193.934	16.150	0.030000
198.133	16.016	0.030000
202.332	15.942	0.030000
205.988	15.976	0.030000
209.643	16.207	0.030000
213.298	16.287	0.030000

-----  
Name: XK0100B                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

Long Branch BMP Model Results  
Input Data Report Summary

0.000	15.519	0.030000
4.984	15.471	0.030000
9.967	15.426	0.030000
14.951	15.400	0.030000
19.934	15.362	0.030000
24.918	15.321	0.030000
29.901	15.296	0.030000
34.885	15.299	0.030000
39.869	15.313	0.030000
44.852	15.327	0.030000
49.836	15.310	0.030000
54.819	15.278	0.030000
59.803	15.214	0.030000
64.787	15.178	0.030000
69.770	15.219	0.030000
74.754	15.216	0.030000
79.737	15.215	0.030000
84.721	15.215	0.030000
89.704	15.182	0.030000
94.688	15.146	0.030000
99.671	15.147	0.030000
104.655	15.147	0.030000
109.639	15.083	0.030000
114.622	15.049	0.030000
119.606	15.077	0.030000
124.589	15.004	0.030000
129.573	14.994	0.030000
134.557	15.040	0.030000
139.540	15.003	0.030000
144.524	14.938	0.030000
149.507	14.909	0.030000
154.491	15.015	0.030000
159.474	15.010	0.030000
164.458	14.990	0.030000
169.442	15.049	0.030000
174.425	15.056	0.030000
179.409	15.064	0.030000
184.392	15.090	0.030000
189.376	15.046	0.030000
194.359	14.930	0.030000
199.343	14.947	0.030000
204.327	15.049	0.030000
209.310	14.945	0.030000
214.294	14.922	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

219.277	14.981	0.030000
224.261	14.996	0.030000
229.244	14.989	0.030000
234.228	15.052	0.030000
239.212	14.978	0.030000
244.195	14.953	0.030000
249.179	14.910	0.030000
254.162	14.925	0.030000
259.146	14.947	0.030000
264.130	14.851	0.030000
269.113	14.908	0.030000
274.097	14.936	0.030000
279.080	14.866	0.030000
284.064	14.818	0.030000
289.047	14.840	0.030000
294.031	14.865	0.030000
299.015	14.761	0.030000
303.998	14.801	0.030000
308.982	14.846	0.030000
313.965	14.765	0.030000
318.949	14.764	0.030000
323.932	14.833	0.030000
328.916	14.823	0.030000
333.900	14.772	0.030000
338.883	14.780	0.030000
343.867	14.791	0.030000
348.850	14.819	0.030000
353.834	14.809	0.030000
358.817	14.844	0.030000
363.801	14.874	0.030000
368.785	14.832	0.030000
373.768	14.821	0.030000
378.752	14.810	0.030000
383.735	14.807	0.030000
388.719	14.845	0.030000
393.702	14.866	0.030000
398.686	14.855	0.030000
403.670	14.814	0.030000
408.653	14.852	0.030000
413.637	14.829	0.030000
418.620	14.873	0.030000
423.604	14.789	0.030000
428.587	14.814	0.030000
433.571	14.748	0.030000
438.555	14.763	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

443.538	14.746	0.030000
448.522	14.771	0.030000
453.505	14.672	0.030000
458.489	14.640	0.030000
463.473	14.680	0.030000
468.456	14.602	0.030000
473.440	14.600	0.030000
478.423	14.626	0.030000
483.407	14.600	0.030000
488.390	14.693	0.030000
493.374	14.702	0.030000
498.358	14.767	0.030000
503.341	14.724	0.030000
508.325	14.756	0.030000
513.308	14.782	0.030000
518.292	14.578	0.030000
523.275	14.664	0.030000
528.259	14.875	0.030000
533.243	14.731	0.030000
538.226	14.660	0.030000
543.210	14.749	0.030000
548.193	14.807	0.030000
553.177	14.762	0.030000
558.160	14.839	0.030000
563.144	14.763	0.030000
568.128	14.617	0.030000
573.111	14.666	0.030000
578.095	14.707	0.030000
583.078	14.615	0.030000
588.062	14.483	0.030000
593.045	14.540	0.030000
598.029	14.531	0.030000
603.013	14.404	0.030000
607.996	14.477	0.030000
612.980	14.452	0.030000
617.963	14.363	0.030000
622.947	14.423	0.030000
627.931	14.394	0.030000
632.914	14.435	0.030000
637.898	14.615	0.030000
642.881	14.719	0.030000
647.865	14.736	0.030000
652.848	15.057	0.030000
657.832	15.150	0.030000
662.816	15.248	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

667.799 15.224 0.030000

Name: XK0100C Group: K  
Encroachment: No

Station(ft) Elevation(ft) Manning's N

0.000	15.512	0.030000
4.353	15.427	0.030000
8.706	15.324	0.030000
13.059	15.265	0.030000
17.558	15.172	0.030000
22.058	15.442	0.030000
26.558	15.493	0.030000
31.058	15.509	0.030000
35.559	15.525	0.030000
39.457	15.601	0.030000
43.356	15.826	0.030000
47.255	16.273	0.030000
51.299	16.509	0.030000
55.344	16.572	0.030000
59.388	16.343	0.030000
63.419	16.081	0.030000
67.451	15.895	0.030000
71.482	15.824	0.030000
75.513	15.650	0.030000
79.544	15.556	0.030000
82.980	15.527	0.030000
86.416	15.498	0.030000
89.852	15.470	0.030000
94.440	15.446	0.030000
99.028	15.439	0.030000
103.616	15.417	0.030000
108.204	15.359	0.030000
112.792	15.152	0.030000
117.380	14.880	0.030000
121.968	14.843	0.030000
126.556	14.875	0.030000
131.144	14.855	0.030000
135.732	15.003	0.030000
140.321	15.106	0.030000
144.909	15.291	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

149.909	15.535	0.030000
154.909	15.570	0.030000
159.652	15.600	0.030000
164.395	15.682	0.030000
169.139	15.871	0.030000
173.882	16.001	0.030000
178.626	16.049	0.030000
183.386	16.034	0.030000
188.145	16.013	0.030000
192.905	15.961	0.030000
197.665	15.962	0.030000
200.999	15.924	0.030000
204.332	15.869	0.030000
207.665	15.913	0.030000
212.172	16.002	0.030000
216.679	16.016	0.030000
221.098	16.201	0.030000
225.518	16.063	0.030000
229.937	15.696	0.030000
234.357	15.531	0.030000
238.401	15.412	0.030000
242.446	15.572	0.030000
246.490	15.485	0.030000
250.919	15.421	0.030000
255.349	15.389	0.030000
260.349	15.313	0.030000
262.849	15.230	0.030000
265.349	15.214	0.030000
270.349	15.177	0.030000
275.303	15.124	0.030000
280.258	15.065	0.030000
285.213	15.064	0.030000
290.167	15.253	0.030000
294.235	15.508	0.030000
298.303	15.699	0.030000
302.371	15.741	0.030000
306.439	15.714	0.030000
310.507	15.689	0.030000
314.290	15.709	0.030000
318.073	15.764	0.030000
321.856	15.839	0.030000
325.640	15.917	0.030000

-----  
Name: XK0100D

Group: K

Long Branch BMP Model Results  
Input Data Report Summary

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.971	0.030000
4.937	16.194	0.030000
9.874	16.249	0.030000
14.811	16.148	0.030000
19.747	16.185	0.030000
24.684	16.177	0.030000
29.621	16.270	0.030000
34.558	16.321	0.030000
39.495	16.201	0.030000
44.432	16.267	0.030000
49.368	16.242	0.030000
54.305	16.119	0.030000
59.242	16.237	0.030000
64.179	16.205	0.030000
69.116	16.067	0.030000
74.053	15.932	0.030000
78.990	15.961	0.030000
83.927	15.995	0.030000
88.863	15.862	0.030000
93.800	15.774	0.030000
98.737	15.817	0.030000
103.674	15.834	0.030000
108.611	15.660	0.030000
113.548	15.666	0.030000
118.484	15.716	0.030000
123.421	15.148	0.030000
128.361	16.451	0.030000
133.302	16.137	0.030000
138.242	16.330	0.030000
143.182	16.524	0.030000
148.122	16.457	0.030000
153.062	16.200	0.030000
158.002	16.100	0.030000
162.942	16.032	0.030000
167.882	16.177	0.030000
172.822	16.756	0.030000
177.763	16.271	0.030000
182.703	16.039	0.030000
187.643	16.022	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

192.583	15.889	0.030000
197.523	15.969	0.030000
202.463	16.225	0.030000
207.403	16.382	0.030000
212.344	16.477	0.030000
217.284	16.506	0.030000
222.224	16.487	0.030000
227.164	16.374	0.030000
232.104	16.393	0.030000
237.044	16.541	0.030000
241.984	16.710	0.030000
246.924	16.852	0.030000
251.864	16.947	0.030000
256.805	16.827	0.030000
261.745	16.417	0.030000
266.685	16.356	0.030000
271.625	16.301	0.030000
276.565	15.736	0.030000
281.505	15.440	0.030000
286.445	15.371	0.030000
291.385	15.358	0.030000
296.326	15.528	0.030000
301.266	15.626	0.030000
306.043	15.304	0.030000
310.819	15.042	0.030000
315.596	14.965	0.030000
320.373	15.003	0.030000
325.150	15.079	0.030000
329.927	15.130	0.030000
334.704	15.286	0.030000
339.480	15.208	0.030000
344.257	15.221	0.030000
349.034	15.321	0.030000
353.811	15.282	0.030000
358.588	15.287	0.030000
363.365	15.105	0.030000
368.141	15.013	0.030000
373.043	14.907	0.030000
377.944	14.839	0.030000
382.845	14.951	0.030000
387.746	14.879	0.030000
392.647	14.939	0.030000
397.548	14.850	0.030000
402.450	14.887	0.030000
407.351	14.754	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

412.252	14.926	0.030000
417.153	15.183	0.030000
422.054	15.305	0.030000
426.955	15.373	0.030000
431.856	15.347	0.030000
436.758	15.189	0.030000

-----

Name: XK0100E	Group: K
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
0.000	15.224	0.030000
4.900	15.271	0.030000
9.801	15.211	0.030000
14.701	14.822	0.030000
19.602	14.810	0.030000
24.502	14.875	0.030000
29.403	14.741	0.030000
34.303	14.589	0.030000
39.203	14.551	0.030000
44.104	14.557	0.030000
49.004	14.713	0.030000
53.905	14.889	0.030000
58.805	15.026	0.030000
63.706	15.158	0.030000
68.606	15.221	0.030000
73.507	15.282	0.030000
78.407	15.384	0.030000
83.308	15.448	0.030000
88.208	15.433	0.030000
93.108	15.424	0.030000
98.009	15.481	0.030000
102.909	15.518	0.030000
107.810	15.531	0.030000
112.710	15.579	0.030000
117.611	15.575	0.030000
122.511	15.669	0.030000
127.412	15.758	0.030000
132.312	15.669	0.030000
137.212	15.642	0.030000
142.113	15.650	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

147.013	15.671	0.030000
151.914	15.633	0.030000
156.814	15.669	0.030000
161.715	15.686	0.030000
166.615	15.726	0.030000
171.516	15.696	0.030000
176.416	15.659	0.030000
181.316	15.814	0.030000
186.217	15.738	0.030000
191.117	15.669	0.030000
196.018	15.724	0.030000
200.918	15.727	0.030000
205.819	15.793	0.030000
210.719	15.834	0.030000
215.619	15.866	0.030000
220.520	15.818	0.030000
225.420	15.786	0.030000
230.321	15.853	0.030000
235.221	15.971	0.030000

Name: XK0100F      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.189	0.030000
4.909	15.072	0.030000
9.818	14.965	0.030000
14.727	14.829	0.030000
19.636	14.726	0.030000
24.545	14.925	0.030000
29.454	14.852	0.030000
34.363	14.866	0.030000
39.273	14.985	0.030000
44.182	15.021	0.030000
49.091	15.089	0.030000
54.000	15.122	0.030000
58.909	15.114	0.030000
63.818	15.140	0.030000
68.727	15.198	0.030000
73.636	15.197	0.030000
78.545	15.137	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

83.454	15.114	0.030000
88.363	15.060	0.030000
93.272	14.959	0.030000
98.181	15.181	0.030000
103.090	15.562	0.030000
107.999	15.648	0.030000
112.908	15.818	0.030000
117.817	15.355	0.030000
122.727	15.137	0.030000
127.635	15.131	0.030000
132.545	15.070	0.030000
137.454	15.163	0.030000
142.363	15.155	0.030000
147.272	15.612	0.030000
151.701	15.725	0.030000
156.130	15.417	0.030000
159.464	15.242	0.030000
162.797	14.994	0.030000
166.130	15.034	0.030000
169.857	15.112	0.030000
173.584	15.392	0.030000
177.311	15.457	0.030000
181.989	15.265	0.030000
186.668	15.177	0.030000
191.346	15.192	0.030000
196.025	15.147	0.030000
200.703	15.121	0.030000
205.382	15.132	0.030000
210.060	15.168	0.030000
214.739	15.141	0.030000
219.418	15.012	0.030000
224.096	15.076	0.030000
228.775	15.178	0.030000
233.453	15.275	0.030000
238.132	15.283	0.030000
242.810	15.592	0.030000
247.489	15.758	0.030000
252.471	15.448	0.030000
257.454	15.485	0.030000
262.437	15.712	0.030000
267.419	15.730	0.030000

Name: XK0110B  
Encroachment: No

Group: K



Long Branch BMP Model Results  
Input Data Report Summary

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

0.000	15.655	0.030000
4.828	15.700	0.030000
9.656	15.596	0.030000
14.485	15.518	0.030000
18.914	15.536	0.030000
23.343	15.658	0.030000
28.343	15.774	0.030000
33.343	15.926	0.030000
36.779	16.100	0.030000
40.215	16.184	0.030000
43.651	16.098	0.030000
47.453	16.190	0.030000
51.254	16.342	0.030000
55.056	16.471	0.030000
58.858	16.687	0.030000
63.555	16.832	0.030000
68.253	16.811	0.030000
72.950	16.821	0.030000
77.648	16.863	0.030000
82.345	16.858	0.030000
87.043	16.827	0.030000
91.740	16.781	0.030000
96.603	16.707	0.030000
101.466	16.612	0.030000
106.330	16.564	0.030000
111.193	16.537	0.030000
116.056	16.538	0.030000
120.919	16.543	0.030000
125.577	16.549	0.030000
130.236	16.554	0.030000
134.310	16.553	0.030000
138.385	16.523	0.030000
142.459	16.526	0.030000
146.534	16.606	0.030000
150.791	16.643	0.030000
155.048	16.656	0.030000
159.306	16.638	0.030000
163.563	16.876	0.030000
167.821	16.940	0.030000
171.622	16.742	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

175.424	16.432	0.030000
179.226	16.492	0.030000
183.027	16.583	0.030000
187.277	16.590	0.030000
191.526	16.597	0.030000
195.775	16.628	0.030000
200.194	16.656	0.030000
204.614	16.625	0.030000
209.033	16.660	0.030000
213.453	16.693	0.030000
217.203	16.749	0.030000
220.953	16.779	0.030000
224.703	16.803	0.030000
228.453	16.774	0.030000
232.497	16.770	0.030000
236.542	16.759	0.030000
240.586	16.690	0.030000
244.707	16.768	0.030000
248.828	16.690	0.030000
252.949	16.727	0.030000
257.070	16.759	0.030000
261.384	16.759	0.030000
265.699	16.778	0.030000
270.013	16.853	0.030000
273.570	16.757	0.030000
277.128	16.611	0.030000
280.685	16.485	0.030000
285.654	16.429	0.030000
290.623	16.494	0.030000
295.592	16.561	0.030000
300.021	16.634	0.030000
304.450	16.619	0.030000
308.917	16.745	0.030000
313.384	16.898	0.030000
317.851	16.995	0.030000
322.317	17.043	0.030000
326.784	17.090	0.030000
331.294	16.991	0.030000
335.803	16.887	0.030000
340.313	16.785	0.030000
344.822	16.698	0.030000
349.332	16.635	0.030000
353.842	16.650	0.030000
358.329	16.342	0.030000
362.817	16.083	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

367.305	15.983	0.030000
371.336	15.840	0.030000
375.367	15.626	0.030000
379.398	15.572	0.030000
383.429	15.774	0.030000
387.460	15.859	0.030000
391.746	15.798	0.030000
396.032	15.737	0.030000
400.317	15.672	0.030000
404.603	15.588	0.030000
408.889	15.614	0.030000
413.175	15.655	0.030000
417.460	15.671	0.030000
421.648	15.630	0.030000
425.835	15.614	0.030000
430.022	15.651	0.030000
434.210	15.764	0.030000
438.397	15.765	0.030000
442.585	15.689	0.030000
446.933	15.598	0.030000
451.281	15.626	0.030000
455.629	15.747	0.030000
460.598	15.854	0.030000
465.567	16.007	0.030000
470.536	16.024	0.030000
475.346	16.000	0.030000
480.155	15.936	0.030000
484.965	15.914	0.030000
489.775	15.945	0.030000
494.634	15.884	0.030000
499.493	15.820	0.030000
504.352	15.753	0.030000
508.251	15.729	0.030000
512.150	15.682	0.030000
516.048	15.644	0.030000
520.493	15.475	0.030000
524.937	15.513	0.030000
529.382	15.528	0.030000
533.870	15.416	0.030000
538.357	15.404	0.030000
543.357	15.452	0.030000
548.357	15.490	0.030000
553.357	15.537	0.030000
558.357	15.622	0.030000
562.732	15.694	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

567.107	15.754	0.030000
571.482	15.793	0.030000
575.857	15.833	0.030000
580.232	15.873	0.030000
584.607	15.822	0.030000
588.982	15.851	0.030000
593.357	15.826	0.030000
597.310	15.879	0.030000
601.263	15.960	0.030000
605.216	15.991	0.030000
609.531	16.020	0.030000
613.847	16.155	0.030000
618.163	16.111	0.030000
622.478	15.991	0.030000
626.794	15.848	0.030000
630.981	15.733	0.030000
635.169	15.704	0.030000
639.356	15.706	0.030000
643.544	15.707	0.030000
647.731	15.692	0.030000
651.919	15.657	0.030000
655.720	15.646	0.030000
659.522	15.605	0.030000
663.324	15.547	0.030000
667.126	15.490	0.030000
671.313	15.467	0.030000
675.500	15.510	0.030000
679.688	15.559	0.030000
683.875	15.548	0.030000
688.063	15.512	0.030000
692.250	15.511	0.030000
695.584	15.513	0.030000
698.917	15.515	0.030000
702.250	15.525	0.030000
706.499	15.612	0.030000
710.749	15.719	0.030000
714.998	15.882	0.030000
719.247	15.812	0.030000
724.124	15.800	0.030000
729.001	15.789	0.030000
733.878	15.796	0.030000
738.755	15.888	0.030000
743.323	15.952	0.030000
747.892	15.866	0.030000
752.461	15.871	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

756.750	15.869	0.030000
761.040	15.874	0.030000
765.330	15.876	0.030000
768.766	15.895	0.030000
772.202	15.914	0.030000
775.638	15.887	0.030000
780.607	15.855	0.030000
785.576	15.784	0.030000
790.545	15.672	0.030000
794.893	15.575	0.030000
799.241	15.696	0.030000
803.589	15.829	0.030000
807.937	15.954	0.030000
812.284	16.038	0.030000
816.632	16.069	0.030000
821.017	16.039	0.030000
825.401	16.012	0.030000
829.785	15.986	0.030000
834.170	15.959	0.030000
838.554	15.928	0.030000
841.887	15.885	0.030000
845.221	15.838	0.030000
848.554	15.792	0.030000
853.007	15.752	0.030000
857.460	15.687	0.030000
861.913	15.581	0.030000
866.366	15.474	0.030000
870.820	15.384	0.030000
875.273	15.417	0.030000
879.726	15.417	0.030000
884.179	15.580	0.030000
888.632	15.640	0.030000
892.359	15.613	0.030000
896.086	15.690	0.030000
899.812	15.721	0.030000
903.562	15.737	0.030000
907.312	15.754	0.030000
911.062	15.771	0.030000
914.812	15.791	0.030000
918.248	15.821	0.030000
921.684	15.890	0.030000
925.120	15.923	0.030000
929.608	15.935	0.030000
934.095	15.940	0.030000
938.574	15.950	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

943.053	16.017	0.030000
947.533	16.070	0.030000
952.012	16.124	0.030000
956.491	16.180	0.030000
960.970	16.236	0.030000
964.406	16.239	0.030000
967.842	16.241	0.030000
971.277	16.247	0.030000
975.707	16.217	0.030000
980.136	16.208	0.030000
983.693	16.173	0.030000
987.250	16.156	0.030000
990.808	16.128	0.030000
994.852	16.134	0.030000
998.897	16.138	0.030000
1002.941	16.177	0.030000
1006.377	16.096	0.030000
1009.813	15.990	0.030000
1013.249	15.970	0.030000
1018.108	15.982	0.030000
1022.967	15.933	0.030000
1027.826	15.965	0.030000
1032.076	15.993	0.030000
1036.325	16.048	0.030000
1040.574	16.112	0.030000
1045.230	16.116	0.030000
1049.887	16.024	0.030000
1054.543	15.924	0.030000
1059.512	15.855	0.030000
1064.481	15.814	0.030000
1069.450	15.888	0.030000
1073.630	15.940	0.030000
1077.810	15.985	0.030000
1081.990	15.977	0.030000
1086.170	15.874	0.030000
1090.350	15.739	0.030000
1095.209	15.606	0.030000
1100.068	15.465	0.030000
1104.928	15.356	0.030000
1108.654	15.318	0.030000
1112.381	15.329	0.030000
1116.108	15.360	0.030000
1120.967	15.474	0.030000
1125.826	15.810	0.030000
1130.685	15.824	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1135.544	15.824	0.030000
1140.403	15.717	0.030000
1145.263	15.755	0.030000
1148.653	15.886	0.030000
1152.044	15.876	0.030000
1155.435	15.824	0.030000
1159.057	15.853	0.030000
1162.678	15.631	0.030000
1166.300	15.481	0.030000
1170.807	15.599	0.030000
1175.314	15.677	0.030000
1179.728	15.730	0.030000
1184.143	15.780	0.030000
1188.557	15.887	0.030000
1192.972	16.062	0.030000
1197.017	15.968	0.030000
1201.062	15.956	0.030000
1205.107	15.963	0.030000
1209.152	15.984	0.030000
1213.762	15.972	0.030000
1218.372	15.925	0.030000
1222.982	15.941	0.030000
1227.592	16.099	0.030000
1232.201	16.287	0.030000
1236.621	16.301	0.030000
1241.040	16.330	0.030000
1245.459	16.332	0.030000
1249.879	16.438	0.030000
1254.066	16.467	0.030000
1258.254	16.272	0.030000
1262.441	16.213	0.030000
1266.629	16.195	0.030000
1270.816	16.227	0.030000
1275.004	16.264	0.030000
1279.379	16.147	0.030000
1283.754	15.961	0.030000
1288.129	16.076	0.030000
1292.504	16.221	0.030000
1297.476	16.132	0.030000
1302.448	16.194	0.030000
1307.420	16.214	0.030000
1312.392	16.276	0.030000
1317.364	16.311	0.030000
1321.794	16.386	0.030000
1326.223	16.346	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1330.176	16.336	0.030000
1334.129	15.924	0.030000
1338.081	15.886	0.030000
1342.034	15.874	0.030000
1346.382	15.897	0.030000
1350.730	15.901	0.030000
1355.078	15.897	0.030000
1359.678	15.917	0.030000
1364.278	15.917	0.030000
1368.878	16.290	0.030000
1373.478	16.440	0.030000
1378.078	16.233	0.030000
1382.678	15.836	0.030000
1387.277	15.647	0.030000
1391.176	15.565	0.030000
1395.075	15.325	0.030000
1398.974	15.353	0.030000
1403.943	15.207	0.030000
1408.912	15.148	0.030000
1413.881	15.294	0.030000
1417.711	15.303	0.030000
1421.541	15.080	0.030000
1425.371	15.039	0.030000
1429.202	15.149	0.030000
1433.358	15.185	0.030000
1437.514	15.120	0.030000
1441.669	15.110	0.030000
1445.825	15.189	0.030000

Name: XK0110C                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.971	0.030000
4.999	16.029	0.030000
9.999	15.973	0.030000
14.998	15.908	0.030000
19.998	15.903	0.030000
24.997	15.773	0.030000
29.997	15.599	0.030000
34.996	15.754	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

39.996	15.805	0.030000
44.995	15.844	0.030000
49.994	15.899	0.030000
54.994	15.811	0.030000
59.993	15.617	0.030000
64.993	15.618	0.030000
69.992	15.563	0.030000
74.992	15.486	0.030000
79.991	15.507	0.030000
84.990	15.615	0.030000
89.990	15.903	0.030000
94.989	16.050	0.030000
99.989	16.230	0.030000
104.988	16.150	0.030000
109.988	16.010	0.030000
114.987	16.011	0.030000
119.987	15.964	0.030000
124.986	15.904	0.030000
129.985	15.888	0.030000
134.985	16.049	0.030000
139.984	16.102	0.030000
144.984	16.165	0.030000
149.983	16.113	0.030000
154.983	16.110	0.030000
159.982	16.126	0.030000
164.982	16.118	0.030000
169.981	16.116	0.030000
174.980	16.072	0.030000
179.980	16.103	0.030000
184.979	16.125	0.030000
189.979	16.104	0.030000
194.978	16.151	0.030000
199.978	16.166	0.030000
204.977	16.163	0.030000
209.976	16.193	0.030000
214.976	16.153	0.030000
219.975	16.160	0.030000
224.975	16.214	0.030000
229.974	16.201	0.030000
234.974	16.101	0.030000
239.973	16.186	0.030000
244.973	16.256	0.030000
249.972	16.270	0.030000
254.971	16.285	0.030000
259.971	16.409	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

264.970	16.597	0.030000
269.970	16.395	0.030000
274.969	16.223	0.030000
279.969	16.271	0.030000
284.968	16.346	0.030000
289.967	16.416	0.030000
294.519	16.438	0.030000
299.070	16.442	0.030000
303.621	16.386	0.030000
308.172	16.343	0.030000
312.723	16.394	0.030000
317.274	16.349	0.030000
321.825	16.306	0.030000
326.377	16.308	0.030000
330.928	16.303	0.030000
335.479	16.331	0.030000
340.030	16.354	0.030000
344.279	16.340	0.030000
348.528	16.327	0.030000
352.777	16.326	0.030000
357.027	16.337	0.030000
361.276	16.321	0.030000
365.525	16.308	0.030000
370.093	16.255	0.030000
374.661	16.231	0.030000
379.229	16.293	0.030000
383.798	16.237	0.030000
388.366	16.258	0.030000
392.934	16.256	0.030000
397.502	16.275	0.030000
402.070	16.230	0.030000
406.638	16.246	0.030000
411.206	16.250	0.030000
415.774	16.247	0.030000
419.897	16.264	0.030000
424.021	16.243	0.030000
428.144	16.218	0.030000
432.267	16.320	0.030000
436.390	16.383	0.030000
440.639	16.294	0.030000
444.888	16.197	0.030000
449.137	16.245	0.030000
453.387	16.144	0.030000
457.636	16.179	0.030000
461.885	16.190	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

466.636	16.088	0.030000
471.387	16.035	0.030000
476.137	16.001	0.030000
480.888	16.001	0.030000
485.639	16.164	0.030000
490.389	16.071	0.030000
494.907	16.069	0.030000
499.425	15.985	0.030000
503.942	15.934	0.030000
508.460	15.891	0.030000
512.977	15.930	0.030000
517.495	15.947	0.030000
522.012	16.060	0.030000
526.994	15.979	0.030000
531.977	16.067	0.030000
536.959	15.861	0.030000
541.941	15.907	0.030000
546.923	15.922	0.030000
551.905	15.897	0.030000
556.887	15.814	0.030000
561.870	15.807	0.030000
566.852	15.814	0.030000
571.834	15.688	0.030000
576.816	15.824	0.030000
580.916	15.745	0.030000
585.015	15.711	0.030000
589.115	15.757	0.030000
593.214	15.724	0.030000
597.313	15.702	0.030000
601.040	15.772	0.030000
604.767	15.811	0.030000
608.494	15.875	0.030000
612.221	15.982	0.030000
615.947	16.116	0.030000
619.674	16.120	0.030000
623.401	15.864	0.030000
627.128	16.011	0.030000
630.855	16.309	0.030000
634.807	16.337	0.030000
638.760	16.289	0.030000
642.713	16.354	0.030000
646.666	16.500	0.030000
650.619	16.374	0.030000
654.572	16.181	0.030000
658.524	16.252	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

662.477	16.288	0.030000
666.430	16.130	0.030000
670.383	15.989	0.030000
674.336	15.967	0.030000
678.289	15.977	0.030000
682.412	15.919	0.030000
686.535	15.913	0.030000
690.658	15.879	0.030000
694.781	16.060	0.030000
698.904	16.129	0.030000
702.857	16.112	0.030000
706.810	16.063	0.030000
710.763	16.057	0.030000
714.716	16.101	0.030000
719.063	16.034	0.030000
723.411	15.993	0.030000
727.759	16.035	0.030000
731.889	16.008	0.030000
736.018	16.052	0.030000
740.148	16.106	0.030000
743.874	16.111	0.030000
747.601	16.239	0.030000
751.328	16.613	0.030000
755.793	16.758	0.030000
760.257	16.443	0.030000
764.721	16.171	0.030000
769.186	16.294	0.030000

Name: XK0130B                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.476	0.030000
4.971	15.524	0.030000
9.942	15.621	0.030000
14.913	15.748	0.030000
19.884	15.861	0.030000
24.855	15.924	0.030000
29.826	15.877	0.030000
34.797	15.758	0.030000
39.768	15.638	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

44.739	15.518	0.030000
49.710	15.299	0.030000
54.681	15.060	0.030000
59.652	14.957	0.030000
64.623	14.946	0.030000
69.594	15.092	0.030000
74.565	15.265	0.030000
79.536	15.390	0.030000
84.507	15.602	0.030000
89.478	15.741	0.030000
94.449	15.648	0.030000
99.420	15.625	0.030000
104.391	15.541	0.030000
109.362	15.427	0.030000
114.333	15.315	0.030000
119.304	15.204	0.030000
124.275	15.132	0.030000
129.246	15.296	0.030000
134.217	15.384	0.030000
139.188	15.234	0.030000
144.159	15.536	0.030000
149.130	15.346	0.030000
154.101	15.282	0.030000
159.071	15.272	0.030000
164.042	15.261	0.030000
169.013	15.257	0.030000
173.985	15.220	0.030000
178.955	15.152	0.030000
183.926	15.117	0.030000
188.897	15.062	0.030000
193.868	15.019	0.030000
198.839	15.093	0.030000
203.810	15.083	0.030000
208.781	15.175	0.030000
213.752	15.313	0.030000
218.723	15.356	0.030000
223.694	15.401	0.030000
228.665	15.432	0.030000
233.636	15.518	0.030000
238.607	15.428	0.030000
243.578	15.316	0.030000
248.549	15.215	0.030000
253.520	15.161	0.030000
258.491	15.116	0.030000
263.462	15.093	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

268.433	15.042	0.030000
273.404	14.932	0.030000
278.375	14.902	0.030000
283.346	15.270	0.030000
288.317	15.438	0.030000
293.288	15.443	0.030000
298.259	15.397	0.030000
303.230	15.391	0.030000
308.201	15.376	0.030000
313.172	15.337	0.030000
318.143	15.253	0.030000
323.114	15.155	0.030000
328.085	15.053	0.030000
333.056	14.840	0.030000
338.027	14.912	0.030000
342.998	15.016	0.030000
347.969	14.944	0.030000
352.940	15.158	0.030000
357.911	15.240	0.030000
362.882	15.196	0.030000
367.853	15.306	0.030000
372.824	15.321	0.030000
377.795	15.391	0.030000
382.766	15.416	0.030000
387.737	15.188	0.030000
392.708	15.161	0.030000
397.679	14.879	0.030000
402.650	14.655	0.030000
407.621	14.392	0.030000
412.592	14.722	0.030000
417.563	14.775	0.030000
422.534	14.545	0.030000
427.505	14.330	0.030000
432.476	14.305	0.030000
437.447	14.387	0.030000
442.418	14.488	0.030000
447.389	14.595	0.030000
452.360	14.701	0.030000
457.331	14.795	0.030000
462.301	14.728	0.030000
467.272	14.366	0.030000
472.243	14.180	0.030000
477.214	14.148	0.030000
482.185	14.165	0.030000
487.156	14.169	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

492.128	14.509	0.030000
497.098	14.694	0.030000
502.069	14.853	0.030000
507.040	15.013	0.030000
512.011	15.122	0.030000
516.982	15.135	0.030000
521.953	15.124	0.030000
526.924	15.027	0.030000
531.895	14.915	0.030000
536.866	14.701	0.030000
541.837	14.547	0.030000
546.808	14.061	0.030000
551.779	14.040	0.030000
556.750	14.198	0.030000
561.721	14.356	0.030000
566.692	14.501	0.030000
571.663	14.659	0.030000
576.634	14.751	0.030000
581.605	14.926	0.030000
586.576	14.940	0.030000
591.547	14.847	0.030000
596.518	14.744	0.030000
601.489	14.623	0.030000
606.460	14.475	0.030000
611.431	14.277	0.030000
616.402	14.271	0.030000
621.373	14.452	0.030000
626.344	14.440	0.030000
631.315	14.425	0.030000
636.286	14.523	0.030000
641.257	14.541	0.030000
646.228	14.530	0.030000
651.199	14.465	0.030000
656.170	14.445	0.030000
661.141	14.469	0.030000
666.112	14.492	0.030000
671.083	14.501	0.030000
676.054	14.503	0.030000
681.025	14.515	0.030000
685.996	14.288	0.030000
690.967	14.323	0.030000
695.938	14.641	0.030000
700.909	14.744	0.030000
705.880	14.727	0.030000
710.851	14.644	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

715.822	14.536	0.030000
720.793	14.433	0.030000
725.764	14.312	0.030000
730.735	14.286	0.030000
735.706	14.284	0.030000
740.677	14.234	0.030000
745.648	14.071	0.030000
750.619	13.921	0.030000
755.590	13.911	0.030000
760.561	13.948	0.030000
765.532	13.930	0.030000
770.503	14.120	0.030000
775.474	14.417	0.030000
780.444	14.608	0.030000
785.415	14.867	0.030000
790.386	15.152	0.030000
795.357	15.369	0.030000
800.328	15.560	0.030000
805.299	15.795	0.030000
810.270	15.945	0.030000
815.241	15.917	0.030000

Name: XK0130C                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.251	0.030000
0.000	15.251	0.030000
4.080	15.209	0.030000
8.160	15.254	0.030000
13.105	14.571	0.030000
18.051	14.543	0.030000
22.996	14.530	0.030000
27.942	14.564	0.030000
32.887	14.593	0.030000
37.833	14.636	0.030000
42.778	14.717	0.030000
47.723	14.711	0.030000
52.669	14.688	0.030000
57.614	14.719	0.030000
62.560	14.725	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

67.505	14.732	0.030000
72.451	14.761	0.030000
77.396	14.764	0.030000
82.341	14.790	0.030000
87.287	14.791	0.030000
92.232	14.857	0.030000
97.178	14.871	0.030000
102.123	14.886	0.030000
107.069	14.864	0.030000
112.014	14.866	0.030000
116.959	14.907	0.030000
121.905	14.911	0.030000
126.850	14.926	0.030000
131.796	15.078	0.030000
136.741	15.005	0.030000
141.687	15.038	0.030000
146.632	15.093	0.030000
151.577	15.246	0.030000
156.523	15.209	0.030000
161.468	15.120	0.030000
166.414	15.262	0.030000
171.359	15.730	0.030000
176.259	15.666	0.030000
181.159	15.510	0.030000
186.059	15.392	0.030000
190.959	15.297	0.030000
195.859	15.087	0.030000
200.759	14.810	0.030000
205.659	14.712	0.030000
210.559	14.676	0.030000
215.459	14.611	0.030000
220.359	14.675	0.030000
225.259	14.698	0.030000
230.159	14.585	0.030000
235.059	14.565	0.030000
239.959	14.626	0.030000
244.859	14.660	0.030000
249.759	14.665	0.030000
254.659	14.690	0.030000
259.559	14.692	0.030000
264.459	14.636	0.030000
269.359	14.574	0.030000
274.259	14.564	0.030000
279.159	14.586	0.030000
284.059	14.562	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

288.959	14.557	0.030000
293.859	14.583	0.030000
298.759	14.592	0.030000
303.659	14.607	0.030000
308.559	14.589	0.030000
313.459	14.499	0.030000
318.359	14.509	0.030000
323.259	14.495	0.030000
328.159	14.484	0.030000
333.059	14.474	0.030000
337.959	14.440	0.030000
342.859	14.455	0.030000
347.759	14.450	0.030000
352.659	14.380	0.030000
357.559	14.459	0.030000
362.459	14.385	0.030000
367.359	14.344	0.030000
372.259	14.345	0.030000
377.159	14.349	0.030000
382.059	14.342	0.030000
386.959	14.297	0.030000
391.859	14.351	0.030000
396.759	14.317	0.030000
401.659	14.361	0.030000
406.559	14.269	0.030000
411.459	14.303	0.030000
416.359	14.272	0.030000
421.335	14.209	0.030000
426.312	14.264	0.030000
431.288	14.213	0.030000
436.264	14.223	0.030000
441.240	14.182	0.030000
446.216	14.098	0.030000
451.193	14.092	0.030000
456.169	14.095	0.030000
461.145	14.061	0.030000
466.121	14.133	0.030000
471.097	14.064	0.030000
476.074	14.071	0.030000
481.050	14.089	0.030000
486.026	14.116	0.030000
491.002	14.171	0.030000
495.978	14.277	0.030000
500.954	14.324	0.030000
505.931	14.322	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

510.907	14.343	0.030000
515.883	14.350	0.030000
520.859	14.355	0.030000
525.835	14.372	0.030000
530.812	14.436	0.030000
535.788	14.438	0.030000
540.764	14.435	0.030000
545.740	14.452	0.030000
550.716	14.435	0.030000
555.693	14.430	0.030000
560.669	14.454	0.030000
565.645	14.496	0.030000
570.621	14.500	0.030000
575.597	14.471	0.030000
580.573	14.451	0.030000
585.550	14.468	0.030000
590.526	14.502	0.030000
595.502	14.531	0.030000
600.478	14.560	0.030000
605.455	14.530	0.030000
610.431	14.560	0.030000
615.407	14.637	0.030000
620.383	14.704	0.030000
625.359	14.741	0.030000
630.336	14.757	0.030000
635.312	14.686	0.030000
640.288	14.733	0.030000
645.264	14.827	0.030000
650.240	14.822	0.030000
655.216	14.828	0.030000
660.193	14.843	0.030000
665.169	14.919	0.030000
670.145	14.939	0.030000
675.121	14.946	0.030000
680.097	14.980	0.030000
685.074	15.039	0.030000
690.050	15.075	0.030000
695.026	15.075	0.030000
700.002	15.023	0.030000
704.978	15.063	0.030000
709.955	15.115	0.030000
714.931	15.133	0.030000
719.907	15.167	0.030000
724.883	15.196	0.030000
729.859	15.139	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

734.836	15.150	0.030000
739.812	15.199	0.030000
744.788	15.179	0.030000
749.764	15.180	0.030000
754.740	15.171	0.030000
759.717	15.142	0.030000
764.693	15.144	0.030000
769.669	15.188	0.030000
774.645	15.194	0.030000
779.621	15.163	0.030000
784.597	15.181	0.030000
789.574	15.170	0.030000
794.550	15.152	0.030000
799.526	15.153	0.030000
804.502	15.115	0.030000
809.478	15.122	0.030000
814.455	15.131	0.030000
819.431	15.102	0.030000
824.407	15.078	0.030000
829.383	15.063	0.030000
834.359	15.083	0.030000
839.336	15.042	0.030000
844.312	14.880	0.030000
849.247	14.696	0.030000
854.182	14.660	0.030000
859.118	14.826	0.030000
864.053	15.015	0.030000
868.988	14.983	0.030000
873.924	14.858	0.030000
878.859	14.870	0.030000
883.794	14.849	0.030000
888.730	14.771	0.030000
893.665	14.756	0.030000
898.600	14.774	0.030000
903.536	14.742	0.030000
908.471	14.701	0.030000
913.406	14.737	0.030000
918.342	14.720	0.030000
923.277	14.690	0.030000
928.212	14.657	0.030000
933.148	14.621	0.030000
938.083	14.605	0.030000
943.018	14.506	0.030000
947.953	14.597	0.030000
952.889	14.551	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

957.824	14.557	0.030000
962.760	14.591	0.030000
967.695	14.514	0.030000
972.630	14.478	0.030000
977.566	14.517	0.030000
982.501	14.448	0.030000
987.436	14.469	0.030000
992.371	14.421	0.030000
997.307	14.394	0.030000
1002.242	14.347	0.030000
1007.177	14.367	0.030000
1012.113	14.299	0.030000
1017.048	14.291	0.030000
1021.983	14.310	0.030000
1026.919	14.235	0.030000
1031.854	14.267	0.030000
1036.789	14.223	0.030000
1041.725	14.225	0.030000
1046.660	14.209	0.030000
1051.595	14.186	0.030000
1056.531	14.198	0.030000
1061.466	14.294	0.030000
1066.401	14.198	0.030000
1071.337	14.186	0.030000
1076.272	14.195	0.030000
1081.207	14.224	0.030000
1086.143	14.210	0.030000
1091.078	14.215	0.030000
1096.013	14.198	0.030000
1100.949	14.244	0.030000
1105.884	14.272	0.030000
1110.819	14.254	0.030000
1115.755	14.295	0.030000
1120.567	14.279	0.030000
1125.379	14.313	0.030000
1130.191	14.266	0.030000
1135.003	14.297	0.030000
1139.815	14.287	0.030000
1144.628	14.295	0.030000
1149.440	14.287	0.030000
1154.252	14.347	0.030000
1159.064	14.360	0.030000
1163.876	14.351	0.030000
1168.689	14.357	0.030000
1173.501	14.334	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

1178.313	14.468	0.030000
1183.125	14.496	0.030000
1187.205	14.488	0.030000
1191.285	14.522	0.030000
1191.285	14.522	0.030000

---

Name: XK0130D	Group: K
Encroachment: No	

Station(ft)	Elevation(ft)	Manning's N
-------------	---------------	-------------

---

0.000	15.917	0.030000
4.835	15.796	0.030000
9.671	15.693	0.030000
14.507	15.669	0.030000
19.342	15.667	0.030000
24.178	15.664	0.030000
28.974	15.649	0.030000
33.770	15.639	0.030000
38.566	15.669	0.030000
43.362	15.665	0.030000
47.394	15.672	0.030000
51.425	15.638	0.030000
55.456	15.589	0.030000
59.487	15.541	0.030000
63.518	15.492	0.030000
68.216	15.434	0.030000
72.913	15.334	0.030000
77.610	15.297	0.030000
82.308	15.020	0.030000
87.005	15.231	0.030000
91.703	15.525	0.030000
96.400	15.540	0.030000
101.176	15.602	0.030000
105.952	15.672	0.030000
110.727	15.730	0.030000

---

Name: XK0130E	Group: K
Encroachment: No	

Long Branch BMP Model Results  
Input Data Report Summary

Station(ft) Elevation(ft) Manning's N

0.000	15.254	0.030000
4.395	15.139	0.030000
8.790	15.048	0.030000
13.185	15.026	0.030000
17.580	15.080	0.030000
21.410	15.087	0.030000
25.241	15.119	0.030000
29.071	15.220	0.030000
32.901	15.319	0.030000
36.628	15.245	0.030000
40.354	15.173	0.030000
44.081	14.997	0.030000
48.248	14.985	0.030000
52.414	14.950	0.030000
56.581	15.011	0.030000
61.325	14.938	0.030000
66.068	15.381	0.030000
70.811	15.574	0.030000
75.555	15.589	0.030000
80.298	15.633	0.030000
83.734	15.694	0.030000
87.170	15.842	0.030000
90.606	15.905	0.030000
94.855	16.242	0.030000
99.104	16.298	0.030000
103.354	16.469	0.030000
107.603	16.670	0.030000
111.951	16.802	0.030000
116.299	16.885	0.030000
120.647	16.862	0.030000
124.599	16.816	0.030000
128.552	16.783	0.030000
132.505	16.732	0.030000
136.458	16.717	0.030000
140.260	16.787	0.030000
144.061	16.931	0.030000
147.863	17.073	0.030000
151.665	17.112	0.030000
155.101	17.111	0.030000
158.537	17.102	0.030000
161.973	17.087	0.030000
165.409	17.064	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

168.844	17.047	0.030000
172.280	17.034	0.030000
176.665	17.008	0.030000
181.049	16.989	0.030000
185.433	17.065	0.030000
189.818	17.175	0.030000
194.202	17.200	0.030000
198.306	17.180	0.030000
202.409	17.180	0.030000
206.513	17.208	0.030000
210.617	17.225	0.030000
215.372	17.140	0.030000
220.126	17.065	0.030000
224.881	17.147	0.030000
229.646	17.075	0.030000
234.411	17.003	0.030000
239.176	16.842	0.030000
243.941	16.753	0.030000
248.706	16.761	0.030000
253.470	16.827	0.030000
258.235	16.933	0.030000
261.985	17.033	0.030000
265.735	17.134	0.030000
269.485	17.235	0.030000
273.235	17.296	0.030000
277.664	17.359	0.030000
282.094	17.417	0.030000
286.442	17.477	0.030000
290.789	17.392	0.030000
295.137	17.140	0.030000
298.864	16.899	0.030000
302.591	16.803	0.030000
306.318	16.709	0.030000
308.818	16.646	0.030000
311.318	16.385	0.030000
316.318	16.006	0.030000
319.651	15.836	0.030000
322.984	15.632	0.030000
326.318	15.474	0.030000
330.045	15.333	0.030000
333.771	15.240	0.030000
337.498	15.197	0.030000
341.225	15.223	0.030000
344.952	15.623	0.030000
348.678	15.878	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

353.166	15.772	0.030000
357.654	15.585	0.030000
362.141	15.357	0.030000
366.629	15.262	0.030000
371.117	15.270	0.030000
375.666	15.234	0.030000
380.216	15.187	0.030000
384.765	15.153	0.030000
389.315	15.133	0.030000
393.864	15.113	0.030000
398.414	15.092	0.030000
402.789	15.063	0.030000
407.164	15.059	0.030000
411.539	15.117	0.030000
415.914	15.179	0.030000
420.846	15.245	0.030000
425.779	15.310	0.030000
430.711	15.376	0.030000
435.644	15.442	0.030000
440.576	15.508	0.030000
445.508	15.609	0.030000

Name: XK0130F      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.476	0.030000
4.989	15.397	0.030000
9.978	15.322	0.030000
14.968	15.185	0.030000
19.957	15.150	0.030000
24.946	15.327	0.030000
29.935	15.480	0.030000
34.925	15.639	0.030000
39.914	15.794	0.030000
44.903	15.904	0.030000
49.892	15.938	0.030000
54.882	15.929	0.030000
59.871	15.912	0.030000
64.860	15.787	0.030000
69.849	15.648	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

74.838	15.651	0.030000
79.828	15.386	0.030000
84.817	15.029	0.030000
89.806	15.028	0.030000
94.795	15.104	0.030000
99.784	15.286	0.030000
104.774	15.460	0.030000
109.763	15.585	0.030000
114.752	15.621	0.030000
119.741	15.609	0.030000

Name: XK0140B                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	16.796	0.030000
3.676	16.711	0.030000
7.351	16.515	0.030000
11.027	16.346	0.030000
15.474	16.225	0.030000
19.920	16.138	0.030000
24.367	16.029	0.030000
28.814	15.972	0.030000
33.260	16.097	0.030000
37.707	16.249	0.030000
41.830	16.328	0.030000
45.953	16.410	0.030000
50.076	16.513	0.030000
54.199	16.627	0.030000
58.322	16.741	0.030000
63.322	16.819	0.030000
68.322	16.886	0.030000
71.656	16.899	0.030000
74.989	16.819	0.030000
78.322	16.785	0.030000
83.082	16.556	0.030000
87.842	16.508	0.030000
92.602	16.596	0.030000
97.362	16.570	0.030000
102.122	16.401	0.030000
106.882	15.960	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

111.641	15.695	0.030000
116.401	15.545	0.030000
120.151	15.438	0.030000
123.901	15.287	0.030000
127.651	15.128	0.030000
131.401	15.107	0.030000
135.830	15.102	0.030000
140.260	15.079	0.030000
144.158	15.078	0.030000
148.057	15.075	0.030000
151.956	15.053	0.030000
155.758	14.982	0.030000
159.560	14.935	0.030000
163.361	14.945	0.030000
167.163	14.935	0.030000
170.919	15.016	0.030000
174.674	14.918	0.030000
178.430	14.869	0.030000
182.186	14.883	0.030000
186.646	14.933	0.030000
191.106	14.977	0.030000
195.566	15.045	0.030000
200.025	15.123	0.030000
204.485	15.298	0.030000
208.945	15.361	0.030000
213.405	15.462	0.030000
217.865	15.598	0.030000
222.325	15.669	0.030000
225.761	15.713	0.030000
229.197	15.837	0.030000
232.632	15.917	0.030000
236.068	15.986	0.030000
239.504	16.096	0.030000
242.940	16.131	0.030000
246.667	16.115	0.030000
250.394	16.100	0.030000
254.121	16.096	0.030000
257.557	16.118	0.030000
260.992	16.188	0.030000
264.428	16.193	0.030000
268.989	16.217	0.030000
273.550	16.246	0.030000
278.111	16.254	0.030000
282.671	16.267	0.030000
287.232	16.289	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

291.732	16.260	0.030000
296.233	16.238	0.030000
300.734	16.203	0.030000
305.234	16.130	0.030000
309.735	16.035	0.030000
314.235	15.970	0.030000
318.736	15.918	0.030000
322.566	15.803	0.030000
326.396	15.763	0.030000
330.226	15.765	0.030000
334.057	15.803	0.030000
338.101	15.898	0.030000
342.146	15.889	0.030000
346.190	15.863	0.030000
349.626	15.882	0.030000
353.062	15.842	0.030000
356.498	15.885	0.030000
360.224	15.973	0.030000
363.951	16.215	0.030000
367.678	16.313	0.030000
371.114	16.340	0.030000
374.550	16.380	0.030000
377.986	16.419	0.030000
382.286	16.435	0.030000
386.587	16.451	0.030000
390.888	16.468	0.030000
395.188	16.485	0.030000
399.489	16.500	0.030000
403.789	16.516	0.030000
408.090	16.518	0.030000
412.438	16.419	0.030000
416.786	16.365	0.030000
421.134	16.213	0.030000
425.470	16.095	0.030000
429.807	16.006	0.030000
434.143	16.113	0.030000
438.480	16.048	0.030000
442.816	15.979	0.030000
446.939	15.943	0.030000
451.063	15.890	0.030000
455.186	15.880	0.030000
459.309	15.827	0.030000
463.432	15.842	0.030000
467.159	15.846	0.030000
470.885	15.853	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

474.612	15.894	0.030000
478.048	15.902	0.030000
481.484	15.896	0.030000
484.920	15.907	0.030000
489.304	15.912	0.030000
493.688	15.949	0.030000
498.073	16.036	0.030000
502.457	16.157	0.030000
506.842	16.024	0.030000
510.886	15.940	0.030000
514.931	15.846	0.030000
518.975	15.788	0.030000
523.428	15.771	0.030000
527.881	15.768	0.030000
532.334	15.674	0.030000
536.788	15.569	0.030000
541.241	15.599	0.030000
545.694	15.813	0.030000
550.147	15.932	0.030000
554.600	15.988	0.030000
559.053	15.981	0.030000
562.780	15.894	0.030000
566.507	15.865	0.030000
570.233	15.904	0.030000
574.663	16.182	0.030000
579.092	16.314	0.030000
583.521	16.443	0.030000
587.950	16.513	0.030000
591.752	16.284	0.030000
595.554	16.084	0.030000
599.356	16.118	0.030000
603.157	16.124	0.030000
607.645	16.146	0.030000
612.133	16.163	0.030000
616.620	16.197	0.030000
621.142	16.238	0.030000
625.664	16.197	0.030000
630.187	16.172	0.030000
634.709	16.150	0.030000
639.231	16.189	0.030000
643.841	16.142	0.030000
648.451	16.023	0.030000
653.060	15.856	0.030000
657.670	15.582	0.030000
662.145	15.586	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

666.619	15.631	0.030000
671.094	15.655	0.030000
675.568	15.668	0.030000
680.043	15.675	0.030000
684.458	15.645	0.030000
688.872	15.622	0.030000
693.287	15.621	0.030000
697.701	15.616	0.030000
702.560	15.594	0.030000
707.419	15.624	0.030000
712.279	15.829	0.030000
716.766	15.655	0.030000
721.254	15.544	0.030000
725.741	15.534	0.030000
729.177	15.563	0.030000
732.613	15.607	0.030000
736.049	15.646	0.030000
739.776	15.626	0.030000
743.503	15.669	0.030000
747.230	15.700	0.030000
751.401	15.742	0.030000
755.573	15.755	0.030000
759.745	15.893	0.030000
763.917	16.107	0.030000
768.405	16.172	0.030000
772.892	15.972	0.030000
777.380	15.849	0.030000
781.868	15.802	0.030000
786.355	15.828	0.030000
790.478	15.866	0.030000
794.601	15.998	0.030000
798.725	16.087	0.030000
802.848	16.086	0.030000
806.971	16.053	0.030000
811.400	16.019	0.030000
815.829	15.999	0.030000
820.317	15.978	0.030000
824.804	15.980	0.030000
829.292	15.989	0.030000
833.780	16.047	0.030000
838.267	16.150	0.030000
843.027	16.311	0.030000
847.787	16.336	0.030000
852.547	16.487	0.030000
857.307	16.511	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

861.416	16.360	0.030000
865.525	16.108	0.030000
869.634	15.806	0.030000
873.743	15.621	0.030000
878.091	15.480	0.030000
882.438	15.346	0.030000
886.786	15.270	0.030000
891.551	15.119	0.030000
896.316	15.027	0.030000
901.081	14.976	0.030000
905.846	14.787	0.030000
910.611	14.559	0.030000
915.376	14.915	0.030000
920.141	14.953	0.030000
924.628	14.724	0.030000
929.116	14.630	0.030000
933.604	14.737	0.030000
938.091	14.884	0.030000
942.579	15.049	0.030000
947.066	15.182	0.030000
951.616	15.267	0.030000
956.167	15.330	0.030000
960.717	15.393	0.030000
965.267	15.451	0.030000
969.754	15.457	0.030000
974.242	15.300	0.030000
978.730	15.292	0.030000
983.217	15.458	0.030000
987.705	15.489	0.030000
992.193	15.481	0.030000
996.021	15.497	0.030000
999.849	15.536	0.030000
1003.677	15.476	0.030000

-----

Name: XK0150C	Group: K
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	15.512	0.030000
4.196	15.506	0.030000
8.391	15.493	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

12.586	15.508	0.030000
16.782	15.502	0.030000
21.282	15.474	0.030000
25.782	15.549	0.030000
30.282	15.535	0.030000
34.782	15.597	0.030000
39.282	15.634	0.030000
42.615	15.597	0.030000
45.949	15.504	0.030000
49.282	15.454	0.030000
53.892	15.458	0.030000
58.502	15.465	0.030000
63.111	15.471	0.030000
67.721	15.503	0.030000
72.331	15.530	0.030000
77.331	15.410	0.030000
82.331	15.449	0.030000
87.331	15.486	0.030000
92.081	15.416	0.030000
96.831	15.515	0.030000
101.581	15.408	0.030000
106.331	15.502	0.030000
111.081	15.552	0.030000
115.831	15.473	0.030000
120.581	15.532	0.030000
125.331	15.558	0.030000
130.081	15.577	0.030000
134.831	15.526	0.030000
139.537	15.496	0.030000
144.243	15.565	0.030000
148.949	15.574	0.030000
153.654	15.601	0.030000
158.360	15.665	0.030000
163.066	15.617	0.030000
167.772	15.669	0.030000
172.478	15.632	0.030000
177.184	15.630	0.030000
181.890	15.629	0.030000
186.596	15.624	0.030000
191.302	15.596	0.030000
196.007	15.621	0.030000
200.713	15.692	0.030000
205.419	15.656	0.030000
210.125	15.707	0.030000
214.831	15.728	0.030000



Long Branch BMP Model Results  
Input Data Report Summary

219.414	15.694	0.030000
223.998	15.749	0.030000
228.581	15.748	0.030000
233.164	15.592	0.030000
237.748	15.729	0.030000
242.331	15.743	0.030000
246.914	15.705	0.030000
251.498	15.698	0.030000
256.081	15.714	0.030000
260.664	15.760	0.030000
265.248	15.769	0.030000
269.831	15.742	0.030000
274.831	15.737	0.030000
279.831	15.700	0.030000
284.831	15.706	0.030000
289.831	15.707	0.030000
294.831	15.689	0.030000
299.623	15.725	0.030000
304.414	15.728	0.030000
309.206	15.721	0.030000
313.998	15.691	0.030000
318.789	15.702	0.030000
323.581	15.750	0.030000
328.373	15.741	0.030000
333.164	15.718	0.030000
337.956	15.773	0.030000
342.748	15.699	0.030000
347.539	15.797	0.030000
352.331	15.723	0.030000
357.081	15.731	0.030000
361.831	15.636	0.030000
366.582	15.657	0.030000
371.332	15.759	0.030000
376.082	15.754	0.030000

Name: XK0160B                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.727	0.030000
3.436	15.640	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

6.872	15.606	0.030000
10.308	15.583	0.030000
13.641	15.565	0.030000
16.974	15.580	0.030000
20.308	15.548	0.030000
24.795	15.462	0.030000
29.283	15.429	0.030000
33.771	15.368	0.030000
37.601	15.284	0.030000
41.431	15.290	0.030000
45.261	15.299	0.030000
49.091	15.287	0.030000
52.482	15.293	0.030000
55.873	15.298	0.030000
59.264	15.292	0.030000
63.770	15.244	0.030000
68.277	15.351	0.030000
72.079	15.322	0.030000
75.881	15.140	0.030000
79.683	15.114	0.030000
83.484	15.096	0.030000
88.237	15.064	0.030000
92.990	15.227	0.030000
97.742	15.513	0.030000
102.495	15.519	0.030000

-----

Name: XK0160C	Group: K
Encroachment: No	

Station(ft)   Elevation(ft)   Manning's N

-----

0.000	15.727	0.030000
3.436	15.690	0.030000
6.872	15.715	0.030000
10.308	15.770	0.030000
14.058	15.834	0.030000
17.808	15.920	0.030000
21.558	15.863	0.030000
25.308	15.610	0.030000
29.923	15.374	0.030000
34.538	15.398	0.030000
39.154	15.459	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

43.769	15.483	0.030000
48.385	15.478	0.030000
53.000	15.480	0.030000
57.615	15.533	0.030000
62.231	15.574	0.030000
66.846	15.528	0.030000
71.462	15.513	0.030000
76.077	15.519	0.030000
80.692	15.610	0.030000
85.308	15.631	0.030000
90.141	15.534	0.030000
94.974	15.412	0.030000
99.808	15.404	0.030000
104.641	15.515	0.030000
109.474	15.418	0.030000
114.308	15.270	0.030000
119.141	15.455	0.030000
123.974	15.534	0.030000
128.808	15.419	0.030000
133.641	15.294	0.030000
138.474	15.347	0.030000
143.308	15.255	0.030000
148.141	15.259	0.030000
152.974	15.297	0.030000
157.808	15.289	0.030000
162.530	15.118	0.030000
167.252	15.273	0.030000
171.974	15.382	0.030000
176.697	15.712	0.030000
181.419	15.871	0.030000
186.141	15.823	0.030000
190.863	15.681	0.030000
195.586	15.504	0.030000
200.308	15.367	0.030000
205.030	15.278	0.030000
209.752	15.192	0.030000
214.474	15.154	0.030000
219.197	15.145	0.030000
223.919	15.031	0.030000
228.641	15.046	0.030000
233.363	15.028	0.030000
238.086	14.775	0.030000
242.808	15.060	0.030000
246.558	14.966	0.030000
250.308	14.941	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

254.058	14.949	0.030000
257.808	14.956	0.030000
262.794	14.842	0.030000
267.780	14.835	0.030000
272.765	14.866	0.030000
277.751	14.913	0.030000
282.737	14.821	0.030000
287.723	14.716	0.030000
292.709	14.712	0.030000
297.695	14.656	0.030000
302.681	14.571	0.030000
307.667	14.510	0.030000
312.653	14.435	0.030000
317.639	14.338	0.030000
322.624	14.341	0.030000
327.610	14.414	0.030000
332.596	14.286	0.030000
337.582	14.336	0.030000
342.568	14.367	0.030000
347.554	14.319	0.030000
352.540	14.283	0.030000
357.526	14.274	0.030000
362.512	14.370	0.030000
367.498	14.224	0.030000
372.483	14.203	0.030000
377.469	14.308	0.030000
382.455	14.443	0.030000

Name: XK0160D                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	15.152	0.030000
4.686	15.519	0.030000
9.372	15.525	0.030000
14.058	15.258	0.030000
18.744	15.049	0.030000
23.430	15.217	0.030000
28.116	15.350	0.030000
32.801	15.574	0.030000
37.487	15.651	0.030000

Long Branch BMP Model Results  
Input Data Report Summary

42.173	15.653	0.030000
46.859	15.935	0.030000
51.545	15.837	0.030000
56.482	15.805	0.030000
61.418	15.802	0.030000
66.355	15.786	0.030000
71.291	15.764	0.030000
76.228	15.749	0.030000
81.165	15.743	0.030000
86.101	15.769	0.030000
91.038	15.835	0.030000
95.974	15.729	0.030000
100.911	15.719	0.030000
105.848	15.808	0.030000
110.784	15.799	0.030000
115.628	15.926	0.030000
120.472	16.255	0.030000
125.317	16.460	0.030000
130.161	16.603	0.030000
135.005	16.745	0.030000
139.849	16.846	0.030000
144.693	16.901	0.030000
149.537	17.039	0.030000
154.382	17.078	0.030000
159.226	17.259	0.030000
164.070	17.364	0.030000
168.914	17.464	0.030000
173.758	17.547	0.030000
178.602	17.558	0.030000
183.447	17.598	0.030000
188.291	17.664	0.030000

-----  
Name: XK0161A\_1                      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

-----  
0.000        9.854        0.085000  
4.640        8.450        0.085000  
9.281        8.450        0.085000  
13.921       8.450        0.085000  
18.561       8.623        0.085000

Long Branch BMP Model Results  
Input Data Report Summary

23.201      9.845      0.085000

Name: XK0161A\_2      Group: K  
Encroachment: No

Station(ft)   Elevation(ft)   Manning's N

0.000	9.854	0.085000
4.252	8.327	0.085000
8.503	7.345	0.085000
12.755	7.270	0.085000
17.006	7.370	0.085000
21.258	8.415	0.085000
25.509	9.948	0.085000

=====  
Pipes  
=====

Name: RA0020B	From Node: NA0020	Length(ft): 550.00
Group: A	To Node: NC0070	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.00
Rise(in): 18.00	18.00	Exit Loss Coef: 1.00
Invert(ft): 11.000	10.600	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

Name: RA0030A      From Node: NA0030      Length(ft): 760.00

Group: A      To Node: NA0081      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Automatic

Geometry: Circular      Circular      Flow: Both

Span(in): 18.00      18.00      Entrance Loss Coef: 0.50

Rise(in): 18.00      18.00      Exit Loss Coef: 0.00

Invert(ft): 13.000      12.000      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

013015\_005

Name: RA0081A      From Node: NA0081      Length(ft): 471.00

Group: A      To Node: NA0082      Count: 2

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 36.00      36.00      Entrance Loss Coef: 0.50

Rise(in): 36.00      36.00      Exit Loss Coef: 0.00

Invert(ft): 12.000      11.000      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

013015\_009

Long Branch BMP Model Results  
Input Data Report Summary

Name: RB0010A      From Node: NB0010      Length(ft): 30.00

Group: B      To Node: NC0010      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Automatic

Geometry: Circular      Circular      Flow: Both

Span(in): 18.00      18.00      Entrance Loss Coef: 0.50

Rise(in): 18.00      18.00      Exit Loss Coef: 0.00

Invert(ft): 13.000      12.850      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_012

Name: RB0050A      From Node: NB0050      Length(ft): 850.00

Group: B      To Node: NB0090      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 24.00      24.00      Entrance Loss Coef: 0.50

Rise(in): 24.00      24.00      Exit Loss Coef: 0.00

Invert(ft): 14.000      11.000      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_126



Long Branch BMP Model Results  
Input Data Report Summary

-----  
Name: RB0051A      From Node: NB0051      Length(ft): 1298.00  
Group: B      To Node: NB0090      Count: 1  
Friction Equation: Automatic  
UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive  
Geometry: Circular      Circular      Flow: Both  
Span(in): 36.00      36.00      Entrance Loss Coef: 0.50  
Rise(in): 36.00      36.00      Exit Loss Coef: 0.00  
Invert(ft): 11.500      11.000      Bend Loss Coef: 0.00  
Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw  
Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

312916\_136

-----  
Name: RB0055A      From Node: NB0055      Length(ft): 47.00  
Group: B      To Node: NB0090      Count: 1  
Friction Equation: Automatic  
UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive  
Geometry: Circular      Circular      Flow: Both  
Span(in): 18.00      18.00      Entrance Loss Coef: 0.50  
Rise(in): 18.00      18.00      Exit Loss Coef: 0.00  
Invert(ft): 12.000      11.000      Bend Loss Coef: 0.00  
Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw  
Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

312916\_130

---

Name: RB0090A	From Node: NB0090	Length(ft): 280.00
Group: B	To Node: NG0130	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 72.00	72.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 11.000	6.200	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_044

---

Name: RC0010A	From Node: NC0010	Length(ft): 400.00
Group: C	To Node: NB0020	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 42.00	42.00	Entrance Loss Coef: 0.50
Rise(in): 42.00	42.00	Exit Loss Coef: 0.00
Invert(ft): 12.850	12.650	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

312916\_014

---

Name: RC0022A	From Node: NC0022	Length(ft): 68.00
Group: C	To Node: NC0090	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 36.00	36.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 11.000	10.900	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

312916\_089

---

Name: RC0031A	From Node: NC0031	Length(ft): 420.00
Group: C	To Node: NC0021	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 13.000	11.360	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Long Branch BMP Model Results  
Input Data Report Summary

Circular Concrete: Groove end w/ headwall

312916\_034

---

Name: RC0050A	From Node: NC0050	Length(ft): 671.00
Group: C	To Node: NC0051	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 11.800	11.700	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_087

---

Name: RC0051A	From Node: NC0051	Length(ft): 437.00
Group: C	To Node: NC0115	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 60.00	60.00	Entrance Loss Coef: 0.50
Rise(in): 60.00	60.00	Exit Loss Coef: 0.00
Invert(ft): 11.700	8.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_081

---

Name: RC0051B	From Node: NC0051	Length(ft): 960.00
Group: C	To Node: NC0101	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 11.700	10.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_056

---

Name: RC0070A	From Node: NC0070	Length(ft): 158.00
Group: C	To Node: NC0080	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 10.600	6.600	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_018

---

Name: RC0080A	From Node: NC0080	Length(ft): 241.00
Group: C	To Node: NC0090	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 38.04	38.04	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 11.000	10.900	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

312916\_013

---

Name: RC0101A	From Node: NC0101	Length(ft): 40.00
Group: C	To Node: NC0100	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 96.00	96.00	Entrance Loss Coef: 0.50
Rise(in): 48.00	48.00	Exit Loss Coef: 0.00
Invert(ft): 10.500	10.400	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Long Branch BMP Model Results  
Input Data Report Summary

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

312916\_046

---

Name: RC0102A	From Node: NC0103	Length(ft): 59.00
Group: C	To Node: NC0102	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 45.00	45.00	Entrance Loss Coef: 0.50
Rise(in): 29.00	29.00	Exit Loss Coef: 0.00
Invert(ft): 10.700	10.600	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

312916\_095

---

Name: RC0104A	From Node: NC0090	Length(ft): 75.00
Group: C	To Node: NC0104	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 45.00	45.00	Entrance Loss Coef: 0.50
Rise(in): 29.00	29.00	Exit Loss Coef: 0.00
Invert(ft): 10.900	10.800	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

312916\_092

---

Name: RC0105A	From Node: NC0105	Length(ft): 550.00
Group: C	To Node: NC0106	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 96.00	96.00	Entrance Loss Coef: 0.50
Rise(in): 48.00	48.00	Exit Loss Coef: 0.00
Invert(ft): 10.300	8.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

312916\_035

---

Name: RC0115A	From Node: NC0115	Length(ft): 437.00
Group: C	To Node: NC0160	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 60.00	60.00	Entrance Loss Coef: 0.50
Rise(in): 60.00	60.00	Exit Loss Coef: 0.00
Invert(ft): 8.300	8.200	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None



Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_082

---

Name: RC0120A	From Node: NC0120	Length(ft): 150.00
Group: C	To Node: NC0161	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 36.00	36.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 10.100	8.100	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_051

---

Name: RC0150A	From Node: NC0150	Length(ft): 139.00
Group: C	To Node: NC0161	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 8.200	8.100	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_048

---

Name: RC0170A	From Node: NC0170	Length(ft): 330.00
Group: C	To Node: NJ0080	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 144.00	144.00	Entrance Loss Coef: 0.50
Rise(in): 72.00	72.00	Exit Loss Coef: 0.00
Invert(ft): 8.000	7.320	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_052

---

Name: RD0010A	From Node: ND0010	Length(ft): 306.00
Group: D	To Node: ND0030	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 12.420	12.110	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

063016\_014

---

Name: RD0050A	From Node: ND0050	Length(ft): 97.00
Group: D	To Node: ND0051	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 10.800	10.900	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

063016\_013

---

Name: RD0051A	From Node: ND0051	Length(ft): 217.00
Group: D	To Node: ND0060	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 1.00
Invert(ft): 10.800	10.700	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc

Long Branch BMP Model Results  
Input Data Report Summary

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

312916\_073

---

Name: RD0070A	From Node: ND0070	Length(ft): 130.00
Group: D	To Node: ND0091	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 38.00	38.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 11.500	7.780	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

063016\_024

---

Name: RD0080A	From Node: ND0080	Length(ft): 92.00
Group: D	To Node: ND0081	Count: 2
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 84.00	84.00	Entrance Loss Coef: 0.50
Rise(in): 60.00	60.00	Exit Loss Coef: 0.00
Invert(ft): 10.700	9.320	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw

Long Branch BMP Model Results  
Input Data Report Summary

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:  
Rectangular Box: 30' to 75' wingwall flares

063016\_042

---

Name: RD0090A	From Node: ND0090	Length(ft): 140.00
Group: D	To Node: ND0091	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 36.00	36.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 8.000	7.780	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_020

---

Name: RD0110A	From Node: ND0110	Length(ft): 80.00
Group: D	To Node: ND0230	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 9.150	7.500	Bend Loss Coef: 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Manning's N: 0.012000    0.012000    Outlet Ctrl Spec: Use dc or tw  
Top Clip(in): 0.000    0.000    Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000    0.000    Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_019

---

Name: RD0120A    From Node: ND0120    Length(ft): 70.00  
Group: D    To Node: ND0230    Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 10.100	7.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_022

---

Name: RD0150A    From Node: ND0150    Length(ft): 110.00  
Group: D    To Node: ND0260    Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 15.00	15.00	Entrance Loss Coef: 0.50
Rise(in): 15.00	15.00	Exit Loss Coef: 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Invert(ft): 13.000	10.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_049

---

Name: RD0170A	From Node: ND0170	Length(ft): 255.00
Group: D	To Node: ND0181	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 12.000	11.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_060

---

Name: RD0180A	From Node: ND0180	Length(ft): 118.00
Group: D	To Node: ND0181	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 15.00	15.00	Entrance Loss Coef: 0.50

Long Branch BMP Model Results  
Input Data Report Summary

Rise(in): 15.00	15.00	Exit Loss Coef: 0.00
Invert(ft): 13.600	11.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_045

---

Name: RD0181A	From Node: ND0181	Length(ft): 270.00
Group: D	To Node: ND0182	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 11.300	8.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_061

---

Name: RD0182A	From Node: ND0182	Length(ft): 1887.00
Group: D	To Node: NJ0100	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both



Long Branch BMP Model Results  
Input Data Report Summary

Span(in): 48.00	48.00	Entrance Loss Coef: 0.50
Rise(in): 48.00	48.00	Exit Loss Coef: 0.00
Invert(ft): 8.000	6.760	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_068

Name: RD0190A      From Node: ND0190      Length(ft): 340.00

Group: D      To Node: ND0230      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 36.00      36.00      Entrance Loss Coef: 0.50

Rise(in): 36.00      36.00      Exit Loss Coef: 0.00

Invert(ft): 7.800      7.500      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

063016\_021

Name: RD0200A      From Node: ND0200      Length(ft): 127.00

Group: D      To Node: ND0230      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Long Branch BMP Model Results  
Input Data Report Summary

Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 30.00	30.00	Entrance Loss Coef: 0.50
Rise(in): 19.00	19.00	Exit Loss Coef: 0.00
Invert(ft): 11.200	7.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

312916\_065

---

Name: RD0210A	From Node: ND0210	Length(ft): 55.00
Group: D	To Node: ND0230	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 11.000	7.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

312916\_067

---

Name: RD0210B	From Node: ND0210	Length(ft): 23.00
Group: D	To Node: ND0230	Count: 1
Friction Equation: Automatic		

Long Branch BMP Model Results  
Input Data Report Summary

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 10.500	7.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

312916\_053

---

Name: RD0230A	From Node: ND0230	Length(ft): 85.00
Group: D	To Node: ND0231	Count: 2
Friction Equation: Automatic		

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 84.00	84.00	Entrance Loss Coef: 0.50
Rise(in): 60.00	60.00	Exit Loss Coef: 0.00
Invert(ft): 7.500	7.400	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:  
Rectangular Box: 30' to 75' wingwall flares

063016\_023

---

Name: RD0240A	From Node: ND0240	Length(ft): 170.00
Group: D	To Node: ND0250	Count: 1

Long Branch BMP Model Results  
Input Data Report Summary

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 42.00	42.00	Entrance Loss Coef: 0.50
Rise(in): 42.00	42.00	Exit Loss Coef: 0.00
Invert(ft): 10.700	10.600	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_062

---

Name: RD0240C	From Node: ND0240	Length(ft): 120.00
Group: D	To Node: ND0260	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.50
Rise(in): 48.00	48.00	Exit Loss Coef: 0.00
Invert(ft): 10.700	10.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_063

---

Name: RD0250A	From Node: ND0250	Length(ft): 320.00
---------------	-------------------	--------------------

Long Branch BMP Model Results  
Input Data Report Summary

Group: D To Node: ND0260 Count: 1

Friction Equation: Automatic

UPSTREAM DOWNSTREAM Solution Algorithm: Most Restrictive

Geometry: Circular Circular Flow: Both

Span(in): 48.00 48.00 Entrance Loss Coef: 0.50

Rise(in): 48.00 48.00 Exit Loss Coef: 0.00

Invert(ft): 11.000 10.600 Bend Loss Coef: 0.00

Manning's N: 0.012000 0.012000 Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000 0.000 Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000 0.000 Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

053016\_041

Name: RD0260A From Node: ND0260 Length(ft): 300.00

Group: D To Node: NK0090 Count: 1

Friction Equation: Automatic

UPSTREAM DOWNSTREAM Solution Algorithm: Most Restrictive

Geometry: Circular Circular Flow: Both

Span(in): 54.00 54.00 Entrance Loss Coef: 0.50

Rise(in): 54.00 54.00 Exit Loss Coef: 0.00

Invert(ft): 10.800 10.500 Bend Loss Coef: 0.00

Manning's N: 0.012000 0.012000 Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000 0.000 Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000 0.000 Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

053016\_060

Long Branch BMP Model Results  
Input Data Report Summary

Name: RD0280A      From Node: ND0280      Length(ft): 52.00

Group: D      To Node: ND0290      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 24.00      24.00      Entrance Loss Coef: 0.50

Rise(in): 24.00      24.00      Exit Loss Coef: 0.00

Invert(ft): 13.600      7.300      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

312916\_017

Name: RD0290A      From Node: ND0290      Length(ft): 317.00

Group: D      To Node: NJ0100      Count: 3

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Rectangular      Rectangular      Flow: Both

Span(in): 96.00      96.00      Entrance Loss Coef: 0.50

Rise(in): 60.00      60.00      Exit Loss Coef: 0.00

Invert(ft): 7.300      6.760      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_080

Long Branch BMP Model Results  
Input Data Report Summary

Name: RE0020A      From Node: NE0020      Length(ft): 100.00

Group: E      To Node: NH0091      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 24.00      24.00      Entrance Loss Coef: 0.50

Rise(in): 24.00      24.00      Exit Loss Coef: 0.00

Invert(ft): 10.200      1.930      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_033

Name: RE0040A      From Node: NE0040      Length(ft): 55.00

Group: E      To Node: NH0165      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 18.00      18.00      Entrance Loss Coef: 0.50

Rise(in): 18.00      18.00      Exit Loss Coef: 0.00

Invert(ft): 2.500      1.750      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_108

Long Branch BMP Model Results  
Input Data Report Summary

---

Name: RE0041	From Node: NE0041	Length(ft): 150.00
Group: E	To Node: NG0171	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 1.500	1.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RE0050A	From Node: NE0050	Length(ft): 100.00
Group: E	To Node: NG0170	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 36.00	36.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 6.400	1.450	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall



Long Branch BMP Model Results  
Input Data Report Summary

322916\_036

---

Name: RE0060A	From Node: NE0060	Length(ft): 50.00
Group: E	To Node: NE9070	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 2.920	1.610	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

292916\_006

---

Name: RE0080A	From Node: NE0080	Length(ft): 350.00
Group: E	To Node: NG0172	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 5.600	2.800	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

292916\_005

---

Name: RE0100A	From Node: NE0100	Length(ft): 178.00
Group: E	To Node: NF0060	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 15.00	15.00	Entrance Loss Coef: 0.50
Rise(in): 15.00	15.00	Exit Loss Coef: 0.00
Invert(ft): 4.610	1.650	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

282916\_006

---

Name: RF0010A	From Node: NF0010	Length(ft): 102.00
Group: F	To Node: NF0011	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 9.220	8.880	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Long Branch BMP Model Results  
Input Data Report Summary

Circular Concrete: Groove end w/ headwall

322916\_032

---

Name: RF0011A	From Node: NF0011	Length(ft): 68.00
Group: F	To Node: NF0012	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 8.880	8.380	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_087

---

Name: RF0012A	From Node: NF0012	Length(ft): 356.00
Group: F	To Node: NF0030	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 67.92	67.92	Entrance Loss Coef: 0.50
Rise(in): 42.96	42.96	Exit Loss Coef: 0.00
Invert(ft): 8.380	2.800	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Long Branch BMP Model Results  
Input Data Report Summary

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

322916\_034

---

Name: RF0050A	From Node: NF0050	Length(ft): 80.00
Group: F	To Node: NF0060	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 15.00	15.00	Entrance Loss Coef: 0.50
Rise(in): 15.00	15.00	Exit Loss Coef: 0.00
Invert(ft): 5.500	2.440	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

282916\_005

---

Name: RF0061	From Node: NF0061	Length(ft): 150.00
Group: F	To Node: NF0062	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 1.700	0.800	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Square edge w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RG0010A	From Node: NG0010	Length(ft): 48.00
Group: G	To Node: NG0060	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 13.900	10.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

292916\_013

---

Name: RG0020A	From Node: NG0020	Length(ft): 140.00
Group: G	To Node: NG0040	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 12.700	12.100	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Long Branch BMP Model Results  
Input Data Report Summary

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

292916\_012

---

Name: RG0060A	From Node: NG0060	Length(ft): 188.00
Group: G	To Node: NG0040	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 15.500	12.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_041

---

Name: RG0060B	From Node: NG0060	Length(ft): 188.00
Group: G	To Node: NG0040	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 12.00	12.00	Exit Loss Coef: 0.00
Invert(ft): 16.100	14.200	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

322916\_040

---

Name: RG0080A	From Node: NG0080	Length(ft): 77.00
Group: G	To Node: NG0130	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 42.00	42.00	Entrance Loss Coef: 0.50
Rise(in): 42.00	42.00	Exit Loss Coef: 0.00
Invert(ft): 6.600	6.200	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_035

---

Name: RG0090A	From Node: NG0090	Length(ft): 44.00
Group: G	To Node: NJ0261	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 4.000	3.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_121

---

Name: RG0100A	From Node: NG0100	Length(ft): 190.00
Group: G	To Node: NG0090	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 1.00
Invert(ft): 5.000	4.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_150

---

Name: RG0110A	From Node: NG0110	Length(ft): 535.00
Group: G	To Node: NG0080	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 68.00	68.00	Entrance Loss Coef: 0.50
Rise(in): 43.00	43.00	Exit Loss Coef: 0.00
Invert(ft): 0.790	0.650	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None



Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Horizontal Ellipse Concrete: Square edge with headwall

322916\_082

---

Name: RG0121A	From Node: NG0121	Length(ft): 34.00
Group: G	To Node: NG0100	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 12.00	12.00	Entrance Loss Coef: 0.50
Rise(in): 12.00	12.00	Exit Loss Coef: 0.00
Invert(ft): 6.000	5.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_137

---

Name: RG0130A	From Node: NG0130	Length(ft): 390.00
Group: G	To Node: NG0140	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 72.00	72.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 6.200	5.800	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Long Branch BMP Model Results  
Input Data Report Summary

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_038

---

Name: RG0140A	From Node: NG0140	Length(ft): 360.00
Group: G	To Node: NG0150	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 72.00	72.00	Entrance Loss Coef: 0.50
Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 6.100	5.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_097

---

Name: RG0170A	From Node: NG0170	Length(ft): 47.00
Group: G	To Node: NG0171	Count: 3
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Rectangular	Rectangular	Flow: Both
Span(in): 120.00	120.00	Entrance Loss Coef: 0.50
Rise(in): 84.00	84.00	Exit Loss Coef: 0.00
Invert(ft): 1.750	1.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc

Long Branch BMP Model Results  
Input Data Report Summary

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:  
Rectangular Box: 30' to 75' wingwall flares

322916\_109

---

Name: RG0170D	From Node: NG0170	Length(ft): 150.00
Group: G	To Node: NH0051	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 1.800	1.750	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RH0010A	From Node: NH0010	Length(ft): 1040.00
Group: H	To Node: NH0011	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 42.00	42.00	Entrance Loss Coef: 0.50
Rise(in): 42.00	42.00	Exit Loss Coef: 0.00
Invert(ft): 8.800	7.460	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw

Long Branch BMP Model Results  
Input Data Report Summary

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_062

---

Name: RH0050A	From Node: NH0050	Length(ft): 274.00
Group: H	To Node: NH0080	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 8.800	8.200	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_111

---

Name: RH0051	From Node: NH0051	Length(ft): 100.00
Group: H	To Node: NF0061	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 1.800	1.700	Bend Loss Coef: 0.00

Long Branch BMP Model Results  
Input Data Report Summary

Manning's N: 0.012000    0.012000    Outlet Ctrl Spec: Use dc or tw  
Top Clip(in): 0.000    0.000    Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000    0.000    Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RH0080A    From Node: NH0080    Length(ft): 109.00  
Group: H    To Node: NH0091    Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 8.500	6.510	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_110

---

Name: RH0165    From Node: NH0165    Length(ft): 100.00  
Group: H    To Node: NE0041    Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00

Long Branch BMP Model Results  
Input Data Report Summary

Invert(ft): 1.750	1.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RJ0030A	From Node: NJ0030	Length(ft): 63.00
Group: J	To Node: NJ0140	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.50
Rise(in): 48.00	48.00	Exit Loss Coef: 0.00
Invert(ft): 6.500	6.180	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_037

---

Name: RJ0040A	From Node: NJ0040	Length(ft): 316.00
Group: J	To Node: NJ0050	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 36.00	36.00	Entrance Loss Coef: 0.50

Long Branch BMP Model Results  
Input Data Report Summary

Rise(in): 36.00	36.00	Exit Loss Coef: 0.00
Invert(ft): 8.770	8.500	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_048

---

Name: RJ0050A	From Node: NJ0050	Length(ft): 267.00
Group: J	To Node: NJ0060	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 8.500	7.370	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_095

---

Name: RJ0060A	From Node: NJ0060	Length(ft): 594.00
Group: J	To Node: NJ0070	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both

Long Branch BMP Model Results  
Input Data Report Summary

Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 7.370	7.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_129

-----  
Name: RJ0090A      From Node: NJ0090      Length(ft): 130.00

Group: J      To Node: NJ0040      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 18.00      18.00      Entrance Loss Coef: 0.50

Rise(in): 18.00      18.00      Exit Loss Coef: 0.00

Invert(ft): 11.630      8.770      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_149

-----  
Name: RJ0101C      From Node: NJ0101      Length(ft): 150.00

Group: J      To Node: NJ0030      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive



Long Branch BMP Model Results  
Input Data Report Summary

Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 6.670	4.890	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RJ0121A	From Node: NJ0121	Length(ft): 150.00
Group: J	To Node: NJ0120	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 6.180	6.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RJ0130A	From Node: NJ0130	Length(ft): 450.00
Group: J	To Node: NJ0141	Count: 1

Friction Equation: Automatic

Long Branch BMP Model Results  
Input Data Report Summary

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.50
Rise(in): 48.00	48.00	Exit Loss Coef: 0.00
Invert(ft): 5.500	5.200	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_079

---

Name: RJ0170A	From Node: NJ0170	Length(ft): 45.00
Group: J	To Node: NJ0190	Count: 2
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 12.400	12.300	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_115

---

Name: RJ0200B	From Node: NJ0200	Length(ft): 50.00
Group: J	To Node: NJ0210	Count: 1

Long Branch BMP Model Results  
Input Data Report Summary

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 9.900	9.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

322916\_107

---

Name: RJ0210F	From Node: NJ0210	Length(ft): 150.00
Group: J	To Node: NJ0130	Count: 1

Friction Equation: Automatic

UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.00
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 9.000	7.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

---

Name: RJ0230A	From Node: NJ0230	Length(ft): 54.00
---------------	-------------------	-------------------

Long Branch BMP Model Results  
Input Data Report Summary

Group: J

To Node: NJ0220

Count: 1

Friction Equation: Automatic

UPSTREAM

DOWNSTREAM

Solution Algorithm: Most Restrictive

Geometry: Circular

Circular

Flow: Both

Span(in): 18.00

18.00

Entrance Loss Coef: 0.50

Rise(in): 18.00

18.00

Exit Loss Coef: 0.00

Invert(ft): 8.300

7.600

Bend Loss Coef: 0.00

Manning's N: 0.012000

0.012000

Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000

0.000

Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000

0.000

Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_117

Name: RJ0240A

From Node: NJ0240

Length(ft): 105.00

Group: J

To Node: NJ0250

Count: 1

Friction Equation: Automatic

UPSTREAM

DOWNSTREAM

Solution Algorithm: Automatic

Geometry: Circular

Circular

Flow: Both

Span(in): 18.00

18.00

Entrance Loss Coef: 0.50

Rise(in): 18.00

18.00

Exit Loss Coef: 0.00

Invert(ft): 10.200

4.500

Bend Loss Coef: 0.00

Manning's N: 0.012000

0.012000

Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000

0.000

Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000

0.000

Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_113

Long Branch BMP Model Results  
Input Data Report Summary

Name: RJ0250A      From Node: NJ0250      Length(ft): 169.00  
Group: J      To Node: NJ0261      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Automatic

Geometry: Rectangular      Rectangular      Flow: Both

Span(in): 120.00      120.00      Entrance Loss Coef: 0.50

Rise(in): 84.00      84.00      Exit Loss Coef: 0.00

Invert(ft): 4.500      3.500      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_068

Name: RJ0250B      From Node: NJ0250      Length(ft): 160.00  
Group: J      To Node: NJ0261      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Automatic

Geometry: Rectangular      Rectangular      Flow: Both

Span(in): 120.00      120.00      Entrance Loss Coef: 0.50

Rise(in): 84.00      84.00      Exit Loss Coef: 0.00

Invert(ft): 4.500      3.500      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

322916\_124

Long Branch BMP Model Results  
Input Data Report Summary

Name: RJ0260A      From Node: NJ0260      Length(ft): 864.00

Group: J      To Node: NJ0250      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 48.00      48.00      Entrance Loss Coef: 0.50

Rise(in): 48.00      48.00      Exit Loss Coef: 0.00

Invert(ft): 6.180      4.500      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

322916\_151

Name: RK0091A      From Node: NK0091      Length(ft): 656.00

Group: K      To Node: ND0182      Count: 1

Friction Equation: Automatic

UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive

Geometry: Circular      Circular      Flow: Both

Span(in): 48.00      48.00      Entrance Loss Coef: 0.50

Rise(in): 48.00      48.00      Exit Loss Coef: 0.00

Invert(ft): 9.500      8.000      Bend Loss Coef: 0.00

Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw

Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc

Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:

Circular Concrete: Groove end w/ headwall

053016\_066

Long Branch BMP Model Results  
Input Data Report Summary

---

Name: RK0100A	From Node: NK0100	Length(ft): 64.00
Group: K	To Node: NK0160	Count: 2
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 14.700	10.100	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_032

---

Name: RK0110A	From Node: NK0120	Length(ft): 220.00
Group: K	To Node: NK0110	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.50
Rise(in): 24.00	24.00	Exit Loss Coef: 0.00
Invert(ft): 11.800	11.700	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

053016\_009

---

Name: RK0130A	From Node: NK0130	Length(ft): 493.00
Group: K	To Node: NK0100	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 30.00	30.00	Entrance Loss Coef: 0.50
Rise(in): 30.00	30.00	Exit Loss Coef: 0.00
Invert(ft): 14.900	14.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_033

---

Name: RK0140A	From Node: NK0140	Length(ft): 330.00
Group: K	To Node: NK0150	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 18.00	18.00	Entrance Loss Coef: 0.50
Rise(in): 18.00	18.00	Exit Loss Coef: 0.00
Invert(ft): 11.000	10.100	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall



Long Branch BMP Model Results  
Input Data Report Summary

053016\_037

---

Name: RK0150A	From Node: NK0150	Length(ft): 319.00
Group: K	To Node: NK0130	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 15.00	15.00	Entrance Loss Coef: 0.50
Rise(in): 15.00	15.00	Exit Loss Coef: 0.00
Invert(ft): 12.300	14.000	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Groove end w/ headwall

053016\_012

---

Name: RK0150B	From Node: NK0150	Length(ft): 470.00
Group: K	To Node: NK0161	Count: 1
Friction Equation: Automatic		
UPSTREAM	DOWNSTREAM	Solution Algorithm: Most Restrictive
Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 23.04	23.04	Entrance Loss Coef: 0.50
Rise(in): 14.04	14.04	Exit Loss Coef: 0.00
Invert(ft): 9.500	8.450	Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:

Long Branch BMP Model Results  
Input Data Report Summary

Horizontal Ellipse Concrete: Square edge with headwall

053016\_010

-----  
Name: RK0160A      From Node: NK0160      Length(ft): 41.00  
Group: K            To Node: NK0161      Count: 1  
Friction Equation: Automatic  
UPSTREAM      DOWNSTREAM      Solution Algorithm: Most Restrictive  
Geometry: Rectangular      Rectangular      Flow: Both  
Span(in): 84.00      84.00      Entrance Loss Coef: 0.50  
Rise(in): 60.00      60.00      Exit Loss Coef: 0.00  
Invert(ft): 9.500      8.600      Bend Loss Coef: 0.00  
Manning's N: 0.012000      0.012000      Outlet Ctrl Spec: Use dc or tw  
Top Clip(in): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Bot Clip(in): 0.000      0.000      Stabilizer Option: None

Upstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

Downstream FHWA Inlet Edge Description:

Rectangular Box: 30' to 75' wingwall flares

053016\_043

==== Channels =====

Name: RA0082A      From Node: NA0082      Length(ft): 494.00  
Group: A            To Node: ND0051      Count: 1  
UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 11.000      10.800      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XA0082A\_1      XA0082A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000

Long Branch BMP Model Results  
Input Data Report Summary

Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RC0020A      From Node: NC0020      Length(ft): 830.00  
Group: C              To Node: NC0021      Count: 1

UPSTREAM	DOWNSTREAM	
Geometry: Irregular	Irregular	Friction Equation: Automatic
Invert(ft): 11.700	11.360	Solution Algorithm: Automatic
TClpInitZ(ft): 9999.000	9999.000	Flow: Both
Manning's N:		Contraction Coef: 0.100
Top Clip(ft):		Expansion Coef: 0.300
Bot Clip(ft):		Entrance Loss Coef: 0.000
Main XSec: XC0020A_1	XC0020A_2	Exit Loss Coef: 0.500
AuxElev1(ft): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Aux XSec1:		Inlet Ctrl Spec: Use dc
AuxElev2(ft): 0.000	0.000	Stabilizer Option: None
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RC0021A      From Node: NC0021      Length(ft): 402.00  
Group: C              To Node: NC0080      Count: 1

UPSTREAM	DOWNSTREAM	
Geometry: Irregular	Irregular	Friction Equation: Automatic
Invert(ft): 11.360	6.600	Solution Algorithm: Automatic
TClpInitZ(ft): 9999.000	9999.000	Flow: Both
Manning's N:		Contraction Coef: 0.100
Top Clip(ft):		Expansion Coef: 0.300
Bot Clip(ft):		Entrance Loss Coef: 0.000
Main XSec: XC0021A_1	XC0021A_2	Exit Loss Coef: 0.500
		Outlet Ctrl Spec: Use dc or tw

Long Branch BMP Model Results  
Input Data Report Summary

AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RC0021B	From Node: NC0021	Length(ft): 488.00
Group: C	To Node: NC0022	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 11.360	11.000	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XC0021B_1	XC0021B_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RC0100A	From Node: NC0100	Length(ft): 117.00
Group: C	To Node: NC0105	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 10.400	10.300	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300

Long Branch BMP Model Results  
Input Data Report Summary

Top Clip(ft): Entrance Loss Coef: 0.000  
Bot Clip(ft): Exit Loss Coef: 0.500  
Main XSec: XC0100A\_1 XC0100A\_2 Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000 0.000 Inlet Ctrl Spec: Use dc  
Aux XSec1: Stabilizer Option: None  
AuxElev2(ft): 0.000 0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RC0101B From Node: NC0102 Length(ft): 651.00  
Group: C To Node: NC0101 Count: 1

UPSTREAM DOWNSTREAM Friction Equation: Automatic  
Geometry: Irregular Irregular Solution Algorithm: Automatic  
Invert(ft): 10.600 10.500 Flow: Both  
TCIplnitZ(ft): 9999.000 9999.000 Contraction Coef: 0.100  
Manning's N: Expansion Coef: 0.300  
Top Clip(ft): Entrance Loss Coef: 0.000  
Bot Clip(ft): Exit Loss Coef: 0.500  
Main XSec: XC0101B\_1 XC0101B\_2 Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000 0.000 Inlet Ctrl Spec: Use dc  
Aux XSec1: Stabilizer Option: None  
AuxElev2(ft): 0.000 0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RC0103A From Node: NC0104 Length(ft): 492.00  
Group: C To Node: NC0103 Count: 1

UPSTREAM DOWNSTREAM Friction Equation: Automatic  
Geometry: Irregular Irregular Solution Algorithm: Automatic

Long Branch BMP Model Results  
Input Data Report Summary

Invert(ft): 10.800      10.700      Flow: Both  
 TCIPInitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
 Manning's N:      Expansion Coef: 0.300  
 Top Clip(ft):      Entrance Loss Coef: 0.000  
 Bot Clip(ft):      Exit Loss Coef: 0.500  
 Main XSec: XC0103A\_1      XC0103A\_2      Outlet Ctrl Spec: Use dc or tw  
 AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
 Aux XSec1:      Stabilizer Option: None  
 AuxElev2(ft): 0.000      0.000  
 Aux XSec2:  
 Top Width(ft):  
 Depth(ft):  
 Bot Width(ft):  
 LtSdSlp(h/v):  
 RtSdSlp(h/v):

---

Name: RC0106      From Node: NC0106      Length(ft): 353.00  
 Group: C      To Node: NC0160      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
 Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
 Invert(ft): 8.300      8.200      Flow: Both  
 TCIPInitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
 Manning's N:      Expansion Coef: 0.300  
 Top Clip(ft):      Entrance Loss Coef: 0.000  
 Bot Clip(ft):      Exit Loss Coef: 0.000  
 Main XSec: XC0106      XC0106B      Outlet Ctrl Spec: Use dc or tw  
 AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
 Aux XSec1:      Stabilizer Option: None  
 AuxElev2(ft): 0.000      0.000  
 Aux XSec2:  
 Top Width(ft):  
 Depth(ft):  
 Bot Width(ft):  
 LtSdSlp(h/v):  
 RtSdSlp(h/v):

---

Name: RC0160      From Node: NC0160      Length(ft): 248.00  
 Group: C      To Node: NC0161      Count: 1

Long Branch BMP Model Results  
Input Data Report Summary

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 8.200	8.100	Flow: Both
TCIplnitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XC0106B	XC0161A_1	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RC0161	From Node: NC0161	Length(ft): 334.00
Group: C	To Node: NC0170	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 8.100	8.000	Flow: Both
TCIplnitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XC0161A_1	XC0161A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

Long Branch BMP Model Results  
Input Data Report Summary

Name: RD0051B      From Node: ND0051      Length(ft): 401.00  
Group: D      To Node: ND0080      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 10.800	10.700	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XA0082A_2	XD0051B_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

Name: RD0081A      From Node: ND0081      Length(ft): 901.00  
Group: D      To Node: ND0091      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 9.320	7.780	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XD0081A_1	XD0081A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		



Long Branch BMP Model Results  
Input Data Report Summary

---

Name: RD0091A      From Node: ND0091      Length(ft): 3178.61  
Group: D      To Node: ND0230      Count: 1

UPSTREAM	DOWNSTREAM	
Geometry: Irregular	Irregular	Friction Equation: Automatic
Invert(ft): 7.780	7.500	Solution Algorithm: Automatic
TCIplnitZ(ft): 9999.000	9999.000	Flow: Both
Manning's N:		Contraction Coef: 0.100
Top Clip(ft):		Expansion Coef: 0.300
Bot Clip(ft):		Entrance Loss Coef: 0.000
Main XSec: XD0091A_1	XD0091A_2	Exit Loss Coef: 0.500
AuxElev1(ft): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Aux XSec1:		Inlet Ctrl Spec: Use dc
AuxElev2(ft): 0.000	0.000	Stabilizer Option: None
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RD0231A      From Node: ND0231      Length(ft): 1436.00  
Group: D      To Node: ND0290      Count: 1

UPSTREAM	DOWNSTREAM	
Geometry: Irregular	Irregular	Friction Equation: Automatic
Invert(ft): 7.400	7.300	Solution Algorithm: Automatic
TCIplnitZ(ft): 9999.000	9999.000	Flow: Both
Manning's N:		Contraction Coef: 0.100
Top Clip(ft):		Expansion Coef: 0.300
Bot Clip(ft):		Entrance Loss Coef: 0.000
Main XSec: XD0231A_1	XD0231A_2	Exit Loss Coef: 0.500
AuxElev1(ft): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Aux XSec1:		Inlet Ctrl Spec: Use dc
AuxElev2(ft): 0.000	0.000	Stabilizer Option: None
Aux XSec2:		
Top Width(ft):		
Depth(ft):		

Long Branch BMP Model Results  
Input Data Report Summary

Bot Width(ft):

LtSdSlp(h/v):

RtSdSlp(h/v):

Name: RF0042A      From Node: NF0042      Length(ft): 1062.00  
Group: F              To Node: NF0060      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 0.350	-0.600	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XF0042A_1	XF0042A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

Name: RF0060A      From Node: NF0060      Length(ft): 701.00  
Group: F              To Node: NF9060      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): -0.600	-2.700	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XF0060A_1	XF0060A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	

Long Branch BMP Model Results  
Input Data Report Summary

Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RF0062      From Node: NF0062      Length(ft): 1164.00  
Group: F      To Node: NG0172      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 0.800      0.700      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.000  
Main XSec: XG0171A\_1      XG0171A\_1      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RG0150A      From Node: NG0150      Length(ft): 312.00  
Group: G      To Node: NH0060      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 5.000      3.200      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XG0150A\_1      XG0150A\_2      Outlet Ctrl Spec: Use dc or tw

Long Branch BMP Model Results  
Input Data Report Summary

AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RG0171A	From Node: NG0171	Length(ft): 200.00
Group: G	To Node: NF0062	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 1.000	0.900	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.000
Main XSec: XG0171A_1	XG0171A_1	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RG0172A	From Node: NG0172	Length(ft): 778.00
Group: G	To Node: NF0042	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 0.700	0.350	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300

Long Branch BMP Model Results  
Input Data Report Summary

Top Clip(ft): Entrance Loss Coef: 0.000  
Bot Clip(ft): Exit Loss Coef: 0.500  
Main XSec: XG0171A\_1 XG0172A\_2 Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000 0.000 Inlet Ctrl Spec: Use dc  
Aux XSec1: Stabilizer Option: None  
AuxElev2(ft): 0.000 0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RH0011A From Node: NH0011 Length(ft): 1371.00  
Group: H To Node: NH0071 Count: 1

UPSTREAM DOWNSTREAM Friction Equation: Automatic  
Geometry: Irregular Irregular Solution Algorithm: Automatic  
Invert(ft): 7.460 2.660 Flow: Both  
TCIplnitZ(ft): 9999.000 9999.000 Contraction Coef: 0.100  
Manning's N: Expansion Coef: 0.300  
Top Clip(ft): Entrance Loss Coef: 0.000  
Bot Clip(ft): Exit Loss Coef: 0.500  
Main XSec: XH0011A\_1 XH0011A\_2 Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000 0.000 Inlet Ctrl Spec: Use dc  
Aux XSec1: Stabilizer Option: None  
AuxElev2(ft): 0.000 0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RH0060A From Node: NH0060 Length(ft): 780.00  
Group: H To Node: NH0070 Count: 1

UPSTREAM DOWNSTREAM Friction Equation: Automatic  
Geometry: Irregular Irregular Solution Algorithm: Automatic

Long Branch BMP Model Results  
Input Data Report Summary

Invert(ft): 3.200      2.860      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XH0060A\_1      XH0060A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RH0070A      From Node: NH0070      Length(ft): 926.75  
Group: H      To Node: NH0071      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 2.860      2.660      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XH0070A\_1      XH0070A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RH0071A      From Node: NH0071      Length(ft): 302.00  
Group: H      To Node: NH0090      Count: 1

Long Branch BMP Model Results  
Input Data Report Summary

UPSTREAM	DOWNSTREAM	
Geometry: Irregular	Irregular	Friction Equation: Automatic
Invert(ft): 2.660	2.450	Solution Algorithm: Automatic
TCIplnitZ(ft): 9999.000	9999.000	Flow: Both
Manning's N:		Contraction Coef: 0.100
Top Clip(ft):		Expansion Coef: 0.300
Bot Clip(ft):		Entrance Loss Coef: 0.000
Main XSec: XH0071A_1	XH0071A_2	Exit Loss Coef: 0.500
AuxElev1(ft): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Aux XSec1:		Inlet Ctrl Spec: Use dc
AuxElev2(ft): 0.000	0.000	Stabilizer Option: None
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

---

Name: RH0090A	From Node: NH0090	Length(ft): 1170.00
Group: H	To Node: NH0091	Count: 1

UPSTREAM	DOWNSTREAM	
Geometry: Irregular	Irregular	Friction Equation: Automatic
Invert(ft): 2.450	1.930	Solution Algorithm: Automatic
TCIplnitZ(ft): 9999.000	9999.000	Flow: Both
Manning's N:		Contraction Coef: 0.100
Top Clip(ft):		Expansion Coef: 0.300
Bot Clip(ft):		Entrance Loss Coef: 0.000
Main XSec: XH0071A_2	XH0090A_2	Exit Loss Coef: 0.500
AuxElev1(ft): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Aux XSec1:		Inlet Ctrl Spec: Use dc
AuxElev2(ft): 0.000	0.000	Stabilizer Option: None
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

Long Branch BMP Model Results  
Input Data Report Summary

Name: RH0091A      From Node: NH0091      Length(ft): 401.22  
Group: H              To Node: NG0170      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 1.930	1.750	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XH0090A_2	XH0091A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

Name: RJ0070A      From Node: NJ0070      Length(ft): 1804.58  
Group: J              To Node: NJ0141      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 7.000	5.200	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XJ0070A_1	XJ0070A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		



Long Branch BMP Model Results  
Input Data Report Summary

---

Name: RJ0080A      From Node: NJ0080      Length(ft): 933.00  
Group: J              To Node: NJ0100      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 7.320      6.760      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XJ0080A\_1      XJ0080A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RJ0100A      From Node: NJ0100      Length(ft): 903.00  
Group: J              To Node: NJ0101      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 6.760      6.670      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XJ0100A\_1      XJ0100A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):

Long Branch BMP Model Results  
Input Data Report Summary

Bot Width(ft):

LtSdSlp(h/v):

RtSdSlp(h/v):

Name: RJ0101CH      From Node: NJ0101      Length(ft): 205.00  
Group: J              To Node: NJ0140      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 6.670	6.180	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XJ0100A_2	XJ0101A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	
Aux XSec2:		
Top Width(ft):		
Depth(ft):		
Bot Width(ft):		
LtSdSlp(h/v):		
RtSdSlp(h/v):		

Name: RJ0140A      From Node: NJ0140      Length(ft): 949.00  
Group: J              To Node: NJ0141      Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Irregular	Irregular	Solution Algorithm: Automatic
Invert(ft): 6.180	5.200	Flow: Both
TClpInitZ(ft): 9999.000	9999.000	Contraction Coef: 0.100
Manning's N:		Expansion Coef: 0.300
Top Clip(ft):		Entrance Loss Coef: 0.000
Bot Clip(ft):		Exit Loss Coef: 0.500
Main XSec: XJ0140A_1	XJ0070A_2	Outlet Ctrl Spec: Use dc or tw
AuxElev1(ft): 0.000	0.000	Inlet Ctrl Spec: Use dc
Aux XSec1:		Stabilizer Option: None
AuxElev2(ft): 0.000	0.000	

Long Branch BMP Model Results  
Input Data Report Summary

Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RJ0141A      From Node: NJ0141      Length(ft): 701.00  
Group: J              To Node: NJ0250      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 5.200      4.500      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XJ0070A\_1      XJ0141A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

---

Name: RJ0261A      From Node: NJ0261      Length(ft): 933.00  
Group: J              To Node: NH0060      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 3.500      3.200      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XJ0261A\_1      XJ0261A\_2      Outlet Ctrl Spec: Use dc or tw

Long Branch BMP Model Results  
Input Data Report Summary

AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

-----  
Name: RK0161A      From Node: NK0161      Length(ft): 117967.00  
Group: K      To Node: NJ0121      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Irregular      Irregular      Solution Algorithm: Automatic  
Invert(ft): 8.450      6.180      Flow: Both  
TCIplnitZ(ft): 9999.000      9999.000      Contraction Coef: 0.100  
Manning's N:      Expansion Coef: 0.300  
Top Clip(ft):      Entrance Loss Coef: 0.000  
Bot Clip(ft):      Exit Loss Coef: 0.500  
Main XSec: XK0161A\_1      XK0161A\_2      Outlet Ctrl Spec: Use dc or tw  
AuxElev1(ft): 0.000      0.000      Inlet Ctrl Spec: Use dc  
Aux XSec1:      Stabilizer Option: None  
AuxElev2(ft): 0.000      0.000  
Aux XSec2:  
Top Width(ft):  
Depth(ft):  
Bot Width(ft):  
LtSdSlp(h/v):  
RtSdSlp(h/v):

=====  
==== Drop Structures =====  
=====

Name: RC0140A      From Node: NC0140      Length(ft): 84.00  
Group: C      To Node: NC0161      Count: 1

UPSTREAM      DOWNSTREAM      Friction Equation: Automatic  
Geometry: Circular      Circular      Solution Algorithm: Automatic

Long Branch BMP Model Results  
Input Data Report Summary

Span(in): 36.00	36.00	Flow: Both
Rise(in): 36.00	36.00	Entrance Loss Coef: 0.000
Invert(ft): 8.200	8.100	Exit Loss Coef: 1.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

\*\*\* Weir 1 of 1 for Drop Structure RC0140A \*\*\*

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 37.00	Invert(ft): 10.500
Rise(in): 49.00	Control Elev(ft): 10.500

---

Name: RH0080C	From Node: NH0080	Length(ft): 109.00
Group: C	To Node: NH0091	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Most Restrictive
Span(in): 48.00	48.00	Flow: Both
Rise(in): 48.00	48.00	Entrance Loss Coef: 0.000
Invert(ft): 3.800	2.800	Exit Loss Coef: 1.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Long Branch BMP Model Results  
Input Data Report Summary

\*\*\* Weir 1 of 1 for Drop Structure RH0080C \*\*\*

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 100.00	Invert(ft): 4.900
Rise(in): 9999999999.00	Control Elev(ft): 4.900

=====

==== Weirs =====

=====

Name: RA0010A      From Node: NA0010  
Group: A            To Node: NA0020  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XA0010A  
Invert(ft): 17.350  
Control Elevation(ft): 17.350  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000
Top Clip(ft): 0.000
Weir Discharge Coef: 2.600
Orifice Discharge Coef: 0.600

362915\_004

-----

Name: RA0020A      From Node: NA0020  
Group: A            To Node: NC0070  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XA0020A  
Invert(ft): 16.670  
Control Elevation(ft): 16.670  
Struct Opening Dim(ft): 9999.00

TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

362915\_010

---

Name: RA0030C      From Node: NA0030  
Group: A            To Node: NA0050  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XA0030C  
Invert(ft): 17.730  
Control Elevation(ft): 17.730  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

362916\_021

---

Name: RA0040A      From Node: NA0040  
Group: A            To Node: NA0050  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XA0040A  
Invert(ft): 17.320  
Control Elevation(ft): 17.320  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

362915\_002

---

Name: RA0040B      From Node: NA0040

Long Branch BMP Model Results  
Input Data Report Summary

Group: A                      To Node: NA0020  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0040B  
        Invert(ft): 16.770  
Control Elevation(ft): 16.770  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

362915\_003

---

Name: RA0040C              From Node: NA0040  
Group: A                      To Node: NC0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0040C  
        Invert(ft): 16.400  
Control Elevation(ft): 16.400  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

---

Name: RA0040D              From Node: NA0040  
Group: A                      To Node: NA0030  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0040D  
        Invert(ft): 17.540  
Control Elevation(ft): 17.540  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

362916\_020

---

Name: RA0060A      From Node: NA0060  
Group: A            To Node: NA0070  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XA0060A  
Invert(ft): 16.820  
Control Elevation(ft): 16.820  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

013015\_002

---

Name: RA0070A      From Node: NA0070  
Group: A            To Node: NA0080  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XA0070A  
Invert(ft): 16.440  
Control Elevation(ft): 16.440  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RA0070B      From Node: NA0070

Long Branch BMP Model Results  
Input Data Report Summary

Group: A                      To Node: ND0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0070B  
        Invert(ft): 16.440  
Control Elevation(ft): 16.440  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

013015\_016

---

Name: RA0080A              From Node: NA0080  
Group: A                      To Node: NA0081  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0080A  
        Invert(ft): 16.590  
Control Elevation(ft): 16.590  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

013015\_010

---

Name: RA0081B              From Node: NA0081  
Group: A                      To Node: NA0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0081B  
        Invert(ft): 17.110  
Control Elevation(ft): 17.110  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

013015\_006

---

Name: RA0081C      From Node: NA0081  
Group: A            To Node: NA0082  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XA0081C  
Invert(ft): 15.800  
Control Elevation(ft): 15.800  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

013015\_008

---

Name: RA0081D      From Node: NA0081  
Group: A            To Node: NA0030  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XA0081D  
Invert(ft): 17.780  
Control Elevation(ft): 17.780  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

013015\_007

---

Name: RA0081E      From Node: NA0081

Long Branch BMP Model Results  
Input Data Report Summary

Group: A                      To Node: ND0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0081E  
        Invert(ft): 16.030  
Control Elevation(ft): 16.030  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

---

Name: RA0081F              From Node: NA0081  
Group: A                      To Node: ND0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XA0081F  
        Invert(ft): 16.650  
Control Elevation(ft): 16.650  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

---

Name: RB0010B              From Node: NB0010  
Group: B                      To Node: NB0020  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0010B  
        Invert(ft): 17.700  
Control Elevation(ft): 17.700  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_001

---

Name: RB0020A      From Node: NB0020  
Group: B            To Node: NC0010  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XB0020A  
Invert(ft): 16.570  
Control Elevation(ft): 16.570  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_021

---

Name: RB0030A      From Node: NB0030  
Group: B            To Node: NB0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XB0030A  
Invert(ft): 15.157  
Control Elevation(ft): 15.157  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_002

---

Name: RB0030B      From Node: NB0030

Long Branch BMP Model Results  
Input Data Report Summary

Group: B                      To Node: NB0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0030B  
        Invert(ft): 17.910  
Control Elevation(ft): 17.910  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_047

---

Name: RB0030C              From Node: NB0030  
Group: B                      To Node: NB0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0030C  
        Invert(ft): 15.126  
Control Elevation(ft): 15.126  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_132

---

Name: RB0040A              From Node: NB0040  
Group: B                      To Node: NB0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0040A  
        Invert(ft): 17.765  
Control Elevation(ft): 17.765  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_045

---

Name: RB0040B      From Node: NB0040  
Group: B            To Node: NB0070  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XB0040B  
Invert(ft): 17.956  
Control Elevation(ft): 17.956  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_004

---

Name: RB0040C      From Node: NB0040  
Group: B            To Node: NB0060  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XB0040C  
Invert(ft): 18.541  
Control Elevation(ft): 18.541  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_023

---

Name: RB0050B      From Node: NB0050

Long Branch BMP Model Results  
Input Data Report Summary

Group: B                      To Node: NB0060  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0050B  
        Invert(ft): 17.708  
Control Elevation(ft): 17.708  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_025

---

Name: RB0050C              From Node: NB0050  
Group: B                      To Node: NB0051  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0050C  
        Invert(ft): 14.315  
Control Elevation(ft): 14.315  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_043

---

Name: RB0050D              From Node: NB0050  
Group: B                      To Node: NB0055  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0050D  
        Invert(ft): 14.441  
Control Elevation(ft): 14.441  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_128

---

Name: RB0050E      From Node: NB0050  
Group: B            To Node: NB0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XB0050E  
Invert(ft): 14.816  
Control Elevation(ft): 14.816  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_127

---

Name: RB0055B      From Node: NB0055  
Group: B            To Node: NB0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XB0055B  
Invert(ft): 13.835  
Control Elevation(ft): 13.835  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_129

---

Name: RB0060A      From Node: NB0060

Long Branch BMP Model Results  
Input Data Report Summary

Group: B                      To Node: NB0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0060A  
        Invert(ft): 17.630  
Control Elevation(ft): 17.630  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_024

---

Name: RB0070A              From Node: NB0070  
Group: B                      To Node: NB0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0070A  
        Invert(ft): 17.110  
Control Elevation(ft): 17.110  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_044

---

Name: RB0080A              From Node: NB0080  
Group: B                      To Node: NC0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XB0080A  
        Invert(ft): 16.710  
Control Elevation(ft): 16.710  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_040

---

Name: RB0090B      From Node: NB0090  
Group: B            To Node: NG0130  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XB0090B  
Invert(ft): 14.090  
Control Elevation(ft): 14.090  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_043

---

Name: RC0010B      From Node: NC0010  
Group: C            To Node: NC0020  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0010B  
Invert(ft): 16.930  
Control Elevation(ft): 16.930  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_022

---

Name: RC0010C      From Node: NC0010

Long Branch BMP Model Results  
Input Data Report Summary

Group: C                      To Node: NB0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0010C  
        Invert(ft): 17.000  
Control Elevation(ft): 17.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_015

---

Name: RC0022B              From Node: NC0022  
Group: C                      To Node: NC0090  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0022B  
        Invert(ft): 14.100  
Control Elevation(ft): 14.100  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_020

---

Name: RC0030A              From Node: NC0030  
Group: C                      To Node: NC0031  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0030A  
        Invert(ft): 14.760  
Control Elevation(ft): 14.760  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_075

---

Name: RC0031B      From Node: NC0031  
Group: C            To Node: NC0021  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0031B  
Invert(ft): 14.000  
Control Elevation(ft): 14.000  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_055

---

Name: RC0040A      From Node: NC0040  
Group: C            To Node: NC0050  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0040A  
Invert(ft): 15.450  
Control Elevation(ft): 15.450  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_019

---

Name: RC0050B      From Node: NC0050

Long Branch BMP Model Results  
Input Data Report Summary

Group: C                      To Node: NC0051  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0050B  
        Invert(ft): 13.510  
Control Elevation(ft): 13.510  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_088

---

Name: RC0050C              From Node: NC0050  
Group: C                      To Node: NC0090  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0050C  
        Invert(ft): 13.980  
Control Elevation(ft): 13.980  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_057

---

Name: RC0051C              From Node: NC0051  
Group: C                      To Node: NC0115  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0051C  
        Invert(ft): 14.440  
Control Elevation(ft): 14.440  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_085

---

Name: RC0060A      From Node: NC0060  
Group: C            To Node: NC0070  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0060A  
Invert(ft): 16.240  
Control Elevation(ft): 16.240  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

362915\_006

---

Name: RC0070B      From Node: NC0070  
Group: C            To Node: NC0080  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0070B  
Invert(ft): 16.070  
Control Elevation(ft): 16.070  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_037

---

Name: RC0100B      From Node: NC0101

Long Branch BMP Model Results  
Input Data Report Summary

Group: C                      To Node: NC0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0100B  
        Invert(ft): 14.130  
Control Elevation(ft): 14.130  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_030

---

Name: RC0101C              From Node: NC0101  
Group: C                      To Node: ND0220  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0101C  
        Invert(ft): 14.160  
Control Elevation(ft): 14.160  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_041

---

Name: RC0102B              From Node: NC0103  
Group: C                      To Node: NC0102  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0102B  
        Invert(ft): 13.350  
Control Elevation(ft): 13.350  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_096

---

Name: RC0104B      From Node: NC0090  
Group: C            To Node: NC0104  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0104B  
Invert(ft): 13.230  
Control Elevation(ft): 13.230  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_093

---

Name: RC0105B      From Node: NC0105  
Group: C            To Node: NC0106  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0105B  
Invert(ft): 14.100  
Control Elevation(ft): 14.100  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_006

---

Name: RC0105C      From Node: NC0105

Long Branch BMP Model Results  
Input Data Report Summary

Group: C                      To Node: ND0220  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0105C  
        Invert(ft): 14.160  
Control Elevation(ft): 14.160  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_031

---

Name: RC0110A              From Node: NC0110  
Group: C                      To Node: NC0160A  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0110A  
        Invert(ft): 15.600  
Control Elevation(ft): 15.600  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_010

---

Name: RC0110B              From Node: NC0110  
Group: C                      To Node: NC0115  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0110B  
        Invert(ft): 15.000  
Control Elevation(ft): 15.000  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_011

---

Name: RC0120B      From Node: NC0120  
Group: C            To Node: NC0161  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0120B  
Invert(ft): 14.220  
Control Elevation(ft): 14.220  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_052

---

Name: RC0130      From Node: NC0130  
Group: C            To Node: NC0161  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0130A  
Invert(ft): 14.000  
Control Elevation(ft): 14.000  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_027

---

Name: RC0140B      From Node: NC0140

Long Branch BMP Model Results  
Input Data Report Summary

Group: C                      To Node: NC0161  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0140B  
        Invert(ft): 13.000  
Control Elevation(ft): 13.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_029

---

Name: RC0140C              From Node: NC0140  
Group: C                      To Node: NC0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0140C  
        Invert(ft): 11.350  
Control Elevation(ft): 11.350  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_049

---

Name: RC0160A              From Node: NC0160A  
Group: C                      To Node: NC0106  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0160A  
        Invert(ft): 0.000  
Control Elevation(ft): 0.000  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RC0160B      From Node: NC0160B  
Group: C            To Node: NC0106  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0160B  
Invert(ft): 0.000  
Control Elevation(ft): 0.000  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RC0170C      From Node: NC0170  
Group: C            To Node: NJ0080  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XC0170C  
Invert(ft): 14.510  
Control Elevation(ft): 14.510  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_025

---

Name: RC0170D      From Node: NC0170

Long Branch BMP Model Results  
Input Data Report Summary

Group: C                      To Node: NC0140  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XC0170D  
        Invert(ft): 13.000  
Control Elevation(ft): 13.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 206.000  
        Orifice Discharge Coef: 0.600

312916\_135

---

Name: RD0010B              From Node: ND0010  
Group: D                      To Node: ND0030  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0010B  
        Invert(ft): 15.181  
Control Elevation(ft): 15.181  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_040

---

Name: RD0020A              From Node: ND0020  
Group: D                      To Node: ND0030  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0020A  
        Invert(ft): 15.070  
Control Elevation(ft): 15.070  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_041

---

Name: RD0030A      From Node: ND0030  
Group: D            To Node: ND0090  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0030A  
Invert(ft): 16.000  
Control Elevation(ft): 16.000  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_039

---

Name: RD0040A      From Node: ND0040  
Group: D            To Node: ND0090  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0040A  
Invert(ft): 16.090  
Control Elevation(ft): 16.090  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

013015\_004

---

Name: RD0040B      From Node: ND0040

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0040B  
        Invert(ft): 14.720  
Control Elevation(ft): 14.720  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_061

---

Name: RD0050B              From Node: ND0050  
Group: D                      To Node: ND0051  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0050B  
        Invert(ft): 14.474  
Control Elevation(ft): 14.474  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_012

---

Name: RD0050C              From Node: ND0050  
Group: D                      To Node: ND0081  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0050C  
        Invert(ft): 13.970  
Control Elevation(ft): 13.970  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_063

---

Name: RD0060A      From Node: ND0060  
Group: D              To Node: NC0090  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0060A  
Invert(ft): 17.940  
Control Elevation(ft): 17.940  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_039

---

Name: RD0060B      From Node: ND0060  
Group: D              To Node: NA0082  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0060B  
Invert(ft): 14.970  
Control Elevation(ft): 14.970  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

013015\_003

---

Name: RD0060C      From Node: ND0060

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: NC0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0060C  
        Invert(ft): 15.700  
Control Elevation(ft): 15.700  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

362915\_007

---

Name: RD0060D              From Node: ND0060  
Group: D                      To Node: NA0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0060D  
        Invert(ft): 16.700  
Control Elevation(ft): 16.700  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

362915\_018

---

Name: RD0060E              From Node: ND0060  
Group: D                      To Node: NA0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0060E  
        Invert(ft): 16.700  
Control Elevation(ft): 16.700  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_123

---

Name: RD0070B      From Node: ND0070  
Group: D            To Node: ND0091  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0070B  
Invert(ft): 12.640  
Control Elevation(ft): 12.640  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_002

---

Name: RD0070C      From Node: ND0070  
Group: D            To Node: NC0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0070C  
Invert(ft): 15.066  
Control Elevation(ft): 15.066  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_027

---

Name: RD0080B      From Node: ND0080

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0081  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0080B  
        Invert(ft): 14.020  
Control Elevation(ft): 14.020  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_030

---

Name: RD0080C              From Node: ND0080  
Group: D                      To Node: ND0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0080C  
        Invert(ft): 14.100  
Control Elevation(ft): 14.100  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_064

---

Name: RD0090B              From Node: ND0090  
Group: D                      To Node: ND0091  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Rectangular

        Span(in): 2224.00  
        Rise(in): 2224.00  
        Invert(ft): 12.000  
Control Elevation(ft): 12.000  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_031

---

Name: RD0100A      From Node: ND0100  
Group: D              To Node: ND0190  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0100A  
Invert(ft): 14.660  
Control Elevation(ft): 14.660  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_035

---

Name: RD0100B      From Node: ND0100  
Group: D              To Node: ND0090  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0100B  
Invert(ft): 15.480  
Control Elevation(ft): 15.480  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_038

---

Name: RD0110B      From Node: ND0110

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0120  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0110B  
        Invert(ft): 15.160  
Control Elevation(ft): 15.160  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_033

---

Name: RD0110C              From Node: ND0110  
Group: D                      To Node: ND0190  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0110C  
        Invert(ft): 15.120  
Control Elevation(ft): 15.120  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_016

---

Name: RD0110D              From Node: ND0110  
Group: D                      To Node: ND0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0110D  
        Invert(ft): 14.850  
Control Elevation(ft): 14.850  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_066

---

Name: RD0120B      From Node: ND0120  
Group: D            To Node: ND0230  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0120B  
Invert(ft): 15.567  
Control Elevation(ft): 15.567  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_029

---

Name: RD0120C      From Node: ND0120  
Group: D            To Node: ND0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0120C  
Invert(ft): 16.400  
Control Elevation(ft): 16.400  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_032

---

Name: RD0130A      From Node: ND0130

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0190  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0130A  
        Invert(ft): 14.100  
Control Elevation(ft): 13.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_011

---

Name: RD0130B              From Node: ND0130  
Group: D                      To Node: ND0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0130B  
        Invert(ft): 14.530  
Control Elevation(ft): 14.530  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

---

Name: RD0130D              From Node: ND0130  
Group: D                      To Node: ND0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0130D  
        Invert(ft): 14.650  
Control Elevation(ft): 14.650  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RD0140A      From Node: ND0140  
Group: D            To Node: ND0150  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0140A  
Invert(ft): 15.280  
Control Elevation(ft): 15.280  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_007

---

Name: RD0150B      From Node: ND0150  
Group: D            To Node: ND0190  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0150B  
Invert(ft): 15.060  
Control Elevation(ft): 15.060  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_065

---

Name: RD0150C      From Node: ND0150

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0260  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0150C  
        Invert(ft): 15.120  
Control Elevation(ft): 15.120  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_068

---

Name: RD0160A              From Node: ND0160  
Group: D                      To Node: ND0260  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0160A  
        Invert(ft): 14.550  
Control Elevation(ft): 14.550  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_037

---

Name: RD0160B              From Node: ND0160  
Group: D                      To Node: ND0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0160B  
        Invert(ft): 14.900  
Control Elevation(ft): 14.900  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_005

---

Name: RD0160C      From Node: ND0160  
Group: D            To Node: ND0190  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XD0160C  
Invert(ft): 15.040  
Control Elevation(ft): 15.040  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_036

---

Name: RD0160D      From Node: ND0160  
Group: D            To Node: ND0170  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XD0160D  
Invert(ft): 15.760  
Control Elevation(ft): 15.760  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_058

---

Name: RD0170B      From Node: ND0170

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0190  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0170B  
        Invert(ft): 15.760  
Control Elevation(ft): 15.760  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_050

---

Name: RD0170C              From Node: ND0170  
Group: D                      To Node: ND0260  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0170C  
        Invert(ft): 15.760  
Control Elevation(ft): 15.760  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_040

---

Name: RD0180B              From Node: ND0180  
Group: D                      To Node: ND0260  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0180B  
        Invert(ft): 14.490  
Control Elevation(ft): 14.490  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_059

---

Name: RD0180C      From Node: ND0180  
Group: D            To Node: ND0270  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XD0180C  
Invert(ft): 14.040  
Control Elevation(ft): 14.040  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_122

---

Name: RD0182B      From Node: ND0182  
Group: D            To Node: NK0160  
Flow: Both          Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XD0182B  
Invert(ft): 14.930  
Control Elevation(ft): 14.930  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_191

---

Name: RD0190B      From Node: ND0190

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0190B  
        Invert(ft): 13.410  
Control Elevation(ft): 13.410  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_003

---

Name: RD0190C              From Node: ND0190  
Group: D                      To Node: ND0180  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0190C  
        Invert(ft): 13.940  
Control Elevation(ft): 13.940  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_015

---

Name: RD0190D              From Node: ND0190  
Group: D                      To Node: ND0231  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0190D  
        Invert(ft): 13.370  
Control Elevation(ft): 13.370  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_017

---

Name: RD0200B      From Node: ND0200  
Group: D            To Node: ND0210  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0200B  
Invert(ft): 14.723  
Control Elevation(ft): 14.723  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_072

---

Name: RD0200C      From Node: ND0200  
Group: D            To Node: ND0230  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0200C  
Invert(ft): 16.390  
Control Elevation(ft): 16.390  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_066

---

Name: RD0210C      From Node: ND0210

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0220  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0210C  
        Invert(ft): 14.906  
Control Elevation(ft): 14.906  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_007

---

Name: RD0210D              From Node: ND0210  
Group: D                      To Node: NC0090  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0210D  
        Invert(ft): 14.989  
Control Elevation(ft): 14.989  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_008

---

Name: RD0210E              From Node: ND0210  
Group: D                      To Node: ND0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0210E  
        Invert(ft): 15.255  
Control Elevation(ft): 15.255  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

063016\_004

---

Name: RD0220A      From Node: ND0220  
Group: D            To Node: ND0290  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0220A  
Invert(ft): 10.550  
Control Elevation(ft): 10.550  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_042

---

Name: RD0220B      From Node: ND0220  
Group: D            To Node: NC0106  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0220B  
Invert(ft): 14.910  
Control Elevation(ft): 14.910  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RD0220C      From Node: ND0220

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0220C  
        Invert(ft): 13.030  
Control Elevation(ft): 13.030  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

---

Name: RD0230B              From Node: ND0230  
Group: D                      To Node: ND0231  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0230B  
        Invert(ft): 13.020  
Control Elevation(ft): 13.020  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

063016\_028

---

Name: RD0240B              From Node: ND0240  
Group: D                      To Node: ND0250  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0240B  
        Invert(ft): 16.900  
Control Elevation(ft): 16.900  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_028

---

Name: RD0240D      From Node: ND0240  
Group: D            To Node: ND0260  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0240D  
Invert(ft): 16.840  
Control Elevation(ft): 16.840  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_064

---

Name: RD0250B      From Node: ND0250  
Group: D            To Node: ND0260  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0250B  
Invert(ft): 16.370  
Control Elevation(ft): 16.370  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_029

---

Name: RD0260B      From Node: ND0260

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: NK0090  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0260B  
        Invert(ft): 14.910  
Control Elevation(ft): 14.910  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_030

---

Name: RD0270A              From Node: ND0270  
Group: D                      To Node: ND0290  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0270A  
        Invert(ft): 11.840  
Control Elevation(ft): 11.840  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

312916\_005

---

Name: RD0270B              From Node: ND0270  
Group: D                      To Node: ND0190  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0270B  
        Invert(ft): 13.440  
Control Elevation(ft): 13.440  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_121

---

Name: RD0280B      From Node: ND0280  
Group: D              To Node: ND0290  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0280B  
Invert(ft): 13.176  
Control Elevation(ft): 13.176  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_003

---

Name: RD0280C      From Node: ND0280  
Group: D              To Node: NC0150  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XD0280C  
Invert(ft): 14.350  
Control Elevation(ft): 14.350  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_036

---

Name: RD0280D      From Node: ND0280

Long Branch BMP Model Results  
Input Data Report Summary

Group: D                      To Node: ND0220  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0280D  
        Invert(ft): 13.850  
Control Elevation(ft): 13.850  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

---

Name: RD0290B              From Node: ND0290  
Group: D                      To Node: NJ0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0290B  
        Invert(ft): 17.590  
Control Elevation(ft): 17.590  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_081

---

Name: RD0290C              From Node: ND0290  
Group: D                      To Node: NC0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XD0290C  
        Invert(ft): 14.360  
Control Elevation(ft): 14.360  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

312916\_133

---

Name: RE0010A      From Node: NE0010  
Group: E            To Node: NE0020  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0010A  
Invert(ft): 15.280  
Control Elevation(ft): 15.280  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_003

---

Name: RE0020B      From Node: NE0020  
Group: E            To Node: NH0091  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0020B  
Invert(ft): 15.450  
Control Elevation(ft): 15.450  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_047

---

Name: RE0030A      From Node: NE0030

Long Branch BMP Model Results  
Input Data Report Summary

Group: E                      To Node: NE0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0030A  
        Invert(ft): 9.650  
Control Elevation(ft): 9.650  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_003

---

Name: RE0030B              From Node: NE0030  
Group: E                      To Node: NG0170  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0030B  
        Invert(ft): 12.920  
Control Elevation(ft): 12.920  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_093

---

Name: RE0030C              From Node: NE0030  
Group: E                      To Node: NE0020  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0030C  
        Invert(ft): 14.990  
Control Elevation(ft): 14.990  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_046

---

Name: RE0030D      From Node: NE0030  
Group: E            To Node: NE0010  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0030D  
Invert(ft): 15.060  
Control Elevation(ft): 15.060  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_002

---

Name: RE0040B      From Node: NE0040  
Group: E            To Node: NG0171  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0040B  
Invert(ft): 6.800  
Control Elevation(ft): 6.800  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_031

---

Name: RE0041B      From Node: NE0041

Long Branch BMP Model Results  
Input Data Report Summary

Group: E                      To Node: NG0171  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0040B  
        Invert(ft): 8.600  
Control Elevation(ft): 8.600  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 3.200  
        Orifice Discharge Coef: 0.600

---

Name: RE0050B              From Node: NE0050  
Group: E                      To Node: NE0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0050B  
        Invert(ft): 10.430  
Control Elevation(ft): 10.430  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_050

---

Name: RE0050C              From Node: NE0050  
Group: E                      To Node: NG0170  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0050C  
        Invert(ft): 10.640  
Control Elevation(ft): 10.640  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_051

---

Name: RE0060B      From Node: NE0060  
Group: E              To Node: NE0070  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0060B  
Invert(ft): 4.255  
Control Elevation(ft): 4.255  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RE0080B      From Node: NE0080  
Group: E              To Node: NG0172  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0080B  
Invert(ft): 7.372  
Control Elevation(ft): 7.372  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_007

---

Name: RE0080C      From Node: NE0080

Long Branch BMP Model Results  
Input Data Report Summary

Group: E                      To Node: NE0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0080C  
        Invert(ft): 7.760  
Control Elevation(ft): 7.760  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

292916\_025

---

Name: RE0090A              From Node: NE0090  
Group: E                      To Node: NF9060  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0090A  
        Invert(ft): 4.380  
Control Elevation(ft): 4.380  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

282916\_004

---

Name: RE0090B              From Node: NE0090  
Group: E                      To Node: NE0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XE0090B  
        Invert(ft): 4.960  
Control Elevation(ft): 4.960  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

282916\_011

---

Name: RE0100B      From Node: NE0100  
Group: E              To Node: NE0090  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0100B  
Invert(ft): 6.920  
Control Elevation(ft): 6.920  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

282916\_010

---

Name: RE0100C      From Node: NE0100  
Group: E              To Node: NF0060  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XE0100C  
Invert(ft): 7.872  
Control Elevation(ft): 7.872  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

282916\_009

---

Name: RF0010B      From Node: NF0010

Long Branch BMP Model Results  
Input Data Report Summary

Group: F                      To Node: NF0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0010B  
        Invert(ft): 10.945  
Control Elevation(ft): 10.945  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

332916\_001

---

Name: RF0011B              From Node: NF0011  
Group: F                      To Node: NH0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0011B  
        Invert(ft): 11.990  
Control Elevation(ft): 11.990  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_130

---

Name: RF0020A              From Node: NF0020  
Group: F                      To Node: NG0172  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0020A  
        Invert(ft): 8.970  
Control Elevation(ft): 8.970  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_001

---

Name: RF0030A      From Node: NF0030  
Group: F            To Node: NF0042  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XF0030A  
Invert(ft): 5.850  
Control Elevation(ft): 5.850  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_009

---

Name: RF0040A      From Node: NF0040  
Group: F            To Node: NF0042  
Flow: Both        Count: 1  
Type: Horizontal    Geometry: Rectangular

Span(in): 5.00  
Rise(in): 4.00  
Invert(ft): 8.210  
Control Elevation(ft): 8.210

TABLE

Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

282916\_008

---

Name: RF0040B      From Node: NF0040

Long Branch BMP Model Results  
Input Data Report Summary

Group: F                      To Node: NF0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0040B  
        Invert(ft): 7.780  
Control Elevation(ft): 7.780  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

282916\_001

---

Name: RF0040C              From Node: NF0040  
Group: F                      To Node: NF0042  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0040C  
        Invert(ft): 8.990  
Control Elevation(ft): 8.990  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

282916\_002

---

Name: RF0040D              From Node: NF0040  
Group: F                      To Node: NF0060  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0040D  
        Invert(ft): 4.980  
Control Elevation(ft): 4.980  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

282916\_031

---

Name: RF0050B      From Node: NF0050  
Group: F            To Node: NF0060  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XF0050B  
Invert(ft): 7.000  
Control Elevation(ft): 7.000  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

282916\_003

---

Name: RF0060B      From Node: NF0060  
Group: F            To Node: NE0070  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XF0060B  
Invert(ft): 4.200  
Control Elevation(ft): 4.200  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RF0061B      From Node: NF0061

Long Branch BMP Model Results  
Input Data Report Summary

Group: F                      To Node: NF0062  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XF0050B  
        Invert(ft): 4.400  
Control Elevation(ft): 4.400  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RG0010B              From Node: NG0010  
Group: G                      To Node: NG0060  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0010B  
        Invert(ft): 17.400  
Control Elevation(ft): 17.400  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_014

---

Name: RG0010C              From Node: NG0010  
Group: G                      To Node: NG0020  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0010C  
        Invert(ft): 15.540  
Control Elevation(ft): 15.540  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_024

---

Name: RG0020B      From Node: NG0020  
Group: G            To Node: NG0040  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0020B  
Invert(ft): 17.268  
Control Elevation(ft): 17.268  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

292916\_011

---

Name: RG0030A      From Node: NG0030  
Group: G            To Node: NG0040  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0030A  
Invert(ft): 12.040  
Control Elevation(ft): 12.040  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_055

---

Name: RG0030B      From Node: NG0030

Long Branch BMP Model Results  
Input Data Report Summary

Group: G                      To Node: NG0130  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0030B  
        Invert(ft): 17.030  
Control Elevation(ft): 17.030  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_089

---

Name: RG0040A              From Node: NG0040  
Group: G                      To Node: NG0060  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0040A  
        Invert(ft): 15.500  
Control Elevation(ft): 15.500  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_090

---

Name: RG0040B              From Node: NG0040  
Group: G                      To Node: NG0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0040B  
        Invert(ft): 15.940  
Control Elevation(ft): 15.940  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_054

---

Name: RG0050A      From Node: NG0050  
Group: G              To Node: NG0160  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0050A  
Invert(ft): 16.000  
Control Elevation(ft): 16.000  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_101

---

Name: RG0050B      From Node: NG0050  
Group: G              To Node: NH0091  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0050B  
Invert(ft): 16.210  
Control Elevation(ft): 16.210  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_092

---

Name: RG0050C      From Node: NG0050

Long Branch BMP Model Results  
Input Data Report Summary

Group: G                      To Node: NE0010  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0050C  
        Invert(ft): 16.840  
Control Elevation(ft): 16.840  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_002

---

Name: RG0060C              From Node: NG0060  
Group: G                      To Node: NG0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0060C  
        Invert(ft): 14.810  
Control Elevation(ft): 14.810  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_045

---

Name: RG0060D              From Node: NG0060  
Group: G                      To Node: NG0160  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0060D  
        Invert(ft): 14.530  
Control Elevation(ft): 14.530  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_014

---

Name: RG0060E      From Node: NG0060  
Group: G              To Node: NG0140  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0060E  
Invert(ft): 15.630  
Control Elevation(ft): 15.630  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_070

---

Name: RG0070A      From Node: NG0070  
Group: G              To Node: NG0130  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0070A  
Invert(ft): 13.260  
Control Elevation(ft): 13.260  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_098

---

Name: RG0080B      From Node: NG0080

Long Branch BMP Model Results  
Input Data Report Summary

Group: G To Node: NG0130  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Irregular

XSec: XG0080B  
Invert(ft): 14.260  
Control Elevation(ft): 14.260  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_013

---

Name: RG0090B From Node: NG0090  
Group: G To Node: NG0120  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Irregular

XSec: XG0090B  
Invert(ft): 12.440  
Control Elevation(ft): 12.440  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_119

---

Name: RG0090C From Node: NG0090  
Group: G To Node: NJ0261  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Irregular

XSec: XG0090C  
Invert(ft): 12.590  
Control Elevation(ft): 12.590  
Struct Opening Dim(ft): 9999.00  
TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_120

---

Name: RG0090D      From Node: NG0090  
Group: G            To Node: NG0150  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0090D  
Invert(ft): 12.920  
Control Elevation(ft): 12.920  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_196

---

Name: RG0100B      From Node: NG0100  
Group: G            To Node: NG0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0100B  
Invert(ft): 11.700  
Control Elevation(ft): 11.700  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_042

---

Name: RG0110B      From Node: NG0110

Long Branch BMP Model Results  
Input Data Report Summary

Group: G                      To Node: NG0121  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0110B  
        Invert(ft): 14.000  
Control Elevation(ft): 14.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_067

---

Name: RG0110C              From Node: NG0110  
Group: G                      To Node: NG0130  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0110C  
        Invert(ft): 13.990  
Control Elevation(ft): 13.990  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_015

---

Name: RG0110D              From Node: NG0110  
Group: G                      To Node: NG0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0110D  
        Invert(ft): 13.980  
Control Elevation(ft): 13.980  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_194

---

Name: RG0120A      From Node: NG0120  
Group: G            To Node: NG0140  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0120A  
Invert(ft): 13.250  
Control Elevation(ft): 13.250  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_069

---

Name: RG0121B      From Node: NG0121  
Group: G            To Node: NG0100  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0121B  
Invert(ft): 12.520  
Control Elevation(ft): 12.520  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_136

---

Name: RG0130B      From Node: NG0130

Long Branch BMP Model Results  
Input Data Report Summary

Group: G                      To Node: NG0140  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0130B  
        Invert(ft): 14.610  
Control Elevation(ft): 14.610  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_102

---

Name: RG0130C              From Node: NG0130  
Group: G                      To Node: NG0120  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0130C  
        Invert(ft): 14.140  
Control Elevation(ft): 14.140  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_192

---

Name: RG0140B              From Node: NG0140  
Group: G                      To Node: NG0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0140B  
        Invert(ft): 13.276  
Control Elevation(ft): 13.276  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_065

---

Name: RG0160A      From Node: NG0160  
Group: G            To Node: NH0070  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0160A  
Invert(ft): 9.370  
Control Elevation(ft): 9.370  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_126

---

Name: RG0170B      From Node: NG0170  
Group: G            To Node: NG0171  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XG0170B  
Invert(ft): 7.500  
Control Elevation(ft): 7.500  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_001

---

Name: RG0170C      From Node: NG0170

Long Branch BMP Model Results  
Input Data Report Summary

Group: G                      To Node: NH0051  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XG0170B  
        Invert(ft): 8.110  
Control Elevation(ft): 0.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 3.200  
        Orifice Discharge Coef: 0.600

---

Name: RH0010B              From Node: NH0010  
Group: H                      To Node: NH0011  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0010B  
        Invert(ft): 11.200  
Control Elevation(ft): 11.200  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_086

---

Name: RH0010C              From Node: NH0010  
Group: H                      To Node: NH0020  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0010C  
        Invert(ft): 13.060  
Control Elevation(ft): 13.060  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_116

---

Name: RH0010D      From Node: NH0010  
Group: H            To Node: NH0030  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XH0010D  
Invert(ft): 13.160  
Control Elevation(ft): 13.160  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_193

---

Name: RH0020A      From Node: NH0020  
Group: H            To Node: NH0030  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XH0020A  
Invert(ft): 13.110  
Control Elevation(ft): 13.110  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_060

---

Name: RH0020B      From Node: NH0020

Long Branch BMP Model Results  
Input Data Report Summary

Group: H                      To Node: NH0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0020B  
        Invert(ft): 13.210  
Control Elevation(ft): 13.210  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_058

---

Name: RH0020C              From Node: NH0020  
Group: H                      To Node: NH0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0020C  
        Invert(ft): 13.450  
Control Elevation(ft): 13.450  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_064

---

Name: RH0030A              From Node: NH0030  
Group: H                      To Node: NH0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0030A  
        Invert(ft): 13.310  
Control Elevation(ft): 13.310  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_059

---

Name: RH0030B      From Node: NH0030  
Group: H            To Node: NH0071  
Flow: Both         Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XH0030B  
Invert(ft): 13.500  
Control Elevation(ft): 13.500  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_061

---

Name: RH0040A      From Node: NH0040  
Group: H            To Node: NH0090  
Flow: Both         Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XH0040A  
Invert(ft): 11.660  
Control Elevation(ft): 11.660  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_057

---

Name: RH0040B      From Node: NH0040

Long Branch BMP Model Results  
Input Data Report Summary

Group: H                      To Node: NH0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0040B  
        Invert(ft): 11.860  
Control Elevation(ft): 11.860  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_056

---

Name: RH0050B              From Node: NH0050  
Group: H                      To Node: NG0171  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0050B  
        Invert(ft): 7.720  
Control Elevation(ft): 7.720  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_181

---

Name: RH0050C              From Node: NH0050  
Group: H                      To Node: NG0170  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0050C  
        Invert(ft): 6.320  
Control Elevation(ft): 6.320  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_053

---

Name: RH0050D      From Node: NH0050  
Group: H            To Node: NF0030  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XH0050D  
Invert(ft): 11.200  
Control Elevation(ft): 11.200  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_077

---

Name: RH0051B      From Node: NH0051  
Group: H            To Node: NF0061  
Flow: Both          Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XH0050C  
Invert(ft): 8.900  
Control Elevation(ft): 8.900  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RH0070B      From Node: NH0070

Long Branch BMP Model Results  
Input Data Report Summary

Group: H                      To Node: NH0091  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0070B  
        Invert(ft): 9.800  
Control Elevation(ft): 9.800  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_188

---

Name: RH0080B              From Node: NH0080  
Group: H                      To Node: NH0091  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0080B  
        Invert(ft): 9.000  
Control Elevation(ft): 9.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_094

---

Name: RH0080D              From Node: NH0080  
Group: H                      To Node: NH0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XH0080D  
        Invert(ft): 11.120  
Control Elevation(ft): 11.120  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_112

---

Name: RH0165B      From Node: NH0165  
Group: H              To Node: NG0170  
Flow: Both            Count: 1  
Type: Vertical: Mavis      Geometry: Rectangular

Span(in): 50.00  
Rise(in): 9999.00  
Invert(ft): 3.000  
Control Elevation(ft): 3.000  
TABLE  
Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RJ0010A      From Node: NJ0010  
Group: J              To Node: NJ0020  
Flow: Both            Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XJ0010A  
Invert(ft): 14.300  
Control Elevation(ft): 14.300  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RJ0010B      From Node: NJ0010

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NK0160  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0010B  
        Invert(ft): 14.200  
Control Elevation(ft): 14.200  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_103

---

Name: RJ0020A              From Node: NJ0020  
Group: J                      To Node: NJ0030  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0020A  
        Invert(ft): 12.630  
Control Elevation(ft): 12.630  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_023

---

Name: RJ0020B              From Node: NJ0020  
Group: J                      To Node: NJ0010  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0010A  
        Invert(ft): 14.200  
Control Elevation(ft): 14.200  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_024

---

Name: RJ0030B      From Node: NJ0030  
Group: J              To Node: NJ0140  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0030B  
Invert(ft): 10.750  
Control Elevation(ft): 10.750  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RJ0030D      From Node: NJ0101  
Group: J              To Node: NJ0030  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0030D  
Invert(ft): 7.600  
Control Elevation(ft): 7.600  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RJ0040B      From Node: NJ0040

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0040B  
        Invert(ft): 11.870  
Control Elevation(ft): 11.870  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_141

---

Name: RJ0040C              From Node: NJ0040  
Group: J                      To Node: NJ0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0040C  
        Invert(ft): 13.400  
Control Elevation(ft): 13.400  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_021

---

Name: RJ0060B              From Node: NJ0060  
Group: J                      To Node: NJ0050  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0060B  
        Invert(ft): 14.350  
Control Elevation(ft): 14.350  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RJ0090B      From Node: NJ0090  
Group: J              To Node: NJ0100  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0090B  
Invert(ft): 12.220  
Control Elevation(ft): 12.220  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_028

---

Name: RJ0090C      From Node: NJ0090  
Group: J              To Node: NJ0141  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0090C  
Invert(ft): 13.220  
Control Elevation(ft): 13.220  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RJ0090D      From Node: NJ0090

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0090D  
        Invert(ft): 14.290  
Control Elevation(ft): 14.290  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_154

---

Name: RJ0090E              From Node: NJ0090  
Group: J                      To Node: NJ0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0090E  
        Invert(ft): 14.000  
Control Elevation(ft): 14.000  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_027

---

Name: RJ0090F              From Node: NJ0090  
Group: J                      To Node: NJ0060  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0090F  
        Invert(ft): 13.860  
Control Elevation(ft): 13.860  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_029

---

Name: RJ0090G      From Node: NJ0090  
Group: J              To Node: NJ0080  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0090G  
Invert(ft): 13.800  
Control Elevation(ft): 13.800  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_195

---

Name: RJ0090H      From Node: NJ0090  
Group: J              To Node: NJ0050  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0090H  
Invert(ft): 13.763  
Control Elevation(ft): 13.763  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_197

---

Name: RJ0101W      From Node: NJ0101

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0140  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Rectangular

Span(in): 50.00  
Rise(in): 9999.00  
Invert(ft): 8.670  
Control Elevation(ft): 8.670  
TABLE  
Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RJ0101WW              From Node: NJ0101  
Group: J                      To Node: NJ0141  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XJ0101B  
Invert(ft): 11.830  
Control Elevation(ft): 11.830  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

---

Name: RJ0110A              From Node: NJ0110  
Group: J                      To Node: NJ0120  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

XSec: XJ0110A  
Invert(ft): 11.990  
Control Elevation(ft): 11.990  
Struct Opening Dim(ft): 9999.00  
TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_011

---

Name: RJ0120A      From Node: NJ0120  
Group: J              To Node: NJ0140  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0120A  
Invert(ft): 12.440  
Control Elevation(ft): 12.440  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_012

---

Name: RJ0121B      From Node: NJ0121  
Group: J              To Node: NJ0140  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Rectangular

Span(in): 50.00  
Rise(in): 9999.00  
Invert(ft): 8.180  
Control Elevation(ft): 8.180

TABLE

Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: RJ0130D      From Node: NJ0130

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0141  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0130D  
        Invert(ft): 13.350  
Control Elevation(ft): 13.350  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_018

---

Name: RJ0150A              From Node: NJ0150  
Group: J                      To Node: NJ0160  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0150A  
        Invert(ft): 15.170  
Control Elevation(ft): 15.170  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_085

---

Name: RJ0160A              From Node: NJ0160  
Group: J                      To Node: NJ0200  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0160A  
        Invert(ft): 11.520  
Control Elevation(ft): 11.520  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_083

---

Name: RJ0160C      From Node: NJ0160  
Group: J              To Node: NJ0210  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0160C  
Invert(ft): 14.400  
Control Elevation(ft): 14.400  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_186

---

Name: RJ0170B      From Node: NJ0170  
Group: J              To Node: NJ0190  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0170B  
Invert(ft): 14.253  
Control Elevation(ft): 14.253  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_074

---

Name: RJ0170D      From Node: NJ0170

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0170D  
        Invert(ft): 14.800  
Control Elevation(ft): 14.800  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_180

---

Name: RJ0190A              From Node: NJ0190  
Group: J                      To Node: NJ0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0190A  
        Invert(ft): 14.460  
Control Elevation(ft): 14.460  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_071

---

Name: RJ0200A              From Node: NJ0200  
Group: J                      To Node: NJ0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0200A  
        Invert(ft): 13.880  
Control Elevation(ft): 13.880  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_073

---

Name: RJ0210B      From Node: NJ0210  
Group: J              To Node: NJ0130  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0210B  
Invert(ft): 13.690  
Control Elevation(ft): 13.690  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_004

---

Name: RJ0210C      From Node: NJ0210  
Group: J              To Node: NJ0220  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0210C  
Invert(ft): 12.580  
Control Elevation(ft): 12.580  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_009

---

Name: RJ0210D      From Node: NJ0210

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0200  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0210D  
        Invert(ft): 14.638  
Control Elevation(ft): 14.638  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_106

---

Name: RJ0210E              From Node: NJ0210  
Group: J                      To Node: NJ0230  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0210E  
        Invert(ft): 13.880  
Control Elevation(ft): 13.880  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_187

---

Name: RJ0220A              From Node: NJ0220  
Group: J                      To Node: NJ0240  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0220A  
        Invert(ft): 13.480  
Control Elevation(ft): 13.480  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_189

---

Name: RJ0230B      From Node: NJ0230  
Group: J              To Node: NJ0220  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0230B  
Invert(ft): 12.680  
Control Elevation(ft): 12.680  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_105

---

Name: RJ0240B      From Node: NJ0240  
Group: J              To Node: NJ0250  
Flow: Both            Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XJ0240B  
Invert(ft): 12.610  
Control Elevation(ft): 12.610  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_114

---

Name: RJ0240D      From Node: NJ0240

Long Branch BMP Model Results  
Input Data Report Summary

Group: J                      To Node: NJ0130  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0240D  
        Invert(ft): 13.840  
Control Elevation(ft): 13.840  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_008

---

Name: RJ0260C              From Node: NJ0260  
Group: J                      To Node: NJ0250  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XJ0260C  
        Invert(ft): 13.600  
Control Elevation(ft): 13.600  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

322916\_007

---

Name: RK0010A              From Node: NK0010  
Group: K                      To Node: NK0030  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0010A  
        Invert(ft): 15.879  
Control Elevation(ft): 15.879  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_026

---

Name: RK0010B      From Node: NK0010  
Group: K            To Node: NK0040  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0010B  
Invert(ft): 16.092  
Control Elevation(ft): 16.092  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_025

---

Name: RK0010C      From Node: NK0010  
Group: K            To Node: NK0020  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0010C  
Invert(ft): 16.191  
Control Elevation(ft): 16.191  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_027

---

Name: RK0020A      From Node: NK0020

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: NK0040  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0020A  
        Invert(ft): 16.004  
Control Elevation(ft): 16.004  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_021

---

Name: RK0020B              From Node: NK0020  
Group: K                      To Node: ND0250  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0020B  
        Invert(ft): 16.030  
Control Elevation(ft): 16.030  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_002

---

Name: RK0030A              From Node: NK0030  
Group: K                      To Node: NK0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0030A  
        Invert(ft): 15.670  
Control Elevation(ft): 15.670  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_017

---

Name: RK0030B      From Node: NK0030  
Group: K            To Node: NK0140  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0030B  
Invert(ft): 15.740  
Control Elevation(ft): 15.740  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_055

---

Name: RK0040A      From Node: NK0040  
Group: K            To Node: NK0080  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0040A  
Invert(ft): 15.730  
Control Elevation(ft): 15.730  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_023

---

Name: RK0040B      From Node: NK0040

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: NK0140  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0040B  
        Invert(ft): 15.230  
Control Elevation(ft): 15.230  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_020

---

Name: RK0040C              From Node: NK0040  
Group: K                      To Node: NK0030  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0040C  
        Invert(ft): 15.760  
Control Elevation(ft): 15.760  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_069

---

Name: RK0050A              From Node: NK0050  
Group: K                      To Node: NK0070  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0050A  
        Invert(ft): 15.255  
Control Elevation(ft): 15.255  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_001

---

Name: RK0060A      From Node: NK0060  
Group: K            To Node: NK0070  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0060A  
Invert(ft): 15.890  
Control Elevation(ft): 15.890  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_019

---

Name: RK0070A      From Node: NK0070  
Group: K            To Node: NK0150  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0070A  
Invert(ft): 14.860  
Control Elevation(ft): 14.860  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_005

---

Name: RK0070B      From Node: NK0070

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: NJ0110  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0070B  
        Invert(ft): 15.530  
Control Elevation(ft): 15.530  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_024

---

Name: RK0080A              From Node: NK0080  
Group: K                      To Node: NK0090  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0080A  
        Invert(ft): 15.980  
Control Elevation(ft): 15.980  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_018

---

Name: RK0080B              From Node: NK0080  
Group: K                      To Node: NK0140  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0080B  
        Invert(ft): 14.970  
Control Elevation(ft): 14.970  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_056

---

Name: RK0080C      From Node: NK0080  
Group: K            To Node: NK0120  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0080C  
Invert(ft): 15.250  
Control Elevation(ft): 15.250  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_058

---

Name: RK0090A      From Node: NK0090  
Group: K            To Node: NK0091  
Flow: Both        Count: 1  
Type: Horizontal    Geometry: Rectangular

Span(in): 16.00  
Rise(in): 2.00  
Invert(ft): 9.670  
Control Elevation(ft): 9.670

TABLE

Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

053016\_065

---

Name: RK0090B      From Node: NK0090

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: ND0250  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0090B  
        Invert(ft): 15.942  
Control Elevation(ft): 15.942  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_031

---

Name: RK0100B              From Node: NK0100  
Group: K                      To Node: NK0160  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0100B  
        Invert(ft): 14.360  
Control Elevation(ft): 14.360  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_008

---

Name: RK0100C              From Node: NK0100  
Group: K                      To Node: NK0150  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0100C  
        Invert(ft): 14.840  
Control Elevation(ft): 14.840  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_014

---

Name: RK0100D      From Node: NK0100  
Group: K            To Node: NK0110  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0100D  
Invert(ft): 14.750  
Control Elevation(ft): 14.750  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_003

---

Name: RK0100E      From Node: NK0100  
Group: K            To Node: NK0090  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0100E  
Invert(ft): 14.551  
Control Elevation(ft): 14.551  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_067

---

Name: RK0100F      From Node: NK0100

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: NK0120  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0100F  
        Invert(ft): 14.726  
Control Elevation(ft): 14.726  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_059

---

Name: RK0110B              From Node: NK0120  
Group: K                      To Node: NK0110  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0110B  
        Invert(ft): 15.039  
Control Elevation(ft): 15.039  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_015

---

Name: RK0110C              From Node: NK0110  
Group: K                      To Node: NK0090  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0110C  
        Invert(ft): 15.480  
Control Elevation(ft): 15.480  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_013

---

Name: RK0130B      From Node: NK0130  
Group: K            To Node: NK0150  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0130B  
Invert(ft): 13.910  
Control Elevation(ft): 13.910  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_007

---

Name: RK0130C      From Node: NK0130  
Group: K            To Node: NK0120  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0130C  
Invert(ft): 14.060  
Control Elevation(ft): 14.060  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_006

---

Name: RK0130D      From Node: NK0130

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: NK0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0130D  
        Invert(ft): 15.020  
Control Elevation(ft): 15.020  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_034

---

Name: RK0130E              From Node: NK0130  
Group: K                      To Node: NK0080  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0130E  
        Invert(ft): 14.930  
Control Elevation(ft): 14.930  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_038

---

Name: RK0130F              From Node: NK0130  
Group: K                      To Node: NK0140  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0130F  
        Invert(ft): 15.020  
Control Elevation(ft): 15.020  
Struct Opening Dim(ft): 9999.00  
                TABLE



Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_057

---

Name: RK0140B      From Node: NK0140  
Group: K            To Node: NK0150  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0140B  
Invert(ft): 14.559  
Control Elevation(ft): 14.559  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_036

---

Name: RK0150C      From Node: NK0150  
Group: K            To Node: NK0161  
Flow: Both        Count: 1  
Type: Vertical: Mavis    Geometry: Irregular

XSec: XK0150C  
Invert(ft): 15.400  
Control Elevation(ft): 15.400  
Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

053016\_022

---

Name: RK0160B      From Node: NK0160

Long Branch BMP Model Results  
Input Data Report Summary

Group: K                      To Node: NK0161  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0160B  
        Invert(ft): 15.060  
Control Elevation(ft): 15.060  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_016

---

Name: RK0160C              From Node: NK0160  
Group: K                      To Node: NJ0020  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0160C  
        Invert(ft): 14.200  
Control Elevation(ft): 14.200  
Struct Opening Dim(ft): 9999.00  
                TABLE  
        Bottom Clip(ft): 0.000  
        Top Clip(ft): 0.000  
        Weir Discharge Coef: 2.600  
        Orifice Discharge Coef: 0.600

053016\_004

---

Name: RK0160D              From Node: NK0160  
Group: K                      To Node: NJ0100  
Flow: Both                      Count: 1  
Type: Vertical: Mavis      Geometry: Irregular

        XSec: XK0160D  
        Invert(ft): 15.000  
Control Elevation(ft): 15.000  
Struct Opening Dim(ft): 9999.00  
                TABLE

Long Branch BMP Model Results  
Input Data Report Summary

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.600  
Orifice Discharge Coef: 0.600

322916\_190

=====  
==== Hydrology Simulations =====  
=====

Name: LB\_100Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_100Y.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 12.00

Time(hrs)      Print Inc(min)

-----  
48.000      5.00

-----  
Name: LB\_10Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_10Y.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 7.50

Time(hrs)      Print Inc(min)

-----  
48.000      5.00

-----  
Name: LB\_233Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_233Y.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 4.70

Long Branch BMP Model Results  
Input Data Report Summary

Time(hrs)      Print Inc(min)

-----  
48.000      5.00

-----  
Name: LB\_25Y

Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_25YR.R32

Override Defaults: Yes

Storm Duration(hrs): 24.00

Rainfall File: Flmod

Rainfall Amount(in): 9.00

Time(hrs)      Print Inc(min)

-----  
48.000      5.00

-----  
Name: LB\_50Y

Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_50Y.R32

Override Defaults: Yes

Storm Duration(hrs): 24.00

Rainfall File: Flmod

Rainfall Amount(in): 10.50

Time(hrs)      Print Inc(min)

-----  
48.000      5.00

-----  
Name: LB\_5YR

Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_5Y.R32

Override Defaults: Yes

Storm Duration(hrs): 24.00

Rainfall File: Flmod

Rainfall Amount(in): 6.00

Time(hrs)      Print Inc(min)

-----  
48.000      5.00

=====  
==== Routing Simulations =====

Long Branch BMP Model Results  
Input Data Report Summary

=====

Name: LB\_BMP\_100Y      Hydrology Sim: LB\_100Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_100Y.I32

Execute: Yes      Restart: No      Patch: No  
Alternative: No

Max Delta Z(ft): 0.05      Delta Z Factor: 0.00500  
Time Step Optimizer: 10.000  
Start Time(hrs): 0.000      End Time(hrs): 48.00  
Min Calc Time(sec): 0.2500      Max Calc Time(sec): 60.0000  
Boundary Stages:      Boundary Flows:

Time(hrs)      Print Inc(min)

-----  
48.000      15.000

Group      Run

-----  
A      Yes  
B      Yes  
C      Yes  
D      Yes  
E      Yes  
F      Yes  
G      Yes  
H      Yes  
J      Yes  
K      Yes

-----

Name: LB\_BMP\_10Y      Hydrology Sim: LB\_10Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_10Y.I32

Execute: Yes      Restart: No      Patch: No  
Alternative: No

Max Delta Z(ft): 0.05      Delta Z Factor: 0.00500  
Time Step Optimizer: 10.000  
Start Time(hrs): 0.000      End Time(hrs): 48.00  
Min Calc Time(sec): 0.2500      Max Calc Time(sec): 60.0000

Long Branch BMP Model Results  
Input Data Report Summary

Boundary Stages:

Boundary Flows:

Time(hrs)    Print Inc(min)

-----  
48.000      15.000

Group      Run

-----  
A      Yes  
B      Yes  
C      Yes  
D      Yes  
E      Yes  
F      Yes  
G      Yes  
H      Yes  
J      Yes  
K      Yes

-----  
Name: LB\_BMP\_233Y      Hydrology Sim: LB\_233Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_233Y.I32

Execute: Yes      Restart: No      Patch: No  
Alternative: No

Max Delta Z(ft): 0.05      Delta Z Factor: 0.00500  
Time Step Optimizer: 10.000  
Start Time(hrs): 0.000      End Time(hrs): 48.00  
Min Calc Time(sec): 0.2500      Max Calc Time(sec): 60.0000  
Boundary Stages:      Boundary Flows:

Time(hrs)    Print Inc(min)

-----  
48.000      15.000

Group      Run

-----  
A      Yes  
B      Yes

Long Branch BMP Model Results  
Input Data Report Summary

C Yes  
D Yes  
E Yes  
F Yes  
G Yes  
H Yes  
J Yes  
K Yes

Name: LB\_BMP\_25Y Hydrology Sim: LB\_25Y  
Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_25Y.I32

Execute: Yes Restart: No Patch: No  
Alternative: No

Max Delta Z(ft): 0.05 Delta Z Factor: 0.00500  
Time Step Optimizer: 10.000  
Start Time(hrs): 0.000 End Time(hrs): 48.00  
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000  
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)

48.000 15.000

Group Run

A Yes  
B Yes  
C Yes  
D Yes  
E Yes  
F Yes  
G Yes  
H Yes  
J Yes  
K Yes

Name: LB\_BMP\_50Y Hydrology Sim: LB\_50Y

Long Branch BMP Model Results  
Input Data Report Summary

Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_50Y.I32

Execute: Yes      Restart: No      Patch: No

Alternative: No

Max Delta Z(ft): 0.05

Delta Z Factor: 0.00500

Time Step Optimizer: 10.000

Start Time(hrs): 0.000

End Time(hrs): 48.00

Min Calc Time(sec): 0.2500

Max Calc Time(sec): 60.0000

Boundary Stages:

Boundary Flows:

Time(hrs)      Print Inc(min)

48.000      15.000

Group      Run

A      Yes

B      Yes

C      Yes

D      Yes

E      Yes

F      Yes

G      Yes

H      Yes

J      Yes

K      Yes

Name: LB\_BMP\_5Y      Hydrology Sim: LB\_5YR

Filename: E:\FLUTY\LONG BRANCH\Modeling\ICPR\LongBranch-BMP-Model\LB\_BMP\_5Y.I32

Execute: Yes      Restart: No      Patch: No

Alternative: No

Max Delta Z(ft): 0.05

Delta Z Factor: 0.00500

Time Step Optimizer: 10.000

Start Time(hrs): 0.000

End Time(hrs): 48.00

Min Calc Time(sec): 0.2500

Max Calc Time(sec): 60.0000

Boundary Stages:

Boundary Flows:



Long Branch BMP Model Results  
Input Data Report Summary

Time(hrs)      Print Inc(min)

48.000      15.000

Group      Run

A      Yes  
B      Yes  
C      Yes  
D      Yes  
E      Yes  
F      Yes  
G      Yes  
H      Yes  
J      Yes  
K      Yes

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NA0010	A	LB_BMP_100Y	14.23	17.83	12.33	22.87	14.23	7.26
NA0020	A	LB_BMP_100Y	24.45	15.78	12.08	120.62	40.82	4.37
NA0030	A	LB_BMP_100Y	15.78	17.16	12.08	74.67	27.19	6.24
NA0040	A	LB_BMP_100Y	12.13	16.91	12.08	45.77	12.13	44.11
NA0050	A	LB_BMP_100Y	12.45	17.06	12.18	20.03	0	0
NA0060	A	LB_BMP_100Y	12.34	17.63	12.25	8.03	12.33	7.94
NA0070	A	LB_BMP_100Y	12.6	17.03	12.26	18.44	12.31	17.47
NA0080	A	LB_BMP_100Y	12.65	17.31	12.17	252.66	12.65	130.38
NA0081	A	LB_BMP_100Y	12.76	16.42	12.67	128.96	12.67	128.89
NA0082	A	LB_BMP_100Y	12.92	16.02	12.43	120.07	12.47	116.9
NB0010	B	LB_BMP_100Y	12.47	17.59	12.08	10.85	12.55	5.71
NB0020	B	LB_BMP_100Y	12.13	17.42	12	38.97	12.12	32.43
NB0030	B	LB_BMP_100Y	12.26	15.71	12.25	42.39	12.26	42.35
NB0040	B	LB_BMP_100Y	12.11	18.07	12	41.26	12.11	39
NB0050	B	LB_BMP_100Y	12.21	15.23	12.17	128.5	12.21	153.05
NB0051	B	LB_BMP_100Y	12.17	15.22	12.21	38.6	11.86	23.61
NB0055	B	LB_BMP_100Y	12.27	14.8	12.2	103.78	12.28	103.04
NB0060	B	LB_BMP_100Y	12.53	17.95	12.08	33.49	12.53	9.4
NB0070	B	LB_BMP_100Y	12.09	17.47	12.03	19.73	12.09	19.64
NB0080	B	LB_BMP_100Y	13.63	17.05	13.17	63.09	13.63	59.81
NB0090	B	LB_BMP_100Y	12.27	14.77	12.22	209.31	12.27	208.57
NC0010	C	LB_BMP_100Y	12.14	17.32	12.13	62.18	12.15	62.03
NC0020	C	LB_BMP_100Y	15.55	15.55	12.17	87.28	12.25	77.45
NC0021	C	LB_BMP_100Y	15.56	15.55	12.27	102.18	12.35	79.48
NC0022	C	LB_BMP_100Y	15.56	15.54	13.1	124.67	13.11	124.33
NC0030	C	LB_BMP_100Y	15.46	15.56	12.33	30.23	12.43	29.37
NC0031	C	LB_BMP_100Y	15.53	15.55	12.43	29.37	12.45	27.37
NC0040	C	LB_BMP_100Y	13.66	16.11	13.56	70.23	13.66	69.83
NC0050	C	LB_BMP_100Y	15.59	15.52	13.6	100.92	16.5	52.21
NC0051	C	LB_BMP_100Y	15.6	15.51	13.55	158.97	13.55	157.73
NC0060	C	LB_BMP_100Y	12.1	16.86	12	15.25	12.1	14.78
NC0070	C	LB_BMP_100Y	14.03	16.03	12.11	133.9	29.59	7.94
NC0080	C	LB_BMP_100Y	15.56	15.55	12.3	187.38	12.4	17.78
NC0090	C	LB_BMP_100Y	15.56	15.53	12.48	355.22	15.48	79.25
NC0100	C	LB_BMP_100Y	15.66	14.82	14.12	73.88	14.13	73.6
NC0101	C	LB_BMP_100Y	15.51	14.85	15.66	82.1	15.69	82.13
NC0102	C	LB_BMP_100Y	15.57	15.22	15.59	79.23	15.66	79.25
NC0103	C	LB_BMP_100Y	15.57	15.23	15.54	79.23	15.59	79.23
NC0104	C	LB_BMP_100Y	15.56	15.52	15.48	79.25	15.54	79.23

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NC0105	C	LB_BMP_100Y	15.94	14.76	14.09	75.25	14.2	71.65
NC0106	C	LB_BMP_100Y	16.06	14.72	0	57172.8	0.21	1681.91
NC0110	C	LB_BMP_100Y	15.61	15.51	12.33	2.74	12.34	2.73
NC0115	C	LB_BMP_100Y	15.61	15.51	13.55	161.22	14.46	85.27
NC0120	C	LB_BMP_100Y	16.08	14.71	12	26.55	12.09	24.19
NC0130	C	LB_BMP_100Y	16.11	14.71	12.25	11.94	19.68	2.46
NC0140	C	LB_BMP_100Y	16.07	14.71	25.04	106.67	28.02	7.19
NC0150	C	LB_BMP_100Y	16.06	14.71	12.12	14.64	28.02	1.67
NC0160	C	LB_BMP_100Y	16.06	14.72	0.21	1671.17	12.78	5318.16
NC0160A	C	LB_BMP_100Y	16.06	14.72	0	0	0	17898.22
NC0160B	C	LB_BMP_100Y	16.06	14.72	12.33	10.03	0	39274.56
NC0161	C	LB_BMP_100Y	16.07	14.71	12.78	5322.62	0.13	1550.87
NC0170	C	LB_BMP_100Y	16.07	14.71	0.13	1550.87	0.56	345.24
ND0010	D	LB_BMP_100Y	13.1	16.31	12.08	6.32	13.25	0.97
ND0020	D	LB_BMP_100Y	13.1	16.31	12	2.4	11.96	2.18
ND0030	D	LB_BMP_100Y	13.1	16.31	12.12	34.41	13.1	8.67
ND0040	D	LB_BMP_100Y	13.8	15.86	12.47	111.5	12.46	108.8
ND0050	D	LB_BMP_100Y	13.82	15.85	12.49	163.61	12.58	151.25
ND0051	D	LB_BMP_100Y	13.83	15.87	12.36	115.36	12.39	106.75
ND0060	D	LB_BMP_100Y	12.9	16.03	12	34.57	12.21	21.44
ND0070	D	LB_BMP_100Y	14.12	15.75	12.67	118.22	12.73	77.77
ND0080	D	LB_BMP_100Y	13.95	15.8	12.39	122.24	10.31	113.96
ND0081	D	LB_BMP_100Y	13.95	15.8	12.41	231.7	12.44	216.56
ND0090	D	LB_BMP_100Y	14.15	15.78	13.25	177.71	14.76	151.76
ND0091	D	LB_BMP_100Y	14.12	15.75	13.42	232.79	13.64	228.39
ND0100	D	LB_BMP_100Y	12.79	15.07	12.27	104.84	12.79	51.33
ND0110	D	LB_BMP_100Y	14.35	15.25	12.83	38.86	14.26	23.02
ND0120	D	LB_BMP_100Y	15.37	14.91	12	38.12	12.28	15.98
ND0130	D	LB_BMP_100Y	12.7	15.03	12.17	160.54	12.25	127.08
ND0140	D	LB_BMP_100Y	12.37	15.46	12.25	3.65	12.37	3.57
ND0150	D	LB_BMP_100Y	12.7	15.05	12.04	44.79	11.66	3.82
ND0160	D	LB_BMP_100Y	12.62	15.23	12.08	24.57	12.21	22.2
ND0170	D	LB_BMP_100Y	12.83	15.69	12	33.28	12.1	8.39
ND0180	D	LB_BMP_100Y	15.36	14.85	13.67	17.55	13.75	15.95
ND0181	D	LB_BMP_100Y	15.02	14.78	12.26	10.29	12.49	8.68
ND0182	D	LB_BMP_100Y	15.74	14.51	12.51	8.86	12.88	7.56
ND0190	D	LB_BMP_100Y	15.29	14.89	12.38	202.56	12.16	98.18
ND0200	D	LB_BMP_100Y	15.2	14.91	12.33	6.73	12.32	6.3
ND0210	D	LB_BMP_100Y	12.66	15.09	12.25	41.87	12.59	28.92

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
ND0220	D	LB_BMP_100Y	15.42	14.84	12.5	111.93	19.07	54.46
ND0230	D	LB_BMP_100Y	15.29	14.89	12.17	187.47	12.2	126.05
ND0231	D	LB_BMP_100Y	15.31	14.88	12.48	165.82	12.51	154.31
ND0240	D	LB_BMP_100Y	12.7	15.3	12.17	9.04	12.73	5.89
ND0250	D	LB_BMP_100Y	12.7	15.36	12.1	54.22	12.68	21.17
ND0260	D	LB_BMP_100Y	12.71	15.24	12.17	31.29	12.51	17.11
ND0270	D	LB_BMP_100Y	15.4	14.84	12.33	81.24	12	56.18
ND0280	D	LB_BMP_100Y	15.42	14.83	12.08	21.36	12.09	21.3
ND0290	D	LB_BMP_100Y	15.41	14.84	13.08	429.17	13.15	416.94
NE0010	E	LB_BMP_100Y	12.62	15.48	12.06	20.24	12.62	0.92
NE0020	E	LB_BMP_100Y	12.22	13.15	12	27.93	12.22	22.22
NE0030	E	LB_BMP_100Y	12.86	11.72	12.92	34.85	12.94	35
NE0040	E	LB_BMP_100Y	15.1	9.38	12.42	50.72	13.1	74.14
NE0041	E	LB_BMP_100Y	15.11	9.38	13.17	12.07	17.35	12.64
NE0050	E	LB_BMP_100Y	12.98	10.92	12.67	83.69	12.26	82.18
NE0060	E	LB_BMP_100Y	13.11	5.85	12	45.06	12.03	29.72
NE0070	E	LB_BMP_100Y	13.11	5.85	12.03	42.33	0	0
NE0080	E	LB_BMP_100Y	12.28	8.1	12.17	46.68	12.27	44.41
NE0090	E	LB_BMP_100Y	12.48	5.17	12.37	62.9	12.44	60.91
NE0100	E	LB_BMP_100Y	12.45	7.55	12.29	34.84	12.45	32.05
NE9070	E	LB_BMP_100Y	0	0.7	13.11	14.04	0	0
NF0010	F	LB_BMP_100Y	12.48	11.3	12.33	20.93	12.48	20
NF0011	F	LB_BMP_100Y	12.59	10.52	12.24	8.82	12.57	7.22
NF0012	F	LB_BMP_100Y	12.77	9.18	12.57	7.22	12.73	7.19
NF0020	F	LB_BMP_100Y	24.3	9.06	12.17	15.45	24.3	0.21
NF0030	F	LB_BMP_100Y	12.38	6.83	12.29	20.81	12.38	20.45
NF0040	F	LB_BMP_100Y	12.46	6.03	12.08	240.13	12.49	160.82
NF0042	F	LB_BMP_100Y	15.16	4.55	15.12	927.23	15.2	927.26
NF0050	F	LB_BMP_100Y	12.18	8.28	12	44.98	12.18	29.46
NF0060	F	LB_BMP_100Y	14.11	2.27	14.43	1016.15	14.48	1017.37
NF0061	F	LB_BMP_100Y	15.11	9.19	15.09	57.34	15.14	57.34
NF0062	F	LB_BMP_100Y	15.11	9.18	15.05	915.48	15.1	915.37
NF9060	F	LB_BMP_100Y	0	0.7	13.7	1105.69	0	0
NG0010	G	LB_BMP_100Y	13.01	16.26	12.25	20.72	12.98	10.32
NG0020	G	LB_BMP_100Y	13.02	16.26	12	75.03	12.08	8.2
NG0030	G	LB_BMP_100Y	12.89	16.06	12.33	48.23	12.91	33.22
NG0040	G	LB_BMP_100Y	12.87	15.99	12.83	77.47	12.87	77.28
NG0050	G	LB_BMP_100Y	12.93	16.29	12.42	21.22	12.93	16.29
NG0060	G	LB_BMP_100Y	12.79	15.5	12.75	129.45	12.79	129.16

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NG0070	G	LB_BMP_100Y	12.08	13.84	12.08	38.56	12.08	38.53
NG0080	G	LB_BMP_100Y	16.85	11.08	12.08	96.31	24.36	23.6
NG0090	G	LB_BMP_100Y	15.35	12.3	12.08	21.37	12.23	12.46
NG0100	G	LB_BMP_100Y	15.36	12.3	12	3.57	21.13	1.03
NG0110	G	LB_BMP_100Y	16.82	11.08	12.5	35.64	12.5	35.42
NG0120	G	LB_BMP_100Y	26.17	12.22	12.17	15.76	0	0
NG0121	G	LB_BMP_100Y	15.36	12.3	0	0	27.96	0.25
NG0130	G	LB_BMP_100Y	12.51	13.24	12.14	141.05	12.4	92.59
NG0140	G	LB_BMP_100Y	12.58	12.02	12.38	107.12	12.48	102.87
NG0150	G	LB_BMP_100Y	14.93	10.88	12.54	244.94	12.54	242.76
NG0160	G	LB_BMP_100Y	14.94	10.62	12.92	91.73	13.14	86.23
NG0170	G	LB_BMP_100Y	15.1	9.46	13.1	786.03	19.18	921.9
NG0171	G	LB_BMP_100Y	15.11	9.37	19.18	962.96	15.04	858.19
NG0172	G	LB_BMP_100Y	15.14	7.37	15.09	919.56	15.14	919.46
NH0010	H	LB_BMP_100Y	12.62	11.11	12.25	37.27	12.62	27.71
NH0011	H	LB_BMP_100Y	14.31	10.34	12.62	27.71	12.94	23
NH0020	H	LB_BMP_100Y	13.89	13.37	12.17	86.02	14.03	2.87
NH0030	H	LB_BMP_100Y	13.82	13.36	12.17	16.53	13.82	0.22
NH0040	H	LB_BMP_100Y	12.29	12.17	12	49.07	12.29	35.36
NH0050	H	LB_BMP_100Y	15.1	9.43	12.83	99.44	12.59	73.07
NH0051	H	LB_BMP_100Y	15.11	9.45	15.06	57.35	15.09	57.34
NH0060	H	LB_BMP_100Y	14.99	10.86	14.99	659.83	15.1	660.01
NH0070	H	LB_BMP_100Y	14.96	10.61	14.7	731.43	14.84	728.66
NH0071	H	LB_BMP_100Y	15.08	10.09	12.85	631.19	13	591.12
NH0080	H	LB_BMP_100Y	15.1	9.61	12.25	36.19	45.35	39.32
NH0090	H	LB_BMP_100Y	15.09	9.99	12.91	646.03	13.09	598.35
NH0091	H	LB_BMP_100Y	15.1	9.61	14.91	769.56	15.1	768.35
NH0165	H	LB_BMP_100Y	15.11	9.4	12.03	8.08	11.89	7.05
NJ0010	J	LB_BMP_100Y	12.11	14.57	12	9.08	12.11	6.87
NJ0020	J	LB_BMP_100Y	12.34	13.81	12.08	84.23	12.35	68.63
NJ0030	J	LB_BMP_100Y	15.56	13.2	13.07	301.38	13.11	257.8
NJ0040	J	LB_BMP_100Y	15.85	14.5	12.08	21.3	12.01	17.53
NJ0050	J	LB_BMP_100Y	15.8	14.48	1.2	24.53	1.2	18.73
NJ0060	J	LB_BMP_100Y	15.77	14.45	12	18.78	3.15	14.21
NJ0070	J	LB_BMP_100Y	15.52	13.15	15.76	38.38	16.13	39.76
NJ0080	J	LB_BMP_100Y	15.86	14.51	0.45	337.36	0.53	321.21
NJ0090	J	LB_BMP_100Y	15.76	14.46	12.75	72.14	12.8	61.45
NJ0100	J	LB_BMP_100Y	15.76	14.47	13.4	414.03	13.83	404.95
NJ0101	J	LB_BMP_100Y	15.56	13.21	13.83	404.95	13.84	400.63

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NJ0110	J	LB_BMP_100Y	12.77	12.6	12.75	51.27	12.77	51.15
NJ0120	J	LB_BMP_100Y	25.4	11.92	12.52	35.23	0	0
NJ0121	J	LB_BMP_100Y	25.39	11.92	42.34	6.78	30.57	31.68
NJ0130	J	LB_BMP_100Y	14.54	13.96	13.39	138.39	14.31	102.83
NJ0140	J	LB_BMP_100Y	15.56	13.18	24.2	303.16	24.29	306.45
NJ0141	J	LB_BMP_100Y	15.5	13.14	16.54	513.29	16.76	518.28
NJ0150	J	LB_BMP_100Y	13.06	15.43	12.5	33.32	13.06	24.96
NJ0160	J	LB_BMP_100Y	13.53	14.69	13.07	111	13.43	99.58
NJ0170	J	LB_BMP_100Y	12.83	15.15	12.58	48.29	12.92	45.16
NJ0190	J	LB_BMP_100Y	12.82	15.14	12.64	44.69	12.82	43.81
NJ0200	J	LB_BMP_100Y	13.53	14.68	13.21	93	13.44	89.2
NJ0210	J	LB_BMP_100Y	13.97	14.26	12.17	56.78	12.4	65.52
NJ0220	J	LB_BMP_100Y	13.94	14.27	13.88	94.65	13.94	94.47
NJ0230	J	LB_BMP_100Y	13.91	14.31	13.34	113.61	13.79	94.68
NJ0240	J	LB_BMP_100Y	13.94	13.18	13.88	126.74	13.9	126.61
NJ0250	J	LB_BMP_100Y	15.25	12.78	15.1	594.4	22.57	668.2
NJ0260	J	LB_BMP_100Y	15.21	12.8	12.75	13.32	12.76	13.07
NJ0261	J	LB_BMP_100Y	15.23	12.29	22.57	670.73	15.37	596.25
NK0010	K	LB_BMP_100Y	13.56	16.3	12.5	30.51	13.58	16.2
NK0020	K	LB_BMP_100Y	12.08	16.22	12	19.96	12.08	19.75
NK0030	K	LB_BMP_100Y	12.94	16.07	12.75	50.19	12.94	49.76
NK0040	K	LB_BMP_100Y	12.34	15.88	12	96.08	12.33	62.97
NK0050	K	LB_BMP_100Y	13	15.75	12.67	26.45	13.02	24.63
NK0060	K	LB_BMP_100Y	12.48	16.45	12.25	33.13	12.48	30.61
NK0070	K	LB_BMP_100Y	12.98	15.69	12.58	136.25	12.9	122.85
NK0080	K	LB_BMP_100Y	13.14	15.48	12.04	13.9	12.2	2.85
NK0090	K	LB_BMP_100Y	12.75	15.22	12.14	17.06	31.6	1.52
NK0091	K	LB_BMP_100Y	15.74	14.51	31.6	1.52	28.02	1.9
NK0100	K	LB_BMP_100Y	13.13	15.07	13.05	11.43	13.19	11.42
NK0110	K	LB_BMP_100Y	13.22	15.24	12.36	17.92	0	0
NK0120	K	LB_BMP_100Y	13.15	15.46	12.45	72.31	13.12	25.46
NK0130	K	LB_BMP_100Y	13.15	15.46	12.08	14.37	13.63	4.02
NK0140	K	LB_BMP_100Y	13.13	15.49	12.24	99.65	12.41	81.29
NK0150	K	LB_BMP_100Y	13.14	15.48	12.43	147.57	13.14	14.1
NK0160	K	LB_BMP_100Y	13.15	14.48	13.11	231.57	13.15	231.3
NK0161	K	LB_BMP_100Y	38.83	11.64	13.14	232.2	42.34	6.78
NA0010	A	LB_BMP_50Y	14.82	17.72	12.33	19.24	14.82	4.28
NA0020	A	LB_BMP_50Y	24.48	15.2	12.08	104.45	39.49	3.85

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NA0030	A	LB_BMP_50Y	15.7	16.68	12.08	64.63	26.1	5.89
NA0040	A	LB_BMP_50Y	12.14	16.89	12.08	39.85	12.14	38.06
NA0050	A	LB_BMP_50Y	12.59	17.04	12.28	18.73	0	0
NA0060	A	LB_BMP_50Y	12.36	17.6	12.25	6.89	12.35	6.77
NA0070	A	LB_BMP_50Y	12.68	16.99	12.29	15.69	12.35	14.58
NA0080	A	LB_BMP_50Y	12.73	17.24	12.17	234.14	12.73	101
NA0081	A	LB_BMP_50Y	12.79	16.3	12.74	98.63	12.75	98.56
NA0082	A	LB_BMP_50Y	13.31	15.78	12.62	104.7	12.66	102.19
NB0010	B	LB_BMP_50Y	12.53	17.44	12.08	9.36	12.61	4.48
NB0020	B	LB_BMP_50Y	12.22	17.35	12	37.02	12.2	23.02
NB0030	B	LB_BMP_50Y	12.27	15.68	12.25	36.51	12.27	36.47
NB0040	B	LB_BMP_50Y	12.13	18.05	12	35.45	12.13	32.47
NB0050	B	LB_BMP_50Y	12.23	15.17	12.17	110.85	12.21	109.43
NB0051	B	LB_BMP_50Y	12.23	15.17	11.75	23.92	11.93	23.54
NB0055	B	LB_BMP_50Y	12.28	14.7	12.22	89.67	12.28	88.78
NB0060	B	LB_BMP_50Y	12.75	17.9	12.08	28.85	12.75	6.72
NB0070	B	LB_BMP_50Y	12.09	17.45	12.08	16.84	12.09	16.77
NB0080	B	LB_BMP_50Y	13.93	17.02	13.17	53.9	13.93	47.74
NB0090	B	LB_BMP_50Y	12.28	14.67	12.25	179.17	12.28	178.21
NC0010	C	LB_BMP_50Y	12.26	17.28	12.24	44.59	12.27	44.47
NC0020	C	LB_BMP_50Y	13.38	15.25	12.26	70	12.32	60.52
NC0021	C	LB_BMP_50Y	13.42	15.24	12.36	83.89	12.39	62.94
NC0022	C	LB_BMP_50Y	15.52	15.2	13.21	90.29	13.23	89.98
NC0030	C	LB_BMP_50Y	12.47	15.48	12.42	25.96	12.47	25.58
NC0031	C	LB_BMP_50Y	13.37	15.26	12.47	25.58	12.45	24.2
NC0040	C	LB_BMP_50Y	14.12	16.05	13.87	55.37	14.12	53.72
NC0050	C	LB_BMP_50Y	15.62	15.17	14.06	74.36	16.5	45.26
NC0051	C	LB_BMP_50Y	15.62	15.16	14.09	117.2	14.09	116.53
NC0060	C	LB_BMP_50Y	12.1	16.82	12	13.1	12.1	12.67
NC0070	C	LB_BMP_50Y	15.68	15.42	12.12	115.99	28.97	6.88
NC0080	C	LB_BMP_50Y	13.42	15.24	12.33	154.49	12.48	16.99
NC0090	C	LB_BMP_50Y	15.57	15.18	12.5	305.11	13.05	66.99
NC0100	C	LB_BMP_50Y	15.76	14.61	13.69	62.15	13.78	61.56
NC0101	C	LB_BMP_50Y	15.68	14.64	15.55	65.98	15.59	65.95
NC0102	C	LB_BMP_50Y	15.63	14.93	13.16	64.26	15.55	63.46
NC0103	C	LB_BMP_50Y	15.63	14.94	13.12	65.7	13.16	64.26
NC0104	C	LB_BMP_50Y	15.57	15.17	13.05	66.99	13.12	65.7
NC0105	C	LB_BMP_50Y	16	14.54	13.69	63.2	14.85	58.56
NC0106	C	LB_BMP_50Y	16.62	14.47	0	57172.8	0.21	1681.91

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NC0110	C	LB_BMP_50Y	15.64	15.15	12.33	2.35	12.34	2.34
NC0115	C	LB_BMP_50Y	15.64	15.15	14.09	118.08	14.69	78.61
NC0120	C	LB_BMP_50Y	16.64	14.46	12	23.11	12.04	21.77
NC0130	C	LB_BMP_50Y	16.76	14.46	12.25	10.36	19.47	2.21
NC0140	C	LB_BMP_50Y	16.64	14.46	23.16	106.65	26.47	7
NC0150	C	LB_BMP_50Y	16.63	14.46	13.09	10.05	26.47	1.63
NC0160	C	LB_BMP_50Y	16.63	14.47	0.21	1671.17	23.16	8818.3
NC0160A	C	LB_BMP_50Y	16.63	14.47	0	0	0	17898.22
NC0160B	C	LB_BMP_50Y	16.63	14.47	12.33	8.57	0	39274.56
NC0161	C	LB_BMP_50Y	16.64	14.46	23.16	8820.22	0.13	1550.87
NC0170	C	LB_BMP_50Y	16.64	14.46	0.13	1550.87	0.56	345.24
ND0010	D	LB_BMP_50Y	14.22	16.23	12.08	5.44	14.34	0.42
ND0020	D	LB_BMP_50Y	14.22	16.23	12	2.07	12.02	2.06
ND0030	D	LB_BMP_50Y	14.22	16.23	12.07	31.6	14.22	3.34
ND0040	D	LB_BMP_50Y	14.05	15.65	12.55	88.64	12.53	88.04
ND0050	D	LB_BMP_50Y	14.07	15.64	12.58	118.66	12.36	111.23
ND0051	D	LB_BMP_50Y	13.96	15.66	12.52	99.84	12.55	92.99
ND0060	D	LB_BMP_50Y	13.18	15.8	12	27.41	12.32	14.32
ND0070	D	LB_BMP_50Y	14.31	15.58	12.79	86.37	13	55.29
ND0080	D	LB_BMP_50Y	14.18	15.61	12.55	107.33	10.93	116.2
ND0081	D	LB_BMP_50Y	14.18	15.61	12.56	190.68	12.59	177.75
ND0090	D	LB_BMP_50Y	14.34	15.6	13.58	158.82	14.82	146.91
ND0091	D	LB_BMP_50Y	14.31	15.58	13.76	222.18	13.97	219.34
ND0100	D	LB_BMP_50Y	12.91	15.03	12.39	100.59	12.91	38.04
ND0110	D	LB_BMP_50Y	14.73	15.16	12.83	33.42	14.6	17.35
ND0120	D	LB_BMP_50Y	15.52	14.69	12	32.96	12.15	15.01
ND0130	D	LB_BMP_50Y	12.81	14.97	12.17	138.4	12.13	110.7
ND0140	D	LB_BMP_50Y	12.38	15.45	12.25	3.13	12.38	3.06
ND0150	D	LB_BMP_50Y	12.8	15	12.11	45.31	11.86	4.1
ND0160	D	LB_BMP_50Y	12.26	15.2	12.08	21.1	12.23	19.39
ND0170	D	LB_BMP_50Y	12.74	15.54	12	28.67	12.17	8.31
ND0180	D	LB_BMP_50Y	15.5	14.64	14.12	12.14	14.2	11.51
ND0181	D	LB_BMP_50Y	14.81	14.54	12.38	10.04	12.6	8.77
ND0182	D	LB_BMP_50Y	15.71	14.35	12.6	9.05	12.73	7.94
ND0190	D	LB_BMP_50Y	15.47	14.68	12.48	178.02	12.28	100.55
ND0200	D	LB_BMP_50Y	15.41	14.68	12.33	5.8	12.36	5.54
ND0210	D	LB_BMP_50Y	12.82	14.81	12.25	36.13	12.44	25.2
ND0220	D	LB_BMP_50Y	15.55	14.63	12.42	93.97	18.32	42.21
ND0230	D	LB_BMP_50Y	15.46	14.68	12.28	183.07	12.59	127.81



Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
ND0231	D	LB_BMP_50Y	15.47	14.67	12.66	169.63	12.69	160.83
ND0240	D	LB_BMP_50Y	12.81	15.19	12.17	7.63	12.86	4.42
ND0250	D	LB_BMP_50Y	12.81	15.22	12.17	49.13	12.81	15.68
ND0260	D	LB_BMP_50Y	12.81	15.15	12.25	26.58	12.71	13.32
ND0270	D	LB_BMP_50Y	15.54	14.63	12.08	64.57	12.01	51.25
ND0280	D	LB_BMP_50Y	15.55	14.62	12.08	18.01	12.09	17.93
ND0290	D	LB_BMP_50Y	15.55	14.62	13.19	407.63	13.27	396.6
NE0010	E	LB_BMP_50Y	12.7	15.46	12.17	25.15	12.7	0.61
NE0020	E	LB_BMP_50Y	12.21	12.82	12	24.11	12.2	19.44
NE0030	E	LB_BMP_50Y	12.84	11.52	12.92	29.96	12.92	29.97
NE0040	E	LB_BMP_50Y	14.66	8.81	12.42	43.71	13.68	58.03
NE0041	E	LB_BMP_50Y	14.69	8.83	13.78	11.31	13.68	12.55
NE0050	E	LB_BMP_50Y	13.34	10.66	12.75	71.62	12.4	82.09
NE0060	E	LB_BMP_50Y	13.16	5.73	12	39.09	12.11	20.8
NE0070	E	LB_BMP_50Y	13.16	5.73	12.11	40.54	0	0
NE0080	E	LB_BMP_50Y	12.31	8.05	12.17	40.24	12.31	37.47
NE0090	E	LB_BMP_50Y	12.5	5.12	12.39	50.08	12.47	48.31
NE0100	E	LB_BMP_50Y	12.49	7.46	12.33	27.71	12.49	25.14
NE9070	E	LB_BMP_50Y	0	0.7	13.16	13.55	0	0
NF0010	F	LB_BMP_50Y	12.58	11.26	12.33	17.68	12.57	15.95
NF0011	F	LB_BMP_50Y	12.69	10.51	12.35	8.71	12.67	7.15
NF0012	F	LB_BMP_50Y	12.86	9.17	12.67	7.15	12.85	7.12
NF0020	F	LB_BMP_50Y	25.83	8.67	12.17	13.16	0	0
NF0030	F	LB_BMP_50Y	12.52	6.73	12.39	17.25	12.52	16.77
NF0040	F	LB_BMP_50Y	12.53	5.94	12.08	207.86	12.57	124.15
NF0042	F	LB_BMP_50Y	14.65	4.28	14.64	785.51	14.73	785.63
NF0050	F	LB_BMP_50Y	12.19	8.22	12	41.56	12.19	27.03
NF0060	F	LB_BMP_50Y	13.75	2.15	13.73	883.58	14.08	884.59
NF0061	F	LB_BMP_50Y	14.68	8.63	15.34	42.76	13.68	43.92
NF0062	F	LB_BMP_50Y	14.68	8.63	14.62	772.98	14.68	772.93
NF9060	F	LB_BMP_50Y	0	0.7	13.71	972.68	0	0
NG0010	G	LB_BMP_50Y	13.02	16.09	12.25	17.87	13.03	8.81
NG0020	G	LB_BMP_50Y	13.03	16.1	12	73.37	12.11	8.26
NG0030	G	LB_BMP_50Y	12.98	16.01	12.33	41.35	13.03	26.42
NG0040	G	LB_BMP_50Y	12.95	15.96	12.91	62.23	12.95	62.06
NG0050	G	LB_BMP_50Y	13.15	16.26	12.42	18.27	13.15	12.07
NG0060	G	LB_BMP_50Y	12.87	15.44	12.82	106.31	12.87	106.07
NG0070	G	LB_BMP_50Y	12.08	13.81	12.08	33.23	12.08	33.19
NG0080	G	LB_BMP_50Y	17.32	10.67	12.08	82.9	22.27	22.7

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NG0090	G	LB_BMP_50Y	15.91	11.92	12.08	18.24	12.23	11.09
NG0100	G	LB_BMP_50Y	15.93	11.92	12	2.91	21.29	1.06
NG0110	G	LB_BMP_50Y	17.31	10.67	12.5	30.57	12.5	30.38
NG0120	G	LB_BMP_50Y	26.17	11.53	12.17	13.4	0	0
NG0121	G	LB_BMP_50Y	15.92	11.92	0	0	21.39	0.27
NG0130	G	LB_BMP_50Y	12.47	12.27	12.18	121.32	12.38	82.24
NG0140	G	LB_BMP_50Y	12.55	11.33	12.37	94.63	12.43	90.77
NG0150	G	LB_BMP_50Y	15.83	10.56	12.55	199.63	12.57	197.77
NG0160	G	LB_BMP_50Y	15.7	10.35	13.03	77.35	13.06	74.75
NG0170	G	LB_BMP_50Y	14.68	8.91	13.58	715.69	16.82	923.39
NG0171	G	LB_BMP_50Y	14.67	8.81	16.82	965.55	16.83	736.17
NG0172	G	LB_BMP_50Y	14.68	6.94	14.6	777.58	14.68	777.49
NH0010	H	LB_BMP_50Y	12.64	10.89	12.25	31.68	12.63	23.36
NH0011	H	LB_BMP_50Y	13.42	9.85	12.63	23.36	12.91	19.18
NH0020	H	LB_BMP_50Y	15.62	13.29	12.17	73.16	15.79	0.72
NH0030	H	LB_BMP_50Y	15.52	13.29	12.17	14.17	0	0
NH0040	H	LB_BMP_50Y	12.44	12.12	12	41.98	12.44	22.15
NH0050	H	LB_BMP_50Y	14.65	8.89	12.83	84.03	12.59	65.86
NH0051	H	LB_BMP_50Y	14.68	8.89	13.79	43.08	15.34	42.76
NH0060	H	LB_BMP_50Y	15.82	10.55	16.02	573.96	16.09	574.51
NH0070	H	LB_BMP_50Y	15.74	10.33	15.74	616.68	15.88	617.31
NH0071	H	LB_BMP_50Y	15.02	9.65	13.05	582.7	16.93	571.56
NH0080	H	LB_BMP_50Y	14.72	9.03	12.25	30.64	37.79	39.32
NH0090	H	LB_BMP_50Y	14.92	9.52	13.14	596.87	16.87	586.05
NH0091	H	LB_BMP_50Y	14.75	9.02	15.88	647.49	16.83	656.02
NH0165	H	LB_BMP_50Y	14.69	8.84	12.09	8.51	12	7.46
NJ0010	J	LB_BMP_50Y	12.12	14.55	12	7.86	12.12	5.72
NJ0020	J	LB_BMP_50Y	12.45	13.67	12.08	72.27	12.46	50.7
NJ0030	J	LB_BMP_50Y	16.01	12.86	13.24	280.17	13.55	249.78
NJ0040	J	LB_BMP_50Y	15.94	14.34	12.08	17.78	12.06	14.97
NJ0050	J	LB_BMP_50Y	15.89	14.33	1.2	24.53	1.2	18.73
NJ0060	J	LB_BMP_50Y	15.87	14.28	1.2	18.73	3.15	14.21
NJ0070	J	LB_BMP_50Y	15.94	12.71	12.08	25.97	16.65	24.35
NJ0080	J	LB_BMP_50Y	15.95	14.35	0.45	337.36	0.53	321.21
NJ0090	J	LB_BMP_50Y	15.84	14.31	12.75	62.21	12.75	53.23
NJ0100	J	LB_BMP_50Y	15.84	14.32	14.14	406.04	14.38	400.47
NJ0101	J	LB_BMP_50Y	16.01	12.87	14.38	400.47	14.68	398.09
NJ0110	J	LB_BMP_50Y	12.72	12.55	12.67	42.38	12.72	42.26
NJ0120	J	LB_BMP_50Y	26.11	11.33	12.51	29	0	0

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NJ0121	J	LB_BMP_50Y	26.1	11.33	41.77	3.55	30.35	14.21
NJ0130	J	LB_BMP_50Y	15.06	13.81	13.72	116.82	14.84	86.83
NJ0140	J	LB_BMP_50Y	16.01	12.84	21.75	284.96	21.77	288.75
NJ0141	J	LB_BMP_50Y	15.93	12.7	16.16	473.21	16.53	476.15
NJ0150	J	LB_BMP_50Y	13.37	15.4	12.5	28.65	13.37	17.77
NJ0160	J	LB_BMP_50Y	13.77	14.63	13.26	89.45	13.62	78.46
NJ0170	J	LB_BMP_50Y	12.93	15.11	12.58	41.55	12.96	36.79
NJ0190	J	LB_BMP_50Y	12.92	15.1	12.72	37.73	12.92	36.95
NJ0200	J	LB_BMP_50Y	13.77	14.62	13.4	79.12	13.68	75.67
NJ0210	J	LB_BMP_50Y	14.41	14.16	12.25	49.96	12.75	41.85
NJ0220	J	LB_BMP_50Y	14.31	14.19	14.23	58.78	14.31	58.65
NJ0230	J	LB_BMP_50Y	14.26	14.23	12.91	96.3	13.41	74.43
NJ0240	J	LB_BMP_50Y	14.25	13.09	14.18	84.11	14.21	84.02
NJ0250	J	LB_BMP_50Y	15.82	12.31	15.59	534.5	20.48	665.21
NJ0260	J	LB_BMP_50Y	15.8	12.32	12.75	11.26	12.75	11.04
NJ0261	J	LB_BMP_50Y	15.83	11.91	20.48	667.85	15.85	535.23
NK0010	K	LB_BMP_50Y	13.94	16.25	12.5	26.38	13.96	11.4
NK0020	K	LB_BMP_50Y	12.09	16.21	12	17.23	12.09	17.03
NK0030	K	LB_BMP_50Y	12.8	16.03	12.5	41.99	12.8	39.01
NK0040	K	LB_BMP_50Y	12.47	15.81	12	82.72	12.45	41.08
NK0050	K	LB_BMP_50Y	13.08	15.69	12.67	22.5	13.03	20.26
NK0060	K	LB_BMP_50Y	12.57	16.43	12.25	28.43	12.57	24.44
NK0070	K	LB_BMP_50Y	13.12	15.63	12.65	112.89	12.96	97.18
NK0080	K	LB_BMP_50Y	13.43	15.4	12.14	14.64	12.37	2.73
NK0090	K	LB_BMP_50Y	12.85	15.14	12.26	15.72	30.51	1.53
NK0091	K	LB_BMP_50Y	15.71	14.35	30.51	1.53	26.48	1.9
NK0100	K	LB_BMP_50Y	13.4	15	13.29	7.48	13.46	7.43
NK0110	K	LB_BMP_50Y	13.57	15.17	12.58	13.54	0	0
NK0120	K	LB_BMP_50Y	13.43	15.38	12.62	57.4	13.39	17.76
NK0130	K	LB_BMP_50Y	13.43	15.39	12.08	12.23	14.05	3.08
NK0140	K	LB_BMP_50Y	13.42	15.41	12.44	72.94	12.59	59.92
NK0150	K	LB_BMP_50Y	13.42	15.4	12.6	116.85	13.34	13.26
NK0160	K	LB_BMP_50Y	13.41	13.57	13.39	163.69	13.4	163.66
NK0161	K	LB_BMP_50Y	39.97	11.15	13.42	176.55	41.77	3.55
NA0010	A	LB_BMP_25Y	16.61	17.58	12.33	15.63	16.61	1.62
NA0020	A	LB_BMP_25Y	24.56	14.58	12.08	88.2	38.3	3.24
NA0030	A	LB_BMP_25Y	15.54	16.17	12.08	54.54	24.78	5.48
NA0040	A	LB_BMP_25Y	12.17	16.86	12.08	34.15	12.17	31.74

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NA0050	A	LB_BMP_25Y	12.83	17.01	12.33	15.82	0	0
NA0060	A	LB_BMP_25Y	12.41	17.57	12.25	5.75	12.4	5.54
NA0070	A	LB_BMP_25Y	12.82	16.95	12.33	12.86	12.39	11.47
NA0080	A	LB_BMP_25Y	12.87	17.16	12.17	213.61	12.87	70.65
NA0081	A	LB_BMP_25Y	12.98	16.12	12.88	67.79	12.89	67.62
NA0082	A	LB_BMP_25Y	13.75	15.43	12.89	75.2	12.91	73.41
NB0010	B	LB_BMP_25Y	12.62	17.31	12.08	7.87	12.72	3.15
NB0020	B	LB_BMP_25Y	12.37	17.27	12.01	35.37	12.35	13.74
NB0030	B	LB_BMP_25Y	12.27	15.65	12.25	30.59	12.27	30.57
NB0040	B	LB_BMP_25Y	12.19	18.01	12	29.62	12.19	24.47
NB0050	B	LB_BMP_25Y	12.26	15.11	12.2	91.38	12.25	90.56
NB0051	B	LB_BMP_25Y	12.26	15.1	11.81	23.8	12.01	23.33
NB0055	B	LB_BMP_25Y	12.33	14.57	12.25	74.02	12.32	72.44
NB0060	B	LB_BMP_25Y	13.17	17.83	12.08	24.18	13.17	3.62
NB0070	B	LB_BMP_25Y	12.09	17.42	12.08	13.9	12.09	13.84
NB0080	B	LB_BMP_25Y	14.42	16.98	13.25	44.03	14.42	34.67
NB0090	B	LB_BMP_25Y	12.33	14.54	12.28	146.43	12.33	144.92
NC0010	C	LB_BMP_25Y	12.42	17.24	12.41	27.19	12.43	27.03
NC0020	C	LB_BMP_25Y	13.77	15.01	12.42	49.45	12.45	41.87
NC0021	C	LB_BMP_25Y	13.79	15	12.45	62.86	12.54	46.08
NC0022	C	LB_BMP_25Y	13.84	14.96	13.38	56.88	13.43	56.45
NC0030	C	LB_BMP_25Y	12.48	15.43	12.42	21.68	12.48	21.32
NC0031	C	LB_BMP_25Y	13.75	15.03	12.48	21.32	12.46	21
NC0040	C	LB_BMP_25Y	14.81	15.95	14.36	39.53	14.81	36.36
NC0050	C	LB_BMP_25Y	15.68	14.75	12.33	56.74	16.27	37.54
NC0051	C	LB_BMP_25Y	15.69	14.74	15.2	66.97	15.21	66.79
NC0060	C	LB_BMP_25Y	12.1	16.78	12	10.95	12.1	10.54
NC0070	C	LB_BMP_25Y	15.88	14.88	12.14	97.81	29.96	5.63
NC0080	C	LB_BMP_25Y	13.79	15.01	12.33	119.05	12.58	15.36
NC0090	C	LB_BMP_25Y	14.25	14.79	12.5	255.99	13.33	62.54
NC0100	C	LB_BMP_25Y	16.12	14.35	13.8	57.31	13.82	56.69
NC0101	C	LB_BMP_25Y	16.07	14.38	13.76	58.61	13.8	57.31
NC0102	C	LB_BMP_25Y	15.7	14.58	13.46	60.61	13.52	59.38
NC0103	C	LB_BMP_25Y	15.7	14.59	13.4	61.62	13.46	60.61
NC0104	C	LB_BMP_25Y	14.27	14.78	13.33	62.54	13.4	61.62
NC0105	C	LB_BMP_25Y	16.23	14.29	13.81	58.03	14.02	53.62
NC0106	C	LB_BMP_25Y	16.36	14.19	0	57172.8	0.21	1681.91
NC0110	C	LB_BMP_25Y	12.34	15.14	12.33	1.96	12.34	1.96
NC0115	C	LB_BMP_25Y	15.92	14.6	15.2	66.78	15.66	60.97

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NC0120	C	LB_BMP_25Y	16.36	14.18	12	19.67	12.04	18.92
NC0130	C	LB_BMP_25Y	26.92	13.31	12.25	8.77	0	0
NC0140	C	LB_BMP_25Y	16.36	14.18	20.7	107.5	24.45	6.33
NC0150	C	LB_BMP_25Y	16.36	14.18	13.62	7.49	24.45	1.53
NC0160	C	LB_BMP_25Y	16.36	14.19	0.21	1671.17	20.7	8826.9
NC0160A	C	LB_BMP_25Y	16.36	14.19	0	0	0	17898.22
NC0160B	C	LB_BMP_25Y	16.36	14.19	12.33	7.1	0	39274.56
NC0161	C	LB_BMP_25Y	16.36	14.18	20.7	8828.19	0.13	1550.87
NC0170	C	LB_BMP_25Y	16.36	14.18	0.13	1550.87	0.56	345.24
ND0010	D	LB_BMP_25Y	17.73	16.16	12.08	4.55	18.17	0.17
ND0020	D	LB_BMP_25Y	17.74	16.16	12	1.73	12.03	1.72
ND0030	D	LB_BMP_25Y	17.73	16.16	12.08	26.66	17.73	1.35
ND0040	D	LB_BMP_25Y	14.14	15.36	12.7	65.02	12.71	64.97
ND0050	D	LB_BMP_25Y	14.2	15.35	12.56	81.77	12.56	80.59
ND0051	D	LB_BMP_25Y	14.13	15.36	12.8	75.51	12.83	70.69
ND0060	D	LB_BMP_25Y	13.03	15.53	12	21.04	12.45	5.83
ND0070	D	LB_BMP_25Y	14.38	15.29	12.97	54.96	12.35	43.35
ND0080	D	LB_BMP_25Y	14.29	15.32	12.82	83.33	11.78	129.4
ND0081	D	LB_BMP_25Y	14.29	15.31	11.78	138.43	12.79	127.45
ND0090	D	LB_BMP_25Y	14.4	15.31	13.58	130.26	14.85	120.71
ND0091	D	LB_BMP_25Y	14.39	15.29	13.98	202.07	14.17	200.22
ND0100	D	LB_BMP_25Y	13.1	14.99	12.5	86.95	13.1	26.34
ND0110	D	LB_BMP_25Y	14.96	15	12.83	27.97	14.78	13.48
ND0120	D	LB_BMP_25Y	15.43	14.41	12	27.78	12.21	13.79
ND0130	D	LB_BMP_25Y	12.99	14.9	12.17	116.15	12.2	99.08
ND0140	D	LB_BMP_25Y	12.39	15.43	12.25	2.62	12.39	2.55
ND0150	D	LB_BMP_25Y	12.96	14.93	12.18	41.57	12	4.32
ND0160	D	LB_BMP_25Y	12.27	15.17	12.08	17.61	12.27	16.02
ND0170	D	LB_BMP_25Y	12.66	15.33	12	24.03	12.25	8.08
ND0180	D	LB_BMP_25Y	12.97	14.38	12.25	7.47	12.28	7.38
ND0181	D	LB_BMP_25Y	14.57	14.18	12.25	9.63	12.73	8.73
ND0182	D	LB_BMP_25Y	15.95	14.09	12.77	9.34	12.79	8.56
ND0190	D	LB_BMP_25Y	15.4	14.39	12.51	153.7	12.43	102.31
ND0200	D	LB_BMP_25Y	15.35	14.4	12.33	4.86	12.34	4.73
ND0210	D	LB_BMP_25Y	15.34	14.41	12.25	30.37	12.3	22.44
ND0220	D	LB_BMP_25Y	15.6	14.32	12.42	76.61	12.29	41.96
ND0230	D	LB_BMP_25Y	15.39	14.4	12.43	173.55	12.81	131.58
ND0231	D	LB_BMP_25Y	15.42	14.39	12.91	173.69	12.94	167.89
ND0240	D	LB_BMP_25Y	13.01	15.06	12.17	6.21	13.09	3.03

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
ND0250	D	LB_BMP_25Y	13.01	15.08	12.17	42.98	13.04	10.42
ND0260	D	LB_BMP_25Y	13	15.05	12.41	18.47	12.97	9.11
ND0270	D	LB_BMP_25Y	15.59	14.32	12.08	52.92	12.01	44.49
ND0280	D	LB_BMP_25Y	15.6	14.31	12.08	14.67	12.09	14.56
ND0290	D	LB_BMP_25Y	15.6	14.31	13.46	371.33	13.51	362.72
NE0010	E	LB_BMP_25Y	12.85	15.43	12.28	26.45	12.85	0.37
NE0020	E	LB_BMP_25Y	12.2	12.5	12	20.27	12.2	16.57
NE0030	E	LB_BMP_25Y	12.89	11.37	12.92	25.07	12.93	25.08
NE0040	E	LB_BMP_25Y	14.36	8.34	12.42	36.67	12.43	36.21
NE0041	E	LB_BMP_25Y	14.38	8.34	12.19	8.82	15.4	6.77
NE0050	E	LB_BMP_25Y	12.84	9.38	12.84	57.91	12.59	81.38
NE0060	E	LB_BMP_25Y	13.26	5.58	12	33.1	12.34	5.6
NE0070	E	LB_BMP_25Y	13.25	5.58	12.34	35.13	0	0
NE0080	E	LB_BMP_25Y	12.35	7.97	12.17	33.77	12.35	30.64
NE0090	E	LB_BMP_25Y	12.54	5.06	12.42	38.01	12.51	36.59
NE0100	E	LB_BMP_25Y	12.55	7.37	12.33	21.78	12.55	19.34
NE9070	E	LB_BMP_25Y	0	0.7	13.24	12.85	0	0
NF0010	F	LB_BMP_25Y	12.78	11.18	12.33	14.44	12.77	11.2
NF0011	F	LB_BMP_25Y	12.87	10.49	12.5	8.36	12.85	7.04
NF0012	F	LB_BMP_25Y	13.03	9.17	12.85	7.04	13	7.01
NF0020	F	LB_BMP_25Y	25.83	8.12	12.17	10.87	0	0
NF0030	F	LB_BMP_25Y	12.74	6.63	12.6	13.53	12.74	13.12
NF0040	F	LB_BMP_25Y	12.61	5.83	12.08	175.42	12.65	88.3
NF0042	F	LB_BMP_25Y	14.38	4.06	14.34	677.69	14.44	677.75
NF0050	F	LB_BMP_25Y	12.21	8.14	12	38.02	12.21	24.23
NF0060	F	LB_BMP_25Y	13.95	2.01	14.04	767.17	14.11	768.12
NF0061	F	LB_BMP_25Y	14.38	8.17	14.37	33.51	14.43	33.52
NF0062	F	LB_BMP_25Y	14.38	8.16	14.32	664.81	14.38	664.72
NF9060	F	LB_BMP_25Y	0	0.7	13.86	833.77	0	0
NG0010	G	LB_BMP_25Y	13.34	15.85	12.25	15	13.68	6.13
NG0020	G	LB_BMP_25Y	12.73	15.94	12	62.55	12.21	7.17
NG0030	G	LB_BMP_25Y	13.1	15.95	12.33	34.44	13.19	20.23
NG0040	G	LB_BMP_25Y	13.05	15.91	12.99	45.6	13.05	45.42
NG0050	G	LB_BMP_25Y	13.5	16.22	12.42	15.32	13.5	8.1
NG0060	G	LB_BMP_25Y	13	15.38	12.94	81.69	13	81.46
NG0070	G	LB_BMP_25Y	12.08	13.78	12.08	27.86	12.08	27.82
NG0080	G	LB_BMP_25Y	17.79	10.14	12.08	69.19	25.41	17.36
NG0090	G	LB_BMP_25Y	16.03	11.36	12.08	15.14	12.21	9.66
NG0100	G	LB_BMP_25Y	16.06	11.36	12	2.3	21.06	0.81

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NG0110	G	LB_BMP_25Y	17.79	10.14	12.5	25.48	12.5	25.33
NG0120	G	LB_BMP_25Y	26.17	10.79	12.17	11.05	0	0
NG0121	G	LB_BMP_25Y	16.06	11.36	0	0	24.28	0.26
NG0130	G	LB_BMP_25Y	12.49	11.4	12.25	99.01	12.41	70.97
NG0140	G	LB_BMP_25Y	12.56	10.69	12.4	81.06	12.46	78.34
NG0150	G	LB_BMP_25Y	14.38	10.13	12.6	152.71	12.61	151.16
NG0160	G	LB_BMP_25Y	13.58	10.08	13.18	61.04	13.21	60.41
NG0170	G	LB_BMP_25Y	14.37	8.39	13.71	646.34	14.33	620.27
NG0171	G	LB_BMP_25Y	14.37	8.34	14.28	631.47	14.3	631.36
NG0172	G	LB_BMP_25Y	14.37	6.55	14.28	669.93	14.37	669.75
NH0010	H	LB_BMP_25Y	12.65	10.66	12.25	26.1	12.64	19.09
NH0011	H	LB_BMP_25Y	13.39	9.56	12.64	19.09	12.94	15.5
NH0020	H	LB_BMP_25Y	20.25	13.23	12.17	60.27	20.79	0.01
NH0030	H	LB_BMP_25Y	20.21	13.23	12.17	11.81	0	0
NH0040	H	LB_BMP_25Y	12.75	12.04	12.08	34.94	12.75	9.23
NH0050	H	LB_BMP_25Y	14.35	8.4	12.83	67.85	12.76	56.53
NH0051	H	LB_BMP_25Y	14.38	8.33	14.32	33.52	14.37	33.51
NH0060	H	LB_BMP_25Y	14.59	10.12	16.95	472.68	17.02	473.05
NH0070	H	LB_BMP_25Y	14.43	9.96	13.26	520.76	13.46	503.78
NH0071	H	LB_BMP_25Y	14.41	9.21	13.39	517.08	17.07	506.87
NH0080	H	LB_BMP_25Y	14.35	8.51	12.25	25.09	37.68	39.32
NH0090	H	LB_BMP_25Y	14.41	9.07	13.54	531.37	14.71	524.77
NH0091	H	LB_BMP_25Y	14.39	8.49	14.02	531.29	15	534.72
NH0165	H	LB_BMP_25Y	14.38	8.35	12.14	8.86	12.07	7.76
NJ0010	J	LB_BMP_25Y	12.12	14.53	12	6.66	12.12	4.59
NJ0020	J	LB_BMP_25Y	12.64	13.5	12.08	60.28	12.66	31.78
NJ0030	J	LB_BMP_25Y	16.3	12.35	14.16	264.65	14.54	250.23
NJ0040	J	LB_BMP_25Y	16.1	14.1	12.08	14.4	12.02	12.48
NJ0050	J	LB_BMP_25Y	16.07	14.08	1.2	24.53	1.2	18.73
NJ0060	J	LB_BMP_25Y	16.24	13.64	1.2	18.73	3.15	14.21
NJ0070	J	LB_BMP_25Y	16.21	11.96	12.08	23.86	21	15.89
NJ0080	J	LB_BMP_25Y	16.1	14.1	0.45	337.36	0.53	321.21
NJ0090	J	LB_BMP_25Y	15.99	14.08	12.75	52.25	12.75	46.73
NJ0100	J	LB_BMP_25Y	15.99	14.08	15.38	392.08	15.69	391.01
NJ0101	J	LB_BMP_25Y	16.29	12.36	15.69	391.01	15.78	390.67
NJ0110	J	LB_BMP_25Y	12.71	12.51	12.67	34.8	12.71	34.68
NJ0120	J	LB_BMP_25Y	28.12	10.89	12.51	23.06	0	0
NJ0121	J	LB_BMP_25Y	28.12	10.89	15.83	0.53	32.52	0.4
NJ0130	J	LB_BMP_25Y	15.91	13.48	13.25	97.26	15.79	69.19

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NJ0140	J	LB_BMP_25Y	16.3	12.31	14.34	279.06	19.01	281.95
NJ0141	J	LB_BMP_25Y	16.21	11.96	16.33	414.21	16.55	415.49
NJ0150	J	LB_BMP_25Y	13.88	15.37	12.5	23.96	13.88	11.14
NJ0160	J	LB_BMP_25Y	14.1	14.54	13.64	63.7	13.89	57.76
NJ0170	J	LB_BMP_25Y	13.08	15.06	12.58	34.79	13.07	28.28
NJ0190	J	LB_BMP_25Y	13.08	15.05	12.84	30.2	13.08	29.51
NJ0200	J	LB_BMP_25Y	14.11	14.53	13.73	62.91	14.01	60.41
NJ0210	J	LB_BMP_25Y	15.14	13.97	12.25	43.21	12.4	29.85
NJ0220	J	LB_BMP_25Y	14.66	14.08	14.56	28.99	14.66	28.93
NJ0230	J	LB_BMP_25Y	14.32	14.12	13.12	82.7	13.79	64.01
NJ0240	J	LB_BMP_25Y	14.28	12.99	14.17	49.18	14.22	49.14
NJ0250	J	LB_BMP_25Y	15.99	11.47	16.05	453.22	16.11	453.33
NJ0260	J	LB_BMP_25Y	15.97	11.48	12.75	9.19	12.83	9.04
NJ0261	J	LB_BMP_25Y	15.98	11.36	16.13	454.62	16.15	454.71
NK0010	K	LB_BMP_25Y	14.62	16.2	12.5	22.24	14.63	7.26
NK0020	K	LB_BMP_25Y	12.1	16.2	12	14.49	12.1	13.89
NK0030	K	LB_BMP_25Y	12.94	15.99	12.57	35.5	12.94	29.68
NK0040	K	LB_BMP_25Y	12.68	15.71	12.07	69.04	12.65	21.08
NK0050	K	LB_BMP_25Y	13.15	15.63	12.75	18.55	13.08	16.31
NK0060	K	LB_BMP_25Y	12.74	16.39	12.25	23.71	12.74	17.61
NK0070	K	LB_BMP_25Y	13.28	15.54	12.8	86.5	13.04	75.2
NK0080	K	LB_BMP_25Y	13.9	15.31	12.25	13.09	12.59	2.18
NK0090	K	LB_BMP_25Y	13.01	15.04	12.46	12.36	29.47	1.54
NK0091	K	LB_BMP_25Y	15.96	14.09	29.47	1.54	24.46	1.87
NK0100	K	LB_BMP_25Y	13.86	14.91	13.69	4.25	13.96	4.21
NK0110	K	LB_BMP_25Y	14.11	15.09	12.86	9.81	0	0
NK0120	K	LB_BMP_25Y	13.91	15.29	12.89	41.29	13.84	11.34
NK0130	K	LB_BMP_25Y	13.91	15.29	12.08	10.14	14.67	2.19
NK0140	K	LB_BMP_25Y	13.9	15.32	12.72	46.06	12.87	38.04
NK0150	K	LB_BMP_25Y	13.9	15.3	12.87	83.65	13.77	13.12
NK0160	K	LB_BMP_25Y	13.87	12.4	13.86	100.36	13.87	100.35
NK0161	K	LB_BMP_25Y	48	10.78	13.88	113.15	15.83	0.53
NA0010	A	LB_BMP_10Y	24.03	17.5	12.33	12.05	24.03	0.56
NA0020	A	LB_BMP_10Y	24.83	13.97	12.08	71.89	37.64	2.55
NA0030	A	LB_BMP_10Y	15.36	15.47	12.08	44.39	22.48	4.91
NA0040	A	LB_BMP_10Y	12.26	16.82	12.08	29.61	12.26	23.99
NA0050	A	LB_BMP_10Y	13.28	16.97	12.33	12.72	0	0
NA0060	A	LB_BMP_10Y	12.43	17.51	12.25	4.61	12.43	4.39



Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NA0070	A	LB_BMP_10Y	13.1	16.9	12.33	10.23	12.3	10.13
NA0080	A	LB_BMP_10Y	13.16	17.06	12.25	174.04	13.16	41.6
NA0081	A	LB_BMP_10Y	13.54	15.34	13.02	41.71	13.19	39.64
NA0082	A	LB_BMP_10Y	14.13	14.98	13.19	39.64	13.24	37.84
NB0010	B	LB_BMP_10Y	12.84	17.18	12.08	6.37	12.96	1.65
NB0020	B	LB_BMP_10Y	12.75	17.17	12.08	28.13	12.64	4.07
NB0030	B	LB_BMP_10Y	12.28	15.61	12.25	24.65	12.28	24.64
NB0040	B	LB_BMP_10Y	12.34	17.97	12	23.76	12.34	15.84
NB0050	B	LB_BMP_10Y	12.35	15.02	12.27	69.53	12.32	68.45
NB0051	B	LB_BMP_10Y	12.35	15.02	11.87	23.55	12.08	22.96
NB0055	B	LB_BMP_10Y	12.44	14.39	12.34	53.98	12.42	51.76
NB0060	B	LB_BMP_10Y	15.6	17.76	12.08	19.49	15.6	1.17
NB0070	B	LB_BMP_10Y	12.09	17.39	12	11.19	12.09	11.1
NB0080	B	LB_BMP_10Y	15.4	16.93	13.33	31.9	15.4	21.52
NB0090	B	LB_BMP_10Y	12.44	14.35	12.24	112.29	12.44	106.18
NC0010	C	LB_BMP_10Y	12.75	17.16	12.71	11.05	12.77	10.89
NC0020	C	LB_BMP_10Y	14.35	14.69	12.72	25.95	12.76	21.25
NC0021	C	LB_BMP_10Y	14.37	14.69	12.71	36.97	12.81	26.23
NC0022	C	LB_BMP_10Y	14.4	14.68	12.8	33.05	12.85	29.65
NC0030	C	LB_BMP_10Y	12.5	15.38	12.42	17.38	12.5	17.06
NC0031	C	LB_BMP_10Y	14.32	14.71	12.5	17.06	12.52	16.9
NC0040	C	LB_BMP_10Y	16.25	15.83	15.34	23.63	16.25	20.34
NC0050	C	LB_BMP_10Y	16.69	14.01	12.33	45.98	17.96	28.13
NC0051	C	LB_BMP_10Y	16.68	13.97	16.73	36.35	16.77	36.37
NC0060	C	LB_BMP_10Y	12.11	16.74	12	8.78	12.11	8.42
NC0070	C	LB_BMP_10Y	17.55	14.37	12.17	76.33	31.65	4.32
NC0080	C	LB_BMP_10Y	14.37	14.69	12.25	90.43	12.81	11.85
NC0090	C	LB_BMP_10Y	14.68	14.57	12.58	198.67	13.95	56.12
NC0100	C	LB_BMP_10Y	15.64	13.89	14.35	52.54	14.38	52.2
NC0101	C	LB_BMP_10Y	15.58	13.93	14.27	53.23	14.35	52.54
NC0102	C	LB_BMP_10Y	15.07	14.27	14.09	55.21	14.18	54.62
NC0103	C	LB_BMP_10Y	15.06	14.28	14.03	55.69	14.09	55.21
NC0104	C	LB_BMP_10Y	14.69	14.56	13.95	56.12	14.03	55.69
NC0105	C	LB_BMP_10Y	15.82	13.79	14.37	53.11	14.61	51.02
NC0106	C	LB_BMP_10Y	15.98	13.68	0	57172.8	0.21	1681.91
NC0110	C	LB_BMP_10Y	12.35	15.12	12.33	1.57	12.35	1.57
NC0115	C	LB_BMP_10Y	16.48	13.82	16.6	36.66	16.73	37.08
NC0120	C	LB_BMP_10Y	15.98	13.68	12	16.21	12.03	16
NC0130	C	LB_BMP_10Y	26.92	12.72	12.25	7.17	0	0

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NC0140	C	LB_BMP_10Y	15.98	13.68	15.8	23.27	21.48	5.8
NC0150	C	LB_BMP_10Y	15.98	13.68	2.92	4.58	12.24	1.53
NC0160	C	LB_BMP_10Y	15.98	13.68	0.21	1671.17	0.12	1773.55
NC0160A	C	LB_BMP_10Y	15.98	13.68	0	0	0	17898.22
NC0160B	C	LB_BMP_10Y	15.98	13.68	12.33	5.63	0	39274.56
NC0161	C	LB_BMP_10Y	15.98	13.68	16.14	1771.61	0.13	1550.87
NC0170	C	LB_BMP_10Y	15.98	13.68	0.13	1550.87	0.56	345.24
ND0010	D	LB_BMP_10Y	24.2	16.09	12.08	3.66	24.58	0.04
ND0020	D	LB_BMP_10Y	24.2	16.09	12	1.38	12.05	1.38
ND0030	D	LB_BMP_10Y	24.2	16.09	12.08	21.44	24.2	0.35
ND0040	D	LB_BMP_10Y	13.03	15.17	13.03	42.01	13.03	42.01
ND0050	D	LB_BMP_10Y	14.25	14.94	12.08	59.46	12.1	58.6
ND0051	D	LB_BMP_10Y	14.24	14.94	13.02	45.89	13.16	41.91
ND0060	D	LB_BMP_10Y	12.45	15.19	12	15.75	0	0
ND0070	D	LB_BMP_10Y	14.38	14.88	12.5	39.6	12.46	37.47
ND0080	D	LB_BMP_10Y	14.33	14.9	13.02	52.43	11.95	131.92
ND0081	D	LB_BMP_10Y	14.33	14.9	11.95	159	13.02	79.92
ND0090	D	LB_BMP_10Y	14.38	14.89	13.58	104.43	14.6	94.88
ND0091	D	LB_BMP_10Y	14.38	14.87	14.11	168.16	14.32	166.82
ND0100	D	LB_BMP_10Y	13.46	14.94	12.67	66.69	13.46	16.17
ND0110	D	LB_BMP_10Y	14.56	14.67	12.83	22.5	14.5	12.5
ND0120	D	LB_BMP_10Y	14.73	14.1	12	22.57	12.2	11.99
ND0130	D	LB_BMP_10Y	12.58	14.82	12.17	93.79	12.29	80.7
ND0140	D	LB_BMP_10Y	12.41	15.42	12.25	2.1	12.41	2.03
ND0150	D	LB_BMP_10Y	12.65	14.86	12.28	34.2	12.16	4.84
ND0160	D	LB_BMP_10Y	12.3	15.14	12.08	14.11	12.3	12.57
ND0170	D	LB_BMP_10Y	12.59	14.88	12	19.37	12.41	7.62
ND0180	D	LB_BMP_10Y	13.31	14.32	12.25	5.55	12.29	5.45
ND0181	D	LB_BMP_10Y	15.77	13.69	12.39	9.08	12.46	8.31
ND0182	D	LB_BMP_10Y	15.76	13.65	12.85	9	12.85	8.57
ND0190	D	LB_BMP_10Y	14.75	14.09	12.61	125.54	12.67	101.53
ND0200	D	LB_BMP_10Y	14.7	14.09	12.33	3.91	12.34	3.86
ND0210	D	LB_BMP_10Y	14.38	14.1	12.25	24.57	12.37	19.4
ND0220	D	LB_BMP_10Y	15.44	13.81	12.5	59.43	12.42	44.59
ND0230	D	LB_BMP_10Y	14.75	14.09	12.67	157.45	13.16	136.7
ND0231	D	LB_BMP_10Y	14.85	14.06	13.36	176.46	13.4	173.48
ND0240	D	LB_BMP_10Y	13.38	14.93	12.17	4.81	13.5	1.76
ND0250	D	LB_BMP_10Y	13.39	14.93	12.21	35.59	13.46	6.55
ND0260	D	LB_BMP_10Y	13.38	14.93	12.4	11.69	13.42	5.11

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
ND0270	D	LB_BMP_10Y	15.43	13.82	12.08	41.41	12.07	36.46
ND0280	D	LB_BMP_10Y	15.44	13.81	12.08	11.36	12.09	11.21
ND0290	D	LB_BMP_10Y	15.44	13.81	13.97	305.79	14.01	301
NE0010	E	LB_BMP_10Y	13.13	15.39	12.42	23.77	13.13	0.18
NE0020	E	LB_BMP_10Y	12.19	12.17	12	16.41	12.19	13.55
NE0030	E	LB_BMP_10Y	13.09	11.19	12.92	20.15	13	20.11
NE0040	E	LB_BMP_10Y	14.31	7.84	12.42	29.6	12.46	29.14
NE0041	E	LB_BMP_10Y	14.33	7.83	12.26	8.87	15.29	6.23
NE0050	E	LB_BMP_10Y	13.03	9.38	13.04	42.43	12.97	78.5
NE0060	E	LB_BMP_10Y	13.42	5.39	12	27.07	14.08	4.14
NE0070	E	LB_BMP_10Y	13.42	5.39	12.1	25.28	0	0
NE0080	E	LB_BMP_10Y	12.37	7.86	12.17	27.27	12.37	24.23
NE0090	E	LB_BMP_10Y	12.59	5	12.25	26.19	12.58	25.25
NE0100	E	LB_BMP_10Y	12.66	7.26	12.33	17.04	12.66	14.04
NE9070	E	LB_BMP_10Y	0	0.7	13.41	11.92	0	0
NF0010	F	LB_BMP_10Y	13.11	10.94	12.33	11.22	12.79	7.34
NF0011	F	LB_BMP_10Y	13.17	10.42	12.79	7.34	13.15	6.63
NF0012	F	LB_BMP_10Y	13.31	9.14	13.15	6.63	13.26	6.62
NF0020	F	LB_BMP_10Y	25.83	7.46	12.17	8.58	0	0
NF0030	F	LB_BMP_10Y	13.1	6.53	12.93	10.28	13.1	9.98
NF0040	F	LB_BMP_10Y	12.75	5.7	12.08	142.79	12.75	54.98
NF0042	F	LB_BMP_10Y	14.38	3.79	14.31	564.1	14.42	563.94
NF0050	F	LB_BMP_10Y	12.26	8.04	12	32.38	12.26	20.73
NF0060	F	LB_BMP_10Y	14.06	1.84	14.09	638.07	14.17	638.69
NF0061	F	LB_BMP_10Y	14.33	7.66	14.2	25.96	15.01	26.11
NF0062	F	LB_BMP_10Y	14.33	7.66	14.26	552.5	14.33	552.34
NF9060	F	LB_BMP_10Y	0	0.7	14	687.53	0	0
NG0010	G	LB_BMP_10Y	13.87	15.46	12.25	12.11	12.34	6.28
NG0020	G	LB_BMP_10Y	13.56	15.83	12	50.8	12.24	3.9
NG0030	G	LB_BMP_10Y	13.37	15.87	12.33	27.51	13.47	13.19
NG0040	G	LB_BMP_10Y	13.34	15.85	13.27	27.57	13.34	27.46
NG0050	G	LB_BMP_10Y	14.17	16.17	12.42	12.35	14.17	4.68
NG0060	G	LB_BMP_10Y	13.26	15.28	13.19	52.48	13.26	52.32
NG0070	G	LB_BMP_10Y	12.08	13.75	12.08	22.47	12.08	22.42
NG0080	G	LB_BMP_10Y	18.82	9.54	12.08	55.27	22.73	14.6
NG0090	G	LB_BMP_10Y	15.81	10.76	12.08	11.91	12.21	8.02
NG0100	G	LB_BMP_10Y	15.83	10.76	12	1.73	21.7	0.69
NG0110	G	LB_BMP_10Y	18.82	9.54	12.5	20.38	12.5	20.26
NG0120	G	LB_BMP_10Y	26.17	10	12.17	8.7	0	0

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NG0121	G	LB_BMP_10Y	15.83	10.76	0	0	21.77	0.26
NG0130	G	LB_BMP_10Y	12.57	10.53	12.38	70.49	12.49	56.64
NG0140	G	LB_BMP_10Y	12.62	10.07	12.48	64.23	12.53	62.39
NG0150	G	LB_BMP_10Y	13.3	9.7	12.51	110.65	12.52	109.16
NG0160	G	LB_BMP_10Y	13.14	9.96	13.08	42.9	13.13	42.84
NG0170	G	LB_BMP_10Y	14.32	7.87	13.49	568.62	14.22	535.47
NG0171	G	LB_BMP_10Y	14.32	7.83	14.22	526.73	14.25	526.6
NG0172	G	LB_BMP_10Y	14.34	6.13	14.26	557.23	14.34	557.02
NH0010	H	LB_BMP_10Y	12.67	10.42	12.25	20.52	12.66	14.83
NH0011	H	LB_BMP_10Y	13.3	9.23	12.66	14.83	13.01	12.25
NH0020	H	LB_BMP_10Y	24.99	13.13	12.17	47.41	0	0
NH0030	H	LB_BMP_10Y	24.88	13.16	12.17	9.44	0	0
NH0040	H	LB_BMP_10Y	14.54	11.92	12.08	27.91	14.54	2.06
NH0050	H	LB_BMP_10Y	14.29	7.91	12.92	50.4	12.86	46.39
NH0051	H	LB_BMP_10Y	14.33	7.76	13.36	26.42	14.2	25.96
NH0060	H	LB_BMP_10Y	14.17	9.67	15.5	370.34	15.66	370.03
NH0070	H	LB_BMP_10Y	14.1	9.53	13.13	430.94	13.42	423.56
NH0071	H	LB_BMP_10Y	14.31	8.71	13.37	434.67	13.81	424.33
NH0080	H	LB_BMP_10Y	14.3	7.98	12.25	19.57	30.99	39.32
NH0090	H	LB_BMP_10Y	14.32	8.57	13.63	443.98	14.2	438.72
NH0091	H	LB_BMP_10Y	14.34	7.96	13.9	444.18	14.58	445.17
NH0165	H	LB_BMP_10Y	14.33	7.84	12.2	9.16	12.16	8.02
NJ0010	J	LB_BMP_10Y	12.14	14.5	12	5.5	12.14	3.48
NJ0020	J	LB_BMP_10Y	13.05	13.26	12.08	48.26	13.07	14.41
NJ0030	J	LB_BMP_10Y	16.13	11.86	15.49	234.39	15.95	232.11
NJ0040	J	LB_BMP_10Y	15.86	13.66	12.08	10.98	12.08	10.03
NJ0050	J	LB_BMP_10Y	16.05	13.56	1.2	24.53	1.2	18.73
NJ0060	J	LB_BMP_10Y	16.26	12.79	1.2	18.73	3.15	14.21
NJ0070	J	LB_BMP_10Y	16.09	11.32	12.08	21.69	21.54	15.44
NJ0080	J	LB_BMP_10Y	15.86	13.66	0.45	337.36	0.53	321.21
NJ0090	J	LB_BMP_10Y	15.74	13.64	12.75	42.24	12.76	39.59
NJ0100	J	LB_BMP_10Y	15.74	13.64	15.35	348.54	15.6	347.62
NJ0101	J	LB_BMP_10Y	16.12	11.87	15.6	347.62	15.64	347.29
NJ0110	J	LB_BMP_10Y	12.73	12.46	12.67	27.28	12.73	27.18
NJ0120	J	LB_BMP_10Y	48	10.71	12.5	17.69	0	0
NJ0121	J	LB_BMP_10Y	48	10.71	14.63	0.05	0	0
NJ0130	J	LB_BMP_10Y	16.07	12.69	14.01	78.47	16.06	63.99
NJ0140	J	LB_BMP_10Y	16.13	11.81	15.99	269.24	16.3	269.29
NJ0141	J	LB_BMP_10Y	16.08	11.32	16.34	349.3	16.6	351.02

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NJ0150	J	LB_BMP_10Y	14.96	15.33	12.5	19.25	14.96	5.8
NJ0160	J	LB_BMP_10Y	14.65	14.38	13.08	49.07	13.71	37.69
NJ0170	J	LB_BMP_10Y	13.29	14.99	12.58	28	13.23	20.23
NJ0190	J	LB_BMP_10Y	13.3	14.98	13.01	22.28	13.3	21.72
NJ0200	J	LB_BMP_10Y	14.65	14.38	13.54	44.95	14.08	41.37
NJ0210	J	LB_BMP_10Y	15.59	13.23	12.25	35.47	12.3	26.72
NJ0220	J	LB_BMP_10Y	14.44	13.96	14.14	12.02	14.44	11.79
NJ0230	J	LB_BMP_10Y	14.39	14.02	13.55	64.16	14.28	51.59
NJ0240	J	LB_BMP_10Y	14.19	12.9	14.1	28.75	14.16	28.68
NJ0250	J	LB_BMP_10Y	15.81	10.82	16.18	372.29	16.23	372.64
NJ0260	J	LB_BMP_10Y	15.79	10.82	12.83	7.15	12.82	7.05
NJ0261	J	LB_BMP_10Y	15.78	10.75	16.26	373.88	16.29	374.15
NK0010	K	LB_BMP_10Y	15.64	16.13	12.5	18.07	15.66	3.56
NK0020	K	LB_BMP_10Y	12.23	16.18	12	11.72	12.23	9.17
NK0030	K	LB_BMP_10Y	13.24	15.95	12.58	27.63	13.24	19.73
NK0040	K	LB_BMP_10Y	13.31	15.56	12.08	54.29	13.35	6.73
NK0050	K	LB_BMP_10Y	13.28	15.58	12.75	14.63	13.23	12.09
NK0060	K	LB_BMP_10Y	13.05	16.34	12.25	18.98	13.05	10.78
NK0070	K	LB_BMP_10Y	13.42	15.44	13.09	58.48	13.42	52.56
NK0080	K	LB_BMP_10Y	14.9	15.19	12.25	10.45	12.96	1.21
NK0090	K	LB_BMP_10Y	13.38	14.92	12.69	8	28.75	1.55
NK0091	K	LB_BMP_10Y	15.76	13.65	28.75	1.55	21.58	1.82
NK0100	K	LB_BMP_10Y	14.81	14.8	12.5	3.04	12.62	2.95
NK0110	K	LB_BMP_10Y	15.12	15.03	13.58	7.18	0	0
NK0120	K	LB_BMP_10Y	14.88	15.18	12.84	30.26	14.79	6.21
NK0130	K	LB_BMP_10Y	14.88	15.18	12.08	8.04	16.33	1.56
NK0140	K	LB_BMP_10Y	14.88	15.2	12.08	24.32	13.45	16.07
NK0150	K	LB_BMP_10Y	14.87	15.19	13.38	50.9	14.69	12.92
NK0160	K	LB_BMP_10Y	14.81	11.18	14.8	46.23	14.81	46.23
NK0161	K	LB_BMP_10Y	48	10.42	14.82	58.89	14.63	0.05
NA0010	A	LB_BMP_5Y	27.75	16.96	12.42	8.59	0	0
NA0020	A	LB_BMP_5Y	26.34	13.44	12.17	55.67	36.81	1.83
NA0030	A	LB_BMP_5Y	15.23	14.72	12.08	34.17	19.87	4.26
NA0040	A	LB_BMP_5Y	12.46	16.75	12.08	22.74	12.46	14.72
NA0050	A	LB_BMP_5Y	14.36	16.92	12.33	9.61	0	0
NA0060	A	LB_BMP_5Y	12.45	17.43	12.25	3.46	12.45	3.28
NA0070	A	LB_BMP_5Y	13.68	16.83	12.33	7.66	12.35	7.64
NA0080	A	LB_BMP_5Y	13.73	16.94	12.25	132.59	13.73	18

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NA0081	A	LB_BMP_5Y	14.39	14.4	13.7	20.39	13.75	19.78
NA0082	A	LB_BMP_5Y	14.54	14.34	13.75	19.78	13.83	18.7
NB0010	B	LB_BMP_5Y	14.91	17.05	12.08	4.87	15.18	0.32
NB0020	B	LB_BMP_5Y	14.89	17.05	12.08	20.7	14.85	0.24
NB0030	B	LB_BMP_5Y	12.33	15.56	12.33	18.7	12.33	18.7
NB0040	B	LB_BMP_5Y	12.61	17.91	12.08	17.96	12.61	6.79
NB0050	B	LB_BMP_5Y	12.44	14.84	12.42	43.38	12.43	43.22
NB0051	B	LB_BMP_5Y	12.44	14.82	11.97	23.24	12.19	22.57
NB0055	B	LB_BMP_5Y	12.45	14.11	12.42	24.69	12.44	24.61
NB0060	B	LB_BMP_5Y	24.25	17.7	12.08	14.79	24.25	0.2
NB0070	B	LB_BMP_5Y	12.18	17.34	12.08	8.5	12.18	7.21
NB0080	B	LB_BMP_5Y	17.22	16.87	13.42	23.09	17.22	10.29
NB0090	B	LB_BMP_5Y	12.51	13.61	12.25	76.92	12.51	71.18
NC0010	C	LB_BMP_5Y	14.89	17.05	12.08	8.13	14.91	1.48
NC0020	C	LB_BMP_5Y	15.1	14.2	12.33	11.77	12.28	9.52
NC0021	C	LB_BMP_5Y	15.11	14.2	12.38	20.86	12.76	10.19
NC0022	C	LB_BMP_5Y	15.12	14.19	13.04	17.12	13.1	14.99
NC0030	C	LB_BMP_5Y	12.51	15.32	12.42	13.08	12.51	12.78
NC0031	C	LB_BMP_5Y	12.54	14.4	12.51	12.78	12.54	12.76
NC0040	C	LB_BMP_5Y	19.8	15.7	17.2	11.21	19.8	8.13
NC0050	C	LB_BMP_5Y	23.58	13.54	12.33	35.17	23.59	6.18
NC0051	C	LB_BMP_5Y	15.51	13.02	23.59	6.18	23.64	6.18
NC0060	C	LB_BMP_5Y	12.11	16.68	12.08	6.64	12.11	6.3
NC0070	C	LB_BMP_5Y	19.48	13.77	12.3	49.54	32.63	3.08
NC0080	C	LB_BMP_5Y	15.11	14.2	12.32	87.62	12.95	6.72
NC0090	C	LB_BMP_5Y	15.22	14.15	12.65	137.07	15	44.66
NC0100	C	LB_BMP_5Y	15.45	13.27	15.32	42.4	15.36	42.38
NC0101	C	LB_BMP_5Y	15.44	13.31	15.23	42.46	15.32	42.4
NC0102	C	LB_BMP_5Y	15.34	13.79	15.14	44.51	15.24	44.44
NC0103	C	LB_BMP_5Y	15.33	13.81	15.07	44.58	15.14	44.51
NC0104	C	LB_BMP_5Y	15.23	14.14	15	44.66	15.07	44.58
NC0105	C	LB_BMP_5Y	15.49	13.07	15.35	42.94	15.48	42.89
NC0106	C	LB_BMP_5Y	15.5	12.97	0	57172.8	0.21	1681.91
NC0110	C	LB_BMP_5Y	12.35	15.11	12.33	1.18	12.35	1.18
NC0115	C	LB_BMP_5Y	15.5	12.98	12.08	22.21	12.08	22.17
NC0120	C	LB_BMP_5Y	15.5	12.97	12	12.72	12.04	12.64
NC0130	C	LB_BMP_5Y	26.92	12.3	12.25	5.56	0	0
NC0140	C	LB_BMP_5Y	15.56	12.97	12.25	5.92	12.68	4.97
NC0150	C	LB_BMP_5Y	15.56	12.97	2.92	4.58	12.52	1.88

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NC0160	C	LB_BMP_5Y	15.49	12.97	0.21	1671.17	0.12	1773.55
NC0160A	C	LB_BMP_5Y	15.5	12.97	0	0	0	17898.22
NC0160B	C	LB_BMP_5Y	15.5	12.97	12.33	4.17	0	39274.56
NC0161	C	LB_BMP_5Y	15.49	12.97	0.12	1760.87	0.13	1550.87
NC0170	C	LB_BMP_5Y	15.49	12.97	0.13	1550.87	0.56	345.24
ND0010	D	LB_BMP_5Y	25.43	15.66	12.08	2.77	9.13	0.01
ND0020	D	LB_BMP_5Y	25.33	15.66	12.08	1.05	12.08	1.05
ND0030	D	LB_BMP_5Y	25.33	15.66	12.08	16.02	0	0
ND0040	D	LB_BMP_5Y	12.09	15.09	12.08	23.01	12.09	22.93
ND0050	D	LB_BMP_5Y	12.11	14.58	12.08	44.95	12.11	44.08
ND0051	D	LB_BMP_5Y	14.6	14.31	13.65	27.71	13.75	25.74
ND0060	D	LB_BMP_5Y	12.38	14.56	12	11.25	0	0
ND0070	D	LB_BMP_5Y	14.68	14.24	12.5	30.09	12.43	29.7
ND0080	D	LB_BMP_5Y	14.66	14.25	12.42	31.72	12.18	138.17
ND0081	D	LB_BMP_5Y	14.66	14.25	12.18	161.78	12.18	47.16
ND0090	D	LB_BMP_5Y	14.69	14.25	13.67	78.7	14.81	66.44
ND0091	D	LB_BMP_5Y	14.69	14.23	14.41	114.87	14.66	113.76
ND0100	D	LB_BMP_5Y	14.17	14.89	12.67	47.81	14.17	8.96
ND0110	D	LB_BMP_5Y	14.07	14.17	12.83	17.03	12.74	12.96
ND0120	D	LB_BMP_5Y	14.77	13.73	12	17.33	12.17	9.97
ND0130	D	LB_BMP_5Y	12.41	14.74	12.17	71.33	12.41	57.8
ND0140	D	LB_BMP_5Y	12.51	15.4	12.25	1.58	12.51	1.45
ND0150	D	LB_BMP_5Y	12.88	14.78	12.43	23.61	12.39	5.22
ND0160	D	LB_BMP_5Y	12.34	15.11	12.08	10.6	12.34	9.12
ND0170	D	LB_BMP_5Y	12.52	14.31	12.08	14.72	12.41	6.75
ND0180	D	LB_BMP_5Y	14.1	14.23	12.25	3.85	12.32	3.73
ND0181	D	LB_BMP_5Y	12.73	13.11	12.4	8.09	12.61	7.72
ND0182	D	LB_BMP_5Y	15.35	12.96	12.71	8.71	12.73	8.59
ND0190	D	LB_BMP_5Y	14.74	13.73	12.68	93.6	13.08	81.67
ND0200	D	LB_BMP_5Y	14.73	13.73	12.33	2.97	12.34	2.93
ND0210	D	LB_BMP_5Y	14.72	13.73	12.25	18.74	12.35	15.19
ND0220	D	LB_BMP_5Y	15.14	13.06	12.5	42.69	12.6	37.31
ND0230	D	LB_BMP_5Y	14.75	13.73	13.85	148.73	14.01	144.89
ND0231	D	LB_BMP_5Y	14.77	13.67	14.35	171.12	14.43	170.53
ND0240	D	LB_BMP_5Y	14.22	14.78	12.25	3.44	16.32	0.93
ND0250	D	LB_BMP_5Y	14.22	14.78	12.38	24.6	14.4	2.39
ND0260	D	LB_BMP_5Y	14.22	14.78	12.65	6.49	14.28	1.96
ND0270	D	LB_BMP_5Y	15.14	13.06	12.08	30.21	12.08	27.68
ND0280	D	LB_BMP_5Y	12.1	13.39	12.08	8.11	12.1	7.9

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
ND0290	D	LB_BMP_5Y	15.15	13.06	14.5	219.49	14.54	218.49
NE0010	E	LB_BMP_5Y	13.65	15.34	12.5	18.16	13.65	0.04
NE0020	E	LB_BMP_5Y	12.19	11.84	12	12.53	12.19	10.43
NE0030	E	LB_BMP_5Y	13.47	10.93	13	15.25	13	15.21
NE0040	E	LB_BMP_5Y	12.54	7.32	12.42	22.5	12.5	21.95
NE0041	E	LB_BMP_5Y	14.21	7.25	12.34	8.86	15.35	6.04
NE0050	E	LB_BMP_5Y	13.6	8.75	13.41	26.07	13.56	25.47
NE0060	E	LB_BMP_5Y	13.78	5.14	12	21	14.59	3.03
NE0070	E	LB_BMP_5Y	13.76	5.15	12.4	37.97	0	0
NE0080	E	LB_BMP_5Y	12.42	7.7	12.17	20.74	12.42	17.81
NE0090	E	LB_BMP_5Y	12.71	4.91	12.25	20.11	12.71	14.69
NE0100	E	LB_BMP_5Y	12.83	7.06	12.33	12.98	12.83	9.37
NE9070	E	LB_BMP_5Y	0	0.7	13.76	10.62	0	0
NF0010	F	LB_BMP_5Y	13.06	10.5	12.33	8.05	13.05	5.05
NF0011	F	LB_BMP_5Y	13.36	10.12	13.05	5.05	13.35	4.84
NF0012	F	LB_BMP_5Y	13.49	9.02	13.35	4.84	13.47	4.79
NF0020	F	LB_BMP_5Y	25.83	6.73	12.17	6.3	0	0
NF0030	F	LB_BMP_5Y	13.61	6.38	13.24	6.73	13.61	6.24
NF0040	F	LB_BMP_5Y	12.99	5.54	12.08	109.95	12.99	27.95
NF0042	F	LB_BMP_5Y	14.29	3.47	14.19	447.32	14.32	447.11
NF0050	F	LB_BMP_5Y	12.34	7.87	12.08	24.69	12.34	16.13
NF0060	F	LB_BMP_5Y	14.01	1.67	13.98	507.07	14.06	507.09
NF0061	F	LB_BMP_5Y	14.22	7.1	14.12	24.11	14.53	24.18
NF0062	F	LB_BMP_5Y	14.22	7.09	14.13	438.27	14.21	438.09
NF9060	F	LB_BMP_5Y	0	0.7	13.98	541.32	0	0
NG0010	G	LB_BMP_5Y	14.37	15.16	12.25	9.22	12.62	5.89
NG0020	G	LB_BMP_5Y	14.63	15.76	12	38.97	9.01	0.72
NG0030	G	LB_BMP_5Y	14.27	15.78	12.33	20.59	12.18	7.12
NG0040	G	LB_BMP_5Y	14.26	15.77	12.18	13.14	14.26	12.26
NG0050	G	LB_BMP_5Y	15.49	16.11	12.42	9.37	15.49	1.87
NG0060	G	LB_BMP_5Y	14.27	15.13	14.18	24.59	14.27	24.53
NG0070	G	LB_BMP_5Y	12.09	13.71	12.08	17.06	12.09	16.99
NG0080	G	LB_BMP_5Y	20.48	8.86	12.08	41.74	25.89	6.88
NG0090	G	LB_BMP_5Y	15.3	10.14	12.08	8.57	12.18	5.89
NG0100	G	LB_BMP_5Y	15.31	10.14	12	1.19	18.24	0.47
NG0110	G	LB_BMP_5Y	20.47	8.86	12.5	15.29	12.58	14.99
NG0120	G	LB_BMP_5Y	26.17	9.14	12.17	6.37	0	0
NG0121	G	LB_BMP_5Y	15.31	10.14	0	0	18.26	0.17
NG0130	G	LB_BMP_5Y	12.67	9.72	12.31	50.11	12.53	42.29



Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NG0140	G	LB_BMP_5Y	12.76	9.49	12.5	47.73	12.53	46.58
NG0150	G	LB_BMP_5Y	13.09	9.28	12.25	75.15	12.25	73.26
NG0160	G	LB_BMP_5Y	13.03	9.89	13	28.98	13.03	28.94
NG0170	G	LB_BMP_5Y	14.2	7.27	13.73	431.28	14.08	426.71
NG0171	G	LB_BMP_5Y	14.21	7.24	14.08	414.38	14.12	414.22
NG0172	G	LB_BMP_5Y	14.22	5.68	14.14	442.37	14.23	442.18
NH0010	H	LB_BMP_5Y	12.7	10.15	12.25	14.99	12.69	10.6
NH0011	H	LB_BMP_5Y	13.31	8.92	12.69	10.6	13.14	8.64
NH0020	H	LB_BMP_5Y	26.17	12.81	12.17	34.67	0	0
NH0030	H	LB_BMP_5Y	26.42	12.48	12.17	7.07	0	0
NH0040	H	LB_BMP_5Y	22.65	11.82	12.08	20.87	22.65	0.57
NH0050	H	LB_BMP_5Y	14.08	7.36	12.92	36.32	12.99	34.86
NH0051	H	LB_BMP_5Y	14.22	7.18	13.64	24.28	14.12	24.11
NH0060	H	LB_BMP_5Y	13.4	9.25	12.86	301.81	13.03	297.04
NH0070	H	LB_BMP_5Y	13.44	9.11	12.94	351.38	13.2	343.85
NH0071	H	LB_BMP_5Y	14.12	8.17	13.19	352.47	13.5	341.9
NH0080	H	LB_BMP_5Y	14.19	7.37	12.25	14.13	31.71	39.32
NH0090	H	LB_BMP_5Y	14.15	8.03	13.41	357.73	13.63	351.45
NH0091	H	LB_BMP_5Y	14.21	7.36	13.56	357.18	14.51	353.44
NH0165	H	LB_BMP_5Y	14.21	7.25	12.3	9.35	12.26	8.26
NJ0010	J	LB_BMP_5Y	12.16	14.47	12	4.49	12.16	2.38
NJ0020	J	LB_BMP_5Y	15.11	12.95	12.08	36.2	15.19	2.73
NJ0030	J	LB_BMP_5Y	15.64	11.32	0.99	149.69	15.58	126.5
NJ0040	J	LB_BMP_5Y	15.42	12.96	12.08	7.38	12.09	6.78
NJ0050	J	LB_BMP_5Y	15.58	12.85	1.2	24.53	1.2	18.73
NJ0060	J	LB_BMP_5Y	15.74	12.1	1.2	18.73	3.15	14.21
NJ0070	J	LB_BMP_5Y	15.72	10.68	12.08	19.47	18.16	13.81
NJ0080	J	LB_BMP_5Y	15.43	12.96	0.45	337.36	0.53	321.21
NJ0090	J	LB_BMP_5Y	15.33	12.96	12.75	32.2	12.76	31.64
NJ0100	J	LB_BMP_5Y	15.33	12.95	15.05	272.58	15.27	272.19
NJ0101	J	LB_BMP_5Y	15.63	11.32	15.27	272.19	15.3	272.09
NJ0110	J	LB_BMP_5Y	12.76	12.41	12.67	19.86	12.76	19.79
NJ0120	J	LB_BMP_5Y	48	10.65	12.5	14.43	0	0
NJ0121	J	LB_BMP_5Y	48	10.65	13.47	0.01	0	0
NJ0130	J	LB_BMP_5Y	15.9	11.56	13.54	58.11	16.03	51.53
NJ0140	J	LB_BMP_5Y	15.67	11.19	15.48	214	15.63	213.87
NJ0141	J	LB_BMP_5Y	15.7	10.67	15.85	276.44	16.16	277.35
NJ0150	J	LB_BMP_5Y	18.76	15.26	12.5	14.54	18.76	1.27
NJ0160	J	LB_BMP_5Y	14.9	14.19	13.08	36.76	14.48	22.93

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NJ0170	J	LB_BMP_5Y	13.66	14.9	12.58	21.2	13.43	12.82
NJ0190	J	LB_BMP_5Y	13.66	14.9	13.29	14.58	13.66	14.23
NJ0200	J	LB_BMP_5Y	14.9	14.19	13.15	29.65	14.88	25.01
NJ0210	J	LB_BMP_5Y	15.34	11.95	12.24	27.18	12.43	24.46
NJ0220	J	LB_BMP_5Y	15.18	13.76	12.58	8.34	15.18	2.45
NJ0230	J	LB_BMP_5Y	15.17	13.83	14.54	34.64	15.12	31.46
NJ0240	J	LB_BMP_5Y	14.62	12.72	13.66	15.02	12.47	14.04
NJ0250	J	LB_BMP_5Y	15.31	10.18	15.98	292.8	16.06	293.04
NJ0260	J	LB_BMP_5Y	15.29	10.18	12.83	5.16	12.83	4.99
NJ0261	J	LB_BMP_5Y	15.28	10.14	16.08	294.04	16.09	294.32
NK0010	K	LB_BMP_5Y	19.86	16.03	12.5	13.88	19.86	1
NK0020	K	LB_BMP_5Y	12.5	16.14	12	8.94	12.5	4.19
NK0030	K	LB_BMP_5Y	13.89	15.89	12.58	19.77	13.89	10.55
NK0040	K	LB_BMP_5Y	16.8	15.45	12.08	40.73	16.94	2.04
NK0050	K	LB_BMP_5Y	13.66	15.52	12.75	10.74	13.66	7.47
NK0060	K	LB_BMP_5Y	13.73	16.26	12.33	14.25	13.73	5.15
NK0070	K	LB_BMP_5Y	14.02	15.31	13.69	31.55	14.02	29.32
NK0080	K	LB_BMP_5Y	13.73	15.08	12.25	7.81	13.73	0.51
NK0090	K	LB_BMP_5Y	14.22	14.78	12.65	5	27.79	1.56
NK0091	K	LB_BMP_5Y	15.35	12.96	27.79	1.56	17.68	1.73
NK0100	K	LB_BMP_5Y	17.56	14.58	12.5	2.28	12.79	2.04
NK0110	K	LB_BMP_5Y	17.75	14.93	13.74	4.85	0	0
NK0120	K	LB_BMP_5Y	17.63	14.94	13.6	22.22	13.76	3.89
NK0130	K	LB_BMP_5Y	17.63	14.95	12.08	5.96	30.55	1.57
NK0140	K	LB_BMP_5Y	17.61	14.96	12.08	18.04	12.19	7.64
NK0150	K	LB_BMP_5Y	17.62	14.95	12.69	34.94	17.03	12.48
NK0160	K	LB_BMP_5Y	12.09	10.09	12.08	10.74	12.09	10.7
NK0161	K	LB_BMP_5Y	48	9.99	17.56	19.19	13.47	0.01
NA0010	A	LB_BMP_233Y	27.75	16.27	12.42	5.71	0	0
NA0020	A	LB_BMP_233Y	28.57	12.99	12.17	41.55	34.63	1.02
NA0030	A	LB_BMP_233Y	13.63	14.17	12.08	25.27	13.33	3.7
NA0040	A	LB_BMP_233Y	12.85	16.65	12.08	16.58	12.85	6.17
NA0050	A	LB_BMP_233Y	20.09	16.84	12.33	6.93	0	0
NA0060	A	LB_BMP_233Y	12.48	17.35	12.33	2.48	12.48	2.33
NA0070	A	LB_BMP_233Y	15	16.73	12.33	5.44	12.37	5.42
NA0080	A	LB_BMP_233Y	15.21	16.79	12.25	96.65	15.21	5.2
NA0081	A	LB_BMP_233Y	14.94	13.63	15.15	7.99	15.38	8.07
NA0082	A	LB_BMP_233Y	14.92	13.6	15.38	8.07	15.78	8.33

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NB0010	B	LB_BMP_233Y	24.69	16.95	12.08	3.56	9.11	0.03
NB0020	B	LB_BMP_233Y	24.7	16.95	12.08	14.69	24.01	0
NB0030	B	LB_BMP_233Y	12.33	15.51	12.33	13.59	12.33	13.58
NB0040	B	LB_BMP_233Y	14.09	17.83	12.08	12.96	14.09	1.15
NB0050	B	LB_BMP_233Y	12.27	14.71	12.25	31.54	12.27	31.36
NB0051	B	LB_BMP_233Y	12.27	14.67	12.09	22.36	12.32	21.6
NB0055	B	LB_BMP_233Y	12.37	13.99	12.27	12.65	12.37	11.85
NB0060	B	LB_BMP_233Y	25.58	16.98	12.08	10.71	0	0
NB0070	B	LB_BMP_233Y	12.47	17.28	12.08	6.19	12.47	3.18
NB0080	B	LB_BMP_233Y	21.63	16.82	13.42	16.15	21.63	3.73
NB0090	B	LB_BMP_233Y	12.48	13.04	12.34	54.15	12.48	50.15
NC0010	C	LB_BMP_233Y	24.69	16.95	12.08	5.87	12.84	0.33
NC0020	C	LB_BMP_233Y	15.65	13.66	12.33	8.44	12.42	8.05
NC0021	C	LB_BMP_233Y	15.65	13.65	12.55	15.81	13.29	6.34
NC0022	C	LB_BMP_233Y	15.65	13.65	13.7	6.21	13.91	5.36
NC0030	C	LB_BMP_233Y	12.57	15.26	12.42	9.38	12.57	8.94
NC0031	C	LB_BMP_233Y	12.63	14.31	12.57	8.94	12.63	8.87
NC0040	C	LB_BMP_233Y	48	15	12.42	6.65	0	0
NC0050	C	LB_BMP_233Y	14.91	13.32	12.33	25.78	14.9	4.78
NC0051	C	LB_BMP_233Y	15.16	12.83	14.9	4.78	14.93	4.77
NC0060	C	LB_BMP_233Y	12.12	16.62	12.08	4.8	12.12	4.48
NC0070	C	LB_BMP_233Y	21.85	13.26	12.17	32.02	32.23	1.71
NC0080	C	LB_BMP_233Y	15.65	13.65	12.25	71.99	13.36	2.77
NC0090	C	LB_BMP_233Y	15.65	13.65	13.12	74.58	15.46	23.42
NC0100	C	LB_BMP_233Y	15.75	12.9	15.76	22.36	15.77	22.36
NC0101	C	LB_BMP_233Y	15.75	12.91	15.72	22.36	15.76	22.36
NC0102	C	LB_BMP_233Y	15.73	13.23	15.64	23.37	15.73	23.36
NC0103	C	LB_BMP_233Y	15.7	13.47	15.56	23.38	15.64	23.37
NC0104	C	LB_BMP_233Y	15.65	13.64	15.46	23.42	15.56	23.38
NC0105	C	LB_BMP_233Y	15.66	12.81	15.72	22.75	15.73	22.75
NC0106	C	LB_BMP_233Y	14	12.78	0	57172.8	0.21	1681.91
NC0110	C	LB_BMP_233Y	12.36	15.1	12.33	0.84	12.36	0.84
NC0115	C	LB_BMP_233Y	12.09	12.79	12.08	16.24	12.08	16.21
NC0120	C	LB_BMP_233Y	12.08	12.81	12	9.67	12.04	9.63
NC0130	C	LB_BMP_233Y	26.92	11.88	12.25	4.16	0	0
NC0140	C	LB_BMP_233Y	12.52	12.81	12.25	4.44	12.62	3.9
NC0150	C	LB_BMP_233Y	12.52	12.82	2.92	4.58	12.51	1.48
NC0160	C	LB_BMP_233Y	13.85	12.78	0.21	1671.17	0.12	1773.55
NC0160A	C	LB_BMP_233Y	0	12.78	0	0	0	17898.22

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NC0160B	C	LB_BMP_233Y	0	12.78	12.33	2.92	0	39274.56
NC0161	C	LB_BMP_233Y	13.83	12.78	0.12	1760.87	0.13	1550.87
NC0170	C	LB_BMP_233Y	13.83	12.78	0.13	1550.87	0.56	345.24
ND0010	D	LB_BMP_233Y	47.93	15.04	12.08	2	10.32	0.01
ND0020	D	LB_BMP_233Y	12.08	15.15	12.08	0.76	12.08	0.75
ND0030	D	LB_BMP_233Y	48	15.04	12.08	11.5	0	0
ND0040	D	LB_BMP_233Y	12.09	15.04	12.08	16.45	12.09	16.37
ND0050	D	LB_BMP_233Y	12.24	14.39	12.08	32.34	12.19	28.58
ND0051	D	LB_BMP_233Y	14.88	13.58	12.57	18.1	12.57	17.69
ND0060	D	LB_BMP_233Y	12.37	13.83	12	7.66	0	0
ND0070	D	LB_BMP_233Y	14.7	13.52	12.5	21.85	12.5	21.84
ND0080	D	LB_BMP_233Y	14.76	13.51	12.53	28.53	12.53	138.12
ND0081	D	LB_BMP_233Y	14.76	13.51	12.53	142.62	12.53	31.67
ND0090	D	LB_BMP_233Y	14.73	13.51	13.67	56.66	14.35	47.96
ND0091	D	LB_BMP_233Y	14.73	13.5	14.75	71.31	14.97	71.75
ND0100	D	LB_BMP_233Y	15.62	14.84	12.67	34.35	15.62	4.53
ND0110	D	LB_BMP_233Y	13.57	13.53	12.92	12.32	13.05	11.39
ND0120	D	LB_BMP_233Y	14.25	13.22	12.08	12.8	12.16	8.05
ND0130	D	LB_BMP_233Y	12.54	14.68	12.17	51.87	12.54	36.04
ND0140	D	LB_BMP_233Y	12.75	15.37	12.33	1.14	12.75	0.86
ND0150	D	LB_BMP_233Y	16.54	14.64	12.58	12.98	12.81	5.2
ND0160	D	LB_BMP_233Y	12.4	15.06	12.08	7.58	12.4	6.15
ND0170	D	LB_BMP_233Y	12.45	13.7	12.08	10.73	12.11	6.17
ND0180	D	LB_BMP_233Y	12.34	14.19	12.17	2.6	12.34	2.45
ND0181	D	LB_BMP_233Y	12.69	12.91	12.2	7.3	12.39	6.65
ND0182	D	LB_BMP_233Y	13.01	12.72	12.67	7.06	12.93	6.94
ND0190	D	LB_BMP_233Y	13.57	13.57	12.67	67.04	13.53	46.06
ND0200	D	LB_BMP_233Y	14.21	13.22	12.33	2.15	12.34	2.11
ND0210	D	LB_BMP_233Y	14.14	13.22	12.25	13.69	12.32	11.41
ND0220	D	LB_BMP_233Y	13.92	12.75	12.5	28.69	12.68	23.22
ND0230	D	LB_BMP_233Y	14.23	13.21	14.47	109.96	14.62	110.56
ND0231	D	LB_BMP_233Y	14.18	13.15	14.28	119.97	14.35	120.09
ND0240	D	LB_BMP_233Y	16.74	14.64	12.25	2.31	27.16	0.38
ND0250	D	LB_BMP_233Y	16.74	14.64	12.25	17.64	17.34	0.77
ND0260	D	LB_BMP_233Y	16.74	14.64	13.32	3.54	27.82	1.45
ND0270	D	LB_BMP_233Y	13.92	12.75	12.08	20.82	12.09	19.28
ND0280	D	LB_BMP_233Y	12.13	13.36	12.08	5.4	12.13	5.03
ND0290	D	LB_BMP_233Y	13.92	12.75	14.02	139.53	14.05	139.62
NE0010	E	LB_BMP_233Y	14.8	15.28	12.5	13.22	14.8	0

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NE0020	E	LB_BMP_233Y	12.2	11.53	12.08	9.2	12.19	7.65
NE0030	E	LB_BMP_233Y	13	10.63	13	11.03	13	11.03
NE0040	E	LB_BMP_233Y	12.64	7.18	12.42	16.36	12.59	15.34
NE0041	E	LB_BMP_233Y	14.12	6.76	12.5	8.7	14.84	6.64
NE0050	E	LB_BMP_233Y	13.02	8.03	12.83	14.78	13	14.49
NE0060	E	LB_BMP_233Y	14.55	4.85	12	15.7	18.64	2.35
NE0070	E	LB_BMP_233Y	14.48	4.88	12.67	36.3	0	0
NE0080	E	LB_BMP_233Y	12.51	7.43	12.17	15.09	12.51	11.71
NE0090	E	LB_BMP_233Y	13.07	4.82	12.25	14.83	13.07	7.45
NE0100	E	LB_BMP_233Y	12.73	6.67	12.33	9.57	12.73	7.56
NE9070	E	LB_BMP_233Y	0	0.7	14.51	9	0	0
NF0010	F	LB_BMP_233Y	13.34	10.12	12.33	5.41	13.33	2.85
NF0011	F	LB_BMP_233Y	13.73	9.75	13.33	2.85	13.71	2.7
NF0012	F	LB_BMP_233Y	13.91	8.85	13.71	2.7	13.88	2.66
NF0020	F	LB_BMP_233Y	25.83	6.07	12.17	4.37	0	0
NF0030	F	LB_BMP_233Y	14.76	6.19	12.17	4.51	14.76	2.69
NF0040	F	LB_BMP_233Y	13.33	5.37	12.08	81.33	13.33	12.53
NF0042	F	LB_BMP_233Y	14.43	3.21	14.35	361.76	14.45	361.61
NF0050	F	LB_BMP_233Y	12.4	7.59	12.08	18.11	12.4	10.55
NF0060	F	LB_BMP_233Y	14.01	1.52	13.89	402.96	13.94	402.76
NF0061	F	LB_BMP_233Y	14.13	6.64	14.03	21.88	14.37	21.91
NF0062	F	LB_BMP_233Y	14.13	6.62	14.04	357.61	14.13	357.49
NF9060	F	LB_BMP_233Y	0	0.7	13.89	419.84	0	0
NG0010	G	LB_BMP_233Y	13.55	15.02	12.25	6.71	12.98	4.77
NG0020	G	LB_BMP_233Y	17.21	15.69	12.08	28.78	10.23	0.73
NG0030	G	LB_BMP_233Y	17.21	15.69	12.33	14.65	12.32	6.82
NG0040	G	LB_BMP_233Y	17.15	15.69	12.33	9.12	17.15	3.41
NG0050	G	LB_BMP_233Y	23.49	16.05	12.42	6.79	23.49	0.36
NG0060	G	LB_BMP_233Y	13.54	15.01	12.44	17.21	13.54	9.79
NG0070	G	LB_BMP_233Y	12.09	13.66	12.08	12.37	12.09	12.27
NG0080	G	LB_BMP_233Y	23.8	8.47	12.08	30.14	25.75	3.36
NG0090	G	LB_BMP_233Y	14.43	9.8	12.08	5.75	12.15	3.97
NG0100	G	LB_BMP_233Y	14.44	9.8	12	0.76	18.51	0.23
NG0110	G	LB_BMP_233Y	23.8	8.47	12.5	10.91	12.58	10.47
NG0120	G	LB_BMP_233Y	26.17	8.33	12.17	4.39	0	0
NG0121	G	LB_BMP_233Y	14.44	9.8	0	0	19	0.08
NG0130	G	LB_BMP_233Y	12.67	9.03	12.38	36.38	12.49	33.03
NG0140	G	LB_BMP_233Y	12.84	8.96	12.48	36.84	12.5	35.95
NG0150	G	LB_BMP_233Y	13.44	8.95	12.34	54.98	12.34	53.71

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NG0160	G	LB_BMP_233Y	13.34	9.83	13.29	19.24	13.34	19.2
NG0170	G	LB_BMP_233Y	14.12	6.78	13.75	351.31	14.02	349.44
NG0171	G	LB_BMP_233Y	14.12	6.76	14	335.88	14.03	335.77
NG0172	G	LB_BMP_233Y	14.12	5.34	14.04	361.01	14.13	360.9
NH0010	H	LB_BMP_233Y	12.74	9.89	12.25	10.32	12.72	7.13
NH0011	H	LB_BMP_233Y	13.48	8.65	12.72	7.13	13.42	5.48
NH0020	H	LB_BMP_233Y	26.17	12.48	12.17	23.88	0	0
NH0030	H	LB_BMP_233Y	26.42	11.33	12.25	5.04	0	0
NH0040	H	LB_BMP_233Y	25	11.18	12.08	14.83	0	0
NH0050	H	LB_BMP_233Y	13.25	7.08	12.92	24.55	13.05	23.88
NH0051	H	LB_BMP_233Y	14.13	6.7	13.71	21.96	14.03	21.88
NH0060	H	LB_BMP_233Y	13.56	8.94	12.6	261.07	13.48	254.1
NH0070	H	LB_BMP_233Y	13.57	8.81	12.68	288.93	13.42	285.87
NH0071	H	LB_BMP_233Y	13.98	7.75	13.42	291.35	13.71	287.44
NH0080	H	LB_BMP_233Y	14.09	6.88	12.25	9.57	46.11	39.32
NH0090	H	LB_BMP_233Y	14.01	7.6	13.59	297.79	13.81	295.55
NH0091	H	LB_BMP_233Y	14.12	6.87	12.78	299.86	14.19	297.25
NH0165	H	LB_BMP_233Y	14.12	6.77	12.45	9.22	12.43	8.26
NJ0010	J	LB_BMP_233Y	12.26	14.43	12	4.17	12.26	1.38
NJ0020	J	LB_BMP_233Y	24.32	12.78	12.08	25.67	24.45	0.34
NJ0030	J	LB_BMP_233Y	14.55	11.12	0.99	149.69	14.48	72.57
NJ0040	J	LB_BMP_233Y	13.85	12.74	12.08	4.44	12.08	3.95
NJ0050	J	LB_BMP_233Y	12.38	12.67	1.2	24.53	1.2	18.73
NJ0060	J	LB_BMP_233Y	12.42	11.89	1.2	18.73	3.15	14.21
NJ0070	J	LB_BMP_233Y	14.83	10.34	12.08	17.51	22.36	12.62
NJ0080	J	LB_BMP_233Y	13.86	12.75	0.45	337.36	0.53	321.21
NJ0090	J	LB_BMP_233Y	13.67	12.73	12.75	23.51	12.84	23.17
NJ0100	J	LB_BMP_233Y	13.88	12.7	12.59	250.34	13.69	249.22
NJ0101	J	LB_BMP_233Y	14.55	11.13	13.69	249.22	13.74	248.94
NJ0110	J	LB_BMP_233Y	12.88	12.36	12.75	13.61	12.88	13.23
NJ0120	J	LB_BMP_233Y	48	10.61	12.74	10.21	0	0
NJ0121	J	LB_BMP_233Y	48	10.61	13.7	0.01	0	0
NJ0130	J	LB_BMP_233Y	15.27	10.77	14.63	37.01	15.51	36.54
NJ0140	J	LB_BMP_233Y	14.65	10.91	13.1	197.5	48	196.84
NJ0141	J	LB_BMP_233Y	14.8	10.33	15.37	242.08	15.59	243.4
NJ0150	J	LB_BMP_233Y	28.83	14.98	12.5	10.47	0	0
NJ0160	J	LB_BMP_233Y	15.89	13.63	13.08	26.22	13.05	16.68
NJ0170	J	LB_BMP_233Y	14.18	14.81	12.58	15.33	13.86	7.37
NJ0190	J	LB_BMP_233Y	14.18	14.8	12.22	9.75	14.18	8.29

Long Branch BMP Model Results  
Node Maximum Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
-----	-----	-----	-----	-----	-----	-----	-----	-----
NJ0200	J	LB_BMP_233Y	15.9	13.63	13.05	22.16	17.33	13.64
NJ0210	J	LB_BMP_233Y	15.2	11.62	12.33	20.08	12.48	18.71
NJ0220	J	LB_BMP_233Y	14.81	13.5	12.69	6.86	14.81	0
NJ0230	J	LB_BMP_233Y	14.85	13.58	13.34	19.63	14.94	15.69
NJ0240	J	LB_BMP_233Y	13.47	11.69	13.5	10.21	12.75	14.29
NJ0250	J	LB_BMP_233Y	14.43	9.83	15.44	259.64	15.15	253.54
NJ0260	J	LB_BMP_233Y	14.42	9.83	12.83	3.49	12.88	3.34
NJ0261	J	LB_BMP_233Y	14.41	9.79	15.15	254.45	15.17	254.66
NK0010	K	LB_BMP_233Y	27.2	15.9	12.5	10.24	27.2	0.02
NK0020	K	LB_BMP_233Y	13.7	16.08	12.08	6.57	13.7	0.65
NK0030	K	LB_BMP_233Y	15.48	15.83	12.58	13.22	15.48	4.23
NK0040	K	LB_BMP_233Y	25.83	15.3	12.08	29.64	25.83	0.05
NK0050	K	LB_BMP_233Y	14.53	15.47	12.75	7.44	14.53	3.73
NK0060	K	LB_BMP_233Y	15.28	16.14	12.33	10.22	15.28	1.34
NK0070	K	LB_BMP_233Y	13.22	15.16	12.5	17.55	13.22	11.85
NK0080	K	LB_BMP_233Y	16.8	15.01	12.25	5.55	16.8	0.07
NK0090	K	LB_BMP_233Y	16.74	14.64	13.65	3.04	26.68	1.57
NK0091	K	LB_BMP_233Y	13.01	12.72	26.68	1.57	26.31	1.61
NK0100	K	LB_BMP_233Y	13.17	14.47	12.5	1.63	13.17	1.15
NK0110	K	LB_BMP_233Y	24.16	14.1	12	2.42	0	0
NK0120	K	LB_BMP_233Y	24.16	14.1	12.08	14.9	8.25	0
NK0130	K	LB_BMP_233Y	16.45	14.16	12.08	4.17	18.55	0.8
NK0140	K	LB_BMP_233Y	16.69	14.24	12.08	12.67	12.39	6.82
NK0150	K	LB_BMP_233Y	16.4	14.16	12.71	21.37	16.33	11.5
NK0160	K	LB_BMP_233Y	12.09	9.95	12.08	7.42	12.09	7.38
NK0161	K	LB_BMP_233Y	48	9.61	13.21	12.97	13.7	0.01

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_100Y	A0010	A	12.33	22.87	8.802	227156
LB_100Y	A0020	A	12.11	121.94	10.66	877757
LB_100Y	A0030	A	12.1	75.03	10.527	502156
LB_100Y	A0040	A	12.07	50.95	10.256	327515
LB_100Y	A0050	A	12.32	22.02	10.109	218852
LB_100Y	A0060	A	12.25	8.03	9.993	73760
LB_100Y	A0070	A	12.22	10.77	9.975	89670
LB_100Y	A0080	A	12.18	294.71	10.292	2459294
LB_100Y	B0010	B	12.06	11.06	10.229	62526
LB_100Y	B0020	B	12.05	50.15	9.681	270320
LB_100Y	B0030	B	12.31	42.42	10.217	399132
LB_100Y	B0040	B	12.04	42.45	9.979	229063
LB_100Y	B0050	B	12.2	72.84	10.268	590118
LB_100Y	B0055	B	12.21	14.27	10.982	131925
LB_100Y	B0060	B	12.1	33.55	10.145	215039
LB_100Y	B0070	B	12.04	19.8	10.135	107421
LB_100Y	B0080	B	13.42	54.14	9.641	1201530
LB_100Y	B0090	B	12.1	50.71	9.802	348491
LB_100Y	C0010	C	12.07	28.76	9.252	173328
LB_100Y	C0020	C	12.34	27.26	10.009	271710
LB_100Y	C0030	C	12.33	30.23	9.993	318805
LB_100Y	C0040	C	12.33	24.03	9.369	240059
LB_100Y	C0050	C	12.34	78.11	10.395	773786
LB_100Y	C0060	C	12.04	15.69	9.986	84663
LB_100Y	C0070	C	12.13	81.36	10.501	584621
LB_100Y	C0080	C	12.35	172.32	10.516	1743256
LB_100Y	C0090	C	12.5	274.95	10.959	3306504
LB_100Y	C0105	C	12.04	21.99	10.401	120627
LB_100Y	C0110	C	12.28	2.74	9.972	26799
LB_100Y	C0115	C	12.04	45.52	10.263	248221
LB_100Y	C0120	C	12.04	27.22	11.053	154083
LB_100Y	C0130	C	12.21	11.97	10.737	107577
LB_100Y	C0140	C	12.26	12.62	10.834	115268
LB_100Y	C0150	C	12.28	16.27	9.948	148135
LB_100Y	C0160	C	12.05	65.6	10.624	376955
LB_100Y	C0160B	C	12.29	10.06	9.627	97151
LB_100Y	C0170	C	12.32	26.67	9.754	262618
LB_100Y	D0010	D	12.04	6.49	9.973	35840
LB_100Y	D0020	D	12.04	2.47	9.979	13347
LB_100Y	D0030	D	12.06	37.92	10.123	230904
LB_100Y	D0040	D	12.04	44.05	9.894	236977



Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_100Y	D0050	D	12.06	49.8	10.142	303458
LB_100Y	D0060	D	12.04	52.34	10.127	283948
LB_100Y	D0070	D	12.42	68.02	10.248	787859
LB_100Y	D0080	D	12.25	6.27	10.163	56127
LB_100Y	D0090	D	13.58	181.87	10.205	4468550
LB_100Y	D0100	D	12.67	106.95	10.282	1503988
LB_100Y	D0110	D	12.83	38.86	10.238	634920
LB_100Y	D0120	D	12.04	39.15	10.448	215144
LB_100Y	D0130	D	12.15	162.3	10.195	1163560
LB_100Y	D0140	D	12.3	3.65	10.057	33944
LB_100Y	D0150	D	12.58	24.74	9.985	318671
LB_100Y	D0160	D	12.12	24.79	9.976	170177
LB_100Y	D0170	D	12.04	34.22	10.156	185836
LB_100Y	D0180	D	12.27	19.25	9.979	172133
LB_100Y	D0190	D	12.83	111.29	10.469	1865198
LB_100Y	D0200	D	12.37	6.74	10.213	68688
LB_100Y	D0210	D	12.18	42.05	10.297	357528
LB_100Y	D0220	D	12.42	111.38	8.975	1225250
LB_100Y	D0230	D	13.33	14.3	10.368	313956
LB_100Y	D0240	D	12.17	9.05	8.903	70789
LB_100Y	D0250	D	12.21	42.99	9.447	342681
LB_100Y	D0260	D	12.42	29.38	8.922	301675
LB_100Y	D0270	D	12.04	71.15	9.514	378340
LB_100Y	D0280	D	12.04	22.08	8.66	115138
LB_100Y	D0290	D	12.3	22.14	9.037	204373
LB_100Y	E0010	E	12.42	40.9	10.292	472699
LB_100Y	E0020	E	12.04	28.7	10.31	156814
LB_100Y	E0030	E	12.92	34.85	10.24	608276
LB_100Y	E0040	E	12.42	50.72	10.252	552591
LB_100Y	E0050	E	12.42	14.45	10.243	164258
LB_100Y	E0060	E	12.04	46.24	10.717	257221
LB_100Y	E0070	E	12.83	117.58	10.294	1866948
LB_100Y	E0080	E	12.14	46.8	10.241	361449
LB_100Y	E0090	E	12.24	44.31	10.482	389814
LB_100Y	E0100	E	12.27	28.62	10.485	281210
LB_100Y	F0010	F	12.28	20.94	8.98	201059
LB_100Y	F0020	F	12.1	15.68	9.374	108004
LB_100Y	F0030	F	12.13	16.58	9.25	119136
LB_100Y	F0040	F	12.07	241.05	10.497	1511417
LB_100Y	F0050	F	12.04	56.83	10.267	309941
LB_100Y	F0060	F	12.83	99.75	11.304	1732819

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_100Y	G0010	G	12.22	20.87	10.239	176763
LB_100Y	G0020	G	12.04	88.18	10.435	484277
LB_100Y	G0030	G	12.31	48.43	9.882	470139
LB_100Y	G0040	G	12.67	38.42	9.56	550020
LB_100Y	G0050	G	12.42	21.22	10.24	238457
LB_100Y	G0060	G	12.42	43.22	10.233	491990
LB_100Y	G0070	G	12.06	39.53	10.07	218816
LB_100Y	G0080	G	12.04	76.4	10.232	416141
LB_100Y	G0090	G	12.12	22.76	8.965	150534
LB_100Y	G0100	G	12.04	5.71	9.164	30081
LB_100Y	G0110	G	12.5	35.64	9.971	430916
LB_100Y	G0120	G	12.15	15.83	9.35	116454
LB_100Y	G0130	G	12.67	34.36	9.759	475708
LB_100Y	G0140	G	12.32	14.81	9.176	137396
LB_100Y	G0150	G	12.1	77	10.205	531987
LB_100Y	G0160	G	13	49.13	10.24	873572
LB_100Y	G0170	G	13.17	89.94	10.376	1799648
LB_100Y	H0010	H	12.21	37.54	9.305	306557
LB_100Y	H0020	H	12.16	86.32	9.33	634534
LB_100Y	H0030	H	12.19	16.61	9.904	132079
LB_100Y	H0040	H	12.05	50.6	9.7	271855
LB_100Y	H0050	H	12.92	93.7	9.146	1529199
LB_100Y	H0060	H	12.22	21.45	10.204	180546
LB_100Y	H0070	H	12.42	78.56	10.207	866126
LB_100Y	H0080	H	12.2	36.46	9.038	292655
LB_100Y	H0090	H	12.5	57.45	9.99	711459
LB_100Y	J0010	J	12.04	19.12	10.094	103585
LB_100Y	J0020	J	12.11	80.01	10.108	532751
LB_100Y	J0030	J	12.75	26.52	10.201	414745
LB_100Y	J0040	J	12.04	22.74	10.017	122889
LB_100Y	J0050	J	12.04	19.64	10.02	106107
LB_100Y	J0060	J	12.05	10.99	9.982	62188
LB_100Y	J0070	J	12.04	14.95	10.115	81088
LB_100Y	J0080	J	12.04	43.67	9.811	234299
LB_100Y	J0090	J	12.75	72.14	10.39	1099123
LB_100Y	J0100	J	12.27	24.3	9.714	211571
LB_100Y	J0110	J	12.67	49.9	9.335	683960
LB_100Y	J0120	J	12.67	17.77	10.238	249833
LB_100Y	J0130	J	13	33.96	9.397	588733
LB_100Y	J0140	J	12.3	22.56	9.878	206176
LB_100Y	J0150	J	12.5	33.32	10.115	395292

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_100Y	J0160	J	13.08	86.06	10.021	1602816
LB_100Y	J0170	J	12.58	48.29	10.197	624560
LB_100Y	J0190	J	12.04	39.72	9.941	214043
LB_100Y	J0200	J	12.42	26.06	9.77	278771
LB_100Y	J0210	J	12.17	47.41	10.154	393894
LB_100Y	J0220	J	12.24	25.82	10.045	237822
LB_100Y	J0230	J	12.92	47.75	9.672	809168
LB_100Y	J0240	J	13.42	34.47	9.888	771983
LB_100Y	J0250	J	12.31	28.74	10.209	285523
LB_100Y	J0260	J	12.75	13.32	9.115	199236
LB_100Y	K0010	K	12.5	30.51	10.525	359336
LB_100Y	K0020	K	12.04	20.52	10.293	112052
LB_100Y	K0030	K	12.58	51.86	8.953	647435
LB_100Y	K0040	K	12.04	94.98	10.123	515180
LB_100Y	K0050	K	12.67	26.45	9.503	377106
LB_100Y	K0060	K	12.3	33.23	9.973	307789
LB_100Y	K0070	K	12.42	65.72	9.171	725071
LB_100Y	K0080	K	12.23	18.41	9.835	158279
LB_100Y	K0090	K	12.42	22.45	8.906	247138
LB_100Y	K0100	K	12.5	5.31	9.957	61769
LB_100Y	K0110	K	12.07	20.25	10.079	122287
LB_100Y	K0120	K	12.05	44.71	10.496	254577
LB_100Y	K0130	K	12.06	14.38	9.525	83672
LB_100Y	K0140	K	12.07	43.23	9.611	268129
LB_100Y	K0150	K	12.42	38.29	9.678	421550
LB_100Y	K0160	K	12.04	24.37	9.493	131581
LB_50Y	A0010	A	12.33	19.24	7.387	190622
LB_50Y	A0020	A	12.11	105.7	9.176	755535
LB_50Y	A0030	A	12.1	64.95	9.045	431485
LB_50Y	A0040	A	12.07	43.95	8.782	280434
LB_50Y	A0050	A	12.32	18.94	8.64	187044
LB_50Y	A0060	A	12.25	6.9	8.527	62940
LB_50Y	A0070	A	12.22	9.25	8.509	76495
LB_50Y	A0080	A	12.18	254.14	8.817	2106840
LB_50Y	B0010	B	12.06	9.54	8.755	53518
LB_50Y	B0020	B	12.05	42.96	8.226	229683
LB_50Y	B0030	B	12.31	36.55	8.744	341584
LB_50Y	B0040	B	12.04	36.52	8.513	195412
LB_50Y	B0050	B	12.2	62.82	8.793	505376
LB_50Y	B0055	B	12.21	12.41	9.491	114020
LB_50Y	B0060	B	12.1	28.91	8.674	183854

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_50Y	B0070	B	12.04	17.06	8.664	91830
LB_50Y	B0080	B	13.42	46.08	8.187	1020342
LB_50Y	B0090	B	12.1	43.45	8.342	296599
LB_50Y	C0010	C	12.07	24.45	7.815	146398
LB_50Y	C0020	C	12.34	23.41	8.542	231900
LB_50Y	C0030	C	12.42	25.96	8.529	272085
LB_50Y	C0040	C	12.33	20.42	7.926	203091
LB_50Y	C0050	C	12.34	67.46	8.917	663751
LB_50Y	C0060	C	12.04	13.49	8.52	72231
LB_50Y	C0070	C	12.13	70.4	9.02	502184
LB_50Y	C0080	C	12.35	149.05	9.035	1497745
LB_50Y	C0090	C	12.5	239	9.469	2856750
LB_50Y	C0105	C	12.04	19.02	8.922	103480
LB_50Y	C0110	C	12.28	2.35	8.507	22861
LB_50Y	C0115	C	12.04	39.3	8.788	212552
LB_50Y	C0120	C	12.04	23.7	9.561	133282
LB_50Y	C0130	C	12.21	10.39	9.251	92687
LB_50Y	C0140	C	12.26	10.95	9.346	99433
LB_50Y	C0150	C	12.28	13.96	8.483	126329
LB_50Y	C0160	C	12.05	56.88	9.14	324311
LB_50Y	C0160B	C	12.29	8.59	8.174	82490
LB_50Y	C0170	C	12.32	22.81	8.296	223380
LB_50Y	D0010	D	12.04	5.58	8.507	30573
LB_50Y	D0020	D	12.04	2.13	8.513	11386
LB_50Y	D0030	D	12.06	32.66	8.652	197360
LB_50Y	D0040	D	12.04	37.84	8.431	201932
LB_50Y	D0050	D	12.09	42.9	8.671	259442
LB_50Y	D0060	D	12.04	45.12	8.656	242709
LB_50Y	D0070	D	12.42	58.56	8.773	674462
LB_50Y	D0080	D	12.25	5.4	8.692	48001
LB_50Y	D0090	D	13.58	156.09	8.732	3823479
LB_50Y	D0100	D	12.67	92.12	8.807	1288265
LB_50Y	D0110	D	12.83	33.42	8.765	543535
LB_50Y	D0120	D	12.04	33.88	8.968	184673
LB_50Y	D0130	D	12.15	139.89	8.722	995466
LB_50Y	D0140	D	12.3	3.14	8.589	28989
LB_50Y	D0150	D	12.58	21.22	8.518	271876
LB_50Y	D0160	D	12.12	21.3	8.511	145176
LB_50Y	D0170	D	12.04	29.51	8.685	158908
LB_50Y	D0180	D	12.27	16.53	8.513	146845
LB_50Y	D0190	D	12.83	96.02	8.989	1601486

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_50Y	D0200	D	12.37	5.81	8.739	58779
LB_50Y	D0210	D	12.24	36.26	8.822	306311
LB_50Y	D0220	D	12.42	93.97	7.55	1030795
LB_50Y	D0230	D	13.33	12.31	8.89	269210
LB_50Y	D0240	D	12.17	7.64	7.483	59494
LB_50Y	D0250	D	12.21	36.63	8.001	290233
LB_50Y	D0260	D	12.42	24.8	7.502	253650
LB_50Y	D0270	D	12.04	60.79	8.065	320723
LB_50Y	D0280	D	12.04	18.6	7.252	96416
LB_50Y	D0290	D	12.3	18.72	7.61	172100
LB_50Y	E0010	E	12.42	35.24	8.815	404897
LB_50Y	E0020	E	12.04	24.8	8.834	134364
LB_50Y	E0030	E	12.92	29.96	8.766	520726
LB_50Y	E0040	E	12.42	43.71	8.779	473211
LB_50Y	E0050	E	12.42	12.45	8.769	140616
LB_50Y	E0060	E	12.04	40.14	9.231	221554
LB_50Y	E0070	E	12.83	101.25	8.819	1599362
LB_50Y	E0080	E	12.14	40.34	8.767	309424
LB_50Y	E0090	E	12.24	38.31	9.001	334759
LB_50Y	E0100	E	12.27	24.73	9.004	241497
LB_50Y	F0010	F	12.36	17.69	7.556	169172
LB_50Y	F0020	F	12.1	13.34	7.932	91382
LB_50Y	F0030	F	12.13	14.08	7.813	100622
LB_50Y	F0040	F	12.07	208.61	9.016	1298212
LB_50Y	F0050	F	12.04	49.07	8.792	265417
LB_50Y	F0060	F	12.83	86.95	9.809	1503578
LB_50Y	G0010	G	12.22	17.99	8.765	151320
LB_50Y	G0020	G	12.04	76.3	8.955	415617
LB_50Y	G0030	G	12.31	41.51	8.42	400555
LB_50Y	G0040	G	12.75	32.71	8.11	466549
LB_50Y	G0050	G	12.42	18.27	8.766	204135
LB_50Y	G0060	G	12.42	37.21	8.759	421118
LB_50Y	G0070	G	12.06	34.04	8.601	186897
LB_50Y	G0080	G	12.04	65.94	8.758	356196
LB_50Y	G0090	G	12.12	19.25	7.541	126626
LB_50Y	G0100	G	12.04	4.85	7.731	25375
LB_50Y	G0110	G	12.5	30.57	8.506	367616
LB_50Y	G0120	G	12.15	13.46	7.909	98499
LB_50Y	G0130	G	12.67	29.36	8.301	404644
LB_50Y	G0140	G	12.32	12.56	7.742	115923
LB_50Y	G0150	G	12.1	66.35	8.732	455199

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_50Y	G0160	G	13	42.26	8.766	747838
LB_50Y	G0170	G	13.17	77.46	8.898	1543332
LB_50Y	H0010	H	12.21	31.89	7.865	259128
LB_50Y	H0020	H	12.16	73.39	7.889	536540
LB_50Y	H0030	H	12.19	14.25	8.441	112568
LB_50Y	H0040	H	12.05	43.35	8.244	231050
LB_50Y	H0050	H	12.92	79.2	7.714	1289671
LB_50Y	H0060	H	12.22	18.48	8.732	154489
LB_50Y	H0070	H	12.42	67.65	8.735	741211
LB_50Y	H0080	H	12.2	30.83	7.611	246445
LB_50Y	H0090	H	12.5	49.28	8.524	607075
LB_50Y	J0010	J	12.04	16.47	8.624	88502
LB_50Y	J0020	J	12.11	68.88	8.638	455268
LB_50Y	J0030	J	12.83	22.8	8.728	354859
LB_50Y	J0040	J	12.04	19.57	8.55	104889
LB_50Y	J0050	J	12.04	16.9	8.553	90568
LB_50Y	J0060	J	12.05	9.45	8.516	53054
LB_50Y	J0070	J	12.04	12.89	8.645	69301
LB_50Y	J0080	J	12.04	37.47	8.35	199426
LB_50Y	J0090	J	12.75	62.21	8.912	942826
LB_50Y	J0100	J	12.27	20.79	8.258	179855
LB_50Y	J0110	J	12.67	42.35	7.894	578388
LB_50Y	J0120	J	12.67	15.3	8.764	213874
LB_50Y	J0130	J	13	28.82	7.953	498287
LB_50Y	J0140	J	12.3	19.34	8.416	175655
LB_50Y	J0150	J	12.5	28.65	8.645	337861
LB_50Y	J0160	J	13.08	73.75	8.554	1368141
LB_50Y	J0170	J	12.58	41.55	8.724	534353
LB_50Y	J0190	J	12.04	34.15	8.477	182506
LB_50Y	J0200	J	12.42	22.3	8.313	237205
LB_50Y	J0210	J	12.17	40.8	8.683	336832
LB_50Y	J0220	J	12.24	22.18	8.577	203065
LB_50Y	J0230	J	12.92	40.71	8.217	687441
LB_50Y	J0240	J	13.42	29.45	8.426	657781
LB_50Y	J0250	J	12.31	24.75	8.736	244329
LB_50Y	J0260	J	12.75	11.26	7.685	167965
LB_50Y	K0010	K	12.5	26.38	9.043	308733
LB_50Y	K0020	K	12.04	17.73	8.818	95988
LB_50Y	K0030	K	12.58	43.74	7.531	544541
LB_50Y	K0040	K	12.04	81.86	8.652	440334
LB_50Y	K0050	K	12.67	22.5	8.055	319621

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_50Y	K0060	K	12.3	28.53	8.508	262568
LB_50Y	K0070	K	12.42	55.63	7.737	611718
LB_50Y	K0080	K	12.23	15.77	8.374	134772
LB_50Y	K0090	K	12.42	18.91	7.485	207708
LB_50Y	K0100	K	12.5	4.56	8.492	52679
LB_50Y	K0110	K	12.07	17.44	8.61	104462
LB_50Y	K0120	K	12.05	38.71	9.015	218663
LB_50Y	K0130	K	12.06	12.27	8.076	70942
LB_50Y	K0140	K	12.07	36.94	8.158	227606
LB_50Y	K0150	K	12.42	32.7	8.224	358182
LB_50Y	K0160	K	12.04	20.81	8.045	111510
LB_25Y	A0010	A	12.33	15.63	5.993	154647
LB_25Y	A0020	A	12.11	89.38	7.696	633676
LB_25Y	A0030	A	12.1	54.82	7.569	361065
LB_25Y	A0040	A	12.07	36.91	7.315	233585
LB_25Y	A0050	A	12.32	15.85	7.179	155417
LB_25Y	A0060	A	12.25	5.76	7.071	52190
LB_25Y	A0070	A	12.22	7.72	7.053	63405
LB_25Y	A0080	A	12.18	213.38	7.349	1756045
LB_25Y	B0010	B	12.06	8.02	7.289	44555
LB_25Y	B0020	B	12.05	35.74	6.783	189389
LB_25Y	B0030	B	12.31	30.66	7.278	284330
LB_25Y	B0040	B	12.04	30.55	7.057	161979
LB_25Y	B0050	B	12.2	52.76	7.326	421044
LB_25Y	B0055	B	12.21	10.54	8.003	96146
LB_25Y	B0060	B	12.1	24.24	7.211	152842
LB_25Y	B0070	B	12.04	14.32	7.201	76327
LB_25Y	B0080	B	13.42	38.02	6.746	840728
LB_25Y	B0090	B	12.1	36.15	6.894	245102
LB_25Y	C0010	C	12.07	20.12	6.394	119778
LB_25Y	C0020	C	12.34	19.55	7.085	192341
LB_25Y	C0030	C	12.42	21.68	7.074	225660
LB_25Y	C0040	C	12.33	16.81	6.499	166516
LB_25Y	C0050	C	12.34	56.76	7.445	554178
LB_25Y	C0060	C	12.04	11.29	7.063	59881
LB_25Y	C0070	C	12.13	59.39	7.545	420051
LB_25Y	C0080	C	12.35	125.67	7.56	1253119
LB_25Y	C0090	C	12.5	202.91	7.981	2407819
LB_25Y	C0105	C	12.04	16.04	7.45	86404
LB_25Y	C0110	C	12.28	1.96	7.051	18950
LB_25Y	C0115	C	12.04	33.05	7.321	177057

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_25Y	C0120	C	12.04	20.18	8.071	112513
LB_25Y	C0130	C	12.21	8.79	7.769	77837
LB_25Y	C0140	C	12.26	9.29	7.861	83635
LB_25Y	C0150	C	12.28	11.65	7.029	104667
LB_25Y	C0160	C	12.05	48.12	7.661	271831
LB_25Y	C0160B	C	12.29	7.11	6.734	67956
LB_25Y	C0170	C	12.32	18.94	6.851	184451
LB_25Y	D0010	D	12.04	4.66	7.051	25340
LB_25Y	D0020	D	12.04	1.78	7.057	9438
LB_25Y	D0030	D	12.06	27.37	7.19	164005
LB_25Y	D0040	D	12.04	31.61	6.978	167134
LB_25Y	D0050	D	12.09	35.99	7.208	215669
LB_25Y	D0060	D	12.04	37.85	7.193	201702
LB_25Y	D0070	D	12.5	49.09	7.305	561631
LB_25Y	D0080	D	12.25	4.52	7.228	39919
LB_25Y	D0090	D	13.58	130.26	7.266	3181766
LB_25Y	D0100	D	12.67	77.23	7.339	1073569
LB_25Y	D0110	D	12.83	27.97	7.298	452607
LB_25Y	D0120	D	12.04	28.59	7.494	154322
LB_25Y	D0130	D	12.15	117.37	7.257	828256
LB_25Y	D0140	D	12.3	2.63	7.13	24063
LB_25Y	D0150	D	12.58	17.69	7.062	225383
LB_25Y	D0160	D	12.12	17.8	7.054	120337
LB_25Y	D0170	D	12.04	24.77	7.221	132128
LB_25Y	D0180	D	12.27	13.8	7.057	121722
LB_25Y	D0190	D	12.92	80.71	7.514	1338786
LB_25Y	D0200	D	12.37	4.87	7.274	48922
LB_25Y	D0210	D	12.24	30.47	7.354	255332
LB_25Y	D0220	D	12.42	76.61	6.146	839020
LB_25Y	D0230	D	13.33	10.31	7.419	224659
LB_25Y	D0240	D	12.17	6.22	6.082	48361
LB_25Y	D0250	D	12.21	30.25	6.57	238313
LB_25Y	D0260	D	12.42	20.23	6.102	206304
LB_25Y	D0270	D	12.04	50.39	6.63	263659
LB_25Y	D0280	D	12.04	15.12	5.867	78004
LB_25Y	D0290	D	12.3	15.31	6.202	140254
LB_25Y	E0010	E	12.42	29.55	7.346	337418
LB_25Y	E0020	E	12.04	20.87	7.365	112017
LB_25Y	E0030	E	12.92	25.07	7.299	433614
LB_25Y	E0040	E	12.42	36.67	7.313	394217
LB_25Y	E0050	E	12.42	10.43	7.302	117093



Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_25Y	E0060	E	12.04	34.01	7.749	185985
LB_25Y	E0070	E	12.83	84.86	7.35	1333038
LB_25Y	E0080	E	12.14	33.84	7.3	257660
LB_25Y	E0090	E	12.24	32.29	7.527	279911
LB_25Y	E0100	E	12.27	20.83	7.529	201934
LB_25Y	F0010	F	12.36	14.45	6.151	137722
LB_25Y	F0020	F	12.1	11	6.504	74937
LB_25Y	F0030	F	12.13	11.57	6.392	82322
LB_25Y	F0040	F	12.07	176.02	7.541	1085796
LB_25Y	F0050	F	12.04	41.27	7.324	221108
LB_25Y	F0060	F	12.83	74.11	8.315	1274528
LB_25Y	G0010	G	12.22	15.09	7.298	126005
LB_25Y	G0020	G	12.04	64.36	7.482	347232
LB_25Y	G0030	G	12.31	34.56	6.967	331466
LB_25Y	G0040	G	12.75	27.01	6.672	383852
LB_25Y	G0050	G	12.42	15.32	7.299	169986
LB_25Y	G0060	G	12.42	31.18	7.292	350604
LB_25Y	G0070	G	12.06	28.53	7.141	155168
LB_25Y	G0080	G	12.04	55.43	7.291	296555
LB_25Y	G0090	G	12.12	15.74	6.137	103049
LB_25Y	G0100	G	12.04	3.99	6.314	20727
LB_25Y	G0110	G	12.5	25.48	7.051	304728
LB_25Y	G0120	G	12.15	11.09	6.483	80737
LB_25Y	G0130	G	12.67	24.36	6.855	334140
LB_25Y	G0140	G	12.32	10.31	6.325	94712
LB_25Y	G0150	G	12.1	55.65	7.267	378810
LB_25Y	G0160	G	13	35.36	7.299	622732
LB_25Y	G0170	G	13.17	64.94	7.427	1288119
LB_25Y	H0010	H	12.21	26.25	6.442	212225
LB_25Y	H0020	H	12.16	60.45	6.464	439617
LB_25Y	H0030	H	12.19	11.88	6.988	93193
LB_25Y	H0040	H	12.05	36.07	6.8	190583
LB_25Y	H0050	H	12.92	64.75	6.299	1053106
LB_25Y	H0060	H	12.22	15.5	7.267	128568
LB_25Y	H0070	H	12.42	56.69	7.27	616939
LB_25Y	H0080	H	12.2	25.22	6.203	200846
LB_25Y	H0090	H	12.5	41.07	7.068	503361
LB_25Y	J0010	J	12.04	13.81	7.163	73507
LB_25Y	J0020	J	12.11	57.7	7.176	378231
LB_25Y	J0030	J	12.83	19.08	7.263	295286
LB_25Y	J0040	J	12.04	16.39	7.092	87001

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_25Y	J0050	J	12.04	14.15	7.094	75126
LB_25Y	J0060	J	12.05	7.9	7.059	43979
LB_25Y	J0070	J	12.04	10.81	7.183	57581
LB_25Y	J0080	J	12.04	31.25	6.901	164816
LB_25Y	J0090	J	12.75	52.25	7.441	787185
LB_25Y	J0100	J	12.27	17.26	6.813	148399
LB_25Y	J0110	J	12.67	34.8	6.469	473965
LB_25Y	J0120	J	12.67	12.81	7.298	178095
LB_25Y	J0130	J	13	23.69	6.525	408784
LB_25Y	J0140	J	12.3	16.12	6.964	145351
LB_25Y	J0150	J	12.5	23.96	7.184	280756
LB_25Y	J0160	J	13.08	61.42	7.096	1134930
LB_25Y	J0170	J	12.58	34.79	7.259	444620
LB_25Y	J0190	J	12.04	28.55	7.022	151180
LB_25Y	J0200	J	12.42	18.53	6.867	195961
LB_25Y	J0210	J	12.17	34.16	7.22	280082
LB_25Y	J0220	J	12.31	18.54	7.118	168521
LB_25Y	J0230	J	12.92	33.65	6.775	566745
LB_25Y	J0240	J	13.42	24.43	6.973	544385
LB_25Y	J0250	J	12.31	20.74	7.271	203348
LB_25Y	J0260	J	12.75	9.19	6.272	137088
LB_25Y	K0010	K	12.5	22.24	7.566	258313
LB_25Y	K0020	K	12.04	14.92	7.349	80001
LB_25Y	K0030	K	12.58	35.65	6.127	443081
LB_25Y	K0040	K	12.04	68.67	7.19	365911
LB_25Y	K0050	K	12.75	18.55	6.62	262693
LB_25Y	K0060	K	12.3	23.81	7.052	217641
LB_25Y	K0070	K	12.42	45.57	6.321	499744
LB_25Y	K0080	K	12.23	13.13	6.924	111439
LB_25Y	K0090	K	12.42	15.39	6.084	168844
LB_25Y	K0100	K	12.5	3.8	7.036	43650
LB_25Y	K0110	K	12.07	14.6	7.15	86742
LB_25Y	K0120	K	12.05	32.68	7.54	182881
LB_25Y	K0130	K	12.06	10.17	6.64	58334
LB_25Y	K0140	K	12.07	30.63	6.719	187443
LB_25Y	K0150	K	12.42	27.1	6.781	295347
LB_25Y	K0160	K	12.04	17.24	6.611	91635
LB_10Y	A0010	A	12.33	12.05	4.63	119477
LB_10Y	A0020	A	12.11	72.96	6.223	512372
LB_10Y	A0030	A	12.1	44.64	6.101	291029
LB_10Y	A0040	A	12.1	29.85	5.858	187086

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_10Y	A0050	A	12.32	12.74	5.731	124063
LB_10Y	A0060	A	12.25	4.61	5.628	41543
LB_10Y	A0070	A	12.22	6.19	5.611	50444
LB_10Y	A0080	A	12.18	172.4	5.891	1407762
LB_10Y	B0010	B	12.06	6.49	5.834	35662
LB_10Y	B0020	B	12.05	28.5	5.358	149602
LB_10Y	B0030	B	12.31	24.73	5.824	227522
LB_10Y	B0040	B	12.04	24.56	5.614	128874
LB_10Y	B0050	B	12.2	42.63	5.869	337333
LB_10Y	B0055	B	12.28	8.67	6.519	78320
LB_10Y	B0060	B	12.1	19.55	5.76	122090
LB_10Y	B0070	B	12.04	11.56	5.751	60954
LB_10Y	B0080	B	13.42	30	5.323	663449
LB_10Y	B0090	B	12.1	28.83	5.462	194193
LB_10Y	C0010	C	12.07	15.81	4.997	93613
LB_10Y	C0020	C	12.34	15.67	5.642	153158
LB_10Y	C0030	C	12.42	17.38	5.632	179677
LB_10Y	C0040	C	12.33	13.21	5.094	130521
LB_10Y	C0050	C	12.34	46.01	5.982	445307
LB_10Y	C0060	C	12.04	9.08	5.62	47650
LB_10Y	C0070	C	12.13	48.31	6.078	338380
LB_10Y	C0080	C	12.35	102.16	6.092	1009843
LB_10Y	C0090	C	12.5	166.64	6.497	1960164
LB_10Y	C0105	C	12.04	13.03	5.987	69436
LB_10Y	C0110	C	12.36	1.57	5.61	15076
LB_10Y	C0115	C	12.04	26.77	5.864	141826
LB_10Y	C0120	C	12.04	16.64	6.585	91793
LB_10Y	C0130	C	12.21	7.18	6.293	63048
LB_10Y	C0140	C	12.26	7.61	6.381	67891
LB_10Y	C0150	C	12.28	9.33	5.589	83223
LB_10Y	C0160	C	12.05	39.31	6.189	219603
LB_10Y	C0160B	C	12.29	5.63	5.313	53614
LB_10Y	C0170	C	12.32	15.07	5.422	145983
LB_10Y	D0010	D	12.04	3.75	5.609	20159
LB_10Y	D0020	D	12.04	1.43	5.614	7509
LB_10Y	D0030	D	12.09	22.05	5.74	130936
LB_10Y	D0040	D	12.04	25.35	5.541	132703
LB_10Y	D0050	D	12.09	29.03	5.757	172265
LB_10Y	D0060	D	12.04	30.55	5.743	161046
LB_10Y	D0070	D	12.5	39.6	5.849	449658
LB_10Y	D0080	D	12.25	3.64	5.777	31903

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_10Y	D0090	D	13.58	104.43	5.812	2545122
LB_10Y	D0100	D	12.67	62.28	5.882	860429
LB_10Y	D0110	D	12.83	22.5	5.843	362370
LB_10Y	D0120	D	12.04	23.26	6.029	124155
LB_10Y	D0130	D	12.15	94.73	5.803	662379
LB_10Y	D0140	D	12.3	2.11	5.684	19183
LB_10Y	D0150	D	12.58	14.15	5.619	179344
LB_10Y	D0160	D	12.12	14.28	5.613	95743
LB_10Y	D0170	D	12.04	20	5.769	105569
LB_10Y	D0180	D	12.27	11.06	5.614	96845
LB_10Y	D0190	D	12.92	65.37	6.049	1077629
LB_10Y	D0200	D	12.37	3.93	5.82	39142
LB_10Y	D0210	D	12.24	24.65	5.896	204717
LB_10Y	D0220	D	12.5	59.43	4.769	651137
LB_10Y	D0230	D	13.33	8.31	5.958	180402
LB_10Y	D0240	D	12.22	4.83	4.712	37464
LB_10Y	D0250	D	12.21	23.87	5.16	187171
LB_10Y	D0260	D	12.42	15.7	4.73	159940
LB_10Y	D0270	D	12.04	39.97	5.216	207410
LB_10Y	D0280	D	12.04	11.68	4.516	60038
LB_10Y	D0290	D	12.3	11.92	4.821	109030
LB_10Y	E0010	E	12.5	23.86	5.888	270427
LB_10Y	E0020	E	12.04	16.92	5.906	89828
LB_10Y	E0030	E	12.92	20.15	5.844	347163
LB_10Y	E0040	E	12.42	29.6	5.859	315808
LB_10Y	E0050	E	12.42	8.41	5.846	93748
LB_10Y	E0060	E	12.04	27.85	6.273	150566
LB_10Y	E0070	E	12.83	68.41	5.892	1068623
LB_10Y	E0080	E	12.14	27.31	5.845	206289
LB_10Y	E0090	E	12.24	26.23	6.06	225380
LB_10Y	E0100	E	12.34	16.91	6.062	162599
LB_10Y	F0010	F	12.36	11.24	4.775	106907
LB_10Y	F0020	F	12.15	8.67	5.099	58751
LB_10Y	F0030	F	12.13	9.07	4.995	64335
LB_10Y	F0040	F	12.07	143.22	6.074	874583
LB_10Y	F0050	F	12.04	33.43	5.867	177128
LB_10Y	F0060	F	12.83	61.22	6.822	1045776
LB_10Y	G0010	G	12.22	12.19	5.843	100882
LB_10Y	G0020	G	12.04	52.35	6.017	279266
LB_10Y	G0030	G	12.31	27.59	5.531	263115
LB_10Y	G0040	G	12.75	21.33	5.255	302299

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_10Y	G0050	G	12.42	12.35	5.844	136095
LB_10Y	G0060	G	12.42	25.12	5.837	280631
LB_10Y	G0070	G	12.06	22.99	5.694	123726
LB_10Y	G0080	G	12.04	44.86	5.836	237371
LB_10Y	G0090	G	12.12	12.25	4.761	79953
LB_10Y	G0100	G	12.04	3.13	4.924	16163
LB_10Y	G0110	G	12.5	20.38	5.61	242456
LB_10Y	G0120	G	12.15	8.72	5.079	63260
LB_10Y	G0130	G	12.67	19.35	5.425	264467
LB_10Y	G0140	G	12.32	8.06	4.934	73881
LB_10Y	G0150	G	12.1	44.9	5.813	303024
LB_10Y	G0160	G	13	28.44	5.844	498577
LB_10Y	G0170	G	13.17	52.38	5.965	1034577
LB_10Y	H0010	H	12.21	20.61	5.042	166097
LB_10Y	H0020	H	12.16	47.54	5.062	344267
LB_10Y	H0030	H	12.19	9.5	5.551	74021
LB_10Y	H0040	H	12.05	28.77	5.374	150617
LB_10Y	H0050	H	12.92	50.4	4.91	820870
LB_10Y	H0060	H	12.22	12.5	5.813	102851
LB_10Y	H0070	H	12.42	45.68	5.817	493635
LB_10Y	H0080	H	12.2	19.63	4.822	156137
LB_10Y	H0090	H	12.5	32.85	5.625	400648
LB_10Y	J0010	J	12.04	11.14	5.715	58645
LB_10Y	J0020	J	12.11	46.46	5.727	301863
LB_10Y	J0030	J	12.83	15.34	5.809	236185
LB_10Y	J0040	J	12.04	13.19	5.647	69283
LB_10Y	J0050	J	12.04	11.39	5.65	59831
LB_10Y	J0060	J	12.05	6.35	5.617	34993
LB_10Y	J0070	J	12.04	8.72	5.733	45962
LB_10Y	J0080	J	12.04	25	5.468	130599
LB_10Y	J0090	J	12.75	42.24	5.979	632541
LB_10Y	J0100	J	12.27	13.73	5.387	117327
LB_10Y	J0110	J	12.67	27.28	5.066	371229
LB_10Y	J0120	J	12.67	10.32	5.843	142588
LB_10Y	J0130	J	13	18.59	5.118	320668
LB_10Y	J0140	J	12.3	12.88	5.528	115372
LB_10Y	J0150	J	12.5	19.25	5.735	224141
LB_10Y	J0160	J	13.08	49.07	5.651	903920
LB_10Y	J0170	J	12.58	28	5.806	355600
LB_10Y	J0190	J	12.04	22.93	5.581	120173
LB_10Y	J0200	J	12.42	14.76	5.439	155193

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_10Y	J0210	J	12.23	27.52	5.769	223801
LB_10Y	J0220	J	12.31	14.89	5.672	134295
LB_10Y	J0230	J	12.92	26.62	5.35	447582
LB_10Y	J0240	J	13.42	19.42	5.536	432193
LB_10Y	J0250	J	12.31	16.71	5.817	162688
LB_10Y	J0260	J	12.83	7.15	4.886	106785
LB_10Y	K0010	K	12.5	18.07	6.097	208171
LB_10Y	K0020	K	12.04	12.09	5.891	64128
LB_10Y	K0030	K	12.58	27.63	4.753	343701
LB_10Y	K0040	K	12.04	55.42	5.74	292128
LB_10Y	K0050	K	12.75	14.63	5.206	206586
LB_10Y	K0060	K	12.3	19.08	5.611	173156
LB_10Y	K0070	K	12.42	35.55	4.93	389787
LB_10Y	K0080	K	12.23	10.47	5.491	88365
LB_10Y	K0090	K	12.5	11.92	4.713	130800
LB_10Y	K0100	K	12.5	3.04	5.595	34711
LB_10Y	K0110	K	12.07	11.76	5.702	69181
LB_10Y	K0120	K	12.05	26.61	6.073	147303
LB_10Y	K0130	K	12.06	8.06	5.225	45904
LB_10Y	K0140	K	12.1	24.34	5.298	147814
LB_10Y	K0150	K	12.42	21.49	5.356	233303
LB_10Y	K0160	K	12.04	13.66	5.198	72048
LB_5YR	A0010	A	12.42	8.59	3.315	85535
LB_5YR	A0020	A	12.11	56.44	4.76	391981
LB_5YR	A0030	A	12.1	34.38	4.646	221623
LB_5YR	A0040	A	12.1	22.77	4.42	141153
LB_5YR	A0050	A	12.32	9.62	4.303	93146
LB_5YR	A0060	A	12.25	3.46	4.208	31062
LB_5YR	A0070	A	12.22	4.66	4.193	37689
LB_5YR	A0080	A	12.23	131.42	4.451	1063549
LB_5YR	B0010	B	12.06	4.95	4.397	26879
LB_5YR	B0020	B	12.05	21.26	3.962	110616
LB_5YR	B0030	B	12.31	18.79	4.388	171432
LB_5YR	B0040	B	12.04	18.55	4.195	96294
LB_5YR	B0050	B	12.2	32.47	4.43	254627
LB_5YR	B0055	B	12.28	6.78	5.042	60575
LB_5YR	B0060	B	12.1	14.84	4.329	91756
LB_5YR	B0070	B	12.04	8.78	4.321	45793
LB_5YR	B0080	B	13.42	22.07	3.93	489849
LB_5YR	B0090	B	12.1	21.52	4.056	144215
LB_5YR	C0010	C	12.07	11.53	3.638	68155

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_5YR	C0020	C	12.34	11.79	4.22	114577
LB_5YR	C0030	C	12.42	13.08	4.213	134403
LB_5YR	C0040	C	12.33	9.64	3.724	95428
LB_5YR	C0050	C	12.34	35.2	4.535	337578
LB_5YR	C0060	C	12.04	6.86	4.2	35612
LB_5YR	C0070	C	12.13	37.16	4.625	257464
LB_5YR	C0080	C	12.35	78.52	4.638	768776
LB_5YR	C0090	C	12.5	130.14	5.02	1514636
LB_5YR	C0105	C	12.04	10.01	4.539	52646
LB_5YR	C0110	C	12.36	1.18	4.191	11265
LB_5YR	C0115	C	12.04	20.45	4.425	107021
LB_5YR	C0120	C	12.04	13.08	5.104	71155
LB_5YR	C0130	C	12.21	5.56	4.827	48358
LB_5YR	C0140	C	12.26	5.92	4.91	52241
LB_5YR	C0150	C	12.28	7.01	4.172	62127
LB_5YR	C0160	C	12.05	30.43	4.729	167789
LB_5YR	C0160B	C	12.37	4.17	3.921	39571
LB_5YR	C0170	C	12.32	11.21	4.02	108244
LB_5YR	D0010	D	12.04	2.83	4.191	15060
LB_5YR	D0020	D	12.04	1.08	4.195	5611
LB_5YR	D0030	D	12.09	16.74	4.311	98327
LB_5YR	D0040	D	12.04	19.08	4.128	98860
LB_5YR	D0050	D	12.09	22.05	4.327	129452
LB_5YR	D0060	D	12.04	23.21	4.314	120952
LB_5YR	D0070	D	12.5	30.09	4.41	339069
LB_5YR	D0080	D	12.25	2.76	4.345	23994
LB_5YR	D0090	D	13.67	78.7	4.377	1916657
LB_5YR	D0100	D	12.67	47.29	4.442	649807
LB_5YR	D0110	D	12.83	17.03	4.406	273248
LB_5YR	D0120	D	12.04	17.9	4.579	94285
LB_5YR	D0130	D	12.15	72	4.369	498654
LB_5YR	D0140	D	12.3	1.59	4.259	14375
LB_5YR	D0150	D	12.58	10.61	4.199	134032
LB_5YR	D0160	D	12.12	10.75	4.194	71538
LB_5YR	D0170	D	12.04	15.22	4.338	79369
LB_5YR	D0180	D	12.27	8.31	4.195	72362
LB_5YR	D0190	D	12.92	49.97	4.597	818987
LB_5YR	D0200	D	12.37	2.98	4.384	29486
LB_5YR	D0210	D	12.24	18.8	4.455	154690
LB_5YR	D0220	D	12.5	42.69	3.437	469221
LB_5YR	D0230	D	13.33	6.31	4.512	136625

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_5YR	D0240	D	12.22	3.46	3.387	26927
LB_5YR	D0250	D	12.21	17.55	3.784	137243
LB_5YR	D0260	D	12.42	11.25	3.404	115082
LB_5YR	D0270	D	12.04	29.59	3.833	152440
LB_5YR	D0280	D	12.04	8.31	3.215	42747
LB_5YR	D0290	D	12.3	8.58	3.483	78761
LB_5YR	E0010	E	12.5	18.16	4.446	204229
LB_5YR	E0020	E	12.04	12.95	4.464	67895
LB_5YR	E0030	E	13	15.25	4.407	261782
LB_5YR	E0040	E	12.42	22.5	4.422	238344
LB_5YR	E0050	E	12.42	6.38	4.408	70691
LB_5YR	E0060	E	12.04	21.64	4.808	115395
LB_5YR	E0070	E	12.83	51.93	4.451	807302
LB_5YR	E0080	E	12.14	20.76	4.407	155553
LB_5YR	E0090	E	12.24	20.14	4.608	171365
LB_5YR	E0100	E	12.34	12.99	4.61	123636
LB_5YR	F0010	F	12.36	8.08	3.442	77065
LB_5YR	F0020	F	12.15	6.36	3.729	42968
LB_5YR	F0030	F	12.13	6.6	3.636	46834
LB_5YR	F0040	F	12.07	110.21	4.621	665336
LB_5YR	F0050	F	12.04	25.54	4.428	133678
LB_5YR	F0060	F	12.83	48.27	5.333	817532
LB_5YR	G0010	G	12.22	9.26	4.406	76070
LB_5YR	G0020	G	12.04	40.26	4.568	211983
LB_5YR	G0030	G	12.31	20.63	4.119	195938
LB_5YR	G0040	G	12.75	15.7	3.868	222542
LB_5YR	G0050	G	12.42	9.37	4.407	102624
LB_5YR	G0060	G	12.42	19.04	4.4	211533
LB_5YR	G0070	G	12.06	17.43	4.268	92742
LB_5YR	G0080	G	12.04	34.22	4.399	178927
LB_5YR	G0090	G	12.12	8.81	3.43	57594
LB_5YR	G0100	G	12.04	2.28	3.573	11729
LB_5YR	G0110	G	12.5	15.29	4.192	181169
LB_5YR	G0120	G	12.15	6.38	3.712	46225
LB_5YR	G0130	G	12.67	14.36	4.023	196113
LB_5YR	G0140	G	12.32	5.85	3.582	53639
LB_5YR	G0150	G	12.14	34.11	4.378	228210
LB_5YR	G0160	G	13	21.52	4.407	375956
LB_5YR	G0170	G	13.17	39.81	4.519	783755
LB_5YR	H0010	H	12.21	15.04	3.678	121170
LB_5YR	H0020	H	12.16	34.74	3.696	251364



Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_5YR	H0030	H	12.19	7.13	4.137	55171
LB_5YR	H0040	H	12.05	21.48	3.976	111445
LB_5YR	H0050	H	12.92	36.32	3.561	595313
LB_5YR	H0060	H	12.22	9.49	4.378	77463
LB_5YR	H0070	H	12.42	34.64	4.382	371897
LB_5YR	H0080	H	12.2	14.13	3.484	112795
LB_5YR	H0090	H	12.58	24.69	4.206	299539
LB_5YR	J0010	J	12.04	8.45	4.287	43994
LB_5YR	J0020	J	12.11	35.19	4.299	226571
LB_5YR	J0030	J	12.83	11.61	4.374	177846
LB_5YR	J0040	J	12.04	9.97	4.225	51836
LB_5YR	J0050	J	12.04	8.61	4.228	44769
LB_5YR	J0060	J	12.05	4.79	4.197	26149
LB_5YR	J0070	J	12.04	6.62	4.304	34505
LB_5YR	J0080	J	12.04	18.75	4.062	97006
LB_5YR	J0090	J	12.75	32.2	4.533	479518
LB_5YR	J0100	J	12.27	10.21	3.988	86864
LB_5YR	J0110	J	12.67	19.86	3.7	271118
LB_5YR	J0120	J	12.67	7.82	4.406	107520
LB_5YR	J0130	J	13	13.55	3.746	234714
LB_5YR	J0140	J	12.3	9.65	4.116	85909
LB_5YR	J0150	J	12.5	14.54	4.307	168314
LB_5YR	J0160	J	13.08	36.76	4.229	676430
LB_5YR	J0170	J	12.58	21.2	4.371	267731
LB_5YR	J0190	J	12.04	17.29	4.165	89674
LB_5YR	J0200	J	12.42	10.99	4.037	115182
LB_5YR	J0210	J	12.23	20.87	4.338	168276
LB_5YR	J0220	J	12.31	11.23	4.248	100580
LB_5YR	J0230	J	12.92	19.63	3.955	330834
LB_5YR	J0240	J	13.42	14.44	4.124	321920
LB_5YR	J0250	J	12.31	12.67	4.382	122547
LB_5YR	J0260	J	12.83	5.16	3.54	77368
LB_5YR	K0010	K	12.5	13.88	4.642	158484
LB_5YR	K0020	K	12.04	9.25	4.45	48442
LB_5YR	K0030	K	12.58	19.77	3.423	247509
LB_5YR	K0040	K	12.04	42.1	4.31	219370
LB_5YR	K0050	K	12.75	10.74	3.825	151765
LB_5YR	K0060	K	12.3	14.35	4.192	129376
LB_5YR	K0070	K	12.5	25.77	3.579	282945
LB_5YR	K0080	K	12.23	7.82	4.082	65702
LB_5YR	K0090	K	12.5	8.53	3.388	94012

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_5YR	K0100	K	12.5	2.28	4.178	25916
LB_5YR	K0110	K	12.07	8.9	4.276	51874
LB_5YR	K0120	K	12.05	20.51	4.62	112056
LB_5YR	K0130	K	12.08	5.96	3.842	33754
LB_5YR	K0140	K	12.1	18.07	3.908	109025
LB_5YR	K0150	K	12.42	15.92	3.961	172509
LB_5YR	K0160	K	12.04	10.1	3.817	52913
LB_233Y	A0010	A	12.42	5.71	2.236	57694
LB_233Y	A0020	A	12.11	42.02	3.509	288943
LB_233Y	A0030	A	12.1	25.45	3.403	162358
LB_233Y	A0040	A	12.1	16.62	3.198	102130
LB_233Y	A0050	A	12.32	6.94	3.093	66957
LB_233Y	A0060	A	12.32	2.49	3.008	22206
LB_233Y	A0070	A	12.22	3.33	2.994	26916
LB_233Y	A0080	A	12.23	95.95	3.226	770898
LB_233Y	B0010	B	12.06	3.61	3.178	19423
LB_233Y	B0020	B	12.05	15.05	2.79	77906
LB_233Y	B0030	B	12.31	13.65	3.17	123817
LB_233Y	B0040	B	12.04	13.35	2.996	68775
LB_233Y	B0050	B	12.2	23.65	3.208	184346
LB_233Y	B0055	B	12.28	5.14	3.772	45312
LB_233Y	B0060	B	12.1	10.76	3.116	66044
LB_233Y	B0070	B	12.04	6.38	3.108	32945
LB_233Y	B0080	B	13.5	15.38	2.763	344334
LB_233Y	B0090	B	12.14	15.29	2.874	102164
LB_233Y	C0010	C	12.07	7.91	2.51	47019
LB_233Y	C0020	C	12.34	8.45	3.019	81965
LB_233Y	C0030	C	12.42	9.38	3.014	96136
LB_233Y	C0040	C	12.42	6.65	2.584	66207
LB_233Y	C0050	C	12.34	25.81	3.302	245812
LB_233Y	C0060	C	12.04	4.94	3.001	25443
LB_233Y	C0070	C	12.13	27.46	3.384	188402
LB_233Y	C0080	C	12.35	57.96	3.396	562966
LB_233Y	C0090	C	12.5	98.28	3.751	1131592
LB_233Y	C0105	C	12.04	7.38	3.306	38343
LB_233Y	C0110	C	12.36	0.85	2.993	8045
LB_233Y	C0115	C	12.04	14.96	3.202	77450
LB_233Y	C0120	C	12.04	9.96	3.83	53389
LB_233Y	C0130	C	12.28	4.16	3.57	35770
LB_233Y	C0140	C	12.26	4.45	3.648	38809
LB_233Y	C0150	C	12.28	5.01	2.976	44318

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_233Y	C0160	C	12.05	22.69	3.48	123471
LB_233Y	C0160B	C	12.37	2.93	2.755	27802
LB_233Y	C0170	C	12.32	7.91	2.842	76522
LB_233Y	D0010	D	12.04	2.03	2.992	10753
LB_233Y	D0020	D	12.04	0.78	2.996	4007
LB_233Y	D0030	D	12.09	12.14	3.099	70699
LB_233Y	D0040	D	12.04	13.67	2.936	70327
LB_233Y	D0050	D	12.09	16.01	3.114	93165
LB_233Y	D0060	D	12.04	16.85	3.102	86982
LB_233Y	D0070	D	12.5	21.85	3.189	245148
LB_233Y	D0080	D	12.25	1.99	3.13	17288
LB_233Y	D0090	D	13.67	56.66	3.159	1383319
LB_233Y	D0100	D	12.67	34.34	3.218	470774
LB_233Y	D0110	D	12.92	12.32	3.186	197559
LB_233Y	D0120	D	12.04	13.23	3.342	68818
LB_233Y	D0130	D	12.15	52.3	3.152	359738
LB_233Y	D0140	D	12.3	1.14	3.054	10306
LB_233Y	D0150	D	12.58	7.58	3	95753
LB_233Y	D0160	D	12.12	7.71	2.995	51094
LB_233Y	D0170	D	12.04	11.07	3.124	57155
LB_233Y	D0180	D	12.27	5.95	2.996	51682
LB_233Y	D0190	D	12.92	36.64	3.359	598372
LB_233Y	D0200	D	12.37	2.16	3.166	21290
LB_233Y	D0210	D	12.24	13.72	3.23	112153
LB_233Y	D0220	D	12.5	28.69	2.339	319290
LB_233Y	D0230	D	13.42	4.59	3.281	99354
LB_233Y	D0240	D	12.22	2.32	2.296	18258
LB_233Y	D0250	D	12.21	12.17	2.635	95588
LB_233Y	D0260	D	12.42	7.54	2.311	78152
LB_233Y	D0270	D	12.04	20.73	2.678	106504
LB_233Y	D0280	D	12.07	5.5	2.153	28621
LB_233Y	D0290	D	12.3	5.79	2.378	53770
LB_233Y	E0010	E	12.5	13.22	3.221	147959
LB_233Y	E0020	E	12.04	9.5	3.238	49243
LB_233Y	E0030	E	13	11.03	3.186	189269
LB_233Y	E0040	E	12.42	16.36	3.201	172522
LB_233Y	E0050	E	12.5	4.63	3.187	51110
LB_233Y	E0060	E	12.04	16.22	3.553	85267
LB_233Y	E0070	E	12.83	37.7	3.226	585131
LB_233Y	E0080	E	12.19	15.09	3.186	112464
LB_233Y	E0090	E	12.24	14.85	3.369	125281

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_233Y	E0100	E	12.34	9.57	3.37	90393
LB_233Y	F0010	F	12.36	5.44	2.343	52465
LB_233Y	F0020	F	12.15	4.4	2.589	29823
LB_233Y	F0030	F	12.18	4.51	2.508	32306
LB_233Y	F0040	F	12.07	81.47	3.381	486759
LB_233Y	F0050	F	12.04	18.69	3.205	96759
LB_233Y	F0060	F	12.92	36.98	4.048	620470
LB_233Y	G0010	G	12.22	6.74	3.186	54997
LB_233Y	G0020	G	12.04	29.73	3.332	154628
LB_233Y	G0030	G	12.31	14.66	2.928	139316
LB_233Y	G0040	G	12.75	10.92	2.708	155819
LB_233Y	G0050	G	12.42	6.79	3.186	74197
LB_233Y	G0060	G	12.5	13.82	3.179	152863
LB_233Y	G0070	G	12.06	12.62	3.061	66521
LB_233Y	G0080	G	12.04	24.99	3.179	129302
LB_233Y	G0090	G	12.12	5.93	2.333	39172
LB_233Y	G0100	G	12.04	1.56	2.454	8056
LB_233Y	G0110	G	12.5	10.91	2.994	129402
LB_233Y	G0120	G	12.15	4.39	2.573	32046
LB_233Y	G0130	G	12.67	10.11	2.844	138655
LB_233Y	G0140	G	12.32	3.98	2.462	36866
LB_233Y	G0150	G	12.14	24.81	3.16	164718
LB_233Y	G0160	G	13	15.56	3.186	271817
LB_233Y	G0170	G	13.17	28.96	3.287	570179
LB_233Y	H0010	H	12.21	10.32	2.544	83818
LB_233Y	H0020	H	12.16	23.9	2.56	174079
LB_233Y	H0030	H	12.19	5.08	2.945	39274
LB_233Y	H0040	H	12.05	15.21	2.803	78563
LB_233Y	H0050	H	12.92	24.55	2.444	408565
LB_233Y	H0060	H	12.22	6.89	3.16	55916
LB_233Y	H0070	H	12.42	25.1	3.165	268561
LB_233Y	H0080	H	12.26	9.57	2.378	77009
LB_233Y	H0090	H	12.58	17.67	3.006	214105
LB_233Y	J0010	J	12.04	6.12	3.078	31590
LB_233Y	J0020	J	12.11	25.44	3.089	162800
LB_233Y	J0030	J	12.83	8.38	3.157	128340
LB_233Y	J0040	J	12.04	7.2	3.023	37088
LB_233Y	J0050	J	12.04	6.22	3.025	32036
LB_233Y	J0060	J	12.05	3.44	2.998	18679
LB_233Y	J0070	J	12.04	4.81	3.094	24801
LB_233Y	J0080	J	12.04	13.37	2.878	68738

Long Branch BMP Model Results Basin Maximum Report						
Simulation	Basin	Group	Time Max	Flow Max	Volume	Volume
			hrs	cfs	in	ft3
-----	-----	-----	-----	-----	-----	-----
LB_233Y	J0090	J	12.75	23.51	3.301	349169
LB_233Y	J0100	J	12.27	7.2	2.814	61283
LB_233Y	J0110	J	12.75	13.61	2.563	187823
LB_233Y	J0120	J	12.67	5.67	3.186	77737
LB_233Y	J0130	J	13	9.31	2.603	163088
LB_233Y	J0140	J	12.3	6.87	2.926	61076
LB_233Y	J0150	J	12.5	10.47	3.097	121016
LB_233Y	J0160	J	13.08	26.22	3.027	484101
LB_233Y	J0170	J	12.58	15.33	3.154	193172
LB_233Y	J0190	J	12.04	12.42	2.969	63933
LB_233Y	J0200	J	12.42	7.77	2.857	81530
LB_233Y	J0210	J	12.23	15.11	3.124	121198
LB_233Y	J0220	J	12.31	8.08	3.044	72062
LB_233Y	J0230	J	13	13.73	2.784	232902
LB_233Y	J0240	J	13.5	10.21	2.933	228959
LB_233Y	J0250	J	12.31	9.18	3.164	88477
LB_233Y	J0260	J	12.83	3.49	2.426	53029
LB_233Y	K0010	K	12.5	10.24	3.4	116062
LB_233Y	K0020	K	12.04	6.78	3.225	35106
LB_233Y	K0030	K	12.58	13.22	2.327	168270
LB_233Y	K0040	K	12.04	30.56	3.099	157728
LB_233Y	K0050	K	12.75	7.44	2.671	105968
LB_233Y	K0060	K	12.3	10.27	2.994	92398
LB_233Y	K0070	K	12.5	17.55	2.459	194428
LB_233Y	K0080	K	12.23	5.55	2.897	46619
LB_233Y	K0090	K	12.5	5.71	2.297	63750
LB_233Y	K0100	K	12.5	1.63	2.981	18491
LB_233Y	K0110	K	12.07	6.43	3.068	37224
LB_233Y	K0120	K	12.05	15.18	3.38	81975
LB_233Y	K0130	K	12.08	4.17	2.686	23597
LB_233Y	K0140	K	12.1	12.71	2.743	76533
LB_233Y	K0150	K	12.5	11.17	2.79	121500
LB_233Y	K0160	K	12.04	7.06	2.664	36931

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RA0010A	A	LB_BMP_100Y	14.23	7.26	14.23	17.83	24.45	15.78
RA0020A	A	LB_BMP_100Y	0	0	24.45	15.78	14.03	16.03
RA0020B	A	LB_BMP_100Y	40.82	4.37	24.45	15.78	14.03	16.03
RA0030A	A	LB_BMP_100Y	27.19	6.24	15.78	17.16	12.76	16.42
RA0030C	A	LB_BMP_100Y	0	0	15.78	17.16	12.45	17.06
RA0040A	A	LB_BMP_100Y	0	0	12.13	16.91	12.45	17.06
RA0040B	A	LB_BMP_100Y	12.13	0.37	12.13	16.91	24.45	15.78
RA0040C	A	LB_BMP_100Y	12.13	43.74	12.13	16.91	14.03	16.03
RA0040D	A	LB_BMP_100Y	0	0	12.13	16.91	15.78	17.16
RA0060A	A	LB_BMP_100Y	12.33	7.94	12.34	17.63	12.6	17.03
RA0070A	A	LB_BMP_100Y	11.79	1.25	12.6	17.03	12.65	17.31
RA0070B	A	LB_BMP_100Y	12.6	93.07	12.6	17.03	13.8	15.86
RA0080A	A	LB_BMP_100Y	12.65	130.38	12.65	17.31	12.76	16.42
RA0081A	A	LB_BMP_100Y	12.23	53.49	12.76	16.42	12.92	16.02
RA0081B	A	LB_BMP_100Y	0	0	12.76	16.42	12.45	17.06
RA0081C	A	LB_BMP_100Y	12.67	60.67	12.76	16.42	12.92	16.02
RA0081D	A	LB_BMP_100Y	0	0	12.76	16.42	15.78	17.16
RA0081E	A	LB_BMP_100Y	12.76	33.43	12.76	16.42	13.82	15.85
RA0081F	A	LB_BMP_100Y	0	0	12.76	16.42	13.8	15.86
RA0082A	A	LB_BMP_100Y	12.47	116.9	12.92	16.02	13.83	15.87
RB0010A	B	LB_BMP_100Y	12.55	5.71	12.47	17.59	12.14	17.32
RB0010B	B	LB_BMP_100Y	0	0	12.47	17.59	12.13	17.42
RB0020A	B	LB_BMP_100Y	12.12	32.43	12.13	17.42	12.14	17.32
RB0030A	B	LB_BMP_100Y	12.26	22.83	12.26	15.71	12.27	14.77
RB0030B	B	LB_BMP_100Y	0	0	12.26	15.71	13.63	17.05
RB0030C	B	LB_BMP_100Y	12.27	19.53	12.26	15.71	12.21	15.23
RB0040A	B	LB_BMP_100Y	12.11	38.36	12.11	18.07	12.21	15.23
RB0040B	B	LB_BMP_100Y	12.11	0.64	12.11	18.07	12.09	17.47
RB0040C	B	LB_BMP_100Y	0	0	12.11	18.07	12.53	17.95
RB0050A	B	LB_BMP_100Y	12.02	5.36	12.21	15.23	12.27	14.77
RB0050B	B	LB_BMP_100Y	0	0	12.21	15.23	12.53	17.95
RB0050C	B	LB_BMP_100Y	12.21	38.6	12.21	15.23	12.17	15.22
RB0050D	B	LB_BMP_100Y	12.19	89.74	12.21	15.23	12.27	14.8
RB0050E	B	LB_BMP_100Y	12.21	20.16	12.21	15.23	12.27	14.77
RB0051A	B	LB_BMP_100Y	11.86	23.61	12.17	15.22	12.27	14.77
RB0055A	B	LB_BMP_100Y	11.81	9.88	12.27	14.8	12.27	14.77
RB0055B	B	LB_BMP_100Y	12.28	101.48	12.27	14.8	12.27	14.77
RB0060A	B	LB_BMP_100Y	12.53	9.4	12.53	17.95	13.63	17.05
RB0070A	B	LB_BMP_100Y	12.09	19.64	12.09	17.47	13.63	17.05
RB0080A	B	LB_BMP_100Y	13.63	59.81	13.63	17.05	13.66	16.11
RB0090A	B	LB_BMP_100Y	12.27	107.4	12.27	14.77	29.47	9.11
RB0090B	B	LB_BMP_100Y	12.27	101.17	12.27	14.77	12.51	13.24
RC0010A	C	LB_BMP_100Y	11.77	0.25	12.14	17.32	12.13	17.42
RC0010B	C	LB_BMP_100Y	12.14	62.76	12.14	17.32	15.55	15.55
RC0010C	C	LB_BMP_100Y	12.14	11.81	12.14	17.32	13.63	17.05
RC0020A	C	LB_BMP_100Y	12.25	77.45	15.55	15.55	15.56	15.55
RC0021A	C	LB_BMP_100Y	12.23	21.94	15.56	15.55	15.56	15.55

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0021B	C	LB_BMP_100Y	13.1	124.67	15.56	15.55	15.56	15.54
RC0022A	C	LB_BMP_100Y	12.25	42.55	15.56	15.54	15.56	15.53
RC0022B	C	LB_BMP_100Y	13.17	104.35	15.56	15.54	15.56	15.53
RC0030A	C	LB_BMP_100Y	12.43	29.37	15.46	15.56	15.53	15.55
RC0031A	C	LB_BMP_100Y	11.9	5.37	15.53	15.55	15.56	15.55
RC0031B	C	LB_BMP_100Y	12.48	25.88	15.53	15.55	15.56	15.55
RC0040A	C	LB_BMP_100Y	13.66	69.83	13.66	16.11	15.59	15.52
RC0050A	C	LB_BMP_100Y	28.42	6.6	15.59	15.52	15.6	15.51
RC0050B	C	LB_BMP_100Y	13.55	157.8	15.59	15.52	15.6	15.51
RC0050C	C	LB_BMP_100Y	0	0	15.59	15.52	15.56	15.53
RC0051A	C	LB_BMP_100Y	13.41	62.74	15.6	15.51	15.61	15.51
RC0051B	C	LB_BMP_100Y	15.73	2.86	15.6	15.51	15.51	14.85
RC0051C	C	LB_BMP_100Y	13.58	118.45	15.6	15.51	15.61	15.51
RC0060A	C	LB_BMP_100Y	12.1	14.78	12.1	16.86	14.03	16.03
RC0070A	C	LB_BMP_100Y	29.59	7.94	14.03	16.03	15.56	15.55
RC0070B	C	LB_BMP_100Y	0	0	14.03	16.03	15.56	15.55
RC0080A	C	LB_BMP_100Y	12.4	17.78	15.56	15.55	15.56	15.53
RC0100A	C	LB_BMP_100Y	14.13	73.6	15.66	14.82	15.94	14.76
RC0100B	C	LB_BMP_100Y	14.56	36.79	15.51	14.85	15.66	14.82
RC0101A	C	LB_BMP_100Y	13.06	63.11	15.51	14.85	15.66	14.82
RC0101B	C	LB_BMP_100Y	15.66	79.25	15.57	15.22	15.51	14.85
RC0101C	C	LB_BMP_100Y	17.06	30.43	15.51	14.85	15.42	14.84
RC0102A	C	LB_BMP_100Y	30.85	21.6	15.57	15.23	15.57	15.22
RC0102B	C	LB_BMP_100Y	15.59	74.96	15.57	15.23	15.57	15.22
RC0103A	C	LB_BMP_100Y	15.54	79.23	15.56	15.52	15.57	15.23
RC0104A	C	LB_BMP_100Y	11.94	17.61	15.56	15.53	15.56	15.52
RC0104B	C	LB_BMP_100Y	15.48	74.92	15.56	15.53	15.56	15.52
RC0105A	C	LB_BMP_100Y	13.26	59.98	15.94	14.76	16.06	14.72
RC0105B	C	LB_BMP_100Y	14.96	59.04	15.94	14.76	16.06	14.72
RC0105C	C	LB_BMP_100Y	20.4	1.19	15.94	14.76	15.42	14.84
RC0106	C	LB_BMP_100Y	0.21	1681.91	16.06	14.72	16.06	14.72
RC0110A	C	LB_BMP_100Y	0	0	15.61	15.51	16.06	14.72
RC0110B	C	LB_BMP_100Y	12.34	2.73	15.61	15.51	15.61	15.51
RC0115A	C	LB_BMP_100Y	14.46	85.27	15.61	15.51	16.06	14.72
RC0120A	C	LB_BMP_100Y	12.09	24.19	16.08	14.71	16.07	14.71
RC0120B	C	LB_BMP_100Y	17.5	0.68	16.08	14.71	16.07	14.71
RC0130	C	LB_BMP_100Y	19.68	2.46	16.11	14.71	16.07	14.71
RC0140A	C	LB_BMP_100Y	28.02	8.14	16.07	14.71	16.07	14.71
RC0140B	C	LB_BMP_100Y	27.25	0.66	16.07	14.71	16.07	14.71
RC0140C	C	LB_BMP_100Y	2.92	4.61	16.07	14.71	16.06	14.71
RC0150A	C	LB_BMP_100Y	28.02	1.67	16.06	14.71	16.07	14.71
RC0160	C	LB_BMP_100Y	12.78	5318.16	16.06	14.72	16.07	14.71
RC0160A	C	LB_BMP_100Y	0	17898.2	16.06	14.72	16.06	14.72
RC0160B	C	LB_BMP_100Y	0	39274.6	16.06	14.72	16.06	14.72
RC0161	C	LB_BMP_100Y	0.13	1550.87	16.07	14.71	16.07	14.71
RC0170A	C	LB_BMP_100Y	0.56	345.24	16.07	14.71	15.86	14.51
RC0170C	C	LB_BMP_100Y	16.07	10.32	16.07	14.71	15.86	14.51

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0170D	C	LB_BMP_100Y	25.04	106.57	16.07	14.71	16.07	14.71
RD0010A	D	LB_BMP_100Y	13.25	0.1	13.1	16.31	13.1	16.31
RD0010B	D	LB_BMP_100Y	13.25	0.87	13.1	16.31	13.1	16.31
RD0020A	D	LB_BMP_100Y	11.96	2.18	13.1	16.31	13.1	16.31
RD0030A	D	LB_BMP_100Y	13.1	8.67	13.1	16.31	14.15	15.78
RD0040A	D	LB_BMP_100Y	0	0	13.8	15.86	14.15	15.78
RD0040B	D	LB_BMP_100Y	12.46	108.8	13.8	15.86	13.82	15.85
RD0050A	D	LB_BMP_100Y	11.77	17.82	13.82	15.85	13.83	15.87
RD0050B	D	LB_BMP_100Y	12.22	7.75	13.82	15.85	13.83	15.87
RD0050C	D	LB_BMP_100Y	12.61	160.5	13.82	15.85	13.95	15.8
RD0051A	D	LB_BMP_100Y	31.77	0.04	13.83	15.87	12.9	16.03
RD0051B	D	LB_BMP_100Y	12.39	116.26	13.83	15.87	13.95	15.8
RD0060A	D	LB_BMP_100Y	0	0	12.9	16.03	15.56	15.53
RD0060B	D	LB_BMP_100Y	12.33	30.8	12.9	16.03	12.92	16.02
RD0060C	D	LB_BMP_100Y	12.9	8.69	12.9	16.03	14.03	16.03
RD0060D	D	LB_BMP_100Y	0	0	12.9	16.03	12.13	16.91
RD0060E	D	LB_BMP_100Y	0	0	12.9	16.03	12.45	17.06
RD0070A	D	LB_BMP_100Y	11.94	13.31	14.12	15.75	14.12	15.75
RD0070B	D	LB_BMP_100Y	12.71	72.81	14.12	15.75	14.12	15.75
RD0070C	D	LB_BMP_100Y	13.99	66.16	14.12	15.75	15.56	15.53
RD0080A	D	LB_BMP_100Y	10.31	113.96	13.95	15.8	13.95	15.8
RD0080B	D	LB_BMP_100Y	12.39	7.18	13.95	15.8	13.95	15.8
RD0080C	D	LB_BMP_100Y	12.82	56.91	13.95	15.8	14.12	15.75
RD0081A	D	LB_BMP_100Y	12.44	216.56	13.95	15.8	14.12	15.75
RD0090A	D	LB_BMP_100Y	14.81	5.87	14.15	15.78	14.12	15.75
RD0090B	D	LB_BMP_100Y	14.76	145.89	14.15	15.78	14.12	15.75
RD0091A	D	LB_BMP_100Y	13.64	228.39	14.12	15.75	15.29	14.89
RD0100A	D	LB_BMP_100Y	12.79	51.33	12.79	15.07	15.29	14.89
RD0100B	D	LB_BMP_100Y	0	0	12.79	15.07	14.15	15.78
RD0110A	D	LB_BMP_100Y	13.38	11.55	14.35	15.25	15.29	14.89
RD0110B	D	LB_BMP_100Y	14.35	0.04	14.35	15.25	15.37	14.91
RD0110C	D	LB_BMP_100Y	14.35	2.33	14.35	15.25	15.29	14.89
RD0110D	D	LB_BMP_100Y	14.38	10.12	14.35	15.25	12.79	15.07
RD0120A	D	LB_BMP_100Y	12.28	15.98	15.37	14.91	15.29	14.89
RD0120B	D	LB_BMP_100Y	0	0	15.37	14.91	15.29	14.89
RD0120C	D	LB_BMP_100Y	0	0	15.37	14.91	14.15	15.78
RD0130A	D	LB_BMP_100Y	12.68	178.18	12.7	15.03	15.29	14.89
RD0130B	D	LB_BMP_100Y	12.03	20.25	12.7	15.03	12.7	15.05
RD0130D	D	LB_BMP_100Y	12.23	24.53	12.7	15.03	12.79	15.07
RD0140A	D	LB_BMP_100Y	12.37	3.57	12.37	15.46	12.7	15.05
RD0150A	D	LB_BMP_100Y	11.66	3.82	12.7	15.05	12.71	15.24
RD0150B	D	LB_BMP_100Y	0	0	12.7	15.05	15.29	14.89
RD0150C	D	LB_BMP_100Y	0	0	12.7	15.05	12.71	15.24
RD0160A	D	LB_BMP_100Y	12.13	7.34	12.62	15.23	12.71	15.24
RD0160B	D	LB_BMP_100Y	12.29	12.79	12.62	15.23	12.7	15.05
RD0160C	D	LB_BMP_100Y	12.62	2.81	12.62	15.23	15.29	14.89
RD0160D	D	LB_BMP_100Y	0	0	12.62	15.23	12.83	15.69



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0170A	D	LB_BMP_100Y	12.1	8.39	12.83	15.69	15.02	14.78
RD0170B	D	LB_BMP_100Y	0	0	12.83	15.69	15.29	14.89
RD0170C	D	LB_BMP_100Y	0	0	12.83	15.69	12.71	15.24
RD0180A	D	LB_BMP_100Y	18.03	2.44	15.36	14.85	15.02	14.78
RD0180B	D	LB_BMP_100Y	0	0	15.36	14.85	12.71	15.24
RD0180C	D	LB_BMP_100Y	13.16	52.26	15.36	14.85	15.4	14.84
RD0181A	D	LB_BMP_100Y	12.49	8.68	15.02	14.78	15.74	14.51
RD0182A	D	LB_BMP_100Y	12.88	7.56	15.74	14.51	15.76	14.47
RD0182B	D	LB_BMP_100Y	0	0	15.74	14.51	13.15	14.48
RD0190A	D	LB_BMP_100Y	11.81	19.05	15.29	14.89	15.29	14.89
RD0190B	D	LB_BMP_100Y	12.17	70	15.29	14.89	15.29	14.89
RD0190C	D	LB_BMP_100Y	14.89	13.43	15.29	14.89	15.36	14.85
RD0190D	D	LB_BMP_100Y	12.55	41.86	15.29	14.89	15.31	14.88
RD0200A	D	LB_BMP_100Y	12.59	7.12	15.2	14.91	15.29	14.89
RD0200B	D	LB_BMP_100Y	0	0	15.2	14.91	12.66	15.09
RD0200C	D	LB_BMP_100Y	0	0	15.2	14.91	15.29	14.89
RD0210A	D	LB_BMP_100Y	12.4	8.97	12.66	15.09	15.29	14.89
RD0210B	D	LB_BMP_100Y	12.4	18.54	12.66	15.09	15.29	14.89
RD0210C	D	LB_BMP_100Y	12.66	2.9	12.66	15.09	15.42	14.84
RD0210D	D	LB_BMP_100Y	12.66	0.17	12.66	15.09	15.56	15.53
RD0210E	D	LB_BMP_100Y	0	0	12.66	15.09	15.29	14.89
RD0220A	D	LB_BMP_100Y	16.18	148.76	15.42	14.84	15.41	14.84
RD0220B	D	LB_BMP_100Y	0	0	15.42	14.84	16.06	14.72
RD0220C	D	LB_BMP_100Y	0	0	15.42	14.84	15.29	14.89
RD0230A	D	LB_BMP_100Y	12.18	95.93	15.29	14.89	15.31	14.88
RD0230B	D	LB_BMP_100Y	12.53	41.54	15.29	14.89	15.31	14.88
RD0231A	D	LB_BMP_100Y	12.51	154.31	15.31	14.88	15.41	14.84
RD0240A	D	LB_BMP_100Y	11.61	2.69	12.7	15.3	12.7	15.36
RD0240B	D	LB_BMP_100Y	0	0	12.7	15.3	12.7	15.36
RD0240C	D	LB_BMP_100Y	12.69	18.2	12.7	15.3	12.71	15.24
RD0240D	D	LB_BMP_100Y	0	0	12.7	15.3	12.71	15.24
RD0250A	D	LB_BMP_100Y	12.68	21.17	12.7	15.36	12.71	15.24
RD0250B	D	LB_BMP_100Y	0	0	12.7	15.36	12.71	15.24
RD0260A	D	LB_BMP_100Y	12.49	14.91	12.71	15.24	12.75	15.22
RD0260B	D	LB_BMP_100Y	12.56	2.29	12.71	15.24	12.75	15.22
RD0270A	D	LB_BMP_100Y	13.07	246.7	15.4	14.84	15.41	14.84
RD0270B	D	LB_BMP_100Y	0	0	15.4	14.84	15.29	14.89
RD0280A	D	LB_BMP_100Y	20.81	1.84	15.42	14.83	15.41	14.84
RD0280B	D	LB_BMP_100Y	12.09	21.3	15.42	14.83	15.41	14.84
RD0280C	D	LB_BMP_100Y	15.07	17.83	15.42	14.83	16.06	14.71
RD0280D	D	LB_BMP_100Y	0	0	15.42	14.83	15.42	14.84
RD0290A	D	LB_BMP_100Y	13.13	416.81	15.41	14.84	15.76	14.47
RD0290B	D	LB_BMP_100Y	0	0	15.41	14.84	15.76	14.47
RD0290C	D	LB_BMP_100Y	14.96	11.99	15.41	14.84	16.06	14.71
RE0010A	E	LB_BMP_100Y	12.62	0.92	12.62	15.48	12.22	13.15
RE0020A	E	LB_BMP_100Y	12.22	22.22	12.22	13.15	24.7	7.77
RE0020B	E	LB_BMP_100Y	0	0	12.22	13.15	15.1	9.61

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RE0030A	E	LB_BMP_100Y	12.76	70.58	12.86	11.72	12.98	10.92
RE0030B	E	LB_BMP_100Y	0	0	12.86	11.72	15.1	9.46
RE0030C	E	LB_BMP_100Y	0	0	12.86	11.72	12.22	13.15
RE0030D	E	LB_BMP_100Y	0	0	12.86	11.72	12.62	15.48
RE0040A	E	LB_BMP_100Y	12.03	8.08	15.1	9.38	15.11	9.4
RE0040B	E	LB_BMP_100Y	13.1	74.44	15.1	9.38	15.11	9.37
RE0041	E	LB_BMP_100Y	18.98	11.72	15.11	9.38	15.11	9.37
RE0041B	E	LB_BMP_100Y	15.45	4.38	15.11	9.38	15.11	9.37
RE0050A	E	LB_BMP_100Y	12.26	82.18	12.98	10.92	15.1	9.46
RE0050B	E	LB_BMP_100Y	12.98	11.46	12.98	10.92	15.1	9.38
RE0050C	E	LB_BMP_100Y	12.98	7.9	12.98	10.92	15.1	9.46
RE0060A	E	LB_BMP_100Y	13.11	14.04	13.11	5.85	13.11	2.59
RE0060B	E	LB_BMP_100Y	12.03	19.04	13.11	5.85	13.11	5.85
RE0080A	E	LB_BMP_100Y	12.25	17.68	12.28	8.1	15.14	7.37
RE0080B	E	LB_BMP_100Y	12.28	20.44	12.28	8.1	15.14	7.37
RE0080C	E	LB_BMP_100Y	12.28	6.38	12.28	8.1	12.45	7.55
RE0090A	E	LB_BMP_100Y	12.48	65.67	12.48	5.17	0	0.7
RE0090B	E	LB_BMP_100Y	0	0	12.48	5.17	13.11	5.85
RE0100A	E	LB_BMP_100Y	12.45	10.22	12.45	7.55	12.18	2.9
RE0100B	E	LB_BMP_100Y	12.45	21.84	12.45	7.55	12.48	5.17
RE0100C	E	LB_BMP_100Y	0	0	12.45	7.55	14.11	2.27
RF0010A	F	LB_BMP_100Y	12.24	8.82	12.48	11.3	12.59	10.52
RF0010B	F	LB_BMP_100Y	12.48	12.69	12.48	11.3	12.46	6.03
RF0011A	F	LB_BMP_100Y	12.57	7.22	12.59	10.52	12.57	9.34
RF0011B	F	LB_BMP_100Y	0	0	12.59	10.52	15.1	9.43
RF0012A	F	LB_BMP_100Y	12.73	7.19	12.77	9.18	35.81	5.89
RF0020A	F	LB_BMP_100Y	24.3	0.21	24.3	9.06	15.14	7.37
RF0030A	F	LB_BMP_100Y	12.38	20.45	12.38	6.83	15.16	4.55
RF0040A	F	LB_BMP_100Y	0	0	12.46	6.03	15.16	4.55
RF0040B	F	LB_BMP_100Y	0	0	12.46	6.03	12.18	8.28
RF0040C	F	LB_BMP_100Y	0	0	12.46	6.03	15.16	4.55
RF0040D	F	LB_BMP_100Y	12.46	170.86	12.46	6.03	14.11	2.27
RF0042A	F	LB_BMP_100Y	15.2	927.26	15.16	4.55	14.11	2.27
RF0050A	F	LB_BMP_100Y	12.18	9.85	12.18	8.28	12.18	3.23
RF0050B	F	LB_BMP_100Y	12.18	19.61	12.18	8.28	14.11	2.27
RF0060A	F	LB_BMP_100Y	14.11	1083.55	14.11	2.27	0.8	0.7
RF0060B	F	LB_BMP_100Y	0	0	14.11	2.27	13.11	5.85
RF0061	F	LB_BMP_100Y	5.58	13.91	15.11	9.19	15.11	9.18
RF0061B	F	LB_BMP_100Y	15.14	51.52	15.11	9.19	15.11	9.18
RF0062	F	LB_BMP_100Y	15.1	915.37	15.11	9.18	15.14	7.37
RG0010A	G	LB_BMP_100Y	13.64	15.83	13.01	16.26	12.79	15.5
RG0010B	G	LB_BMP_100Y	0	0	13.01	16.26	12.79	15.5
RG0010C	G	LB_BMP_100Y	0	0	13.01	16.26	13.02	16.26
RG0020A	G	LB_BMP_100Y	12.08	8.2	13.02	16.26	12.87	15.99
RG0020B	G	LB_BMP_100Y	0	0	13.02	16.26	12.87	15.99
RG0030A	G	LB_BMP_100Y	12.91	33.22	12.89	16.06	12.87	15.99
RG0030B	G	LB_BMP_100Y	0	0	12.89	16.06	12.51	13.24

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RG0040A	G	LB_BMP_100Y	12.87	77.22	12.87	15.99	12.79	15.5
RG0040B	G	LB_BMP_100Y	12.87	0.06	12.87	15.99	16.85	11.08
RG0050A	G	LB_BMP_100Y	12.93	15.76	12.93	16.29	14.94	10.62
RG0050B	G	LB_BMP_100Y	12.93	0.53	12.93	16.29	15.1	9.61
RG0050C	G	LB_BMP_100Y	0	0	12.93	16.29	12.62	15.48
RG0060A	G	LB_BMP_100Y	0	0	12.87	15.85	12.87	15.99
RG0060B	G	LB_BMP_100Y	0	0	12.79	15.5	12.87	15.99
RG0060C	G	LB_BMP_100Y	12.79	102.94	12.79	15.5	14.93	10.88
RG0060D	G	LB_BMP_100Y	12.79	27.09	12.79	15.5	14.94	10.62
RG0060E	G	LB_BMP_100Y	0	0	12.79	15.5	12.58	12.02
RG0070A	G	LB_BMP_100Y	12.08	38.53	12.08	13.84	12.51	13.24
RG0080A	G	LB_BMP_100Y	24.36	23.6	16.85	11.08	12.51	13.24
RG0080B	G	LB_BMP_100Y	0	0	16.85	11.08	12.51	13.24
RG0090A	G	LB_BMP_100Y	12.23	12.46	15.35	12.3	15.23	12.29
RG0090B	G	LB_BMP_100Y	0	0	15.35	12.3	26.17	12.22
RG0090C	G	LB_BMP_100Y	0	0	15.35	12.3	15.23	12.29
RG0090D	G	LB_BMP_100Y	0	0	15.35	12.3	14.93	10.88
RG0100A	G	LB_BMP_100Y	21.13	1.03	15.36	12.3	15.35	12.3
RG0100B	G	LB_BMP_100Y	17.84	0.59	15.36	12.3	15.35	12.3
RG0110A	G	LB_BMP_100Y	12.5	35.42	16.82	11.08	16.85	11.08
RG0110B	G	LB_BMP_100Y	0	0	16.82	11.08	15.36	12.3
RG0110C	G	LB_BMP_100Y	0	0	16.82	11.08	12.51	13.24
RG0110D	G	LB_BMP_100Y	0	0	16.82	11.08	15.36	12.3
RG0120A	G	LB_BMP_100Y	0	0	26.17	12.22	12.58	12.02
RG0121A	G	LB_BMP_100Y	27.96	0.25	15.36	12.3	15.36	12.3
RG0121B	G	LB_BMP_100Y	0	0	15.36	12.3	15.36	12.3
RG0130A	G	LB_BMP_100Y	12.4	92.59	12.51	13.24	12.58	12.02
RG0130B	G	LB_BMP_100Y	0	0	12.51	13.24	12.58	12.02
RG0130C	G	LB_BMP_100Y	0	0	12.51	13.24	26.17	12.22
RG0140A	G	LB_BMP_100Y	12.48	102.87	12.58	12.02	14.93	10.88
RG0140B	G	LB_BMP_100Y	0	0	12.58	12.02	14.93	10.88
RG0150A	G	LB_BMP_100Y	12.54	242.76	14.93	10.88	14.99	10.86
RG0160A	G	LB_BMP_100Y	13.14	86.23	14.94	10.62	14.96	10.61
RG0170A	G	LB_BMP_100Y	19.18	699.66	15.1	9.46	15.11	9.37
RG0170B	G	LB_BMP_100Y	15.09	268.04	15.1	9.46	15.11	9.37
RG0170C	G	LB_BMP_100Y	15.06	48.05	15.1	9.46	15.11	9.45
RG0170D	G	LB_BMP_100Y	12.74	29.05	15.1	9.46	15.11	9.45
RG0171A	G	LB_BMP_100Y	15.04	858.19	15.11	9.37	15.11	9.18
RG0172A	G	LB_BMP_100Y	15.14	919.46	15.14	7.37	15.16	4.55
RH0010A	H	LB_BMP_100Y	12.62	27.71	12.62	11.11	14.31	10.34
RH0010B	H	LB_BMP_100Y	0	0	12.62	11.11	14.31	10.34
RH0010C	H	LB_BMP_100Y	0	0	12.62	11.11	13.89	13.37
RH0010D	H	LB_BMP_100Y	0	0	12.62	11.11	13.82	13.36
RH0011A	H	LB_BMP_100Y	12.94	23	14.31	10.34	15.08	10.09
RH0020A	H	LB_BMP_100Y	14.33	1.22	13.89	13.37	13.82	13.36
RH0020B	H	LB_BMP_100Y	13.89	1.74	13.89	13.37	12.29	12.17
RH0020C	H	LB_BMP_100Y	0	0	13.89	13.37	15.1	9.43

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RH0030A	H	LB_BMP_100Y	13.82	0.22	13.82	13.36	12.29	12.17
RH0030B	H	LB_BMP_100Y	0	0	13.82	13.36	15.08	10.09
RH0040A	H	LB_BMP_100Y	12.29	18.13	12.29	12.17	15.09	9.99
RH0040B	H	LB_BMP_100Y	12.29	17.23	12.29	12.17	15.1	9.43
RH0050A	H	LB_BMP_100Y	0	0	15.1	9.43	15.1	9.61
RH0050B	H	LB_BMP_100Y	15.05	160.42	15.1	9.43	15.11	9.37
RH0050C	H	LB_BMP_100Y	12.5	71.78	15.1	9.43	15.1	9.46
RH0050D	H	LB_BMP_100Y	0	0	15.1	9.43	12.38	6.83
RH0051	H	LB_BMP_100Y	13.35	43.44	15.11	9.45	15.11	9.19
RH0051B	H	LB_BMP_100Y	15.1	14.14	15.11	9.45	15.11	9.19
RH0060A	H	LB_BMP_100Y	15.1	660.01	14.99	10.86	14.96	10.61
RH0070A	H	LB_BMP_100Y	12.85	608.32	14.96	10.61	15.08	10.09
RH0070B	H	LB_BMP_100Y	14.96	189.81	14.96	10.61	15.1	9.61
RH0071A	H	LB_BMP_100Y	13	591.12	15.08	10.09	15.09	9.99
RH0080A	H	LB_BMP_100Y	13.57	2.21	15.1	9.61	15.1	9.61
RH0080B	H	LB_BMP_100Y	13.86	0	15.1	9.61	15.1	9.61
RH0080C	C	LB_BMP_100Y	45.35	39.32	15.1	9.61	15.1	9.61
RH0080D	H	LB_BMP_100Y	0	0	15.1	9.61	15.1	9.43
RH0090A	H	LB_BMP_100Y	13.09	598.35	15.09	9.99	15.1	9.61
RH0091A	H	LB_BMP_100Y	15.1	768.35	15.1	9.61	15.1	9.46
RH0165	H	LB_BMP_100Y	13.17	12.07	15.11	9.4	15.11	9.38
RH0165B	H	LB_BMP_100Y	0	0	15.11	9.4	15.1	9.46
RJ0010A	J	LB_BMP_100Y	12.11	4.8	12.11	14.57	12.34	13.81
RJ0010B	J	LB_BMP_100Y	12.11	2.07	12.11	14.57	13.15	14.48
RJ0020A	J	LB_BMP_100Y	12.34	77.23	12.34	13.81	15.56	13.2
RJ0020B	J	LB_BMP_100Y	0	0	12.34	13.81	12.11	14.57
RJ0030A	J	LB_BMP_100Y	4.39	53.64	15.56	13.2	15.56	13.18
RJ0030B	J	LB_BMP_100Y	13.11	243.04	15.56	13.2	15.56	13.18
RJ0030D	J	LB_BMP_100Y	13.12	229.31	15.56	13.21	15.56	13.2
RJ0040A	J	LB_BMP_100Y	1.2	24.53	15.85	14.5	15.8	14.48
RJ0040B	J	LB_BMP_100Y	12.07	21.61	15.85	14.5	15.86	14.51
RJ0040C	J	LB_BMP_100Y	16.12	25.76	15.85	14.5	15.8	14.48
RJ0050A	J	LB_BMP_100Y	1.2	18.73	15.8	14.48	15.77	14.45
RJ0060A	J	LB_BMP_100Y	3.15	14.21	15.77	14.45	15.52	13.15
RJ0060B	J	LB_BMP_100Y	0	0	15.77	14.45	15.8	14.48
RJ0070A	J	LB_BMP_100Y	16.13	39.76	15.52	13.15	15.5	13.14
RJ0080A	J	LB_BMP_100Y	0.53	321.21	15.86	14.51	15.76	14.47
RJ0090A	J	LB_BMP_100Y	12.73	1.44	15.76	14.46	15.85	14.5
RJ0090B	J	LB_BMP_100Y	12.67	53.95	15.76	14.46	15.76	14.47
RJ0090C	J	LB_BMP_100Y	15.76	174.58	15.76	14.46	15.5	13.14
RJ0090D	J	LB_BMP_100Y	0	0	15.76	14.46	15.85	14.5
RJ0090E	J	LB_BMP_100Y	15.76	27.31	15.76	14.46	15.52	13.15
RJ0090F	J	LB_BMP_100Y	13.63	11.33	15.76	14.46	15.77	14.45
RJ0090G	J	LB_BMP_100Y	13.1	0.46	15.76	14.46	15.86	14.51
RJ0090H	J	LB_BMP_100Y	13.2	6.55	15.76	14.46	15.8	14.48
RJ0100A	J	LB_BMP_100Y	13.83	404.95	15.76	14.47	15.56	13.21
RJ0101C	J	LB_BMP_100Y	1.44	29.07	15.56	13.21	15.56	13.2

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0101CH	J	LB_BMP_100Y	11.27	167.61	15.56	13.21	15.56	13.18
RJ0101W	J	LB_BMP_100Y	10.89	21.77	15.56	13.21	15.56	13.18
RJ0101WW	J	LB_BMP_100Y	17.71	87.06	15.56	13.21	15.5	13.14
RJ0110A	J	LB_BMP_100Y	12.77	51.15	12.77	12.6	25.4	11.92
RJ0120A	J	LB_BMP_100Y	0	0	25.4	11.92	15.56	13.18
RJ0121A	J	LB_BMP_100Y	7.51	7.54	25.39	11.92	25.4	11.92
RJ0121B	J	LB_BMP_100Y	29.23	35.15	25.39	11.92	15.56	13.18
RJ0130A	J	LB_BMP_100Y	13.66	62.2	14.54	13.96	15.5	13.14
RJ0130D	J	LB_BMP_100Y	14.54	48.76	14.54	13.96	15.5	13.14
RJ0140A	J	LB_BMP_100Y	24.29	306.45	15.56	13.18	15.5	13.14
RJ0141A	J	LB_BMP_100Y	16.76	518.28	15.5	13.14	15.25	12.78
RJ0150A	J	LB_BMP_100Y	13.06	24.96	13.06	15.43	13.53	14.69
RJ0160A	J	LB_BMP_100Y	13.32	77.81	13.53	14.69	13.53	14.68
RJ0160C	J	LB_BMP_100Y	13.53	22.72	13.53	14.69	13.97	14.26
RJ0170A	J	LB_BMP_100Y	12.96	1.42	12.83	15.15	12.82	15.14
RJ0170B	J	LB_BMP_100Y	12.92	34.59	12.83	15.15	12.82	15.14
RJ0170D	J	LB_BMP_100Y	12.83	9.29	12.83	15.15	13.91	14.31
RJ0190A	J	LB_BMP_100Y	12.82	43.81	12.82	15.14	13.91	14.31
RJ0200A	J	LB_BMP_100Y	13.45	82.71	13.53	14.68	13.91	14.31
RJ0200B	J	LB_BMP_100Y	26.31	13.22	13.53	14.68	13.97	14.26
RJ0210B	J	LB_BMP_100Y	13.85	46.12	13.97	14.26	14.54	13.96
RJ0210C	J	LB_BMP_100Y	0	0	13.97	14.26	13.94	14.27
RJ0210D	J	LB_BMP_100Y	0	0	13.97	14.26	13.53	14.68
RJ0210E	J	LB_BMP_100Y	0	0	13.97	14.26	13.91	14.31
RJ0210F	J	LB_BMP_100Y	12.4	99.66	13.97	14.26	14.54	13.96
RJ0220A	J	LB_BMP_100Y	13.94	94.47	13.94	14.27	13.94	13.18
RJ0230A	J	LB_BMP_100Y	24.36	2.56	13.91	14.31	13.94	14.27
RJ0230B	J	LB_BMP_100Y	13.79	92.76	13.91	14.31	13.94	14.27
RJ0240A	J	LB_BMP_100Y	11.7	14.14	13.94	13.18	15.25	12.78
RJ0240B	J	LB_BMP_100Y	13.94	119.42	13.94	13.18	15.25	12.78
RJ0240D	J	LB_BMP_100Y	0	0	13.94	13.18	14.54	13.96
RJ0250A	J	LB_BMP_100Y	22.57	332.73	15.25	12.78	15.23	12.29
RJ0250B	J	LB_BMP_100Y	22.57	335.47	15.25	12.78	15.23	12.29
RJ0260A	J	LB_BMP_100Y	12.76	13.07	15.21	12.8	15.25	12.78
RJ0260C	J	LB_BMP_100Y	0	0	15.21	12.8	15.25	12.78
RJ0261A	J	LB_BMP_100Y	15.37	596.25	15.23	12.29	14.99	10.86
RK0010A	K	LB_BMP_100Y	13.59	12.37	13.56	16.3	12.94	16.07
RK0010B	K	LB_BMP_100Y	13.56	3.43	13.56	16.3	12.34	15.88
RK0010C	K	LB_BMP_100Y	13.56	0.4	13.56	16.3	12.08	16.22
RK0020A	K	LB_BMP_100Y	12.08	3.87	12.08	16.22	12.34	15.88
RK0020B	K	LB_BMP_100Y	12.08	15.88	12.08	16.22	12.7	15.36
RK0030A	K	LB_BMP_100Y	12.94	25.98	12.94	16.07	12.98	15.69
RK0030B	K	LB_BMP_100Y	12.94	23.79	12.94	16.07	13.13	15.49
RK0040A	K	LB_BMP_100Y	12.34	0.43	12.34	15.88	13.14	15.48
RK0040B	K	LB_BMP_100Y	12.34	63.44	12.34	15.88	13.13	15.49
RK0040C	K	LB_BMP_100Y	12.19	0.07	12.34	15.88	12.94	16.07
RK0050A	K	LB_BMP_100Y	13.02	24.63	13	15.75	12.98	15.69

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RK0060A	K	LB_BMP_100Y	12.48	30.61	12.48	16.45	12.98	15.69
RK0070A	K	LB_BMP_100Y	12.88	120.32	12.98	15.69	13.14	15.48
RK0070B	K	LB_BMP_100Y	12.98	2.66	12.98	15.69	12.77	12.6
RK0080A	K	LB_BMP_100Y	0	0	13.14	15.48	12.75	15.22
RK0080B	K	LB_BMP_100Y	12.2	2.85	13.14	15.48	13.13	15.49
RK0080C	K	LB_BMP_100Y	13.12	4.16	13.14	15.48	13.15	15.46
RK0090A	K	LB_BMP_100Y	31.6	1.52	12.75	15.22	15.74	14.51
RK0090B	K	LB_BMP_100Y	0	0	12.75	15.22	12.7	15.36
RK0091A	K	LB_BMP_100Y	28.02	1.9	15.74	14.51	15.74	14.51
RK0100A	K	LB_BMP_100Y	13.12	1.83	13.13	15.07	38.83	11.64
RK0100B	K	LB_BMP_100Y	13.13	227.19	13.13	15.07	13.15	14.48
RK0100C	K	LB_BMP_100Y	0	0	13.13	15.07	13.14	15.48
RK0100D	K	LB_BMP_100Y	12.37	0	13.13	15.07	13.22	15.24
RK0100E	K	LB_BMP_100Y	0	0	13.13	15.07	12.75	15.22
RK0100F	K	LB_BMP_100Y	12.32	0	13.13	15.07	13.15	15.46
RK0110A	K	LB_BMP_100Y	12.65	6.72	13.15	15.46	13.22	15.24
RK0110B	K	LB_BMP_100Y	13.13	19.49	13.15	15.46	13.22	15.24
RK0110C	K	LB_BMP_100Y	0	0	13.22	15.24	12.75	15.22
RK0130A	K	LB_BMP_100Y	13.13	1.66	13.15	15.46	12.53	14.86
RK0130B	K	LB_BMP_100Y	12.15	12.13	13.15	15.46	13.14	15.48
RK0130C	K	LB_BMP_100Y	13.08	130.09	13.15	15.46	13.15	15.46
RK0130D	K	LB_BMP_100Y	13.15	5.94	13.15	15.46	13.13	15.07
RK0130E	K	LB_BMP_100Y	0	0	13.15	15.46	13.14	15.48
RK0130F	K	LB_BMP_100Y	0	0	13.15	15.46	13.13	15.49
RK0140A	K	LB_BMP_100Y	12.12	4.56	13.13	15.49	13.14	15.48
RK0140B	K	LB_BMP_100Y	12.41	78	13.13	15.49	13.14	15.48
RK0150A	K	LB_BMP_100Y	12.47	0.43	13.14	15.48	13.15	15.46
RK0150B	K	LB_BMP_100Y	13.14	12.98	13.14	15.48	38.83	11.64
RK0150C	K	LB_BMP_100Y	13.14	0.72	13.14	15.48	38.83	11.64
RK0160A	K	LB_BMP_100Y	13.14	218.5	13.15	14.48	38.83	11.64
RK0160B	K	LB_BMP_100Y	0	0	13.15	14.48	38.83	11.64
RK0160C	K	LB_BMP_100Y	13.15	12.8	13.15	14.48	12.34	13.81
RK0160D	K	LB_BMP_100Y	0	0	13.15	14.48	15.76	14.47
RK0161A	K	LB_BMP_100Y	42.34	6.78	38.83	11.64	25.39	11.92
RA0010A	A	LB_BMP_50Y	14.82	4.28	14.82	17.72	24.48	15.2
RA0020A	A	LB_BMP_50Y	0	0	24.48	15.2	15.68	15.42
RA0020B	A	LB_BMP_50Y	39.49	3.85	24.48	15.2	15.68	15.42
RA0030A	A	LB_BMP_50Y	26.1	5.89	15.7	16.68	12.79	16.3
RA0030C	A	LB_BMP_50Y	0	0	15.7	16.68	12.59	17.04
RA0040A	A	LB_BMP_50Y	0	0	12.14	16.89	12.59	17.04
RA0040B	A	LB_BMP_50Y	12.14	0.24	12.14	16.89	24.48	15.2
RA0040C	A	LB_BMP_50Y	12.14	37.82	12.14	16.89	15.68	15.42
RA0040D	A	LB_BMP_50Y	0	0	12.14	16.89	15.7	16.68
RA0060A	A	LB_BMP_50Y	12.35	6.77	12.36	17.6	12.68	16.99
RA0070A	A	LB_BMP_50Y	11.97	2.26	12.68	16.99	12.73	17.24
RA0070B	A	LB_BMP_50Y	12.68	75.4	12.68	16.99	14.05	15.65

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RA0080A	A	LB_BMP_50Y	12.73	101	12.73	17.24	12.79	16.3
RA0081A	A	LB_BMP_50Y	12.39	54.68	12.79	16.3	13.31	15.78
RA0081B	A	LB_BMP_50Y	0	0	12.79	16.3	12.59	17.04
RA0081C	A	LB_BMP_50Y	12.79	43.8	12.79	16.3	13.31	15.78
RA0081D	A	LB_BMP_50Y	0	0	12.79	16.3	15.7	16.68
RA0081E	A	LB_BMP_50Y	12.79	13.63	12.79	16.3	14.07	15.64
RA0081F	A	LB_BMP_50Y	0	0	12.79	16.3	14.05	15.65
RA0082A	A	LB_BMP_50Y	12.66	102.19	13.31	15.78	13.96	15.66
RB0010A	B	LB_BMP_50Y	12.61	4.48	12.53	17.44	12.26	17.28
RB0010B	B	LB_BMP_50Y	0	0	12.53	17.44	12.22	17.35
RB0020A	B	LB_BMP_50Y	12.2	23.02	12.22	17.35	12.26	17.28
RB0030A	B	LB_BMP_50Y	12.27	19.02	12.27	15.68	12.28	14.67
RB0030B	B	LB_BMP_50Y	0	0	12.27	15.68	13.93	17.02
RB0030C	B	LB_BMP_50Y	12.27	17.46	12.27	15.68	12.23	15.17
RB0040A	B	LB_BMP_50Y	12.13	32.06	12.13	18.05	12.23	15.17
RB0040B	B	LB_BMP_50Y	12.13	0.42	12.13	18.05	12.09	17.45
RB0040C	B	LB_BMP_50Y	0	0	12.13	18.05	12.75	17.9
RB0050A	B	LB_BMP_50Y	12.09	5.28	12.23	15.17	12.28	14.67
RB0050B	B	LB_BMP_50Y	0	0	12.23	15.17	12.75	17.9
RB0050C	B	LB_BMP_50Y	11.75	23.92	12.23	15.17	12.23	15.17
RB0050D	B	LB_BMP_50Y	12.21	77.4	12.23	15.17	12.28	14.7
RB0050E	B	LB_BMP_50Y	12.23	14.19	12.23	15.17	12.28	14.67
RB0051A	B	LB_BMP_50Y	11.93	23.54	12.23	15.17	12.28	14.67
RB0055A	B	LB_BMP_50Y	11.87	9.74	12.28	14.7	12.28	14.67
RB0055B	B	LB_BMP_50Y	12.28	87.18	12.28	14.7	12.28	14.67
RB0060A	B	LB_BMP_50Y	12.75	6.72	12.75	17.9	13.93	17.02
RB0070A	B	LB_BMP_50Y	12.09	16.77	12.09	17.45	13.93	17.02
RB0080A	B	LB_BMP_50Y	13.93	47.74	13.93	17.02	14.12	16.05
RB0090A	B	LB_BMP_50Y	12.28	103.32	12.28	14.67	29.41	8.87
RB0090B	B	LB_BMP_50Y	12.28	74.88	12.28	14.67	12.47	12.27
RC0010A	C	LB_BMP_50Y	11.89	0.44	12.26	17.28	12.22	17.35
RC0010B	C	LB_BMP_50Y	12.26	46.95	12.26	17.28	13.38	15.25
RC0010C	C	LB_BMP_50Y	12.26	7.85	12.26	17.28	13.93	17.02
RC0020A	C	LB_BMP_50Y	12.32	60.52	13.38	15.25	13.42	15.24
RC0021A	C	LB_BMP_50Y	10.03	12.87	13.42	15.24	13.42	15.24
RC0021B	C	LB_BMP_50Y	13.21	90.29	13.42	15.24	15.52	15.2
RC0022A	C	LB_BMP_50Y	12.38	42.19	15.52	15.2	15.57	15.18
RC0022B	C	LB_BMP_50Y	13.32	69.53	15.52	15.2	15.57	15.18
RC0030A	C	LB_BMP_50Y	12.47	25.58	12.47	15.48	13.37	15.26
RC0031A	C	LB_BMP_50Y	12.02	5.69	13.37	15.26	13.42	15.24
RC0031B	C	LB_BMP_50Y	12.5	22.25	13.37	15.26	13.42	15.24
RC0040A	C	LB_BMP_50Y	14.12	53.72	14.12	16.05	15.62	15.17
RC0050A	C	LB_BMP_50Y	27.01	6.6	15.62	15.17	15.62	15.16
RC0050B	C	LB_BMP_50Y	14.09	116.18	15.62	15.17	15.62	15.16
RC0050C	C	LB_BMP_50Y	0	0	15.62	15.17	15.57	15.18
RC0051A	C	LB_BMP_50Y	13.88	60.58	15.62	15.16	15.64	15.15
RC0051B	C	LB_BMP_50Y	15.54	2.52	15.62	15.16	15.68	14.64

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0051C	C	LB_BMP_50Y	14.18	78.77	15.62	15.16	15.64	15.15
RC0060A	C	LB_BMP_50Y	12.1	12.67	12.1	16.82	15.68	15.42
RC0070A	C	LB_BMP_50Y	28.97	6.88	15.68	15.42	13.42	15.24
RC0070B	C	LB_BMP_50Y	0	0	15.68	15.42	13.42	15.24
RC0080A	C	LB_BMP_50Y	12.48	16.99	13.42	15.24	15.57	15.18
RC0100A	C	LB_BMP_50Y	13.78	61.56	15.76	14.61	16	14.54
RC0100B	C	LB_BMP_50Y	15.26	21.27	15.68	14.64	15.76	14.61
RC0101A	C	LB_BMP_50Y	13.32	60.97	15.68	14.64	15.76	14.61
RC0101B	C	LB_BMP_50Y	15.55	63.46	15.63	14.93	15.68	14.64
RC0101C	C	LB_BMP_50Y	17.06	13.78	15.68	14.64	15.55	14.63
RC0102A	C	LB_BMP_50Y	29.37	21.59	15.63	14.94	15.63	14.93
RC0102B	C	LB_BMP_50Y	13.18	59.76	15.63	14.94	15.63	14.93
RC0103A	C	LB_BMP_50Y	13.12	65.7	15.57	15.17	15.63	14.94
RC0104A	C	LB_BMP_50Y	12.1	18.1	15.57	15.18	15.57	15.17
RC0104B	C	LB_BMP_50Y	13.06	62.49	15.57	15.18	15.57	15.17
RC0105A	C	LB_BMP_50Y	13.69	57.25	16	14.54	16.62	14.47
RC0105B	C	LB_BMP_50Y	15.67	30.23	16	14.54	16.62	14.47
RC0105C	C	LB_BMP_50Y	18.83	0.83	16	14.54	15.55	14.63
RC0106	C	LB_BMP_50Y	0.21	1681.91	16.62	14.47	16.63	14.47
RC0110A	C	LB_BMP_50Y	0	0	15.64	15.15	16.63	14.47
RC0110B	C	LB_BMP_50Y	12.34	2.34	15.64	15.15	15.64	15.15
RC0115A	C	LB_BMP_50Y	14.69	78.61	15.64	15.15	16.63	14.47
RC0120A	C	LB_BMP_50Y	12.04	21.77	16.64	14.46	16.64	14.46
RC0120B	C	LB_BMP_50Y	17.38	0.2	16.64	14.46	16.64	14.46
RC0130	C	LB_BMP_50Y	19.47	2.21	16.76	14.46	16.64	14.46
RC0140A	C	LB_BMP_50Y	26.47	7.92	16.64	14.46	16.64	14.46
RC0140B	C	LB_BMP_50Y	25.68	0.63	16.64	14.46	16.64	14.46
RC0140C	C	LB_BMP_50Y	2.92	4.6	16.64	14.46	16.63	14.46
RC0150A	C	LB_BMP_50Y	26.47	1.63	16.63	14.46	16.64	14.46
RC0160	C	LB_BMP_50Y	23.16	8818.3	16.63	14.47	16.64	14.46
RC0160A	C	LB_BMP_50Y	0	17898.2	16.63	14.47	16.62	14.47
RC0160B	C	LB_BMP_50Y	0	39274.6	16.63	14.47	16.62	14.47
RC0161	C	LB_BMP_50Y	0.13	1550.87	16.64	14.46	16.64	14.46
RC0170A	C	LB_BMP_50Y	0.56	345.24	16.64	14.46	15.95	14.35
RC0170C	C	LB_BMP_50Y	0	0	16.64	14.46	15.95	14.35
RC0170D	C	LB_BMP_50Y	23.16	106.25	16.64	14.46	16.64	14.46
RD0010A	D	LB_BMP_50Y	14.38	0.07	14.22	16.23	14.22	16.23
RD0010B	D	LB_BMP_50Y	14.33	0.35	14.22	16.23	14.22	16.23
RD0020A	D	LB_BMP_50Y	12.02	2.06	14.22	16.23	14.22	16.23
RD0030A	D	LB_BMP_50Y	14.22	3.34	14.22	16.23	14.34	15.6
RD0040A	D	LB_BMP_50Y	0	0	14.05	15.65	14.34	15.6
RD0040B	D	LB_BMP_50Y	12.53	88.04	14.05	15.65	14.07	15.64
RD0050A	D	LB_BMP_50Y	11.82	18.37	14.07	15.64	13.96	15.66
RD0050B	D	LB_BMP_50Y	12.36	5.54	14.07	15.64	13.96	15.66
RD0050C	D	LB_BMP_50Y	12.67	115.55	14.07	15.64	14.18	15.61
RD0051A	D	LB_BMP_50Y	6.64	0.09	13.96	15.66	13.18	15.8
RD0051B	D	LB_BMP_50Y	12.55	102.78	13.96	15.66	14.18	15.61



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0060A	D	LB_BMP_50Y	0	0	13.18	15.8	15.57	15.18
RD0060B	D	LB_BMP_50Y	12.57	20.51	13.18	15.8	13.31	15.78
RD0060C	D	LB_BMP_50Y	13.18	0.85	13.18	15.8	15.68	15.42
RD0060D	D	LB_BMP_50Y	0	0	13.18	15.8	12.14	16.89
RD0060E	D	LB_BMP_50Y	0	0	13.18	15.8	12.59	17.04
RD0070A	D	LB_BMP_50Y	11.99	15.25	14.31	15.58	14.31	15.58
RD0070B	D	LB_BMP_50Y	12.93	51.88	14.31	15.58	14.31	15.58
RD0070C	D	LB_BMP_50Y	14.31	31.75	14.31	15.58	15.57	15.18
RD0080A	D	LB_BMP_50Y	10.93	116.2	14.18	15.61	14.18	15.61
RD0080B	D	LB_BMP_50Y	12.59	5.72	14.18	15.61	14.18	15.61
RD0080C	D	LB_BMP_50Y	12.95	37.52	14.18	15.61	14.31	15.58
RD0081A	D	LB_BMP_50Y	12.59	177.75	14.18	15.61	14.31	15.58
RD0090A	D	LB_BMP_50Y	14.86	5.84	14.34	15.6	14.31	15.58
RD0090B	D	LB_BMP_50Y	14.82	141.07	14.34	15.6	14.31	15.58
RD0091A	D	LB_BMP_50Y	13.97	219.34	14.31	15.58	15.46	14.68
RD0100A	D	LB_BMP_50Y	12.91	38.04	12.91	15.03	15.47	14.68
RD0100B	D	LB_BMP_50Y	0	0	12.91	15.03	14.34	15.6
RD0110A	D	LB_BMP_50Y	13.68	12.37	14.73	15.16	15.46	14.68
RD0110B	D	LB_BMP_50Y	14.73	0	14.73	15.16	15.52	14.69
RD0110C	D	LB_BMP_50Y	14.73	0.17	14.73	15.16	15.47	14.68
RD0110D	D	LB_BMP_50Y	14.76	5.43	14.73	15.16	12.91	15.03
RD0120A	D	LB_BMP_50Y	12.15	15.01	15.52	14.69	15.46	14.68
RD0120B	D	LB_BMP_50Y	0	0	15.52	14.69	15.46	14.68
RD0120C	D	LB_BMP_50Y	0	0	15.52	14.69	14.34	15.6
RD0130A	D	LB_BMP_50Y	12.8	143.74	12.81	14.97	15.47	14.68
RD0130B	D	LB_BMP_50Y	12.09	21.14	12.81	14.97	12.8	15
RD0130D	D	LB_BMP_50Y	12.33	21	12.81	14.97	12.91	15.03
RD0140A	D	LB_BMP_50Y	12.38	3.06	12.38	15.45	12.8	15
RD0150A	D	LB_BMP_50Y	11.86	4.1	12.8	15	12.81	15.15
RD0150B	D	LB_BMP_50Y	0	0	12.8	15	15.47	14.68
RD0150C	D	LB_BMP_50Y	0	0	12.8	15	12.81	15.15
RD0160A	D	LB_BMP_50Y	12.21	7.12	12.26	15.2	12.81	15.15
RD0160B	D	LB_BMP_50Y	12.25	10.29	12.26	15.2	12.8	15
RD0160C	D	LB_BMP_50Y	12.26	2.03	12.26	15.2	15.47	14.68
RD0160D	D	LB_BMP_50Y	0	0	12.26	15.2	12.74	15.54
RD0170A	D	LB_BMP_50Y	12.17	8.31	12.74	15.54	14.81	14.54
RD0170B	D	LB_BMP_50Y	0	0	12.74	15.54	15.47	14.68
RD0170C	D	LB_BMP_50Y	0	0	12.74	15.54	12.81	15.15
RD0180A	D	LB_BMP_50Y	16.59	2.36	15.5	14.64	14.81	14.54
RD0180B	D	LB_BMP_50Y	0	0	15.5	14.64	12.81	15.15
RD0180C	D	LB_BMP_50Y	13.59	35.41	15.5	14.64	15.54	14.63
RD0181A	D	LB_BMP_50Y	12.6	8.77	14.81	14.54	15.71	14.35
RD0182A	D	LB_BMP_50Y	12.73	7.94	15.71	14.35	15.84	14.32
RD0182B	D	LB_BMP_50Y	0	0	15.71	14.35	13.41	13.57
RD0190A	D	LB_BMP_50Y	26.72	19.33	15.47	14.68	15.46	14.68
RD0190B	D	LB_BMP_50Y	12.29	70.93	15.47	14.68	15.46	14.68
RD0190C	D	LB_BMP_50Y	15.11	9.37	15.47	14.68	15.5	14.64

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0190D	D	LB_BMP_50Y	12.72	42.89	15.47	14.68	15.47	14.67
RD0200A	D	LB_BMP_50Y	12.36	5.54	15.41	14.68	15.46	14.68
RD0200B	D	LB_BMP_50Y	0	0	15.41	14.68	12.82	14.81
RD0200C	D	LB_BMP_50Y	0	0	15.41	14.68	15.46	14.68
RD0210A	D	LB_BMP_50Y	12.44	8.22	12.82	14.81	15.46	14.68
RD0210B	D	LB_BMP_50Y	12.44	16.98	12.82	14.81	15.46	14.68
RD0210C	D	LB_BMP_50Y	0	0	12.82	14.81	15.55	14.63
RD0210D	D	LB_BMP_50Y	0	0	12.82	14.81	15.57	15.18
RD0210E	D	LB_BMP_50Y	0	0	12.82	14.81	15.46	14.68
RD0220A	D	LB_BMP_50Y	15.93	120.08	15.55	14.63	15.55	14.62
RD0220B	D	LB_BMP_50Y	0	0	15.55	14.63	16.62	14.47
RD0220C	D	LB_BMP_50Y	0	0	15.55	14.63	15.46	14.68
RD0230A	D	LB_BMP_50Y	12.3	96.32	15.46	14.68	15.47	14.67
RD0230B	D	LB_BMP_50Y	12.72	42.48	15.46	14.68	15.47	14.67
RD0231A	D	LB_BMP_50Y	12.69	160.83	15.47	14.67	15.55	14.62
RD0240A	D	LB_BMP_50Y	11.78	3.31	12.81	15.19	12.81	15.22
RD0240B	D	LB_BMP_50Y	0	0	12.81	15.19	12.81	15.22
RD0240C	D	LB_BMP_50Y	12.82	13.52	12.81	15.19	12.81	15.15
RD0240D	D	LB_BMP_50Y	0	0	12.81	15.19	12.81	15.15
RD0250A	D	LB_BMP_50Y	12.81	15.68	12.81	15.22	12.81	15.15
RD0250B	D	LB_BMP_50Y	0	0	12.81	15.22	12.81	15.15
RD0260A	D	LB_BMP_50Y	12.7	12.18	12.81	15.15	12.85	15.14
RD0260B	D	LB_BMP_50Y	12.74	1.15	12.81	15.15	12.85	15.14
RD0270A	D	LB_BMP_50Y	13.32	219.6	15.54	14.63	15.55	14.62
RD0270B	D	LB_BMP_50Y	0	0	15.54	14.63	15.47	14.68
RD0280A	D	LB_BMP_50Y	19.01	1.77	15.55	14.62	15.55	14.62
RD0280B	D	LB_BMP_50Y	12.09	17.93	15.55	14.62	15.55	14.62
RD0280C	D	LB_BMP_50Y	15.49	3.25	15.55	14.62	16.63	14.46
RD0280D	D	LB_BMP_50Y	0	0	15.55	14.62	15.55	14.63
RD0290A	D	LB_BMP_50Y	13.27	396.6	15.55	14.62	15.84	14.32
RD0290B	D	LB_BMP_50Y	0	0	15.55	14.62	15.84	14.32
RD0290C	D	LB_BMP_50Y	15.48	3.61	15.55	14.62	16.63	14.46
RE0010A	E	LB_BMP_50Y	12.7	0.61	12.7	15.46	12.21	12.82
RE0020A	E	LB_BMP_50Y	12.2	19.44	12.21	12.82	24.68	7.41
RE0020B	E	LB_BMP_50Y	0	0	12.21	12.82	14.75	9.02
RE0030A	E	LB_BMP_50Y	12.78	60.68	12.84	11.52	13.34	10.66
RE0030B	E	LB_BMP_50Y	0	0	12.84	11.52	14.68	8.91
RE0030C	E	LB_BMP_50Y	0	0	12.84	11.52	12.21	12.82
RE0030D	E	LB_BMP_50Y	0	0	12.84	11.52	12.7	15.46
RE0040A	E	LB_BMP_50Y	12.09	8.51	14.66	8.81	14.69	8.84
RE0040B	E	LB_BMP_50Y	13.68	58.9	14.66	8.81	14.67	8.81
RE0041	E	LB_BMP_50Y	13.68	12.27	14.69	8.83	14.67	8.81
RE0041B	E	LB_BMP_50Y	14.78	0.96	14.69	8.83	14.67	8.81
RE0050A	E	LB_BMP_50Y	12.4	82.09	13.34	10.66	14.68	8.91
RE0050B	E	LB_BMP_50Y	13.34	1.93	13.34	10.66	14.66	8.81
RE0050C	E	LB_BMP_50Y	13.34	0.01	13.34	10.66	14.68	8.91
RE0060A	E	LB_BMP_50Y	13.16	13.55	13.16	5.73	13.16	2.57

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RE0060B	E	LB_BMP_50Y	12.11	10.74	13.16	5.73	13.16	5.73
RE0080A	E	LB_BMP_50Y	12.3	17.21	12.31	8.05	14.68	6.94
RE0080B	E	LB_BMP_50Y	12.31	17.21	12.31	8.05	14.68	6.94
RE0080C	E	LB_BMP_50Y	12.31	3.04	12.31	8.05	12.49	7.46
RE0090A	E	LB_BMP_50Y	12.5	50.69	12.5	5.12	0	0.7
RE0090B	E	LB_BMP_50Y	12.09	0	12.5	5.12	13.16	5.73
RE0100A	E	LB_BMP_50Y	12.49	9.98	12.49	7.46	12.27	2.9
RE0100B	E	LB_BMP_50Y	12.49	15.16	12.49	7.46	12.5	5.12
RE0100C	E	LB_BMP_50Y	0	0	12.49	7.46	13.75	2.15
RF0010A	F	LB_BMP_50Y	12.35	8.71	12.58	11.26	12.69	10.51
RF0010B	F	LB_BMP_50Y	12.58	8.7	12.58	11.26	12.53	5.94
RF0011A	F	LB_BMP_50Y	12.67	7.15	12.69	10.51	12.67	9.33
RF0011B	F	LB_BMP_50Y	0	0	12.69	10.51	14.65	8.89
RF0012A	F	LB_BMP_50Y	12.85	7.12	12.86	9.17	35.66	5.89
RF0020A	F	LB_BMP_50Y	0	0	25.83	8.67	14.68	6.94
RF0030A	F	LB_BMP_50Y	12.52	16.77	12.52	6.73	14.65	4.28
RF0040A	F	LB_BMP_50Y	0	0	12.53	5.94	14.65	4.28
RF0040B	F	LB_BMP_50Y	0	0	12.53	5.94	12.19	8.22
RF0040C	F	LB_BMP_50Y	0	0	12.53	5.94	14.65	4.28
RF0040D	F	LB_BMP_50Y	12.53	129.19	12.53	5.94	13.75	2.15
RF0042A	F	LB_BMP_50Y	14.73	785.63	14.65	4.28	13.75	2.15
RF0050A	F	LB_BMP_50Y	12.19	9.69	12.19	8.22	12.19	3.22
RF0050B	F	LB_BMP_50Y	12.19	17.34	12.19	8.22	13.75	2.15
RF0060A	F	LB_BMP_50Y	13.75	951.78	13.75	2.15	0.8	0.7
RF0060B	F	LB_BMP_50Y	0	0	13.75	2.15	13.16	5.73
RF0061	F	LB_BMP_50Y	5.63	13.9	14.68	8.63	14.68	8.63
RF0061B	F	LB_BMP_50Y	13.68	37.94	14.68	8.63	14.68	8.63
RF0062	F	LB_BMP_50Y	14.68	772.93	14.68	8.63	14.68	6.94
RG0010A	G	LB_BMP_50Y	13.56	14.47	13.02	16.09	12.87	15.44
RG0010B	G	LB_BMP_50Y	0	0	13.02	16.09	12.87	15.44
RG0010C	G	LB_BMP_50Y	0	0	13.02	16.09	13.03	16.1
RG0020A	G	LB_BMP_50Y	12.11	8.26	13.03	16.1	12.95	15.96
RG0020B	G	LB_BMP_50Y	0	0	13.03	16.1	12.95	15.96
RG0030A	G	LB_BMP_50Y	13.03	26.42	12.98	16.01	12.95	15.96
RG0030B	G	LB_BMP_50Y	0	0	12.98	16.01	12.47	12.27
RG0040A	G	LB_BMP_50Y	12.95	62.06	12.95	15.96	12.87	15.44
RG0040B	G	LB_BMP_50Y	12.95	0	12.95	15.96	17.32	10.67
RG0050A	G	LB_BMP_50Y	13.15	11.96	13.15	16.26	15.7	10.35
RG0050B	G	LB_BMP_50Y	13.15	0.1	13.15	16.26	14.75	9.02
RG0050C	G	LB_BMP_50Y	0	0	13.15	16.26	12.7	15.46
RG0060A	G	LB_BMP_50Y	0	0	12.95	15.83	12.95	15.96
RG0060B	G	LB_BMP_50Y	0	0	12.87	15.44	12.95	15.96
RG0060C	G	LB_BMP_50Y	12.87	82.98	12.87	15.44	15.83	10.56
RG0060D	G	LB_BMP_50Y	12.87	23.85	12.87	15.44	15.7	10.35
RG0060E	G	LB_BMP_50Y	0	0	12.87	15.44	12.55	11.33
RG0070A	G	LB_BMP_50Y	12.08	33.19	12.08	13.81	12.47	12.27
RG0080A	G	LB_BMP_50Y	22.27	22.7	17.32	10.67	12.47	12.27

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RG0080B	G	LB_BMP_50Y	0	0	17.32	10.67	12.47	12.27
RG0090A	G	LB_BMP_50Y	12.23	11.09	15.91	11.92	15.83	11.91
RG0090B	G	LB_BMP_50Y	0	0	15.91	11.92	26.17	11.53
RG0090C	G	LB_BMP_50Y	0	0	15.91	11.92	15.83	11.91
RG0090D	G	LB_BMP_50Y	0	0	15.91	11.92	15.83	10.56
RG0100A	G	LB_BMP_50Y	21.29	1.06	15.93	11.92	15.91	11.92
RG0100B	G	LB_BMP_50Y	16.94	0.27	15.93	11.92	15.91	11.92
RG0110A	G	LB_BMP_50Y	12.5	30.38	17.31	10.67	17.32	10.67
RG0110B	G	LB_BMP_50Y	0	0	17.31	10.67	15.92	11.92
RG0110C	G	LB_BMP_50Y	0	0	17.31	10.67	12.47	12.27
RG0110D	G	LB_BMP_50Y	0	0	17.31	10.67	15.93	11.92
RG0120A	G	LB_BMP_50Y	0	0	26.17	11.53	12.55	11.33
RG0121A	G	LB_BMP_50Y	21.39	0.27	15.92	11.92	15.93	11.92
RG0121B	G	LB_BMP_50Y	0	0	15.92	11.92	15.93	11.92
RG0130A	G	LB_BMP_50Y	12.38	82.24	12.47	12.27	12.55	11.33
RG0130B	G	LB_BMP_50Y	0	0	12.47	12.27	12.55	11.33
RG0130C	G	LB_BMP_50Y	0	0	12.47	12.27	26.17	11.53
RG0140A	G	LB_BMP_50Y	12.43	90.77	12.55	11.33	15.83	10.56
RG0140B	G	LB_BMP_50Y	0	0	12.55	11.33	15.83	10.56
RG0150A	G	LB_BMP_50Y	12.57	197.77	15.83	10.56	15.82	10.55
RG0160A	G	LB_BMP_50Y	13.06	74.75	15.7	10.35	15.74	10.33
RG0170A	G	LB_BMP_50Y	16.82	700.6	14.68	8.91	14.67	8.81
RG0170B	G	LB_BMP_50Y	14.77	203.35	14.68	8.91	14.67	8.81
RG0170C	G	LB_BMP_50Y	14.51	33.07	14.68	8.91	14.68	8.89
RG0170D	G	LB_BMP_50Y	12.71	28.39	14.68	8.91	14.68	8.89
RG0171A	G	LB_BMP_50Y	16.83	736.17	14.67	8.81	14.68	8.63
RG0172A	G	LB_BMP_50Y	14.68	777.49	14.68	6.94	14.65	4.28
RH0010A	H	LB_BMP_50Y	12.63	23.36	12.64	10.89	13.42	9.85
RH0010B	H	LB_BMP_50Y	0	0	12.64	10.89	13.42	9.85
RH0010C	H	LB_BMP_50Y	0	0	12.64	10.89	15.62	13.29
RH0010D	H	LB_BMP_50Y	0	0	12.64	10.89	15.52	13.29
RH0011A	H	LB_BMP_50Y	12.91	19.18	13.42	9.85	15.02	9.65
RH0020A	H	LB_BMP_50Y	16.01	0.44	15.62	13.29	15.52	13.29
RH0020B	H	LB_BMP_50Y	15.62	0.28	15.62	13.29	12.44	12.12
RH0020C	H	LB_BMP_50Y	0	0	15.62	13.29	14.65	8.89
RH0030A	H	LB_BMP_50Y	0	0	15.52	13.29	12.44	12.12
RH0030B	H	LB_BMP_50Y	0	0	15.52	13.29	15.02	9.65
RH0040A	H	LB_BMP_50Y	12.44	11.63	12.44	12.12	14.92	9.52
RH0040B	H	LB_BMP_50Y	12.44	10.52	12.44	12.12	14.65	8.89
RH0050A	H	LB_BMP_50Y	0	0	14.76	8.97	14.72	9.03
RH0050B	H	LB_BMP_50Y	14.56	86.79	14.65	8.89	14.67	8.81
RH0050C	H	LB_BMP_50Y	12.59	65.86	14.65	8.89	14.68	8.91
RH0050D	H	LB_BMP_50Y	0	0	14.65	8.89	12.52	6.73
RH0051	H	LB_BMP_50Y	15.34	42.76	14.68	8.89	14.68	8.63
RH0051B	H	LB_BMP_50Y	0	0	14.68	8.89	14.68	8.63
RH0060A	H	LB_BMP_50Y	16.09	574.51	15.82	10.55	15.74	10.33
RH0070A	H	LB_BMP_50Y	13.07	563.92	15.74	10.33	15.02	9.65

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RH0070B	H	LB_BMP_50Y	15.74	61.06	15.74	10.33	14.75	9.02
RH0071A	H	LB_BMP_50Y	16.93	571.56	15.02	9.65	14.92	9.52
RH0080A	H	LB_BMP_50Y	14.1	0.74	14.72	9.03	14.75	9.02
RH0080B	H	LB_BMP_50Y	14.7	0	14.72	9.03	14.75	9.02
RH0080C	C	LB_BMP_50Y	37.79	39.32	14.72	9.03	14.75	9.02
RH0080D	H	LB_BMP_50Y	0	0	14.72	9.03	14.65	8.89
RH0090A	H	LB_BMP_50Y	16.87	586.05	14.92	9.52	14.75	9.02
RH0091A	H	LB_BMP_50Y	16.83	656.02	14.75	9.02	14.68	8.91
RH0165	H	LB_BMP_50Y	13.78	11.31	14.69	8.84	14.69	8.83
RH0165B	H	LB_BMP_50Y	0	0	14.69	8.84	14.68	8.91
RJ0010A	J	LB_BMP_50Y	12.12	3.92	12.12	14.55	12.45	13.67
RJ0010B	J	LB_BMP_50Y	12.12	1.79	12.12	14.55	13.41	13.57
RJ0020A	J	LB_BMP_50Y	12.45	57.11	12.45	13.67	16.01	12.86
RJ0020B	J	LB_BMP_50Y	0	0	12.45	13.67	12.12	14.55
RJ0030A	J	LB_BMP_50Y	4.41	53.64	16.01	12.86	16.01	12.84
RJ0030B	J	LB_BMP_50Y	13.6	235.26	16.01	12.86	16.01	12.84
RJ0030D	J	LB_BMP_50Y	13.68	236.5	16.01	12.87	16.01	12.86
RJ0040A	J	LB_BMP_50Y	1.2	24.53	15.94	14.34	15.89	14.33
RJ0040B	J	LB_BMP_50Y	12.08	17.78	15.94	14.34	15.95	14.35
RJ0040C	J	LB_BMP_50Y	16.74	11.8	15.94	14.34	15.89	14.33
RJ0050A	J	LB_BMP_50Y	1.2	18.73	15.89	14.33	15.87	14.28
RJ0060A	J	LB_BMP_50Y	3.15	14.21	15.87	14.28	15.94	12.71
RJ0060B	J	LB_BMP_50Y	0	0	15.87	14.28	15.89	14.33
RJ0070A	J	LB_BMP_50Y	16.65	24.35	15.94	12.71	15.93	12.7
RJ0080A	J	LB_BMP_50Y	0.53	321.21	15.95	14.35	15.84	14.32
RJ0090A	J	LB_BMP_50Y	12.89	1.39	15.84	14.31	15.94	14.34
RJ0090B	J	LB_BMP_50Y	12.67	50.87	15.84	14.31	15.84	14.32
RJ0090C	J	LB_BMP_50Y	15.84	96.7	15.84	14.31	15.93	12.7
RJ0090D	J	LB_BMP_50Y	0	0	15.84	14.31	15.94	14.34
RJ0090E	J	LB_BMP_50Y	15.84	11.11	15.84	14.31	15.94	12.71
RJ0090F	J	LB_BMP_50Y	14.35	9.11	15.84	14.31	15.87	14.28
RJ0090G	J	LB_BMP_50Y	13.39	0.19	15.84	14.31	15.95	14.35
RJ0090H	J	LB_BMP_50Y	13.62	5.53	15.84	14.31	15.89	14.33
RJ0100A	J	LB_BMP_50Y	14.38	400.47	15.84	14.32	16.01	12.87
RJ0101C	J	LB_BMP_50Y	1.44	29.07	16.01	12.87	16.01	12.86
RJ0101CH	J	LB_BMP_50Y	11.67	167.61	16.01	12.87	16.01	12.84
RJ0101W	J	LB_BMP_50Y	11.37	21.79	16.01	12.87	16.01	12.84
RJ0101WW	J	LB_BMP_50Y	16.24	73.7	16.01	12.87	15.93	12.7
RJ0110A	J	LB_BMP_50Y	12.72	42.26	12.72	12.55	26.11	11.33
RJ0120A	J	LB_BMP_50Y	0	0	26.11	11.33	16.01	12.84
RJ0121A	J	LB_BMP_50Y	7.55	7.78	26.1	11.33	26.11	11.33
RJ0121B	J	LB_BMP_50Y	30.2	15.97	26.1	11.33	16.01	12.84
RJ0130A	J	LB_BMP_50Y	14.18	65.11	15.06	13.81	15.93	12.7
RJ0130D	J	LB_BMP_50Y	15.06	26.07	15.06	13.81	15.93	12.7
RJ0140A	J	LB_BMP_50Y	21.77	288.75	16.01	12.84	15.93	12.7
RJ0141A	J	LB_BMP_50Y	16.53	476.15	15.93	12.7	15.82	12.31
RJ0150A	J	LB_BMP_50Y	13.37	17.77	13.37	15.4	13.77	14.63

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0160A	J	LB_BMP_50Y	13.5	67.64	13.77	14.63	13.77	14.62
RJ0160C	J	LB_BMP_50Y	13.77	11.64	13.77	14.63	14.41	14.16
RJ0170A	J	LB_BMP_50Y	13	1.37	12.93	15.11	12.92	15.1
RJ0170B	J	LB_BMP_50Y	12.98	29.79	12.93	15.11	12.92	15.1
RJ0170D	J	LB_BMP_50Y	12.93	5.66	12.93	15.11	14.26	14.23
RJ0190A	J	LB_BMP_50Y	12.92	36.95	12.92	15.1	14.26	14.23
RJ0200A	J	LB_BMP_50Y	13.72	68.71	13.77	14.62	14.26	14.23
RJ0200B	J	LB_BMP_50Y	25.48	14.17	13.77	14.62	14.41	14.16
RJ0210B	J	LB_BMP_50Y	14.38	29.63	14.41	14.16	15.06	13.81
RJ0210C	J	LB_BMP_50Y	0	0	14.41	14.16	14.31	14.19
RJ0210D	J	LB_BMP_50Y	0	0	14.41	14.16	13.77	14.62
RJ0210E	J	LB_BMP_50Y	0	0	14.41	14.16	14.26	14.23
RJ0210F	J	LB_BMP_50Y	12.75	87.09	14.41	14.16	15.06	13.81
RJ0220A	J	LB_BMP_50Y	14.31	58.65	14.31	14.19	14.25	13.09
RJ0230A	J	LB_BMP_50Y	22.84	2.54	14.26	14.23	14.31	14.19
RJ0230B	J	LB_BMP_50Y	13.41	72.27	14.26	14.23	14.31	14.19
RJ0240A	J	LB_BMP_50Y	11.9	14.11	14.25	13.09	15.82	12.31
RJ0240B	J	LB_BMP_50Y	14.25	75.35	14.25	13.09	15.82	12.31
RJ0240D	J	LB_BMP_50Y	0	0	14.25	13.09	15.06	13.81
RJ0250A	J	LB_BMP_50Y	20.48	331.24	15.82	12.31	15.83	11.91
RJ0250B	J	LB_BMP_50Y	20.48	333.97	15.82	12.31	15.83	11.91
RJ0260A	J	LB_BMP_50Y	12.75	11.04	15.8	12.32	15.82	12.31
RJ0260C	J	LB_BMP_50Y	0	0	15.8	12.32	15.82	12.31
RJ0261A	J	LB_BMP_50Y	15.85	535.23	15.83	11.91	15.82	10.55
RK0010A	K	LB_BMP_50Y	13.97	9.17	13.94	16.25	12.8	16.03
RK0010B	K	LB_BMP_50Y	13.94	2.13	13.94	16.25	12.47	15.81
RK0010C	K	LB_BMP_50Y	13.94	0.1	13.94	16.25	12.09	16.21
RK0020A	K	LB_BMP_50Y	12.09	3.39	12.09	16.21	12.47	15.81
RK0020B	K	LB_BMP_50Y	12.09	13.64	12.09	16.21	12.81	15.22
RK0030A	K	LB_BMP_50Y	12.8	20.76	12.8	16.03	13.12	15.63
RK0030B	K	LB_BMP_50Y	12.8	18.25	12.8	16.03	13.42	15.41
RK0040A	K	LB_BMP_50Y	12.47	0.1	12.47	15.81	13.43	15.4
RK0040B	K	LB_BMP_50Y	12.47	41.69	12.47	15.81	13.42	15.41
RK0040C	K	LB_BMP_50Y	12.34	0.01	12.47	15.81	12.8	16.03
RK0050A	K	LB_BMP_50Y	13.03	20.26	13.08	15.69	13.12	15.63
RK0060A	K	LB_BMP_50Y	12.57	24.44	12.57	16.43	13.12	15.63
RK0070A	K	LB_BMP_50Y	12.96	96.78	13.12	15.63	13.42	15.4
RK0070B	K	LB_BMP_50Y	13.12	0.46	13.12	15.63	12.72	12.55
RK0080A	K	LB_BMP_50Y	0	0	13.43	15.4	12.85	15.14
RK0080B	K	LB_BMP_50Y	12.37	2.73	13.43	15.4	13.42	15.41
RK0080C	K	LB_BMP_50Y	13.42	1.32	13.43	15.4	13.43	15.38
RK0090A	K	LB_BMP_50Y	30.51	1.53	12.85	15.14	15.71	14.35
RK0090B	K	LB_BMP_50Y	0	0	12.85	15.14	12.81	15.22
RK0091A	K	LB_BMP_50Y	26.48	1.9	15.71	14.35	15.71	14.35
RK0100A	K	LB_BMP_50Y	13.37	1.29	13.4	15	39.97	11.15
RK0100B	K	LB_BMP_50Y	13.4	159.79	13.4	15	13.41	13.57
RK0100C	K	LB_BMP_50Y	0	0	13.4	15	13.42	15.4

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RK0100D	K	LB_BMP_50Y	12.59	0	13.4	15	13.57	15.17
RK0100E	K	LB_BMP_50Y	0	0	13.4	15	12.85	15.14
RK0100F	K	LB_BMP_50Y	0	0	13.4	15	13.43	15.38
RK0110A	K	LB_BMP_50Y	12.85	6.81	13.43	15.38	13.57	15.17
RK0110B	K	LB_BMP_50Y	13.42	11.77	13.43	15.38	13.57	15.17
RK0110C	K	LB_BMP_50Y	0	0	13.57	15.17	12.85	15.14
RK0130A	K	LB_BMP_50Y	13.42	1.24	13.43	15.39	12.75	14.83
RK0130B	K	LB_BMP_50Y	34.58	4.12	13.43	15.39	13.42	15.4
RK0130C	K	LB_BMP_50Y	13.33	95.61	13.43	15.39	13.43	15.38
RK0130D	K	LB_BMP_50Y	13.43	3.44	13.43	15.39	13.4	15
RK0130E	K	LB_BMP_50Y	0	0	13.43	15.39	13.43	15.4
RK0130F	K	LB_BMP_50Y	0	0	13.43	15.39	13.42	15.41
RK0140A	K	LB_BMP_50Y	12.17	4.45	13.42	15.41	13.42	15.4
RK0140B	K	LB_BMP_50Y	12.59	56.84	13.42	15.41	13.42	15.4
RK0150A	K	LB_BMP_50Y	12.64	0.43	13.42	15.4	13.43	15.39
RK0150B	K	LB_BMP_50Y	13.42	12.89	13.42	15.4	39.97	11.15
RK0150C	K	LB_BMP_50Y	0	0	13.42	15.4	39.97	11.15
RK0160A	K	LB_BMP_50Y	13.4	163.66	13.41	13.57	39.97	11.15
RK0160B	K	LB_BMP_50Y	0	0	13.41	13.57	39.97	11.15
RK0160C	K	LB_BMP_50Y	0	0	13.41	13.57	12.45	13.67
RK0160D	K	LB_BMP_50Y	0	0	13.41	13.57	15.84	14.32
RK0161A	K	LB_BMP_50Y	41.77	3.55	39.97	11.15	26.1	11.33
RA0010A	A	LB_BMP_25Y	16.61	1.62	16.61	17.58	24.56	14.58
RA0020A	A	LB_BMP_25Y	0	0	24.56	14.58	15.88	14.88
RA0020B	A	LB_BMP_25Y	38.3	3.24	24.56	14.58	15.88	14.88
RA0030A	A	LB_BMP_25Y	24.78	5.48	15.54	16.17	12.98	16.12
RA0030C	A	LB_BMP_25Y	0	0	15.54	16.17	12.83	17.01
RA0040A	A	LB_BMP_25Y	0	0	12.17	16.86	12.83	17.01
RA0040B	A	LB_BMP_25Y	12.17	0.12	12.17	16.86	24.56	14.58
RA0040C	A	LB_BMP_25Y	12.17	31.62	12.17	16.86	15.88	14.88
RA0040D	A	LB_BMP_25Y	0	0	12.17	16.86	15.54	16.17
RA0060A	A	LB_BMP_25Y	12.4	5.54	12.41	17.57	12.82	16.95
RA0070A	A	LB_BMP_25Y	12.11	2.89	12.82	16.95	12.87	17.16
RA0070B	A	LB_BMP_25Y	12.82	57.23	12.82	16.95	14.14	15.36
RA0080A	A	LB_BMP_25Y	12.87	70.65	12.87	17.16	12.98	16.12
RA0081A	A	LB_BMP_25Y	12.67	54.84	12.98	16.12	13.75	15.43
RA0081B	A	LB_BMP_25Y	0	0	12.98	16.12	12.83	17.01
RA0081C	A	LB_BMP_25Y	12.98	17.82	12.98	16.12	13.75	15.43
RA0081D	A	LB_BMP_25Y	0	0	12.98	16.12	15.54	16.17
RA0081E	A	LB_BMP_25Y	12.98	0.53	12.98	16.12	14.2	15.35
RA0081F	A	LB_BMP_25Y	0	0	12.98	16.12	14.14	15.36
RA0082A	A	LB_BMP_25Y	12.91	73.41	13.75	15.43	14.13	15.36
RB0010A	B	LB_BMP_25Y	12.72	3.15	12.62	17.31	12.42	17.24
RB0010B	B	LB_BMP_25Y	0	0	12.62	17.31	12.37	17.27
RB0020A	B	LB_BMP_25Y	12.35	13.74	12.37	17.27	12.42	17.24
RB0030A	B	LB_BMP_25Y	12.27	15.4	12.27	15.65	12.33	14.54
RB0030B	B	LB_BMP_25Y	0	0	12.27	15.65	14.42	16.98



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RB0030C	B	LB_BMP_25Y	12.27	15.17	12.27	15.65	12.26	15.11
RB0040A	B	LB_BMP_25Y	12.19	24.29	12.19	18.01	12.26	15.11
RB0040B	B	LB_BMP_25Y	12.19	0.18	12.19	18.01	12.09	17.42
RB0040C	B	LB_BMP_25Y	0	0	12.19	18.01	13.17	17.83
RB0050A	B	LB_BMP_25Y	12.19	5.02	12.26	15.11	12.33	14.54
RB0050B	B	LB_BMP_25Y	0	0	12.26	15.11	13.17	17.83
RB0050C	B	LB_BMP_25Y	11.81	23.8	12.26	15.11	12.26	15.1
RB0050D	B	LB_BMP_25Y	12.26	63.49	12.26	15.11	12.33	14.57
RB0050E	B	LB_BMP_25Y	12.26	8.25	12.26	15.11	12.33	14.54
RB0051A	B	LB_BMP_25Y	12.01	23.33	12.26	15.1	12.33	14.54
RB0055A	B	LB_BMP_25Y	11.94	9.65	12.33	14.57	12.33	14.54
RB0055B	B	LB_BMP_25Y	12.32	70.75	12.33	14.57	12.33	14.54
RB0060A	B	LB_BMP_25Y	13.17	3.62	13.17	17.83	14.42	16.98
RB0070A	B	LB_BMP_25Y	12.09	13.84	12.09	17.42	14.42	16.98
RB0080A	B	LB_BMP_25Y	14.42	34.67	14.42	16.98	14.81	15.95
RB0090A	B	LB_BMP_25Y	12.33	97.83	12.33	14.54	29.33	8.65
RB0090B	B	LB_BMP_25Y	12.33	47.1	12.33	14.54	12.49	11.4
RC0010A	C	LB_BMP_25Y	12.01	0.8	12.42	17.24	12.37	17.27
RC0010B	C	LB_BMP_25Y	12.42	30.18	12.42	17.24	13.77	15.01
RC0010C	C	LB_BMP_25Y	12.42	4.43	12.42	17.24	14.42	16.98
RC0020A	C	LB_BMP_25Y	12.45	41.87	13.77	15.01	13.79	15
RC0021A	C	LB_BMP_25Y	10.6	12.42	13.79	15	13.79	15.01
RC0021B	C	LB_BMP_25Y	13.38	56.88	13.79	15	13.84	14.96
RC0022A	C	LB_BMP_25Y	12.56	38.81	13.84	14.96	14.25	14.79
RC0022B	C	LB_BMP_25Y	13.63	37.57	13.84	14.96	14.25	14.79
RC0030A	C	LB_BMP_25Y	12.48	21.32	12.48	15.43	13.75	15.03
RC0031A	C	LB_BMP_25Y	12.15	5.95	13.75	15.03	13.79	15
RC0031B	C	LB_BMP_25Y	12.53	17.89	13.75	15.03	13.79	15
RC0040A	C	LB_BMP_25Y	14.81	36.36	14.81	15.95	15.68	14.75
RC0050A	C	LB_BMP_25Y	25.1	6.61	15.68	14.75	15.69	14.74
RC0050B	C	LB_BMP_25Y	15.2	66.13	15.68	14.75	15.69	14.74
RC0050C	C	LB_BMP_25Y	0	0	15.68	14.75	14.25	14.79
RC0051A	C	LB_BMP_25Y	14.89	56.22	15.69	14.74	15.92	14.6
RC0051B	C	LB_BMP_25Y	15.38	2.14	15.69	14.74	16.07	14.38
RC0051C	C	LB_BMP_25Y	15.65	17.6	15.69	14.74	15.92	14.6
RC0060A	C	LB_BMP_25Y	12.1	10.54	12.1	16.78	15.88	14.88
RC0070A	C	LB_BMP_25Y	29.96	5.63	15.88	14.88	13.79	15.01
RC0070B	C	LB_BMP_25Y	0	0	15.88	14.88	13.79	15.01
RC0080A	C	LB_BMP_25Y	12.58	15.36	13.79	15.01	14.25	14.79
RC0100A	C	LB_BMP_25Y	13.82	56.69	16.12	14.35	16.23	14.29
RC0100B	C	LB_BMP_25Y	15.97	4.39	16.07	14.38	16.12	14.35
RC0101A	C	LB_BMP_25Y	13.8	57.31	16.07	14.38	16.12	14.35
RC0101B	C	LB_BMP_25Y	13.52	59.38	15.7	14.58	16.07	14.38
RC0101C	C	LB_BMP_25Y	16.24	1.93	16.07	14.38	15.6	14.32
RC0102A	C	LB_BMP_25Y	27.69	21.57	15.7	14.59	15.7	14.58
RC0102B	C	LB_BMP_25Y	13.48	56.02	15.7	14.59	15.7	14.58
RC0103A	C	LB_BMP_25Y	13.4	61.62	14.27	14.78	15.7	14.59



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0104A	C	LB_BMP_25Y	12.27	18.39	14.25	14.79	14.27	14.78
RC0104B	C	LB_BMP_25Y	13.34	58.06	14.25	14.79	14.27	14.78
RC0105A	C	LB_BMP_25Y	14.02	53.62	16.23	14.29	16.36	14.19
RC0105B	C	LB_BMP_25Y	16.22	2.79	16.23	14.29	16.36	14.19
RC0105C	C	LB_BMP_25Y	16.96	0.09	16.23	14.29	15.6	14.32
RC0106	C	LB_BMP_25Y	0.21	1681.91	16.36	14.19	16.36	14.19
RC0110A	C	LB_BMP_25Y	0	0	12.34	15.14	16.36	14.19
RC0110B	C	LB_BMP_25Y	12.34	1.96	12.34	15.14	15.92	14.6
RC0115A	C	LB_BMP_25Y	15.66	60.97	15.92	14.6	16.36	14.19
RC0120A	C	LB_BMP_25Y	12.04	18.92	16.36	14.18	16.36	14.18
RC0120B	C	LB_BMP_25Y	0	0	16.36	14.18	16.36	14.18
RC0130	C	LB_BMP_25Y	0	0	26.92	13.31	16.36	14.18
RC0140A	C	LB_BMP_25Y	24.42	7.29	16.36	14.18	16.36	14.18
RC0140B	C	LB_BMP_25Y	13.62	0.86	16.36	14.18	16.36	14.18
RC0140C	C	LB_BMP_25Y	2.92	4.59	16.36	14.18	16.36	14.18
RC0150A	C	LB_BMP_25Y	24.45	1.53	16.36	14.18	16.36	14.18
RC0160	C	LB_BMP_25Y	20.7	8826.9	16.36	14.19	16.36	14.18
RC0160A	C	LB_BMP_25Y	0	17898.2	16.36	14.19	16.36	14.19
RC0160B	C	LB_BMP_25Y	0	39274.6	16.36	14.19	16.36	14.19
RC0161	C	LB_BMP_25Y	0.13	1550.87	16.36	14.18	16.36	14.18
RC0170A	C	LB_BMP_25Y	0.56	345.24	16.36	14.18	16.1	14.1
RC0170C	C	LB_BMP_25Y	0	0	16.36	14.18	16.1	14.1
RC0170D	C	LB_BMP_25Y	20.7	107.1	16.36	14.18	16.36	14.18
RD0010A	D	LB_BMP_25Y	18.17	0.05	17.73	16.16	17.73	16.16
RD0010B	D	LB_BMP_25Y	18.17	0.13	17.73	16.16	17.73	16.16
RD0020A	D	LB_BMP_25Y	12.03	1.72	17.74	16.16	17.73	16.16
RD0030A	D	LB_BMP_25Y	17.73	1.35	17.73	16.16	14.4	15.31
RD0040A	D	LB_BMP_25Y	0	0	14.14	15.36	14.4	15.31
RD0040B	D	LB_BMP_25Y	12.71	64.97	14.14	15.36	14.2	15.35
RD0050A	D	LB_BMP_25Y	11.9	18.79	14.2	15.35	14.13	15.36
RD0050B	D	LB_BMP_25Y	12.61	3.17	14.2	15.35	14.13	15.36
RD0050C	D	LB_BMP_25Y	12.92	70.44	14.2	15.35	14.29	15.31
RD0051A	D	LB_BMP_25Y	6.78	0.29	14.13	15.36	13.03	15.53
RD0051B	D	LB_BMP_25Y	12.82	80.38	14.13	15.36	14.29	15.32
RD0060A	D	LB_BMP_25Y	0	0	13.03	15.53	14.25	14.79
RD0060B	D	LB_BMP_25Y	12.9	8.03	13.03	15.53	13.75	15.43
RD0060C	D	LB_BMP_25Y	0	0	13.03	15.53	15.88	14.88
RD0060D	D	LB_BMP_25Y	0	0	13.03	15.53	12.17	16.86
RD0060E	D	LB_BMP_25Y	0	0	13.03	15.53	12.83	17.01
RD0070A	D	LB_BMP_25Y	12.04	16.9	14.38	15.29	14.39	15.29
RD0070B	D	LB_BMP_25Y	12.42	33.03	14.38	15.29	14.39	15.29
RD0070C	D	LB_BMP_25Y	14.38	5.59	14.38	15.29	14.25	14.79
RD0080A	D	LB_BMP_25Y	11.78	129.4	14.29	15.32	14.29	15.31
RD0080B	D	LB_BMP_25Y	12.87	3.52	14.29	15.32	14.29	15.31
RD0080C	D	LB_BMP_25Y	13.23	19.95	14.29	15.32	14.38	15.29
RD0081A	D	LB_BMP_25Y	12.79	127.45	14.29	15.31	14.39	15.29
RD0090A	D	LB_BMP_25Y	14.9	5.39	14.4	15.31	14.39	15.29

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0090B	D	LB_BMP_25Y	14.84	115.32	14.4	15.31	14.39	15.29
RD0091A	D	LB_BMP_25Y	14.17	200.22	14.39	15.29	15.39	14.4
RD0100A	D	LB_BMP_25Y	13.1	26.34	13.1	14.99	15.4	14.39
RD0100B	D	LB_BMP_25Y	0	0	13.1	14.99	14.4	15.31
RD0110A	D	LB_BMP_25Y	14.19	12.99	14.96	15	15.39	14.4
RD0110B	D	LB_BMP_25Y	0	0	14.96	15	15.43	14.41
RD0110C	D	LB_BMP_25Y	0	0	14.96	15	15.4	14.39
RD0110D	D	LB_BMP_25Y	14.98	0.64	14.96	15	13.1	14.99
RD0120A	D	LB_BMP_25Y	12.21	13.79	15.43	14.41	15.39	14.4
RD0120B	D	LB_BMP_25Y	0	0	15.43	14.41	15.39	14.4
RD0120C	D	LB_BMP_25Y	0	0	15.43	14.41	14.4	15.31
RD0130A	D	LB_BMP_25Y	12.99	106.25	12.99	14.9	15.4	14.39
RD0130B	D	LB_BMP_25Y	12.17	19.13	12.99	14.9	12.96	14.93
RD0130D	D	LB_BMP_25Y	12.45	12.99	12.99	14.9	13.1	14.99
RD0140A	D	LB_BMP_25Y	12.39	2.55	12.39	15.43	12.96	14.93
RD0150A	D	LB_BMP_25Y	12	4.32	12.96	14.93	13	15.05
RD0150B	D	LB_BMP_25Y	0	0	12.96	14.93	15.4	14.39
RD0150C	D	LB_BMP_25Y	0	0	12.96	14.93	13	15.05
RD0160A	D	LB_BMP_25Y	12.27	6.4	12.27	15.17	13	15.05
RD0160B	D	LB_BMP_25Y	12.27	8.17	12.27	15.17	12.96	14.93
RD0160C	D	LB_BMP_25Y	12.27	1.45	12.27	15.17	15.4	14.39
RD0160D	D	LB_BMP_25Y	0	0	12.27	15.17	12.66	15.33
RD0170A	D	LB_BMP_25Y	12.25	8.08	12.66	15.33	14.57	14.18
RD0170B	D	LB_BMP_25Y	0	0	12.66	15.33	15.4	14.39
RD0170C	D	LB_BMP_25Y	0	0	12.66	15.33	13	15.05
RD0180A	D	LB_BMP_25Y	12.98	1.97	12.97	14.38	18.74	13.91
RD0180B	D	LB_BMP_25Y	0	0	12.97	14.38	13	15.05
RD0180C	D	LB_BMP_25Y	12.97	21.3	12.97	14.38	15.59	14.32
RD0181A	D	LB_BMP_25Y	12.73	8.73	14.57	14.18	15.95	14.09
RD0182A	D	LB_BMP_25Y	12.79	8.56	15.95	14.09	15.99	14.08
RD0182B	D	LB_BMP_25Y	0	0	15.95	14.09	13.87	12.4
RD0190A	D	LB_BMP_25Y	25.25	21.01	15.4	14.39	15.39	14.4
RD0190B	D	LB_BMP_25Y	12.45	70.65	15.4	14.39	15.39	14.4
RD0190C	D	LB_BMP_25Y	15.68	3.36	15.4	14.39	12.97	14.38
RD0190D	D	LB_BMP_25Y	12.99	43.36	15.4	14.39	15.42	14.39
RD0200A	D	LB_BMP_25Y	12.34	4.73	15.35	14.4	15.39	14.4
RD0200B	D	LB_BMP_25Y	0	0	15.35	14.4	15.34	14.41
RD0200C	D	LB_BMP_25Y	0	0	15.35	14.4	15.39	14.4
RD0210A	D	LB_BMP_25Y	12.3	7.32	15.34	14.41	15.39	14.4
RD0210B	D	LB_BMP_25Y	12.3	15.12	15.34	14.41	15.39	14.4
RD0210C	D	LB_BMP_25Y	0	0	15.34	14.41	15.6	14.32
RD0210D	D	LB_BMP_25Y	0	0	15.34	14.41	14.25	14.79
RD0210E	D	LB_BMP_25Y	0	0	15.34	14.41	15.39	14.4
RD0220A	D	LB_BMP_25Y	15.41	83.03	15.6	14.32	15.6	14.31
RD0220B	D	LB_BMP_25Y	0	0	15.6	14.32	16.36	14.19
RD0220C	D	LB_BMP_25Y	0	0	15.6	14.32	15.39	14.4
RD0230A	D	LB_BMP_25Y	12.47	98.05	15.39	14.4	15.42	14.39

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0230B	D	LB_BMP_25Y	12.98	43.08	15.39	14.4	15.42	14.39
RD0231A	D	LB_BMP_25Y	12.94	167.89	15.42	14.39	15.6	14.31
RD0240A	D	LB_BMP_25Y	11.92	4.45	13.01	15.06	13.01	15.08
RD0240B	D	LB_BMP_25Y	0	0	13.01	15.06	13.01	15.08
RD0240C	D	LB_BMP_25Y	13.05	9.03	13.01	15.06	13	15.05
RD0240D	D	LB_BMP_25Y	0	0	13.01	15.06	13	15.05
RD0250A	D	LB_BMP_25Y	13.04	10.42	13.01	15.08	13	15.05
RD0250B	D	LB_BMP_25Y	0	0	13.01	15.08	13	15.05
RD0260A	D	LB_BMP_25Y	12.96	8.79	13	15.05	13.01	15.04
RD0260B	D	LB_BMP_25Y	12.98	0.33	13	15.05	13.01	15.04
RD0270A	D	LB_BMP_25Y	13.73	177.84	15.59	14.32	15.6	14.31
RD0270B	D	LB_BMP_25Y	0	0	15.59	14.32	15.4	14.39
RD0280A	D	LB_BMP_25Y	16.48	1.05	15.6	14.31	15.6	14.31
RD0280B	D	LB_BMP_25Y	12.09	14.56	15.6	14.31	15.6	14.31
RD0280C	D	LB_BMP_25Y	0	0	15.6	14.31	16.36	14.18
RD0280D	D	LB_BMP_25Y	0	0	15.6	14.31	15.6	14.32
RD0290A	D	LB_BMP_25Y	13.51	362.72	15.6	14.31	15.99	14.08
RD0290B	D	LB_BMP_25Y	0	0	15.6	14.31	15.99	14.08
RD0290C	D	LB_BMP_25Y	0	0	15.6	14.31	16.36	14.18
RE0010A	E	LB_BMP_25Y	12.85	0.37	12.85	15.43	12.2	12.5
RE0020A	E	LB_BMP_25Y	12.2	16.57	12.2	12.5	24.65	6.99
RE0020B	E	LB_BMP_25Y	0	0	12.2	12.5	14.39	8.49
RE0030A	E	LB_BMP_25Y	12.89	49.33	12.89	11.37	12.84	9.38
RE0030B	E	LB_BMP_25Y	0	0	12.89	11.37	14.37	8.39
RE0030C	E	LB_BMP_25Y	0	0	12.89	11.37	12.2	12.5
RE0030D	E	LB_BMP_25Y	0	0	12.89	11.37	12.85	15.43
RE0040A	E	LB_BMP_25Y	12.14	8.86	14.36	8.34	14.38	8.35
RE0040B	E	LB_BMP_25Y	12.5	28.68	14.36	8.34	14.37	8.34
RE0041	E	LB_BMP_25Y	15.4	6.77	14.38	8.34	14.37	8.34
RE0041B	E	LB_BMP_25Y	0	0	14.38	8.34	14.37	8.34
RE0050A	E	LB_BMP_25Y	12.59	81.38	12.84	9.38	13.94	8.35
RE0050B	E	LB_BMP_25Y	0	0	12.84	9.38	14.36	8.34
RE0050C	E	LB_BMP_25Y	0	0	12.84	9.38	14.37	8.39
RE0060A	E	LB_BMP_25Y	13.24	12.85	13.26	5.58	13.24	2.53
RE0060B	E	LB_BMP_25Y	0	0	13.26	5.58	13.25	5.58
RE0080A	E	LB_BMP_25Y	12.34	16.49	12.35	7.97	14.37	6.55
RE0080B	E	LB_BMP_25Y	12.35	13.18	12.35	7.97	14.37	6.55
RE0080C	E	LB_BMP_25Y	12.35	0.97	12.35	7.97	12.55	7.37
RE0090A	E	LB_BMP_25Y	12.54	37.3	12.54	5.06	0	0.7
RE0090B	E	LB_BMP_25Y	12.3	0.02	12.54	5.06	13.25	5.58
RE0100A	E	LB_BMP_25Y	12.55	9.74	12.55	7.37	12.45	2.9
RE0100B	E	LB_BMP_25Y	12.55	9.59	12.55	7.37	12.54	5.06
RE0100C	E	LB_BMP_25Y	0	0	12.55	7.37	13.95	2.01
RF0010A	F	LB_BMP_25Y	12.5	8.36	12.78	11.18	12.87	10.49
RF0010B	F	LB_BMP_25Y	12.78	4.1	12.78	11.18	12.61	5.83
RF0011A	F	LB_BMP_25Y	12.85	7.04	12.87	10.49	12.85	9.32
RF0011B	F	LB_BMP_25Y	0	0	12.87	10.49	14.35	8.4

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RF0012A	F	LB_BMP_25Y	13	7.01	13.03	9.17	35.49	5.89
RF0020A	F	LB_BMP_25Y	0	0	25.83	8.12	14.37	6.55
RF0030A	F	LB_BMP_25Y	12.74	13.12	12.74	6.63	14.38	4.06
RF0040A	F	LB_BMP_25Y	0	0	12.61	5.83	14.38	4.06
RF0040B	F	LB_BMP_25Y	0	0	12.61	5.83	12.21	8.14
RF0040C	F	LB_BMP_25Y	0	0	12.61	5.83	14.38	4.06
RF0040D	F	LB_BMP_25Y	12.61	89.92	12.61	5.83	13.95	2.01
RF0042A	F	LB_BMP_25Y	14.44	677.75	14.38	4.06	13.95	2.01
RF0050A	F	LB_BMP_25Y	12.21	9.48	12.21	8.14	12.21	3.21
RF0050B	F	LB_BMP_25Y	12.21	14.75	12.21	8.14	13.95	2.01
RF0060A	F	LB_BMP_25Y	13.95	820.26	13.95	2.01	0.8	0.7
RF0060B	F	LB_BMP_25Y	0	0	13.95	2.01	13.25	5.58
RF0061	F	LB_BMP_25Y	5.67	13.9	14.38	8.17	14.38	8.16
RF0061B	F	LB_BMP_25Y	14.42	27.88	14.38	8.17	14.38	8.16
RF0062	F	LB_BMP_25Y	14.38	664.72	14.38	8.16	14.37	6.55
RG0010A	G	LB_BMP_25Y	13.32	13.25	13.34	15.85	12.27	15.16
RG0010B	G	LB_BMP_25Y	0	0	13.34	15.85	13	15.38
RG0010C	G	LB_BMP_25Y	0	0	13.34	15.85	12.73	15.94
RG0020A	G	LB_BMP_25Y	12.21	7.17	12.73	15.94	13.05	15.91
RG0020B	G	LB_BMP_25Y	0	0	12.73	15.94	13.05	15.91
RG0030A	G	LB_BMP_25Y	13.19	20.23	13.1	15.95	13.05	15.91
RG0030B	G	LB_BMP_25Y	0	0	13.1	15.95	12.49	11.4
RG0040A	G	LB_BMP_25Y	13.05	45.42	13.05	15.91	13	15.38
RG0040B	G	LB_BMP_25Y	0	0	13.05	15.91	17.79	10.14
RG0050A	G	LB_BMP_25Y	13.5	8.09	13.5	16.22	13.58	10.08
RG0050B	G	LB_BMP_25Y	13.5	0	13.5	16.22	14.39	8.49
RG0050C	G	LB_BMP_25Y	0	0	13.5	16.22	12.85	15.43
RG0060A	G	LB_BMP_25Y	0	0	13.05	15.8	13.05	15.91
RG0060B	G	LB_BMP_25Y	0	0	13	15.38	13.05	15.91
RG0060C	G	LB_BMP_25Y	13	61.94	13	15.38	14.38	10.13
RG0060D	G	LB_BMP_25Y	13	20.17	13	15.38	13.58	10.08
RG0060E	G	LB_BMP_25Y	0	0	13	15.38	12.56	10.69
RG0070A	G	LB_BMP_25Y	12.08	27.82	12.08	13.78	12.49	11.4
RG0080A	G	LB_BMP_25Y	25.41	17.36	17.79	10.14	12.49	11.4
RG0080B	G	LB_BMP_25Y	0	0	17.79	10.14	12.49	11.4
RG0090A	G	LB_BMP_25Y	12.21	9.66	16.03	11.36	15.98	11.36
RG0090B	G	LB_BMP_25Y	0	0	16.03	11.36	26.17	10.79
RG0090C	G	LB_BMP_25Y	0	0	16.03	11.36	15.98	11.36
RG0090D	G	LB_BMP_25Y	0	0	16.03	11.36	14.38	10.13
RG0100A	G	LB_BMP_25Y	21.06	0.81	16.06	11.36	16.03	11.36
RG0100B	G	LB_BMP_25Y	0	0	16.06	11.36	16.03	11.36
RG0110A	G	LB_BMP_25Y	12.5	25.33	17.79	10.14	17.79	10.14
RG0110B	G	LB_BMP_25Y	0	0	17.79	10.14	16.06	11.36
RG0110C	G	LB_BMP_25Y	0	0	17.79	10.14	12.49	11.4
RG0110D	G	LB_BMP_25Y	0	0	17.79	10.14	16.06	11.36
RG0120A	G	LB_BMP_25Y	0	0	26.17	10.79	12.56	10.69
RG0121A	G	LB_BMP_25Y	24.28	0.26	16.06	11.36	16.06	11.36

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RG0121B	G	LB_BMP_25Y	0	0	16.06	11.36	16.06	11.36
RG0130A	G	LB_BMP_25Y	12.41	70.97	12.49	11.4	12.56	10.69
RG0130B	G	LB_BMP_25Y	0	0	12.49	11.4	12.56	10.69
RG0130C	G	LB_BMP_25Y	0	0	12.49	11.4	26.17	10.79
RG0140A	G	LB_BMP_25Y	12.46	78.34	12.56	10.69	14.38	10.13
RG0140B	G	LB_BMP_25Y	0	0	12.56	10.69	14.38	10.13
RG0150A	G	LB_BMP_25Y	12.61	151.16	14.38	10.13	14.59	10.12
RG0160A	G	LB_BMP_25Y	13.21	60.41	13.58	10.08	14.43	9.96
RG0170A	G	LB_BMP_25Y	13.25	518.03	14.37	8.39	14.37	8.34
RG0170B	G	LB_BMP_25Y	14.37	74.96	14.37	8.39	14.37	8.34
RG0170C	G	LB_BMP_25Y	14.36	14.29	14.37	8.39	14.38	8.33
RG0170D	G	LB_BMP_25Y	12.95	27.64	14.37	8.39	14.38	8.33
RG0171A	G	LB_BMP_25Y	14.3	631.36	14.37	8.34	14.38	8.16
RG0172A	G	LB_BMP_25Y	14.37	669.75	14.37	6.55	14.38	4.06
RH0010A	H	LB_BMP_25Y	12.64	19.09	12.65	10.66	13.92	9.51
RH0010B	H	LB_BMP_25Y	0	0	12.65	10.66	13.39	9.56
RH0010C	H	LB_BMP_25Y	0	0	12.65	10.66	20.25	13.23
RH0010D	H	LB_BMP_25Y	0	0	12.65	10.66	20.21	13.23
RH0011A	H	LB_BMP_25Y	12.94	15.5	13.39	9.56	14.41	9.21
RH0020A	H	LB_BMP_25Y	0	0	20.25	13.23	20.21	13.23
RH0020B	H	LB_BMP_25Y	20.25	0.01	20.25	13.23	12.75	12.04
RH0020C	H	LB_BMP_25Y	0	0	20.25	13.23	14.35	8.4
RH0030A	H	LB_BMP_25Y	0	0	20.21	13.23	12.75	12.04
RH0030B	H	LB_BMP_25Y	0	0	20.21	13.23	14.41	9.21
RH0040A	H	LB_BMP_25Y	12.75	5.76	12.75	12.04	14.41	9.07
RH0040B	H	LB_BMP_25Y	12.75	3.46	12.75	12.04	14.35	8.4
RH0050A	H	LB_BMP_25Y	0	0	14.35	8.4	14.35	8.51
RH0050B	H	LB_BMP_25Y	14.28	25.84	14.35	8.4	14.37	8.34
RH0050C	H	LB_BMP_25Y	12.76	56.53	14.35	8.4	14.37	8.39
RH0050D	H	LB_BMP_25Y	0	0	14.35	8.4	12.74	6.63
RH0051	H	LB_BMP_25Y	14.37	33.51	14.38	8.33	14.38	8.17
RH0051B	H	LB_BMP_25Y	0	0	14.38	8.33	14.38	8.17
RH0060A	H	LB_BMP_25Y	17.02	473.05	14.59	10.12	14.43	9.96
RH0070A	H	LB_BMP_25Y	13.45	503.56	14.43	9.96	14.41	9.21
RH0070B	H	LB_BMP_25Y	14.43	1.39	14.43	9.96	14.39	8.49
RH0071A	H	LB_BMP_25Y	17.07	506.87	14.41	9.21	14.41	9.07
RH0080A	H	LB_BMP_25Y	14.34	0	14.35	8.51	14.39	8.49
RH0080B	H	LB_BMP_25Y	0	0	14.35	8.51	14.39	8.49
RH0080C	C	LB_BMP_25Y	37.68	39.32	14.35	8.51	14.39	8.49
RH0080D	H	LB_BMP_25Y	0	0	14.35	8.51	14.35	8.4
RH0090A	H	LB_BMP_25Y	14.71	524.77	14.41	9.07	14.39	8.49
RH0091A	H	LB_BMP_25Y	15	534.72	14.39	8.49	14.37	8.39
RH0165	H	LB_BMP_25Y	12.19	8.82	14.38	8.35	14.38	8.34
RH0165B	H	LB_BMP_25Y	0	0	14.38	8.35	14.37	8.39
RJ0010A	J	LB_BMP_25Y	12.12	3.08	12.12	14.53	12.64	13.5
RJ0010B	J	LB_BMP_25Y	12.12	1.51	12.12	14.53	13.87	12.4
RJ0020A	J	LB_BMP_25Y	12.64	35.77	12.64	13.5	16.3	12.35

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0020B	J	LB_BMP_25Y	0	0	12.64	13.5	12.12	14.53
RJ0030A	J	LB_BMP_25Y	4.42	53.64	16.3	12.35	16.3	12.31
RJ0030B	J	LB_BMP_25Y	14.9	235.91	16.3	12.35	16.3	12.31
RJ0030D	J	LB_BMP_25Y	14.48	236.64	16.29	12.36	16.3	12.35
RJ0040A	J	LB_BMP_25Y	1.2	24.53	16.1	14.1	16.07	14.08
RJ0040B	J	LB_BMP_25Y	12.06	13.6	16.1	14.1	16.1	14.1
RJ0040C	J	LB_BMP_25Y	16.49	4.88	16.1	14.1	16.07	14.08
RJ0050A	J	LB_BMP_25Y	1.2	18.73	16.07	14.08	16.24	13.64
RJ0060A	J	LB_BMP_25Y	3.15	14.21	16.24	13.64	16.21	11.96
RJ0060B	J	LB_BMP_25Y	0	0	16.24	13.64	16.07	14.08
RJ0070A	J	LB_BMP_25Y	21	15.89	16.21	11.96	16.21	11.96
RJ0080A	J	LB_BMP_25Y	0.53	321.21	16.1	14.1	15.99	14.08
RJ0090A	J	LB_BMP_25Y	12.56	1.4	15.99	14.08	16.1	14.1
RJ0090B	J	LB_BMP_25Y	12.75	45.51	15.99	14.08	15.99	14.08
RJ0090C	J	LB_BMP_25Y	15.99	36.12	15.99	14.08	16.21	11.96
RJ0090D	J	LB_BMP_25Y	0	0	15.99	14.08	16.1	14.1
RJ0090E	J	LB_BMP_25Y	15.99	0.38	15.99	14.08	16.21	11.96
RJ0090F	J	LB_BMP_25Y	15.99	3.37	15.99	14.08	16.24	13.64
RJ0090G	J	LB_BMP_25Y	13.99	0.03	15.99	14.08	16.1	14.1
RJ0090H	J	LB_BMP_25Y	14.48	3.42	15.99	14.08	16.07	14.08
RJ0100A	J	LB_BMP_25Y	15.69	391.01	15.99	14.08	16.29	12.36
RJ0101C	J	LB_BMP_25Y	1.44	29.07	16.29	12.36	16.3	12.35
RJ0101CH	J	LB_BMP_25Y	11.96	167.58	16.29	12.36	16.3	12.31
RJ0101W	J	LB_BMP_25Y	11.75	21.75	16.29	12.36	16.3	12.31
RJ0101WW	J	LB_BMP_25Y	16.31	23.39	16.29	12.36	16.21	11.96
RJ0110A	J	LB_BMP_25Y	12.71	34.68	12.71	12.51	28.12	10.89
RJ0120A	J	LB_BMP_25Y	0	0	28.12	10.89	16.3	12.31
RJ0121A	J	LB_BMP_25Y	7.6	8.08	28.12	10.89	28.12	10.89
RJ0121B	J	LB_BMP_25Y	32.36	0.86	28.12	10.89	16.3	12.31
RJ0130A	J	LB_BMP_25Y	15.53	67.97	15.91	13.48	16.21	11.96
RJ0130D	J	LB_BMP_25Y	15.91	1.37	15.91	13.48	16.21	11.96
RJ0140A	J	LB_BMP_25Y	19.01	281.95	16.3	12.31	16.21	11.96
RJ0141A	J	LB_BMP_25Y	16.55	415.49	16.21	11.96	15.99	11.47
RJ0150A	J	LB_BMP_25Y	13.88	11.14	13.88	15.37	14.1	14.54
RJ0160A	J	LB_BMP_25Y	13.8	54.88	14.1	14.54	14.11	14.53
RJ0160C	J	LB_BMP_25Y	14.1	3.37	14.1	14.54	15.14	13.97
RJ0170A	J	LB_BMP_25Y	13.07	1.29	13.08	15.06	13.08	15.05
RJ0170B	J	LB_BMP_25Y	13.07	24.22	13.08	15.06	13.08	15.05
RJ0170D	J	LB_BMP_25Y	13.08	2.77	13.08	15.06	14.32	14.12
RJ0190A	J	LB_BMP_25Y	13.08	29.51	13.08	15.05	14.32	14.12
RJ0200A	J	LB_BMP_25Y	14.1	52.09	14.11	14.53	14.32	14.12
RJ0200B	J	LB_BMP_25Y	23.77	14.73	14.11	14.53	15.14	13.97
RJ0210B	J	LB_BMP_25Y	15.14	7.97	15.14	13.97	15.91	13.48
RJ0210C	J	LB_BMP_25Y	0	0	15.14	13.97	14.66	14.08
RJ0210D	J	LB_BMP_25Y	0	0	15.14	13.97	14.11	14.53
RJ0210E	J	LB_BMP_25Y	0	0	15.14	13.97	14.32	14.12
RJ0210F	J	LB_BMP_25Y	13.8	74.84	15.14	13.97	15.91	13.48

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0220A	J	LB_BMP_25Y	14.66	28.93	14.66	14.08	14.28	12.99
RJ0230A	J	LB_BMP_25Y	21.59	2.55	14.32	14.12	14.66	14.08
RJ0230B	J	LB_BMP_25Y	13.79	61.84	14.32	14.12	14.66	14.08
RJ0240A	J	LB_BMP_25Y	12.07	14.06	14.28	12.99	15.99	11.47
RJ0240B	J	LB_BMP_25Y	14.28	38.57	14.28	12.99	15.99	11.47
RJ0240D	J	LB_BMP_25Y	0	0	14.28	12.99	15.91	13.48
RJ0250A	J	LB_BMP_25Y	16.11	225.73	15.99	11.47	15.98	11.36
RJ0250B	J	LB_BMP_25Y	16.11	227.6	15.99	11.47	15.98	11.36
RJ0260A	J	LB_BMP_25Y	12.83	9.04	15.97	11.48	15.99	11.47
RJ0260C	J	LB_BMP_25Y	0	0	15.97	11.48	15.99	11.47
RJ0261A	J	LB_BMP_25Y	16.15	454.71	15.98	11.36	14.59	10.12
RK0010A	K	LB_BMP_25Y	14.64	6.24	14.62	16.2	12.94	15.99
RK0010B	K	LB_BMP_25Y	14.62	1.02	14.62	16.2	12.68	15.71
RK0010C	K	LB_BMP_25Y	14.62	0	14.62	16.2	12.1	16.2
RK0020A	K	LB_BMP_25Y	12.1	2.8	12.1	16.2	12.68	15.71
RK0020B	K	LB_BMP_25Y	12.1	11.09	12.1	16.2	13.01	15.08
RK0030A	K	LB_BMP_25Y	12.94	16.25	12.94	15.99	13.28	15.54
RK0030B	K	LB_BMP_25Y	12.94	13.43	12.94	15.99	13.9	15.32
RK0040A	K	LB_BMP_25Y	0	0	12.68	15.71	13.9	15.31
RK0040B	K	LB_BMP_25Y	12.68	21.71	12.68	15.71	13.9	15.32
RK0040C	K	LB_BMP_25Y	0	0	12.68	15.71	12.94	15.99
RK0050A	K	LB_BMP_25Y	13.08	16.31	13.15	15.63	13.28	15.54
RK0060A	K	LB_BMP_25Y	12.74	17.61	12.74	16.39	13.28	15.54
RK0070A	K	LB_BMP_25Y	13.04	75.2	13.28	15.54	13.9	15.3
RK0070B	K	LB_BMP_25Y	13.28	0	13.28	15.54	12.71	12.51
RK0080A	K	LB_BMP_25Y	0	0	13.9	15.31	13.01	15.04
RK0080B	K	LB_BMP_25Y	12.59	2.18	13.9	15.31	13.9	15.32
RK0080C	K	LB_BMP_25Y	13.9	0.07	13.9	15.31	13.91	15.29
RK0090A	K	LB_BMP_25Y	29.47	1.54	13.01	15.04	15.96	14.09
RK0090B	K	LB_BMP_25Y	0	0	13.01	15.04	13.01	15.08
RK0091A	K	LB_BMP_25Y	24.46	1.87	15.96	14.09	15.95	14.09
RK0100A	K	LB_BMP_25Y	13.84	0.78	13.86	14.91	48	10.78
RK0100B	K	LB_BMP_25Y	13.86	97.85	13.86	14.91	13.87	12.4
RK0100C	K	LB_BMP_25Y	0	0	13.86	14.91	13.9	15.3
RK0100D	K	LB_BMP_25Y	0	0	13.86	14.91	14.11	15.09
RK0100E	K	LB_BMP_25Y	0	0	13.86	14.91	13.01	15.04
RK0100F	K	LB_BMP_25Y	0	0	13.86	14.91	13.91	15.29
RK0110A	K	LB_BMP_25Y	13.17	6.74	13.91	15.29	14.11	15.09
RK0110B	K	LB_BMP_25Y	13.9	5.56	13.91	15.29	14.11	15.09
RK0110C	K	LB_BMP_25Y	0	0	14.11	15.09	13.01	15.04
RK0130A	K	LB_BMP_25Y	13.9	0.83	13.91	15.29	13.11	14.79
RK0130B	K	LB_BMP_25Y	33.54	4.4	13.91	15.29	13.9	15.3
RK0130C	K	LB_BMP_25Y	13.78	60.16	13.91	15.29	13.91	15.29
RK0130D	K	LB_BMP_25Y	13.91	1.6	13.91	15.29	13.86	14.91
RK0130E	K	LB_BMP_25Y	0	0	13.91	15.29	13.9	15.31
RK0130F	K	LB_BMP_25Y	0	0	13.91	15.29	13.9	15.32
RK0140A	K	LB_BMP_25Y	11.8	5.88	13.9	15.32	13.9	15.3

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RK0140B	K	LB_BMP_25Y	12.88	35.27	13.9	15.32	13.9	15.3
RK0150A	K	LB_BMP_25Y	12.59	0.41	13.9	15.3	13.91	15.29
RK0150B	K	LB_BMP_25Y	13.9	12.79	13.9	15.3	48	10.78
RK0150C	K	LB_BMP_25Y	0	0	13.9	15.3	48	10.78
RK0160A	K	LB_BMP_25Y	13.87	100.35	13.87	12.4	48	10.78
RK0160B	K	LB_BMP_25Y	0	0	13.87	12.4	48	10.78
RK0160C	K	LB_BMP_25Y	0	0	13.87	12.4	12.64	13.5
RA0010A	A	LB_BMP_10Y	24.03	0.56	24.03	17.5	24.83	13.97
RA0020A	A	LB_BMP_10Y	0	0	24.83	13.97	17.55	14.37
RA0020B	A	LB_BMP_10Y	37.64	2.55	24.83	13.97	17.55	14.37
RA0030A	A	LB_BMP_10Y	22.48	4.91	15.36	15.47	13.54	15.34
RA0030C	A	LB_BMP_10Y	0	0	15.36	15.47	13.28	16.97
RA0040A	A	LB_BMP_10Y	0	0	12.26	16.82	13.28	16.97
RA0040B	A	LB_BMP_10Y	12.26	0.03	12.26	16.82	24.83	13.97
RA0040C	A	LB_BMP_10Y	12.26	23.96	12.26	16.82	17.55	14.37
RA0040D	A	LB_BMP_10Y	0	0	12.26	16.82	15.36	15.47
RA0060A	A	LB_BMP_10Y	12.43	4.39	12.43	17.51	13.1	16.9
RA0070A	A	LB_BMP_10Y	12.26	2.7	13.1	16.9	13.16	17.06
RA0070B	A	LB_BMP_10Y	13.1	38.32	13.1	16.9	13.03	15.17
RA0080A	A	LB_BMP_10Y	13.16	41.6	13.16	17.06	13.54	15.34
RA0081A	A	LB_BMP_10Y	13.19	39.64	13.54	15.34	14.13	14.98
RA0081B	A	LB_BMP_10Y	0	0	13.54	15.34	13.28	16.97
RA0081C	A	LB_BMP_10Y	0	0	13.54	15.34	14.13	14.98
RA0081D	A	LB_BMP_10Y	0	0	13.54	15.34	15.36	15.47
RA0081E	A	LB_BMP_10Y	0	0	13.54	15.34	14.25	14.94
RA0081F	A	LB_BMP_10Y	0	0	13.54	15.34	13.03	15.17
RA0082A	A	LB_BMP_10Y	13.24	37.84	14.13	14.98	14.24	14.94
RB0010A	B	LB_BMP_10Y	12.96	1.65	12.84	17.18	12.75	17.16
RB0010B	B	LB_BMP_10Y	0	0	12.84	17.18	12.75	17.17
RB0020A	B	LB_BMP_10Y	12.64	4.07	12.75	17.17	12.75	17.16
RB0030A	B	LB_BMP_10Y	12.28	11.86	12.28	15.61	12.44	14.35
RB0030B	B	LB_BMP_10Y	0	0	12.28	15.61	15.4	16.93
RB0030C	B	LB_BMP_10Y	12.28	12.78	12.28	15.61	12.35	15.02
RB0040A	B	LB_BMP_10Y	12.34	15.83	12.34	17.97	12.35	15.02
RB0040B	B	LB_BMP_10Y	12.34	0.01	12.34	17.97	12.09	17.39
RB0040C	B	LB_BMP_10Y	0	0	12.34	17.97	15.6	17.76
RB0050A	B	LB_BMP_10Y	12.35	4.4	12.35	15.02	12.35	11.75
RB0050B	B	LB_BMP_10Y	0	0	12.35	15.02	15.6	17.76
RB0050C	B	LB_BMP_10Y	11.87	23.55	12.35	15.02	12.35	15.02
RB0050D	B	LB_BMP_10Y	12.35	45.53	12.35	15.02	12.44	14.39
RB0050E	B	LB_BMP_10Y	12.35	2.81	12.35	15.02	12.44	14.35
RB0051A	B	LB_BMP_10Y	12.08	22.96	12.35	15.02	12.44	14.35
RB0055A	B	LB_BMP_10Y	12.02	9.66	12.44	14.39	12.44	14.35
RB0055B	B	LB_BMP_10Y	12.42	49.81	12.44	14.39	12.44	14.35
RB0060A	B	LB_BMP_10Y	15.6	1.17	15.6	17.76	15.4	16.93
RB0070A	B	LB_BMP_10Y	12.09	11.1	12.09	17.39	15.4	16.93



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RB0080A	B	LB_BMP_10Y	15.4	21.52	15.4	16.93	16.25	15.83
RB0090A	B	LB_BMP_10Y	12.44	89.09	12.44	14.35	29.27	8.47
RB0090B	B	LB_BMP_10Y	12.44	17.09	12.44	14.35	12.57	10.53
RC0010A	C	LB_BMP_10Y	12.16	0.66	12.75	17.16	12.75	17.17
RC0010B	C	LB_BMP_10Y	12.75	13.32	12.75	17.16	14.35	14.69
RC0010C	C	LB_BMP_10Y	12.75	1.57	12.75	17.16	15.4	16.93
RC0020A	C	LB_BMP_10Y	12.76	21.25	14.35	14.69	14.37	14.69
RC0021A	C	LB_BMP_10Y	11.22	12	14.37	14.69	14.37	14.69
RC0021B	C	LB_BMP_10Y	12.8	33.05	14.37	14.69	14.4	14.68
RC0022A	C	LB_BMP_10Y	12.85	29.64	14.4	14.68	14.68	14.57
RC0022B	C	LB_BMP_10Y	14.21	14	14.4	14.68	14.68	14.57
RC0030A	C	LB_BMP_10Y	12.5	17.06	12.5	15.38	14.32	14.71
RC0031A	C	LB_BMP_10Y	12.34	6.1	14.32	14.71	14.37	14.69
RC0031B	C	LB_BMP_10Y	12.61	12.4	14.32	14.71	14.37	14.69
RC0040A	C	LB_BMP_10Y	16.25	20.34	16.25	15.83	16.69	14.01
RC0050A	C	LB_BMP_10Y	23.05	6.64	16.69	14.01	16.68	13.97
RC0050B	C	LB_BMP_10Y	16.73	34.58	16.69	14.01	16.68	13.97
RC0050C	C	LB_BMP_10Y	0	0	16.69	14.01	14.68	14.57
RC0051A	C	LB_BMP_10Y	16.64	35.38	16.68	13.97	16.48	13.82
RC0051B	C	LB_BMP_10Y	17.73	1.16	16.68	13.97	15.58	13.93
RC0051C	C	LB_BMP_10Y	0	0	16.68	13.97	16.48	13.82
RC0060A	C	LB_BMP_10Y	12.11	8.42	12.11	16.74	17.55	14.37
RC0070A	C	LB_BMP_10Y	31.65	4.32	17.55	14.37	14.37	14.69
RC0070B	C	LB_BMP_10Y	0	0	17.55	14.37	14.37	14.69
RC0080A	C	LB_BMP_10Y	12.81	11.85	14.37	14.69	14.68	14.57
RC0100A	C	LB_BMP_10Y	14.38	52.2	15.64	13.89	15.82	13.79
RC0100B	C	LB_BMP_10Y	0	0	15.58	13.93	15.64	13.89
RC0101A	C	LB_BMP_10Y	14.35	52.54	15.58	13.93	15.64	13.89
RC0101B	C	LB_BMP_10Y	14.18	54.62	15.07	14.27	15.58	13.93
RC0101C	C	LB_BMP_10Y	0	0	15.58	13.93	15.44	13.81
RC0102A	C	LB_BMP_10Y	25.87	21.56	15.06	14.28	15.07	14.27
RC0102B	C	LB_BMP_10Y	14.14	50.47	15.06	14.28	15.07	14.27
RC0103A	C	LB_BMP_10Y	14.03	55.69	14.69	14.56	15.06	14.28
RC0104A	C	LB_BMP_10Y	12.45	18.46	14.68	14.57	14.69	14.56
RC0104B	C	LB_BMP_10Y	13.97	51.68	14.68	14.57	14.69	14.56
RC0105A	C	LB_BMP_10Y	14.61	51.02	15.82	13.79	15.98	13.68
RC0105B	C	LB_BMP_10Y	0	0	15.82	13.79	15.98	13.68
RC0105C	C	LB_BMP_10Y	0	0	15.82	13.79	15.44	13.81
RC0106	C	LB_BMP_10Y	0.21	1681.91	15.98	13.68	15.98	13.68
RC0110A	C	LB_BMP_10Y	0	0	12.35	15.12	15.98	13.68
RC0110B	C	LB_BMP_10Y	12.35	1.57	12.35	15.12	16.48	13.82
RC0115A	C	LB_BMP_10Y	16.73	37.08	16.48	13.82	15.98	13.68
RC0120A	C	LB_BMP_10Y	12.03	16	15.98	13.68	15.98	13.68
RC0120B	C	LB_BMP_10Y	0	0	15.98	13.68	15.98	13.68
RC0130	C	LB_BMP_10Y	0	0	26.92	12.72	15.98	13.68
RC0140A	C	LB_BMP_10Y	12.24	7.11	15.98	13.68	15.98	13.68
RC0140B	C	LB_BMP_10Y	20.57	0.53	15.98	13.68	15.98	13.68

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0140C	C	LB_BMP_10Y	2.92	4.58	15.98	13.68	15.98	13.68
RC0150A	C	LB_BMP_10Y	12.24	1.53	15.98	13.68	15.98	13.68
RC0160	C	LB_BMP_10Y	0.12	1773.55	15.98	13.68	15.98	13.68
RC0160A	C	LB_BMP_10Y	0	17898.2	15.98	13.68	15.98	13.68
RC0160B	C	LB_BMP_10Y	0	39274.6	15.98	13.68	15.98	13.68
RC0161	C	LB_BMP_10Y	0.13	1550.87	15.98	13.68	15.98	13.68
RC0170A	C	LB_BMP_10Y	0.56	345.24	15.98	13.68	15.86	13.66
RC0170C	C	LB_BMP_10Y	0	0	15.98	13.68	15.86	13.66
RC0170D	C	LB_BMP_10Y	15.8	22.59	15.98	13.68	15.98	13.68
RD0010A	D	LB_BMP_10Y	24.58	0.02	24.2	16.09	24.2	16.09
RD0010B	D	LB_BMP_10Y	24.56	0.02	24.2	16.09	24.2	16.09
RD0020A	D	LB_BMP_10Y	12.05	1.38	24.2	16.09	24.2	16.09
RD0030A	D	LB_BMP_10Y	24.2	0.35	24.2	16.09	14.38	14.89
RD0040A	D	LB_BMP_10Y	0	0	13.03	15.17	14.38	14.89
RD0040B	D	LB_BMP_10Y	13.03	42.01	13.03	15.17	14.25	14.94
RD0050A	D	LB_BMP_10Y	11.87	19.3	14.25	14.94	14.24	14.94
RD0050B	D	LB_BMP_10Y	13.31	1.22	14.25	14.94	14.24	14.94
RD0050C	D	LB_BMP_10Y	12.1	39.3	14.25	14.94	14.33	14.9
RD0051A	D	LB_BMP_10Y	6.93	0.58	14.24	14.94	12.45	15.19
RD0051B	D	LB_BMP_10Y	13.02	50.45	14.24	14.94	14.33	14.9
RD0060A	D	LB_BMP_10Y	0	0	12.45	15.19	14.68	14.57
RD0060B	D	LB_BMP_10Y	12.45	0.83	12.45	15.19	14.13	14.98
RD0060C	D	LB_BMP_10Y	0	0	12.45	15.19	17.55	14.37
RD0060D	D	LB_BMP_10Y	0	0	12.45	15.19	12.26	16.82
RD0060E	D	LB_BMP_10Y	0	0	12.45	15.19	13.28	16.97
RD0070A	D	LB_BMP_10Y	12.19	18.06	14.38	14.88	14.38	14.87
RD0070B	D	LB_BMP_10Y	12.53	26.3	14.38	14.88	14.38	14.87
RD0070C	D	LB_BMP_10Y	0	0	14.38	14.88	14.68	14.57
RD0080A	D	LB_BMP_10Y	11.95	131.92	14.33	14.9	14.33	14.9
RD0080B	D	LB_BMP_10Y	13.45	1.23	14.33	14.9	14.33	14.9
RD0080C	D	LB_BMP_10Y	13.76	7.33	14.33	14.9	14.38	14.88
RD0081A	D	LB_BMP_10Y	13.02	79.92	14.33	14.9	14.38	14.87
RD0090A	D	LB_BMP_10Y	14.65	4.91	14.38	14.89	14.38	14.87
RD0090B	D	LB_BMP_10Y	14.6	89.97	14.38	14.89	14.38	14.87
RD0091A	D	LB_BMP_10Y	14.32	166.82	14.38	14.87	14.75	14.09
RD0100A	D	LB_BMP_10Y	13.46	16.17	13.46	14.94	14.75	14.09
RD0100B	D	LB_BMP_10Y	0	0	13.46	14.94	14.38	14.89
RD0110A	D	LB_BMP_10Y	14.41	12.58	14.56	14.67	14.75	14.09
RD0110B	D	LB_BMP_10Y	0	0	14.56	14.67	14.73	14.1
RD0110C	D	LB_BMP_10Y	0	0	14.56	14.67	14.75	14.09
RD0110D	D	LB_BMP_10Y	0	0	14.56	14.67	13.46	14.94
RD0120A	D	LB_BMP_10Y	12.2	11.99	14.73	14.1	14.75	14.09
RD0120B	D	LB_BMP_10Y	0	0	14.73	14.1	14.75	14.09
RD0120C	D	LB_BMP_10Y	0	0	14.73	14.1	14.38	14.89
RD0130A	D	LB_BMP_10Y	12.58	72.36	12.58	14.82	14.75	14.09
RD0130B	D	LB_BMP_10Y	12.26	14.62	12.58	14.82	12.65	14.86
RD0130D	D	LB_BMP_10Y	12.58	4.65	12.58	14.82	13.46	14.94

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0140A	D	LB_BMP_10Y	12.41	2.03	12.41	15.42	12.65	14.86
RD0150A	D	LB_BMP_10Y	12.16	4.84	12.65	14.86	13.38	14.93
RD0150B	D	LB_BMP_10Y	0	0	12.65	14.86	14.75	14.09
RD0150C	D	LB_BMP_10Y	0	0	12.65	14.86	13.38	14.93
RD0160A	D	LB_BMP_10Y	12.3	5.64	12.3	15.14	13.38	14.93
RD0160B	D	LB_BMP_10Y	12.3	6.04	12.3	15.14	12.65	14.86
RD0160C	D	LB_BMP_10Y	12.3	0.89	12.3	15.14	14.75	14.09
RD0160D	D	LB_BMP_10Y	0	0	12.3	15.14	12.59	14.88
RD0170A	D	LB_BMP_10Y	12.41	7.62	12.59	14.88	15.77	13.69
RD0170B	D	LB_BMP_10Y	0	0	12.59	14.88	14.75	14.09
RD0170C	D	LB_BMP_10Y	0	0	12.59	14.88	13.38	14.93
RD0180A	D	LB_BMP_10Y	13.29	1.72	13.31	14.32	29.83	12.36
RD0180B	D	LB_BMP_10Y	0	0	13.31	14.32	13.38	14.93
RD0180C	D	LB_BMP_10Y	13.31	10.65	13.31	14.32	15.43	13.82
RD0181A	D	LB_BMP_10Y	12.46	8.31	15.77	13.69	15.76	13.65
RD0182A	D	LB_BMP_10Y	12.85	8.57	15.76	13.65	15.74	13.64
RD0182B	D	LB_BMP_10Y	0	0	15.76	13.65	14.81	11.18
RD0190A	D	LB_BMP_10Y	23.19	21.1	14.75	14.09	14.75	14.09
RD0190B	D	LB_BMP_10Y	12.69	67.23	14.75	14.09	14.75	14.09
RD0190C	D	LB_BMP_10Y	0	0	14.75	14.09	13.31	14.32
RD0190D	D	LB_BMP_10Y	13.53	41.41	14.75	14.09	14.85	14.06
RD0200A	D	LB_BMP_10Y	12.34	3.86	14.7	14.09	14.75	14.09
RD0200B	D	LB_BMP_10Y	0	0	14.7	14.09	14.38	14.1
RD0200C	D	LB_BMP_10Y	0	0	14.7	14.09	14.75	14.09
RD0210A	D	LB_BMP_10Y	12.37	6.33	14.38	14.1	14.75	14.09
RD0210B	D	LB_BMP_10Y	12.37	13.07	14.38	14.1	14.75	14.09
RD0210C	D	LB_BMP_10Y	0	0	14.38	14.1	15.44	13.81
RD0210D	D	LB_BMP_10Y	0	0	14.38	14.1	14.68	14.57
RD0210E	D	LB_BMP_10Y	0	0	14.38	14.1	14.75	14.09
RD0220A	D	LB_BMP_10Y	12.83	48.25	15.44	13.81	15.44	13.81
RD0220B	D	LB_BMP_10Y	0	0	15.44	13.81	15.98	13.68
RD0220C	D	LB_BMP_10Y	0	0	15.44	13.81	14.75	14.09
RD0230A	D	LB_BMP_10Y	12.77	101.55	14.75	14.09	14.85	14.06
RD0230B	D	LB_BMP_10Y	13.49	42.9	14.75	14.09	14.85	14.06
RD0231A	D	LB_BMP_10Y	13.4	173.48	14.85	14.06	15.44	13.81
RD0240A	D	LB_BMP_10Y	12.07	5.63	13.38	14.93	13.39	14.93
RD0240B	D	LB_BMP_10Y	0	0	13.38	14.93	13.39	14.93
RD0240C	D	LB_BMP_10Y	13.47	4.63	13.38	14.93	13.38	14.93
RD0240D	D	LB_BMP_10Y	0	0	13.38	14.93	13.38	14.93
RD0250A	D	LB_BMP_10Y	13.46	6.55	13.39	14.93	13.38	14.93
RD0250B	D	LB_BMP_10Y	0	0	13.39	14.93	13.38	14.93
RD0260A	D	LB_BMP_10Y	13.42	5.1	13.38	14.93	13.38	14.92
RD0260B	D	LB_BMP_10Y	13.38	0.01	13.38	14.93	13.38	14.92
RD0270A	D	LB_BMP_10Y	14.54	108.18	15.43	13.82	15.44	13.81
RD0270B	D	LB_BMP_10Y	0	0	15.43	13.82	14.75	14.09
RD0280A	D	LB_BMP_10Y	15.74	0.03	15.44	13.81	15.44	13.81
RD0280B	D	LB_BMP_10Y	12.09	11.21	15.44	13.81	15.44	13.81

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0280C	D	LB_BMP_10Y	0	0	15.44	13.81	15.98	13.68
RD0280D	D	LB_BMP_10Y	0	0	15.44	13.81	15.44	13.81
RD0290A	D	LB_BMP_10Y	14.01	301	15.44	13.81	15.74	13.64
RD0290B	D	LB_BMP_10Y	0	0	15.44	13.81	15.74	13.64
RD0290C	D	LB_BMP_10Y	0	0	15.44	13.81	15.98	13.68
RE0010A	E	LB_BMP_10Y	13.13	0.18	13.13	15.39	12.19	12.17
RE0020A	E	LB_BMP_10Y	12.19	13.55	12.19	12.17	24.61	6.64
RE0020B	E	LB_BMP_10Y	0	0	12.19	12.17	14.34	7.96
RE0030A	E	LB_BMP_10Y	13.09	36.41	13.09	11.19	13.03	9.38
RE0030B	E	LB_BMP_10Y	0	0	13.09	11.19	14.32	7.87
RE0030C	E	LB_BMP_10Y	0	0	13.09	11.19	12.19	12.17
RE0030D	E	LB_BMP_10Y	0	0	13.09	11.19	13.13	15.39
RE0040A	E	LB_BMP_10Y	12.2	9.16	14.31	7.84	14.33	7.84
RE0040B	E	LB_BMP_10Y	12.52	20.94	14.31	7.84	14.32	7.83
RE0041	E	LB_BMP_10Y	15.29	6.23	14.33	7.83	14.32	7.83
RE0041B	E	LB_BMP_10Y	0	0	14.33	7.83	14.32	7.83
RE0050A	E	LB_BMP_10Y	12.97	78.5	13.03	9.38	14.34	7.87
RE0050B	E	LB_BMP_10Y	0	0	13.03	9.38	14.31	7.84
RE0050C	E	LB_BMP_10Y	0	0	13.03	9.38	14.32	7.87
RE0060A	E	LB_BMP_10Y	13.41	11.92	13.42	5.39	13.41	2.49
RE0060B	E	LB_BMP_10Y	0	0	13.42	5.39	13.42	5.39
RE0080A	E	LB_BMP_10Y	12.37	15.48	12.37	7.86	31.13	4.88
RE0080B	E	LB_BMP_10Y	12.37	8.61	12.37	7.86	14.34	6.13
RE0080C	E	LB_BMP_10Y	12.37	0.14	12.37	7.86	12.66	7.26
RE0090A	E	LB_BMP_10Y	12.59	25.26	12.59	5	0	0.7
RE0090B	E	LB_BMP_10Y	12.5	0	12.59	5	13.42	5.39
RE0100A	E	LB_BMP_10Y	12.66	9.46	12.66	7.26	12.66	2.74
RE0100B	E	LB_BMP_10Y	12.66	4.58	12.66	7.26	12.59	5
RE0100C	E	LB_BMP_10Y	0	0	12.66	7.26	14.06	1.84
RF0010A	F	LB_BMP_10Y	12.79	7.34	13.11	10.94	13.17	10.42
RF0010B	F	LB_BMP_10Y	0	0	13.11	10.94	12.75	5.7
RF0011A	F	LB_BMP_10Y	13.15	6.63	13.17	10.42	13.15	9.29
RF0011B	F	LB_BMP_10Y	0	0	13.17	10.42	14.29	7.91
RF0012A	F	LB_BMP_10Y	13.26	6.62	13.31	9.14	35.26	5.89
RF0020A	F	LB_BMP_10Y	0	0	25.83	7.46	14.34	6.13
RF0030A	F	LB_BMP_10Y	13.1	9.98	13.1	6.53	14.38	3.79
RF0040A	F	LB_BMP_10Y	0	0	12.75	5.7	14.38	3.79
RF0040B	F	LB_BMP_10Y	0	0	12.75	5.7	12.26	8.04
RF0040C	F	LB_BMP_10Y	0	0	12.75	5.7	14.38	3.79
RF0040D	F	LB_BMP_10Y	12.75	54.99	12.75	5.7	14.06	1.84
RF0042A	F	LB_BMP_10Y	14.42	563.94	14.38	3.79	14.06	1.84
RF0050A	F	LB_BMP_10Y	12.26	9.18	12.26	8.04	12.26	3.19
RF0050B	F	LB_BMP_10Y	12.26	11.55	12.26	8.04	14.06	1.84
RF0060A	F	LB_BMP_10Y	14.06	678.61	14.06	1.84	0.8	0.7
RF0060B	F	LB_BMP_10Y	0	0	14.06	1.84	13.42	5.39
RF0061	F	LB_BMP_10Y	5.7	13.9	14.33	7.66	14.33	7.66
RF0061B	F	LB_BMP_10Y	14.58	20.34	14.33	7.66	14.33	7.66

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RF0062	F	LB_BMP_10Y	14.33	552.34	14.33	7.66	14.34	6.13
RG0010A	G	LB_BMP_10Y	13.85	9.69	13.87	15.46	13.03	15.26
RG0010B	G	LB_BMP_10Y	0	0	13.87	15.46	13.26	15.28
RG0010C	G	LB_BMP_10Y	0	0	13.87	15.46	13.56	15.83
RG0020A	G	LB_BMP_10Y	12.24	3.9	13.56	15.83	13.34	15.85
RG0020B	G	LB_BMP_10Y	0	0	13.56	15.83	13.34	15.85
RG0030A	G	LB_BMP_10Y	13.47	13.19	13.37	15.87	13.34	15.85
RG0030B	G	LB_BMP_10Y	0	0	13.37	15.87	12.57	10.53
RG0040A	G	LB_BMP_10Y	13.34	27.46	13.34	15.85	13.26	15.28
RG0040B	G	LB_BMP_10Y	0	0	13.34	15.85	18.82	9.54
RG0050A	G	LB_BMP_10Y	14.17	4.68	14.17	16.17	13.14	9.96
RG0050B	G	LB_BMP_10Y	0	0	14.17	16.17	14.34	7.96
RG0050C	G	LB_BMP_10Y	0	0	14.17	16.17	13.13	15.39
RG0060A	G	LB_BMP_10Y	0	0	13.34	15.75	13.34	15.85
RG0060B	G	LB_BMP_10Y	0	0	13.26	15.28	13.34	15.85
RG0060C	G	LB_BMP_10Y	13.26	37.85	13.26	15.28	13.3	9.7
RG0060D	G	LB_BMP_10Y	13.26	14.93	13.26	15.28	13.14	9.96
RG0060E	G	LB_BMP_10Y	0	0	13.26	15.28	12.62	10.07
RG0070A	G	LB_BMP_10Y	12.08	22.42	12.08	13.75	12.57	10.53
RG0080A	G	LB_BMP_10Y	22.73	14.6	18.82	9.54	12.57	10.53
RG0080B	G	LB_BMP_10Y	0	0	18.82	9.54	12.57	10.53
RG0090A	G	LB_BMP_10Y	12.21	8.02	15.81	10.76	15.78	10.75
RG0090B	G	LB_BMP_10Y	0	0	15.81	10.76	26.17	10
RG0090C	G	LB_BMP_10Y	0	0	15.81	10.76	15.78	10.75
RG0090D	G	LB_BMP_10Y	0	0	15.81	10.76	13.3	9.7
RG0100A	G	LB_BMP_10Y	21.7	0.69	15.83	10.76	15.81	10.76
RG0100B	G	LB_BMP_10Y	0	0	15.83	10.76	15.81	10.76
RG0110A	G	LB_BMP_10Y	12.5	20.26	18.82	9.54	18.82	9.54
RG0110B	G	LB_BMP_10Y	0	0	18.82	9.54	15.83	10.76
RG0110C	G	LB_BMP_10Y	0	0	18.82	9.54	12.57	10.53
RG0110D	G	LB_BMP_10Y	0	0	18.82	9.54	15.83	10.76
RG0120A	G	LB_BMP_10Y	0	0	26.17	10	12.62	10.07
RG0121A	G	LB_BMP_10Y	21.77	0.26	15.83	10.76	15.83	10.76
RG0121B	G	LB_BMP_10Y	0	0	15.83	10.76	15.83	10.76
RG0130A	G	LB_BMP_10Y	12.49	56.64	12.57	10.53	12.62	10.07
RG0130B	G	LB_BMP_10Y	0	0	12.57	10.53	12.62	10.07
RG0130C	G	LB_BMP_10Y	0	0	12.57	10.53	26.17	10
RG0140A	G	LB_BMP_10Y	12.53	62.39	12.62	10.07	13.3	9.7
RG0140B	G	LB_BMP_10Y	0	0	12.62	10.07	13.3	9.7
RG0150A	G	LB_BMP_10Y	12.52	109.16	13.3	9.7	14.17	9.67
RG0160A	G	LB_BMP_10Y	13.13	42.84	13.14	9.96	14.1	9.53
RG0170A	G	LB_BMP_10Y	14.1	492.18	14.32	7.87	14.32	7.83
RG0170B	G	LB_BMP_10Y	14.32	17.55	14.32	7.87	14.32	7.83
RG0170C	G	LB_BMP_10Y	0	0	14.32	7.87	14.33	7.76
RG0170D	G	LB_BMP_10Y	13.36	26.42	14.32	7.87	14.33	7.76
RG0171A	G	LB_BMP_10Y	14.25	526.6	14.32	7.83	14.33	7.66
RG0172A	G	LB_BMP_10Y	14.34	557.02	14.34	6.13	14.38	3.79

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RH0010A	H	LB_BMP_10Y	12.66	14.83	12.67	10.42	12.66	8.95
RH0010B	H	LB_BMP_10Y	0	0	12.67	10.42	13.3	9.23
RH0010C	H	LB_BMP_10Y	0	0	12.67	10.42	24.99	13.13
RH0010D	H	LB_BMP_10Y	0	0	12.67	10.42	24.88	13.16
RH0011A	H	LB_BMP_10Y	13.01	12.25	13.3	9.23	14.31	8.71
RH0020A	H	LB_BMP_10Y	0	0	24.99	13.13	24.88	13.16
RH0020B	H	LB_BMP_10Y	0	0	24.99	13.13	14.54	11.92
RH0020C	H	LB_BMP_10Y	0	0	24.99	13.13	14.29	7.91
RH0030A	H	LB_BMP_10Y	0	0	24.88	13.16	14.54	11.92
RH0030B	H	LB_BMP_10Y	0	0	24.88	13.16	14.31	8.71
RH0040A	H	LB_BMP_10Y	14.54	1.87	14.54	11.92	14.32	8.57
RH0040B	H	LB_BMP_10Y	14.54	0.19	14.54	11.92	14.29	7.91
RH0050A	H	LB_BMP_10Y	0	0	14.29	7.91	14.3	7.98
RH0050B	H	LB_BMP_10Y	14.28	1.94	14.29	7.91	14.32	7.83
RH0050C	H	LB_BMP_10Y	12.86	46.39	14.29	7.91	14.32	7.87
RH0050D	H	LB_BMP_10Y	0	0	14.29	7.91	13.1	6.53
RH0051	H	LB_BMP_10Y	14.2	25.96	14.33	7.76	14.33	7.66
RH0051B	H	LB_BMP_10Y	0	0	14.33	7.76	14.33	7.66
RH0060A	H	LB_BMP_10Y	15.66	370.03	14.17	9.67	14.1	9.53
RH0070A	H	LB_BMP_10Y	13.42	423.56	14.1	9.53	14.31	8.71
RH0070B	H	LB_BMP_10Y	0	0	14.1	9.53	14.34	7.96
RH0071A	H	LB_BMP_10Y	13.81	424.33	14.31	8.71	14.32	8.57
RH0080A	H	LB_BMP_10Y	0	0	14.3	7.98	14.34	7.96
RH0080B	H	LB_BMP_10Y	0	0	14.3	7.98	14.34	7.96
RH0080C	C	LB_BMP_10Y	30.99	39.32	14.3	7.98	14.34	7.96
RH0080D	H	LB_BMP_10Y	0	0	14.3	7.98	14.29	7.91
RH0090A	H	LB_BMP_10Y	14.2	438.72	14.32	8.57	14.34	7.96
RH0091A	H	LB_BMP_10Y	14.58	445.17	14.34	7.96	14.32	7.87
RH0165	H	LB_BMP_10Y	12.26	8.87	14.33	7.84	14.33	7.83
RH0165B	H	LB_BMP_10Y	0	0	14.33	7.84	14.32	7.87
RJ0010A	J	LB_BMP_10Y	12.14	2.26	12.14	14.5	13.05	13.26
RJ0010B	J	LB_BMP_10Y	12.14	1.22	12.14	14.5	14.81	11.18
RJ0020A	J	LB_BMP_10Y	13.05	16.19	13.05	13.26	16.13	11.86
RJ0020B	J	LB_BMP_10Y	0	0	13.05	13.26	12.14	14.5
RJ0030A	J	LB_BMP_10Y	4.42	53.64	16.13	11.86	16.13	11.81
RJ0030B	J	LB_BMP_10Y	15.96	215.47	16.13	11.86	16.13	11.81
RJ0030D	J	LB_BMP_10Y	15.66	215.12	16.12	11.87	16.13	11.86
RJ0040A	J	LB_BMP_10Y	1.2	24.53	15.86	13.66	16.05	13.56
RJ0040B	J	LB_BMP_10Y	12.08	9.49	15.86	13.66	15.86	13.66
RJ0040C	J	LB_BMP_10Y	15.77	1	15.86	13.66	16.05	13.56
RJ0050A	J	LB_BMP_10Y	1.2	18.73	16.05	13.56	16.26	12.79
RJ0060A	J	LB_BMP_10Y	3.15	14.21	16.26	12.79	16.09	11.32
RJ0060B	J	LB_BMP_10Y	0	0	16.26	12.79	16.05	13.56
RJ0070A	J	LB_BMP_10Y	21.54	15.44	16.09	11.32	16.08	11.32
RJ0080A	J	LB_BMP_10Y	0.53	321.21	15.86	13.66	15.74	13.64
RJ0090A	J	LB_BMP_10Y	12.7	1.57	15.74	13.64	15.86	13.66
RJ0090B	J	LB_BMP_10Y	12.76	38.02	15.74	13.64	15.74	13.64

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0090C	J	LB_BMP_10Y	15.74	4.51	15.74	13.64	16.08	11.32
RJ0090D	J	LB_BMP_10Y	0	0	15.74	13.64	15.86	13.66
RJ0090E	J	LB_BMP_10Y	0	0	15.74	13.64	16.09	11.32
RJ0090F	J	LB_BMP_10Y	0	0	15.74	13.64	16.26	12.79
RJ0090G	J	LB_BMP_10Y	0	0	15.74	13.64	15.86	13.66
RJ0090H	J	LB_BMP_10Y	0	0	15.74	13.64	16.05	13.56
RJ0100A	J	LB_BMP_10Y	15.6	347.62	15.74	13.64	16.12	11.87
RJ0101C	J	LB_BMP_10Y	1.44	29.07	16.12	11.87	16.13	11.86
RJ0101CH	J	LB_BMP_10Y	12.21	167.82	16.12	11.87	16.13	11.81
RJ0101W	J	LB_BMP_10Y	12.04	21.69	16.12	11.87	16.13	11.81
RJ0101WW	J	LB_BMP_10Y	16.12	0.09	16.12	11.87	16.08	11.32
RJ0110A	J	LB_BMP_10Y	12.73	27.18	12.73	12.46	48	10.71
RJ0120A	J	LB_BMP_10Y	0	0	48	10.71	16.13	11.81
RJ0121A	J	LB_BMP_10Y	7.68	8.44	48	10.71	48	10.71
RJ0121B	J	LB_BMP_10Y	0	0	48	10.71	16.13	11.81
RJ0130A	J	LB_BMP_10Y	16.06	63.99	16.07	12.69	16.08	11.32
RJ0130D	J	LB_BMP_10Y	0	0	16.07	12.69	16.08	11.32
RJ0140A	J	LB_BMP_10Y	16.3	269.29	16.13	11.81	16.08	11.32
RJ0141A	J	LB_BMP_10Y	16.6	351.02	16.08	11.32	15.81	10.82
RJ0150A	J	LB_BMP_10Y	14.96	5.8	14.96	15.33	14.65	14.38
RJ0160A	J	LB_BMP_10Y	13.71	37.69	14.65	14.38	14.65	14.38
RJ0160C	J	LB_BMP_10Y	0	0	14.65	14.38	15.59	13.23
RJ0170A	J	LB_BMP_10Y	13.17	1.2	13.29	14.99	13.3	14.98
RJ0170B	J	LB_BMP_10Y	13.21	17.98	13.29	14.99	13.3	14.98
RJ0170D	J	LB_BMP_10Y	13.29	1.06	13.29	14.99	14.39	14.02
RJ0190A	J	LB_BMP_10Y	13.3	21.72	13.3	14.98	14.39	14.02
RJ0200A	J	LB_BMP_10Y	14.68	30.06	14.65	14.38	14.39	14.02
RJ0200B	J	LB_BMP_10Y	21.37	15.23	14.65	14.38	15.59	13.23
RJ0210B	J	LB_BMP_10Y	0	0	15.59	13.23	16.07	12.69
RJ0210C	J	LB_BMP_10Y	0	0	15.59	13.23	14.44	13.96
RJ0210D	J	LB_BMP_10Y	0	0	15.59	13.23	14.65	14.38
RJ0210E	J	LB_BMP_10Y	0	0	15.59	13.23	14.39	14.02
RJ0210F	J	LB_BMP_10Y	14.01	64.72	15.59	13.23	16.07	12.69
RJ0220A	J	LB_BMP_10Y	14.44	11.79	14.44	13.96	14.19	12.9
RJ0230A	J	LB_BMP_10Y	20.24	2.55	14.39	14.02	14.44	13.96
RJ0230B	J	LB_BMP_10Y	14.28	49.37	14.39	14.02	14.44	13.96
RJ0240A	J	LB_BMP_10Y	12.25	13.98	14.19	12.9	15.81	10.82
RJ0240B	J	LB_BMP_10Y	14.19	16.73	14.19	12.9	15.81	10.82
RJ0240D	J	LB_BMP_10Y	0	0	14.19	12.9	16.07	12.69
RJ0250A	J	LB_BMP_10Y	16.23	185.34	15.81	10.82	15.78	10.75
RJ0250B	J	LB_BMP_10Y	16.24	187.3	15.81	10.82	15.78	10.75
RJ0260A	J	LB_BMP_10Y	12.82	7.05	15.79	10.82	15.81	10.82
RJ0260C	J	LB_BMP_10Y	0	0	15.79	10.82	15.81	10.82
RJ0261A	J	LB_BMP_10Y	16.29	374.15	15.78	10.75	14.17	9.67
RK0010A	K	LB_BMP_10Y	15.66	3.44	15.64	16.13	13.24	15.95
RK0010B	K	LB_BMP_10Y	15.64	0.12	15.64	16.13	13.31	15.56
RK0010C	K	LB_BMP_10Y	0	0	15.64	16.13	12.23	16.18

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RK0020A	K	LB_BMP_10Y	12.23	1.89	12.23	16.18	13.31	15.56
RK0020B	K	LB_BMP_10Y	12.23	7.29	12.23	16.18	13.39	14.93
RK0030A	K	LB_BMP_10Y	13.24	11.32	13.24	15.95	13.42	15.44
RK0030B	K	LB_BMP_10Y	13.24	8.41	13.24	15.95	14.88	15.2
RK0040A	K	LB_BMP_10Y	0	0	13.31	15.56	14.9	15.19
RK0040B	K	LB_BMP_10Y	13.31	7.42	13.31	15.56	14.88	15.2
RK0040C	K	LB_BMP_10Y	0	0	13.31	15.56	13.24	15.95
RK0050A	K	LB_BMP_10Y	13.23	12.09	13.28	15.58	13.42	15.44
RK0060A	K	LB_BMP_10Y	13.05	10.78	13.05	16.34	13.42	15.44
RK0070A	K	LB_BMP_10Y	13.42	52.56	13.42	15.44	14.87	15.19
RK0070B	K	LB_BMP_10Y	0	0	13.42	15.44	12.73	12.46
RK0080A	K	LB_BMP_10Y	0	0	14.9	15.19	13.38	14.92
RK0080B	K	LB_BMP_10Y	12.96	1.21	14.9	15.19	14.88	15.2
RK0080C	K	LB_BMP_10Y	0	0	14.9	15.19	14.88	15.18
RK0090A	K	LB_BMP_10Y	28.75	1.55	13.38	14.92	15.76	13.65
RK0090B	K	LB_BMP_10Y	0	0	13.38	14.92	13.39	14.93
RK0091A	K	LB_BMP_10Y	21.58	1.82	15.76	13.65	15.76	13.65
RK0100A	K	LB_BMP_10Y	14.79	0.3	14.81	14.8	13.78	10.47
RK0100B	K	LB_BMP_10Y	14.81	44.9	14.81	14.8	14.81	11.18
RK0100C	K	LB_BMP_10Y	0	0	14.81	14.8	14.87	15.19
RK0100D	K	LB_BMP_10Y	0	0	14.81	14.8	15.12	15.03
RK0100E	K	LB_BMP_10Y	0	0	14.81	14.8	13.38	14.92
RK0100F	K	LB_BMP_10Y	0	0	14.81	14.8	14.88	15.18
RK0110A	K	LB_BMP_10Y	13.69	5.83	14.88	15.18	15.12	15.03
RK0110B	K	LB_BMP_10Y	14.88	1.11	14.88	15.18	15.12	15.03
RK0110C	K	LB_BMP_10Y	0	0	15.12	15.03	13.38	14.92
RK0130A	K	LB_BMP_10Y	14.85	0.43	14.88	15.18	13.9	14.72
RK0130B	K	LB_BMP_10Y	32.1	4.66	14.88	15.18	14.87	15.19
RK0130C	K	LB_BMP_10Y	14.7	27.49	14.88	15.18	14.88	15.18
RK0130D	K	LB_BMP_10Y	14.88	0.43	14.88	15.18	14.81	14.8
RK0130E	K	LB_BMP_10Y	0	0	14.88	15.18	14.9	15.19
RK0130F	K	LB_BMP_10Y	0	0	14.88	15.18	14.88	15.2
RK0140A	K	LB_BMP_10Y	12.01	7.33	14.88	15.2	14.87	15.19
RK0140B	K	LB_BMP_10Y	13.49	13.99	14.88	15.2	14.87	15.19
RK0150A	K	LB_BMP_10Y	12.86	0.47	14.87	15.19	14.88	15.18
RK0150B	K	LB_BMP_10Y	14.87	12.66	14.87	15.19	48	10.42
RK0150C	K	LB_BMP_10Y	0	0	14.87	15.19	48	10.42
RK0160A	K	LB_BMP_10Y	14.81	46.23	14.81	11.18	48	10.42
RK0160B	K	LB_BMP_10Y	0	0	14.81	11.18	48	10.42
RK0160C	K	LB_BMP_10Y	0	0	14.81	11.18	13.05	13.26
RK0160D	K	LB_BMP_10Y	0	0	14.81	11.18	15.74	13.64
RK0161A	K	LB_BMP_10Y	14.63	0.05	48	10.42	48	10.71
RA0010A	A	LB_BMP_5Y	0	0	27.75	16.96	26.34	13.44
RA0020A	A	LB_BMP_5Y	0	0	26.34	13.44	19.48	13.77
RA0020B	A	LB_BMP_5Y	36.81	1.83	26.34	13.44	19.48	13.77
RA0030A	A	LB_BMP_5Y	19.87	4.26	15.23	14.72	14.39	14.4



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RA0030C	A	LB_BMP_5Y	0	0	15.23	14.72	14.36	16.92
RA0040A	A	LB_BMP_5Y	0	0	12.46	16.75	14.36	16.92
RA0040B	A	LB_BMP_5Y	0	0	12.46	16.75	26.34	13.44
RA0040C	A	LB_BMP_5Y	12.46	14.72	12.46	16.75	19.48	13.77
RA0040D	A	LB_BMP_5Y	0	0	12.46	16.75	15.23	14.72
RA0060A	A	LB_BMP_5Y	12.45	3.28	12.45	17.43	13.68	16.83
RA0070A	A	LB_BMP_5Y	12.35	1.92	13.68	16.83	13.73	16.94
RA0070B	A	LB_BMP_5Y	13.68	20.37	13.68	16.83	12.09	15.09
RA0080A	A	LB_BMP_5Y	13.73	18	13.73	16.94	14.39	14.4
RA0081A	A	LB_BMP_5Y	13.75	19.78	14.39	14.4	14.54	14.34
RA0081B	A	LB_BMP_5Y	0	0	14.39	14.4	14.36	16.92
RA0081C	A	LB_BMP_5Y	0	0	14.39	14.4	14.54	14.34
RA0081D	A	LB_BMP_5Y	0	0	14.39	14.4	15.23	14.72
RA0081E	A	LB_BMP_5Y	0	0	14.39	14.4	12.11	14.58
RA0081F	A	LB_BMP_5Y	0	0	14.39	14.4	12.09	15.09
RA0082A	A	LB_BMP_5Y	13.83	18.7	14.54	14.34	14.6	14.31
RB0010A	B	LB_BMP_5Y	15.18	0.32	14.91	17.05	14.89	17.05
RB0010B	B	LB_BMP_5Y	0	0	14.91	17.05	14.89	17.05
RB0020A	B	LB_BMP_5Y	14.85	0.24	14.89	17.05	14.89	17.05
RB0030A	B	LB_BMP_5Y	12.33	8.36	12.33	15.56	12.51	13.61
RB0030B	B	LB_BMP_5Y	0	0	12.33	15.56	17.22	16.87
RB0030C	B	LB_BMP_5Y	12.33	10.34	12.33	15.56	12.44	14.84
RB0040A	B	LB_BMP_5Y	12.61	6.79	12.61	17.91	12.44	14.84
RB0040B	B	LB_BMP_5Y	0	0	12.61	17.91	12.18	17.34
RB0040C	B	LB_BMP_5Y	0	0	12.61	17.91	24.25	17.7
RB0050A	B	LB_BMP_5Y	12.44	3.07	12.44	14.84	12.44	11.62
RB0050B	B	LB_BMP_5Y	0	0	12.44	14.84	24.25	17.7
RB0050C	B	LB_BMP_5Y	11.97	23.24	12.44	14.84	12.44	14.82
RB0050D	B	LB_BMP_5Y	12.44	18.38	12.44	14.84	12.45	14.11
RB0050E	B	LB_BMP_5Y	12.44	0	12.44	14.84	12.51	13.61
RB0051A	B	LB_BMP_5Y	12.19	22.57	12.44	14.82	12.51	13.61
RB0055A	B	LB_BMP_5Y	12.13	9.64	12.45	14.11	12.51	13.61
RB0055B	B	LB_BMP_5Y	12.45	17.81	12.45	14.11	12.51	13.61
RB0060A	B	LB_BMP_5Y	24.25	0.2	24.25	17.7	17.22	16.87
RB0070A	B	LB_BMP_5Y	12.18	7.21	12.18	17.34	17.22	16.87
RB0080A	B	LB_BMP_5Y	17.22	10.29	17.22	16.87	19.8	15.7
RB0090A	B	LB_BMP_5Y	12.51	71.18	12.51	13.61	29.16	8.35
RB0090B	B	LB_BMP_5Y	0	0	12.51	13.61	12.67	9.72
RC0010A	C	LB_BMP_5Y	12.17	0.16	14.89	17.05	14.89	17.05
RC0010B	C	LB_BMP_5Y	14.89	2.56	14.89	17.05	15.1	14.2
RC0010C	C	LB_BMP_5Y	14.89	0.06	14.89	17.05	17.22	16.87
RC0020A	C	LB_BMP_5Y	12.28	9.52	15.1	14.2	15.11	14.2
RC0021A	C	LB_BMP_5Y	12.31	15.51	15.11	14.2	15.11	14.2
RC0021B	C	LB_BMP_5Y	13.04	17.12	15.11	14.2	15.12	14.19
RC0022A	C	LB_BMP_5Y	13.1	14.99	15.12	14.19	15.22	14.15
RC0022B	C	LB_BMP_5Y	15.1	0.19	15.12	14.19	15.22	14.15
RC0030A	C	LB_BMP_5Y	12.51	12.78	12.51	15.32	12.54	14.4

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0031A	C	LB_BMP_5Y	12.53	5.76	12.54	14.4	15.11	14.2
RC0031B	C	LB_BMP_5Y	12.54	6.99	12.54	14.4	15.11	14.2
RC0040A	C	LB_BMP_5Y	19.8	8.13	19.8	15.7	23.58	13.54
RC0050A	C	LB_BMP_5Y	23.62	6.1	23.58	13.54	15.51	13.02
RC0050B	C	LB_BMP_5Y	23.58	0.08	23.58	13.54	15.51	13.02
RC0050C	C	LB_BMP_5Y	0	0	23.58	13.54	15.22	14.15
RC0051A	C	LB_BMP_5Y	16.67	7.68	15.51	13.02	15.5	12.98
RC0051B	C	LB_BMP_5Y	12.09	0.78	15.51	13.02	15.44	13.31
RC0051C	C	LB_BMP_5Y	0	0	15.51	13.02	15.5	12.98
RC0060A	C	LB_BMP_5Y	12.11	6.3	12.11	16.68	19.48	13.77
RC0070A	C	LB_BMP_5Y	32.63	3.08	19.48	13.77	15.11	14.2
RC0070B	C	LB_BMP_5Y	0	0	19.48	13.77	15.11	14.2
RC0080A	C	LB_BMP_5Y	12.95	6.72	15.11	14.2	15.22	14.15
RC0100A	C	LB_BMP_5Y	15.36	42.38	15.45	13.27	15.49	13.07
RC0100B	C	LB_BMP_5Y	0	0	15.44	13.31	15.45	13.27
RC0101A	C	LB_BMP_5Y	15.32	42.4	15.44	13.31	15.45	13.27
RC0101B	C	LB_BMP_5Y	15.24	44.44	15.34	13.79	15.44	13.31
RC0101C	C	LB_BMP_5Y	0	0	15.44	13.31	15.14	13.06
RC0102A	C	LB_BMP_5Y	13.19	22.5	15.33	13.81	15.34	13.79
RC0102B	C	LB_BMP_5Y	15.2	37.61	15.33	13.81	15.34	13.79
RC0103A	C	LB_BMP_5Y	15.07	44.58	15.23	14.14	15.33	13.81
RC0104A	C	LB_BMP_5Y	12.78	17.89	15.22	14.15	15.23	14.14
RC0104B	C	LB_BMP_5Y	15.01	40.02	15.22	14.15	15.23	14.14
RC0105A	C	LB_BMP_5Y	15.48	42.89	15.49	13.07	15.5	12.97
RC0105B	C	LB_BMP_5Y	0	0	15.49	13.07	15.5	12.97
RC0105C	C	LB_BMP_5Y	0	0	15.49	13.07	15.14	13.06
RC0106	C	LB_BMP_5Y	0.21	1681.91	15.5	12.97	15.49	12.97
RC0110A	C	LB_BMP_5Y	0	0	12.35	15.11	15.5	12.97
RC0110B	C	LB_BMP_5Y	12.35	1.18	12.35	15.11	15.5	12.98
RC0115A	C	LB_BMP_5Y	12.08	22.17	15.5	12.98	15.49	12.97
RC0120A	C	LB_BMP_5Y	12.04	12.64	15.5	12.97	15.49	12.97
RC0120B	C	LB_BMP_5Y	0	0	15.5	12.97	15.49	12.97
RC0130	C	LB_BMP_5Y	0	0	26.92	12.3	15.49	12.97
RC0140A	C	LB_BMP_5Y	12.53	9.09	15.56	12.97	15.49	12.97
RC0140B	C	LB_BMP_5Y	0	0	15.56	12.97	15.49	12.97
RC0140C	C	LB_BMP_5Y	2.92	4.58	15.56	12.97	15.56	12.97
RC0150A	C	LB_BMP_5Y	12.52	1.88	15.56	12.97	15.49	12.97
RC0160	C	LB_BMP_5Y	0.12	1773.55	15.49	12.97	15.49	12.97
RC0160A	C	LB_BMP_5Y	0	17898.2	15.5	12.97	15.5	12.97
RC0160B	C	LB_BMP_5Y	0	39274.6	15.5	12.97	15.5	12.97
RC0161	C	LB_BMP_5Y	0.13	1550.87	15.49	12.97	15.49	12.97
RC0170A	C	LB_BMP_5Y	0.56	345.24	15.49	12.97	15.43	12.96
RC0170C	C	LB_BMP_5Y	0	0	15.49	12.97	15.43	12.96
RC0170D	C	LB_BMP_5Y	0	0	15.49	12.97	15.56	12.97
RD0010A	D	LB_BMP_5Y	9.13	0.01	25.43	15.66	25.33	15.66
RD0010B	D	LB_BMP_5Y	0	0	25.43	15.66	25.33	15.66
RD0020A	D	LB_BMP_5Y	12.08	1.05	25.33	15.66	25.33	15.66

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0030A	D	LB_BMP_5Y	0	0	25.33	15.66	14.69	14.25
RD0040A	D	LB_BMP_5Y	0	0	12.09	15.09	14.69	14.25
RD0040B	D	LB_BMP_5Y	12.09	22.93	12.09	15.09	12.11	14.58
RD0050A	D	LB_BMP_5Y	11.96	20.58	12.11	14.58	14.6	14.31
RD0050B	D	LB_BMP_5Y	12.11	0.14	12.11	14.58	14.6	14.31
RD0050C	D	LB_BMP_5Y	12.11	25.16	12.11	14.58	14.66	14.25
RD0051A	D	LB_BMP_5Y	7.07	1.04	14.6	14.31	12.38	14.56
RD0051B	D	LB_BMP_5Y	12.44	29.12	14.6	14.31	14.66	14.25
RD0060A	D	LB_BMP_5Y	0	0	12.38	14.56	15.22	14.15
RD0060B	D	LB_BMP_5Y	0	0	12.38	14.56	14.54	14.34
RD0060C	D	LB_BMP_5Y	0	0	12.38	14.56	19.48	13.77
RD0060D	D	LB_BMP_5Y	0	0	12.38	14.56	12.46	16.75
RD0060E	D	LB_BMP_5Y	0	0	12.38	14.56	14.36	16.92
RD0070A	D	LB_BMP_5Y	12.4	17.42	14.68	14.24	14.69	14.23
RD0070B	D	LB_BMP_5Y	12.9	15.55	14.68	14.24	14.69	14.23
RD0070C	D	LB_BMP_5Y	0	0	14.68	14.24	15.22	14.15
RD0080A	D	LB_BMP_5Y	12.18	138.17	14.66	14.25	14.66	14.25
RD0080B	D	LB_BMP_5Y	14.53	0.13	14.66	14.25	14.66	14.25
RD0080C	D	LB_BMP_5Y	14.62	0.33	14.66	14.25	14.68	14.24
RD0081A	D	LB_BMP_5Y	12.18	47.16	14.66	14.25	14.69	14.23
RD0090A	D	LB_BMP_5Y	14.86	4.34	14.69	14.25	14.69	14.23
RD0090B	D	LB_BMP_5Y	14.8	62.1	14.69	14.25	14.69	14.23
RD0091A	D	LB_BMP_5Y	14.66	113.76	14.69	14.23	14.75	13.73
RD0100A	D	LB_BMP_5Y	14.17	8.96	14.17	14.89	14.74	13.73
RD0100B	D	LB_BMP_5Y	0	0	14.17	14.89	14.69	14.25
RD0110A	D	LB_BMP_5Y	12.74	12.96	14.07	14.17	14.75	13.73
RD0110B	D	LB_BMP_5Y	0	0	14.07	14.17	14.77	13.73
RD0110C	D	LB_BMP_5Y	0	0	14.07	14.17	14.74	13.73
RD0110D	D	LB_BMP_5Y	0	0	14.07	14.17	14.17	14.89
RD0120A	D	LB_BMP_5Y	12.17	9.97	14.77	13.73	14.75	13.73
RD0120B	D	LB_BMP_5Y	0	0	14.77	13.73	14.75	13.73
RD0120C	D	LB_BMP_5Y	0	0	14.77	13.73	14.69	14.25
RD0130A	D	LB_BMP_5Y	12.41	48.81	12.41	14.74	14.74	13.73
RD0130B	D	LB_BMP_5Y	12.41	8.26	12.41	14.74	12.88	14.78
RD0130D	D	LB_BMP_5Y	12.41	0.73	12.41	14.74	14.17	14.89
RD0140A	D	LB_BMP_5Y	12.51	1.45	12.51	15.4	12.88	14.78
RD0150A	D	LB_BMP_5Y	12.39	5.22	12.88	14.78	14.22	14.78
RD0150B	D	LB_BMP_5Y	0	0	12.88	14.78	14.74	13.73
RD0150C	D	LB_BMP_5Y	0	0	12.88	14.78	14.22	14.78
RD0160A	D	LB_BMP_5Y	12.34	4.8	12.34	15.11	14.22	14.78
RD0160B	D	LB_BMP_5Y	12.34	3.93	12.34	15.11	12.88	14.78
RD0160C	D	LB_BMP_5Y	12.34	0.38	12.34	15.11	14.74	13.73
RD0160D	D	LB_BMP_5Y	0	0	12.34	15.11	12.52	14.31
RD0170A	D	LB_BMP_5Y	12.41	6.75	12.52	14.31	12.73	13.11
RD0170B	D	LB_BMP_5Y	0	0	12.52	14.31	14.74	13.73
RD0170C	D	LB_BMP_5Y	0	0	12.52	14.31	14.22	14.78
RD0180A	D	LB_BMP_5Y	14.06	1.36	14.1	14.23	29.48	12.34

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0180B	D	LB_BMP_5Y	0	0	14.1	14.23	14.22	14.78
RD0180C	D	LB_BMP_5Y	14.1	2.62	14.1	14.23	15.14	13.06
RD0181A	D	LB_BMP_5Y	12.61	7.72	12.73	13.11	15.35	12.96
RD0182A	D	LB_BMP_5Y	12.73	8.59	15.35	12.96	15.33	12.95
RD0182B	D	LB_BMP_5Y	0	0	15.35	12.96	12.09	10.09
RD0190A	D	LB_BMP_5Y	20.61	21.47	14.74	13.73	14.75	13.73
RD0190B	D	LB_BMP_5Y	13.12	46.29	14.74	13.73	14.75	13.73
RD0190C	D	LB_BMP_5Y	0	0	14.74	13.73	14.1	14.23
RD0190D	D	LB_BMP_5Y	14.66	27.72	14.74	13.73	14.77	13.67
RD0200A	D	LB_BMP_5Y	12.34	2.93	14.73	13.73	14.75	13.73
RD0200B	D	LB_BMP_5Y	0	0	14.73	13.73	14.72	13.73
RD0200C	D	LB_BMP_5Y	0	0	14.73	13.73	14.75	13.73
RD0210A	D	LB_BMP_5Y	12.35	4.95	14.72	13.73	14.75	13.73
RD0210B	D	LB_BMP_5Y	12.35	10.23	14.72	13.73	14.75	13.73
RD0210C	D	LB_BMP_5Y	0	0	14.72	13.73	15.14	13.06
RD0210D	D	LB_BMP_5Y	0	0	14.72	13.73	15.22	14.15
RD0210E	D	LB_BMP_5Y	0	0	14.72	13.73	14.75	13.73
RD0220A	D	LB_BMP_5Y	12.6	37.32	15.14	13.06	15.15	13.06
RD0220B	D	LB_BMP_5Y	0	0	15.14	13.06	15.5	12.97
RD0220C	D	LB_BMP_5Y	0	0	15.14	13.06	14.75	13.73
RD0230A	D	LB_BMP_5Y	17.74	112.96	14.75	13.73	14.77	13.67
RD0230B	D	LB_BMP_5Y	14.56	36.87	14.75	13.73	14.77	13.67
RD0231A	D	LB_BMP_5Y	14.43	170.53	14.77	13.67	15.15	13.06
RD0240A	D	LB_BMP_5Y	12.29	6.5	14.22	14.78	14.22	14.78
RD0240B	D	LB_BMP_5Y	0	0	14.22	14.78	14.22	14.78
RD0240C	D	LB_BMP_5Y	14.48	1.67	14.22	14.78	14.22	14.78
RD0240D	D	LB_BMP_5Y	0	0	14.22	14.78	14.22	14.78
RD0250A	D	LB_BMP_5Y	14.4	2.39	14.22	14.78	14.22	14.78
RD0250B	D	LB_BMP_5Y	0	0	14.22	14.78	14.22	14.78
RD0260A	D	LB_BMP_5Y	14.28	1.96	14.22	14.78	14.22	14.78
RD0260B	D	LB_BMP_5Y	0	0	14.22	14.78	14.22	14.78
RD0270A	D	LB_BMP_5Y	12.08	27.68	15.14	13.06	15.15	13.06
RD0270B	D	LB_BMP_5Y	0	0	15.14	13.06	14.74	13.73
RD0280A	D	LB_BMP_5Y	0	0	12.1	13.39	15.15	13.06
RD0280B	D	LB_BMP_5Y	12.1	7.9	12.1	13.39	15.15	13.06
RD0280C	D	LB_BMP_5Y	0	0	12.1	13.39	15.56	12.97
RD0280D	D	LB_BMP_5Y	0	0	12.1	13.39	15.14	13.06
RD0290A	D	LB_BMP_5Y	14.54	218.49	15.15	13.06	15.33	12.95
RD0290B	D	LB_BMP_5Y	0	0	15.15	13.06	15.33	12.95
RD0290C	D	LB_BMP_5Y	0	0	15.15	13.06	15.56	12.97
RE0010A	E	LB_BMP_5Y	13.65	0.04	13.65	15.34	12.19	11.84
RE0020A	E	LB_BMP_5Y	12.19	10.43	12.19	11.84	24.56	6.49
RE0020B	E	LB_BMP_5Y	0	0	12.19	11.84	14.21	7.36
RE0030A	E	LB_BMP_5Y	13.47	22.45	13.47	10.93	13.6	8.75
RE0030B	E	LB_BMP_5Y	0	0	13.47	10.93	14.2	7.27
RE0030C	E	LB_BMP_5Y	0	0	13.47	10.93	12.19	11.84
RE0030D	E	LB_BMP_5Y	0	0	13.47	10.93	13.65	15.34

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RE0040A	E	LB_BMP_5Y	12.3	9.35	12.54	7.32	14.21	7.25
RE0040B	E	LB_BMP_5Y	12.54	13.27	12.54	7.32	14.21	7.24
RE0041	E	LB_BMP_5Y	15.35	6.04	14.21	7.25	14.21	7.24
RE0041B	E	LB_BMP_5Y	0	0	14.21	7.25	14.21	7.24
RE0050A	E	LB_BMP_5Y	13.56	25.47	13.6	8.75	14.2	7.27
RE0050B	E	LB_BMP_5Y	0	0	13.6	8.75	12.54	7.32
RE0050C	E	LB_BMP_5Y	0	0	13.6	8.75	14.2	7.27
RE0060A	E	LB_BMP_5Y	13.76	10.62	13.78	5.14	13.76	2.43
RE0060B	E	LB_BMP_5Y	0	0	13.78	5.14	13.76	5.15
RE0080A	E	LB_BMP_5Y	12.41	14	12.42	7.7	48	4.82
RE0080B	E	LB_BMP_5Y	12.42	3.81	12.42	7.7	14.22	5.68
RE0080C	E	LB_BMP_5Y	0	0	12.42	7.7	12.83	7.06
RE0090A	E	LB_BMP_5Y	12.71	14.69	12.71	4.91	0	0.7
RE0090B	E	LB_BMP_5Y	0	0	12.71	4.91	13.76	5.15
RE0100A	E	LB_BMP_5Y	12.83	8.91	12.83	7.06	12.83	2.66
RE0100B	E	LB_BMP_5Y	12.83	0.46	12.83	7.06	12.71	4.91
RE0100C	E	LB_BMP_5Y	0	0	12.83	7.06	14.01	1.67
RF0010A	F	LB_BMP_5Y	13.05	5.05	13.06	10.5	13.05	9.87
RF0010B	F	LB_BMP_5Y	0	0	13.06	10.5	12.99	5.54
RF0011A	F	LB_BMP_5Y	13.35	4.84	13.36	10.12	13.35	9.13
RF0011B	F	LB_BMP_5Y	0	0	13.36	10.12	14.08	7.36
RF0012A	F	LB_BMP_5Y	13.47	4.79	13.49	9.02	34.95	5.89
RF0020A	F	LB_BMP_5Y	0	0	25.83	6.73	14.22	5.68
RF0030A	F	LB_BMP_5Y	13.61	6.24	13.61	6.38	14.29	3.47
RF0040A	F	LB_BMP_5Y	0	0	12.99	5.54	14.29	3.47
RF0040B	F	LB_BMP_5Y	0	0	12.99	5.54	12.34	7.87
RF0040C	F	LB_BMP_5Y	0	0	12.99	5.54	14.29	3.47
RF0040D	F	LB_BMP_5Y	12.99	27.95	12.99	5.54	14.01	1.67
RF0042A	F	LB_BMP_5Y	14.32	447.11	14.29	3.47	14.01	1.67
RF0050A	F	LB_BMP_5Y	12.34	8.7	12.34	7.87	12.34	3.16
RF0050B	F	LB_BMP_5Y	12.34	7.43	12.34	7.87	14.01	1.67
RF0060A	F	LB_BMP_5Y	14.01	534.83	14.01	1.67	0.8	0.7
RF0060B	F	LB_BMP_5Y	0	0	14.01	1.67	13.76	5.15
RF0061	F	LB_BMP_5Y	5.71	13.9	14.22	7.1	14.22	7.09
RF0061B	F	LB_BMP_5Y	14.38	16.75	14.22	7.1	14.22	7.09
RF0062	F	LB_BMP_5Y	14.21	438.09	14.22	7.09	14.22	5.68
RG0010A	G	LB_BMP_5Y	12.62	5.89	14.37	15.16	14.27	15.13
RG0010B	G	LB_BMP_5Y	0	0	14.37	15.16	14.27	15.13
RG0010C	G	LB_BMP_5Y	0	0	14.37	15.16	14.63	15.76
RG0020A	G	LB_BMP_5Y	9.01	0.72	14.63	15.76	14.26	15.77
RG0020B	G	LB_BMP_5Y	0	0	14.63	15.76	14.26	15.77
RG0030A	G	LB_BMP_5Y	12.18	7.12	14.27	15.78	14.26	15.77
RG0030B	G	LB_BMP_5Y	0	0	14.27	15.78	12.67	9.72
RG0040A	G	LB_BMP_5Y	14.26	12.26	14.26	15.77	14.27	15.13
RG0040B	G	LB_BMP_5Y	0	0	14.26	15.77	20.48	8.86
RG0050A	G	LB_BMP_5Y	15.49	1.87	15.49	16.11	13.03	9.89
RG0050B	G	LB_BMP_5Y	0	0	15.49	16.11	14.21	7.36

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RG0050C	G	LB_BMP_5Y	0	0	15.49	16.11	13.65	15.34
RG0060A	G	LB_BMP_5Y	0	0	14.26	15.7	14.26	15.77
RG0060B	G	LB_BMP_5Y	0	0	14.27	15.13	14.26	15.77
RG0060C	G	LB_BMP_5Y	14.27	16.03	14.27	15.13	13.09	9.28
RG0060D	G	LB_BMP_5Y	14.27	8.79	14.27	15.13	13.03	9.89
RG0060E	G	LB_BMP_5Y	0	0	14.27	15.13	12.76	9.49
RG0070A	G	LB_BMP_5Y	12.09	16.99	12.09	13.71	12.67	9.72
RG0080A	G	LB_BMP_5Y	25.89	6.88	20.48	8.86	12.67	9.72
RG0080B	G	LB_BMP_5Y	0	0	20.48	8.86	12.67	9.72
RG0090A	G	LB_BMP_5Y	12.18	5.89	15.3	10.14	15.28	10.14
RG0090B	G	LB_BMP_5Y	0	0	15.3	10.14	26.17	9.14
RG0090C	G	LB_BMP_5Y	0	0	15.3	10.14	15.28	10.14
RG0090D	G	LB_BMP_5Y	0	0	15.3	10.14	13.09	9.28
RG0100A	G	LB_BMP_5Y	18.24	0.47	15.31	10.14	15.3	10.14
RG0100B	G	LB_BMP_5Y	0	0	15.31	10.14	15.3	10.14
RG0110A	G	LB_BMP_5Y	12.58	14.99	20.47	8.86	20.48	8.86
RG0110B	G	LB_BMP_5Y	0	0	20.47	8.86	15.31	10.14
RG0110C	G	LB_BMP_5Y	0	0	20.47	8.86	12.67	9.72
RG0110D	G	LB_BMP_5Y	0	0	20.47	8.86	15.31	10.14
RG0120A	G	LB_BMP_5Y	0	0	26.17	9.14	12.76	9.49
RG0121A	G	LB_BMP_5Y	18.26	0.17	15.31	10.14	15.31	10.14
RG0121B	G	LB_BMP_5Y	0	0	15.31	10.14	15.31	10.14
RG0130A	G	LB_BMP_5Y	12.53	42.29	12.67	9.72	12.76	9.49
RG0130B	G	LB_BMP_5Y	0	0	12.67	9.72	12.76	9.49
RG0130C	G	LB_BMP_5Y	0	0	12.67	9.72	26.17	9.14
RG0140A	G	LB_BMP_5Y	12.53	46.58	12.76	9.49	13.09	9.28
RG0140B	G	LB_BMP_5Y	0	0	12.76	9.49	13.09	9.28
RG0150A	G	LB_BMP_5Y	12.25	73.26	13.09	9.28	13.4	9.25
RG0160A	G	LB_BMP_5Y	13.03	28.94	13.03	9.89	13.44	9.11
RG0170A	G	LB_BMP_5Y	14.09	402.54	14.2	7.27	14.21	7.24
RG0170B	G	LB_BMP_5Y	0	0	14.2	7.27	14.21	7.24
RG0170C	G	LB_BMP_5Y	0	0	14.2	7.27	14.22	7.18
RG0170D	G	LB_BMP_5Y	13.64	24.28	14.2	7.27	14.22	7.18
RG0171A	G	LB_BMP_5Y	14.12	414.22	14.21	7.24	14.22	7.09
RG0172A	G	LB_BMP_5Y	14.23	442.18	14.22	5.68	14.29	3.47
RH0010A	H	LB_BMP_5Y	12.69	10.6	12.7	10.15	12.69	8.7
RH0010B	H	LB_BMP_5Y	0	0	12.7	10.15	13.31	8.92
RH0010C	H	LB_BMP_5Y	0	0	12.7	10.15	26.17	12.81
RH0010D	H	LB_BMP_5Y	0	0	12.7	10.15	26.42	12.48
RH0011A	H	LB_BMP_5Y	13.14	8.64	13.31	8.92	14.12	8.17
RH0020A	H	LB_BMP_5Y	0	0	26.17	12.81	26.42	12.48
RH0020B	H	LB_BMP_5Y	0	0	26.17	12.81	22.65	11.82
RH0020C	H	LB_BMP_5Y	0	0	26.17	12.81	14.08	7.36
RH0030A	H	LB_BMP_5Y	0	0	26.42	12.48	22.65	11.82
RH0030B	H	LB_BMP_5Y	0	0	26.42	12.48	14.12	8.17
RH0040A	H	LB_BMP_5Y	22.65	0.57	22.65	11.82	14.15	8.03
RH0040B	H	LB_BMP_5Y	0	0	22.65	11.82	14.08	7.36

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RH0050A	H	LB_BMP_5Y	0	0	14.08	7.36	14.19	7.37
RH0050B	H	LB_BMP_5Y	0	0	14.08	7.36	14.21	7.24
RH0050C	H	LB_BMP_5Y	12.99	34.86	14.08	7.36	14.2	7.27
RH0050D	H	LB_BMP_5Y	0	0	14.08	7.36	13.61	6.38
RH0051	H	LB_BMP_5Y	14.12	24.11	14.22	7.18	14.22	7.1
RH0051B	H	LB_BMP_5Y	0	0	14.22	7.18	14.22	7.1
RH0060A	H	LB_BMP_5Y	13.03	297.04	13.4	9.25	13.44	9.11
RH0070A	H	LB_BMP_5Y	13.2	343.85	13.44	9.11	14.12	8.17
RH0070B	H	LB_BMP_5Y	0	0	13.44	9.11	14.21	7.36
RH0071A	H	LB_BMP_5Y	13.5	341.9	14.12	8.17	14.15	8.03
RH0080A	H	LB_BMP_5Y	0	0	14.19	7.37	14.21	7.36
RH0080B	H	LB_BMP_5Y	0	0	14.19	7.37	14.21	7.36
RH0080C	C	LB_BMP_5Y	31.71	39.32	14.19	7.37	14.21	7.36
RH0080D	H	LB_BMP_5Y	0	0	14.19	7.37	14.08	7.36
RH0090A	H	LB_BMP_5Y	13.63	351.45	14.15	8.03	14.21	7.36
RH0091A	H	LB_BMP_5Y	14.51	353.44	14.21	7.36	14.2	7.27
RH0165	H	LB_BMP_5Y	12.34	8.86	14.21	7.25	14.21	7.25
RH0165B	H	LB_BMP_5Y	0	0	14.21	7.25	14.2	7.27
RJ0010A	J	LB_BMP_5Y	12.16	1.46	12.16	14.47	15.11	12.95
RJ0010B	J	LB_BMP_5Y	12.16	0.92	12.16	14.47	12.09	10.09
RJ0020A	J	LB_BMP_5Y	15.11	3.22	15.11	12.95	15.64	11.32
RJ0020B	J	LB_BMP_5Y	0	0	15.11	12.95	12.16	14.47
RJ0030A	J	LB_BMP_5Y	4.43	53.63	15.64	11.32	15.67	11.19
RJ0030B	J	LB_BMP_5Y	15.6	99.65	15.64	11.32	15.67	11.19
RJ0030D	J	LB_BMP_5Y	0.99	143.53	15.63	11.32	15.64	11.32
RJ0040A	J	LB_BMP_5Y	1.2	24.53	15.42	12.96	15.58	12.85
RJ0040B	J	LB_BMP_5Y	12.11	2.7	15.42	12.96	15.43	12.96
RJ0040C	J	LB_BMP_5Y	0	0	15.42	12.96	15.58	12.85
RJ0050A	J	LB_BMP_5Y	1.2	18.73	15.58	12.85	15.74	12.1
RJ0060A	J	LB_BMP_5Y	3.15	14.21	15.74	12.1	15.72	10.68
RJ0060B	J	LB_BMP_5Y	0	0	15.74	12.1	15.58	12.85
RJ0070A	J	LB_BMP_5Y	18.16	13.81	15.72	10.68	15.7	10.67
RJ0080A	J	LB_BMP_5Y	0.53	321.21	15.43	12.96	15.33	12.95
RJ0090A	J	LB_BMP_5Y	12.98	1.69	15.33	12.96	15.42	12.96
RJ0090B	J	LB_BMP_5Y	12.76	30.06	15.33	12.96	15.33	12.95
RJ0090C	J	LB_BMP_5Y	0	0	15.33	12.96	15.7	10.67
RJ0090D	J	LB_BMP_5Y	0	0	15.33	12.96	15.42	12.96
RJ0090E	J	LB_BMP_5Y	0	0	15.33	12.96	15.72	10.68
RJ0090F	J	LB_BMP_5Y	0	0	15.33	12.96	15.74	12.1
RJ0090G	J	LB_BMP_5Y	0	0	15.33	12.96	15.43	12.96
RJ0090H	J	LB_BMP_5Y	0	0	15.33	12.96	15.58	12.85
RJ0100A	J	LB_BMP_5Y	15.27	272.19	15.33	12.95	15.63	11.32
RJ0101C	J	LB_BMP_5Y	1.44	29.07	15.63	11.32	15.64	11.32
RJ0101CH	J	LB_BMP_5Y	12.42	168.41	15.63	11.32	15.67	11.19
RJ0101W	J	LB_BMP_5Y	12.31	21.74	15.63	11.32	15.67	11.19
RJ0101WW	J	LB_BMP_5Y	0	0	15.63	11.32	15.7	10.67
RJ0110A	J	LB_BMP_5Y	12.76	19.79	12.76	12.41	48	10.65

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0120A	J	LB_BMP_5Y	0	0	48	10.65	15.67	11.19
RJ0121A	J	LB_BMP_5Y	7.77	8.66	48	10.65	48	10.65
RJ0121B	J	LB_BMP_5Y	0	0	48	10.65	15.67	11.19
RJ0130A	J	LB_BMP_5Y	16.03	51.53	15.9	11.56	15.7	10.67
RJ0130D	J	LB_BMP_5Y	0	0	15.9	11.56	15.7	10.67
RJ0140A	J	LB_BMP_5Y	15.63	213.87	15.67	11.19	15.7	10.67
RJ0141A	J	LB_BMP_5Y	16.16	277.35	15.7	10.67	15.31	10.18
RJ0150A	J	LB_BMP_5Y	18.76	1.27	18.76	15.26	14.9	14.19
RJ0160A	J	LB_BMP_5Y	14.48	22.93	14.9	14.19	14.9	14.19
RJ0160C	J	LB_BMP_5Y	0	0	14.9	14.19	15.34	11.95
RJ0170A	J	LB_BMP_5Y	13.25	1.07	13.66	14.9	13.66	14.9
RJ0170B	J	LB_BMP_5Y	13.42	11.56	13.66	14.9	13.66	14.9
RJ0170D	J	LB_BMP_5Y	13.66	0.21	13.66	14.9	15.17	13.83
RJ0190A	J	LB_BMP_5Y	13.66	14.23	13.66	14.9	15.17	13.83
RJ0200A	J	LB_BMP_5Y	14.9	10.91	14.9	14.19	15.17	13.83
RJ0200B	J	LB_BMP_5Y	17.99	14.83	14.9	14.19	15.34	11.95
RJ0210B	J	LB_BMP_5Y	0	0	15.34	11.95	15.9	11.56
RJ0210C	J	LB_BMP_5Y	0	0	15.34	11.95	15.18	13.76
RJ0210D	J	LB_BMP_5Y	0	0	15.34	11.95	14.9	14.19
RJ0210E	J	LB_BMP_5Y	0	0	15.34	11.95	15.17	13.83
RJ0210F	J	LB_BMP_5Y	15.3	46.4	15.34	11.95	17.99	11.21
RJ0220A	J	LB_BMP_5Y	15.18	2.45	15.18	13.76	14.62	12.72
RJ0230A	J	LB_BMP_5Y	18.51	2.57	15.17	13.83	15.18	13.76
RJ0230B	J	LB_BMP_5Y	15.12	29.09	15.17	13.83	15.18	13.76
RJ0240A	J	LB_BMP_5Y	12.47	14.04	14.62	12.72	15.31	10.18
RJ0240B	J	LB_BMP_5Y	14.62	0.71	14.62	12.72	15.31	10.18
RJ0240D	J	LB_BMP_5Y	0	0	14.62	12.72	15.9	11.56
RJ0250A	J	LB_BMP_5Y	16.06	145.71	15.31	10.18	15.28	10.14
RJ0250B	J	LB_BMP_5Y	16.06	147.33	15.31	10.18	15.28	10.14
RJ0260A	J	LB_BMP_5Y	12.83	4.99	15.29	10.18	15.31	10.18
RJ0260C	J	LB_BMP_5Y	0	0	15.29	10.18	15.31	10.18
RJ0261A	J	LB_BMP_5Y	16.09	294.32	15.28	10.14	13.4	9.25
RK0010A	K	LB_BMP_5Y	19.86	1	19.86	16.03	13.89	15.89
RK0010B	K	LB_BMP_5Y	0	0	19.86	16.03	16.8	15.45
RK0010C	K	LB_BMP_5Y	0	0	19.86	16.03	12.5	16.14
RK0020A	K	LB_BMP_5Y	12.5	0.99	12.5	16.14	16.8	15.45
RK0020B	K	LB_BMP_5Y	12.5	3.2	12.5	16.14	14.22	14.78
RK0030A	K	LB_BMP_5Y	13.89	6.51	13.89	15.89	14.02	15.31
RK0030B	K	LB_BMP_5Y	13.89	4.04	13.89	15.89	17.61	14.96
RK0040A	K	LB_BMP_5Y	0	0	16.8	15.45	13.73	15.08
RK0040B	K	LB_BMP_5Y	16.8	2.12	16.8	15.45	17.61	14.96
RK0040C	K	LB_BMP_5Y	0	0	16.8	15.45	13.89	15.89
RK0050A	K	LB_BMP_5Y	13.66	7.47	13.66	15.52	14.02	15.31
RK0060A	K	LB_BMP_5Y	13.73	5.15	13.73	16.26	14.02	15.31
RK0070A	K	LB_BMP_5Y	14.02	29.32	14.02	15.31	17.62	14.95
RK0070B	K	LB_BMP_5Y	0	0	14.02	15.31	12.76	12.41
RK0080A	K	LB_BMP_5Y	0	0	13.73	15.08	14.22	14.78



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RK0080B	K	LB_BMP_5Y	13.73	0.51	13.73	15.08	17.61	14.96
RK0080C	K	LB_BMP_5Y	0	0	13.73	15.08	17.63	14.94
RK0090A	K	LB_BMP_5Y	27.79	1.56	14.22	14.78	15.35	12.96
RK0090B	K	LB_BMP_5Y	0	0	14.22	14.78	14.22	14.78
RK0091A	K	LB_BMP_5Y	17.68	1.73	15.35	12.96	15.35	12.96
RK0100A	K	LB_BMP_5Y	0	0	17.56	14.58	12.09	10.09
RK0100B	K	LB_BMP_5Y	17.56	6.29	17.56	14.58	12.09	10.09
RK0100C	K	LB_BMP_5Y	0	0	17.56	14.58	17.62	14.95
RK0100D	K	LB_BMP_5Y	0	0	17.56	14.58	17.75	14.93
RK0100E	K	LB_BMP_5Y	0	0	17.56	14.58	14.22	14.78
RK0100F	K	LB_BMP_5Y	0	0	17.56	14.58	17.63	14.94
RK0110A	K	LB_BMP_5Y	13.76	3.89	17.63	14.94	17.75	14.93
RK0110B	K	LB_BMP_5Y	0	0	17.63	14.94	17.75	14.93
RK0110C	K	LB_BMP_5Y	0	0	17.75	14.93	14.22	14.78
RK0130A	K	LB_BMP_5Y	17.63	0.01	17.63	14.95	17.56	14.58
RK0130B	K	LB_BMP_5Y	29.83	5.37	17.63	14.95	17.62	14.95
RK0130C	K	LB_BMP_5Y	13.61	20.1	17.63	14.95	17.63	14.94
RK0130D	K	LB_BMP_5Y	0	0	17.63	14.95	17.56	14.58
RK0130E	K	LB_BMP_5Y	0	0	17.63	14.95	13.73	15.08
RK0130F	K	LB_BMP_5Y	0	0	17.63	14.95	17.61	14.96
RK0140A	K	LB_BMP_5Y	12.19	7.64	17.61	14.96	17.62	14.95
RK0140B	K	LB_BMP_5Y	17.59	3.38	17.61	14.96	17.62	14.95
RK0150A	K	LB_BMP_5Y	13.65	0.4	17.62	14.95	17.63	14.95
RK0150B	K	LB_BMP_5Y	17.62	12.39	17.62	14.95	48	9.99
RK0150C	K	LB_BMP_5Y	0	0	17.62	14.95	48	9.99
RK0160A	K	LB_BMP_5Y	12.09	10.7	12.09	10.09	48	9.99
RK0160B	K	LB_BMP_5Y	0	0	12.09	10.09	48	9.99
RK0160C	K	LB_BMP_5Y	0	0	12.09	10.09	15.11	12.95
RK0160D	K	LB_BMP_5Y	0	0	12.09	10.09	15.33	12.95
RK0161A	K	LB_BMP_5Y	13.47	0.01	48	9.99	48	10.65
RA0010A	A	LB_BMP_233Y	0	0	27.75	16.27	28.57	12.99
RA0020A	A	LB_BMP_233Y	0	0	28.57	12.99	21.85	13.26
RA0020B	A	LB_BMP_233Y	34.63	1.02	28.57	12.99	21.85	13.26
RA0030A	A	LB_BMP_233Y	13.33	3.7	13.63	14.17	14.94	13.63
RA0030C	A	LB_BMP_233Y	0	0	13.63	14.17	20.09	16.84
RA0040A	A	LB_BMP_233Y	0	0	12.85	16.65	20.09	16.84
RA0040B	A	LB_BMP_233Y	0	0	12.85	16.65	28.57	12.99
RA0040C	A	LB_BMP_233Y	12.85	6.17	12.85	16.65	21.85	13.26
RA0040D	A	LB_BMP_233Y	0	0	12.85	16.65	13.63	14.17
RA0060A	A	LB_BMP_233Y	12.48	2.33	12.48	17.35	15	16.73
RA0070A	A	LB_BMP_233Y	12.37	1.21	15	16.73	15.21	16.79
RA0070B	A	LB_BMP_233Y	15	5.66	15	16.73	12.09	15.04
RA0080A	A	LB_BMP_233Y	15.21	5.2	15.21	16.79	14.94	13.63
RA0081A	A	LB_BMP_233Y	15.38	8.07	14.94	13.63	14.92	13.6
RA0081B	A	LB_BMP_233Y	0	0	14.94	13.63	20.09	16.84
RA0081C	A	LB_BMP_233Y	0	0	14.94	13.63	14.92	13.6

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RA0081D	A	LB_BMP_233Y	0	0	14.94	13.63	13.63	14.17
RA0081E	A	LB_BMP_233Y	0	0	14.94	13.63	12.24	14.39
RA0081F	A	LB_BMP_233Y	0	0	14.94	13.63	12.09	15.04
RA0082A	A	LB_BMP_233Y	15.78	8.33	14.92	13.6	14.88	13.58
RB0010A	B	LB_BMP_233Y	9.11	0.03	24.69	16.95	24.69	16.95
RB0010B	B	LB_BMP_233Y	0	0	24.69	16.95	24.7	16.95
RB0020A	B	LB_BMP_233Y	24.01	0	24.7	16.95	24.69	16.95
RB0030A	B	LB_BMP_233Y	12.33	5.43	12.33	15.51	12.48	13.04
RB0030B	B	LB_BMP_233Y	0	0	12.33	15.51	21.63	16.82
RB0030C	B	LB_BMP_233Y	12.33	8.16	12.33	15.51	12.27	14.71
RB0040A	B	LB_BMP_233Y	14.09	1.15	14.09	17.83	12.27	14.71
RB0040B	B	LB_BMP_233Y	0	0	14.09	17.83	12.47	17.28
RB0040C	B	LB_BMP_233Y	0	0	14.09	17.83	25.58	16.98
RB0050A	B	LB_BMP_233Y	12.26	2.26	12.27	14.71	12.26	11.53
RB0050B	B	LB_BMP_233Y	0	0	12.27	14.71	25.58	16.98
RB0050C	B	LB_BMP_233Y	12.09	22.36	12.27	14.71	12.27	14.67
RB0050D	B	LB_BMP_233Y	12.27	7.53	12.27	14.71	12.37	13.99
RB0050E	B	LB_BMP_233Y	0	0	12.27	14.71	12.48	13.04
RB0051A	B	LB_BMP_233Y	12.32	21.6	12.27	14.67	12.48	13.04
RB0055A	B	LB_BMP_233Y	12.36	9.33	12.37	13.99	12.48	13.04
RB0055B	B	LB_BMP_233Y	12.37	2.52	12.37	13.99	12.48	13.04
RB0060A	B	LB_BMP_233Y	0	0	25.58	16.98	21.63	16.82
RB0070A	B	LB_BMP_233Y	12.47	3.18	12.47	17.28	21.63	16.82
RB0080A	B	LB_BMP_233Y	21.63	3.73	21.63	16.82	48	15
RB0090A	B	LB_BMP_233Y	12.48	50.15	12.48	13.04	48	8.33
RB0090B	B	LB_BMP_233Y	0	0	12.48	13.04	12.67	9.03
RC0010A	C	LB_BMP_233Y	12.84	0.33	24.69	16.95	24.7	16.95
RC0010B	C	LB_BMP_233Y	24.69	0.05	24.69	16.95	15.65	13.66
RC0010C	C	LB_BMP_233Y	0	0	24.69	16.95	21.63	16.82
RC0020A	C	LB_BMP_233Y	12.42	8.05	15.65	13.66	15.65	13.65
RC0021A	C	LB_BMP_233Y	12.57	18.93	15.65	13.65	15.65	13.65
RC0021B	C	LB_BMP_233Y	13.7	6.21	15.65	13.65	15.65	13.65
RC0022A	C	LB_BMP_233Y	13.91	5.36	15.65	13.65	15.65	13.65
RC0022B	C	LB_BMP_233Y	0	0	15.65	13.65	15.65	13.65
RC0030A	C	LB_BMP_233Y	12.57	8.94	12.57	15.26	12.63	14.31
RC0031A	C	LB_BMP_233Y	12.62	5.23	12.63	14.31	15.65	13.65
RC0031B	C	LB_BMP_233Y	12.63	3.64	12.63	14.31	15.65	13.65
RC0040A	C	LB_BMP_233Y	0	0	48	15	14.91	13.32
RC0050A	C	LB_BMP_233Y	14.9	4.78	14.91	13.32	15.16	12.83
RC0050B	C	LB_BMP_233Y	0	0	14.91	13.32	15.16	12.83
RC0050C	C	LB_BMP_233Y	0	0	14.91	13.32	15.65	13.65
RC0051A	C	LB_BMP_233Y	15.33	5.73	15.16	12.83	12.09	12.79
RC0051B	C	LB_BMP_233Y	12.09	0.66	15.16	12.83	15.75	12.91
RC0051C	C	LB_BMP_233Y	0	0	15.16	12.83	12.09	12.79
RC0060A	C	LB_BMP_233Y	12.12	4.48	12.12	16.62	21.85	13.26
RC0070A	C	LB_BMP_233Y	32.23	1.71	21.85	13.26	15.65	13.65
RC0070B	C	LB_BMP_233Y	0	0	21.85	13.26	15.65	13.65

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RC0080A	C	LB_BMP_233Y	13.36	2.77	15.65	13.65	15.65	13.65
RC0100A	C	LB_BMP_233Y	15.77	22.36	15.75	12.9	15.66	12.81
RC0100B	C	LB_BMP_233Y	0	0	15.75	12.91	15.75	12.9
RC0101A	C	LB_BMP_233Y	15.76	22.36	15.75	12.91	15.75	12.9
RC0101B	C	LB_BMP_233Y	15.73	23.36	15.73	13.23	15.75	12.91
RC0101C	C	LB_BMP_233Y	0	0	15.75	12.91	13.92	12.75
RC0102A	C	LB_BMP_233Y	14.89	21.85	15.7	13.47	15.73	13.23
RC0102B	C	LB_BMP_233Y	15.7	1.86	15.7	13.47	15.73	13.23
RC0103A	C	LB_BMP_233Y	15.56	23.38	15.65	13.64	15.7	13.47
RC0104A	C	LB_BMP_233Y	13.51	16.03	15.65	13.65	15.65	13.64
RC0104B	C	LB_BMP_233Y	15.51	18.55	15.65	13.65	15.65	13.64
RC0105A	C	LB_BMP_233Y	15.73	22.75	15.66	12.81	14	12.78
RC0105B	C	LB_BMP_233Y	0	0	15.66	12.81	14	12.78
RC0105C	C	LB_BMP_233Y	0	0	15.66	12.81	13.92	12.75
RC0106	C	LB_BMP_233Y	0.21	1681.91	14	12.78	13.85	12.78
RC0110A	C	LB_BMP_233Y	0	0	12.36	15.1	0	12.78
RC0110B	C	LB_BMP_233Y	12.36	0.84	12.36	15.1	12.09	12.79
RC0115A	C	LB_BMP_233Y	12.08	16.21	12.09	12.79	13.85	12.78
RC0120A	C	LB_BMP_233Y	12.04	9.63	12.08	12.81	13.83	12.78
RC0120B	C	LB_BMP_233Y	0	0	12.08	12.81	13.83	12.78
RC0130	C	LB_BMP_233Y	0	0	26.92	11.88	13.83	12.78
RC0140A	C	LB_BMP_233Y	12.51	6.88	12.52	12.81	13.83	12.78
RC0140B	C	LB_BMP_233Y	0	0	12.52	12.81	13.83	12.78
RC0140C	C	LB_BMP_233Y	2.92	4.58	12.52	12.81	12.52	12.82
RC0150A	C	LB_BMP_233Y	12.51	1.48	12.52	12.82	13.83	12.78
RC0160	C	LB_BMP_233Y	0.12	1773.55	13.85	12.78	13.83	12.78
RC0160A	C	LB_BMP_233Y	0	17898.2	0	12.78	14	12.78
RC0160B	C	LB_BMP_233Y	0	39274.6	0	12.78	14	12.78
RC0161	C	LB_BMP_233Y	0.13	1550.87	13.83	12.78	13.83	12.78
RC0170A	C	LB_BMP_233Y	0.56	345.24	13.83	12.78	13.86	12.75
RC0170C	C	LB_BMP_233Y	0	0	13.83	12.78	13.86	12.75
RC0170D	C	LB_BMP_233Y	0	0	13.83	12.78	12.52	12.81
RD0010A	D	LB_BMP_233Y	10.32	0.01	47.93	15.04	48	15.04
RD0010B	D	LB_BMP_233Y	0	0	47.93	15.04	48	15.04
RD0020A	D	LB_BMP_233Y	12.08	0.75	12.08	15.15	48	15.04
RD0030A	D	LB_BMP_233Y	0	0	48	15.04	14.73	13.51
RD0040A	D	LB_BMP_233Y	0	0	12.09	15.04	14.73	13.51
RD0040B	D	LB_BMP_233Y	12.09	16.37	12.09	15.04	12.24	14.39
RD0050A	D	LB_BMP_233Y	12.05	21.24	12.24	14.39	14.88	13.58
RD0050B	D	LB_BMP_233Y	0	0	12.24	14.39	14.88	13.58
RD0050C	D	LB_BMP_233Y	12.24	10.34	12.24	14.39	14.76	13.51
RD0051A	D	LB_BMP_233Y	7.31	1.39	14.88	13.58	12.37	13.83
RD0051B	D	LB_BMP_233Y	12.53	26.79	14.88	13.58	14.76	13.51
RD0060A	D	LB_BMP_233Y	0	0	12.37	13.83	15.65	13.65
RD0060B	D	LB_BMP_233Y	0	0	12.37	13.83	14.92	13.6
RD0060C	D	LB_BMP_233Y	0	0	12.37	13.83	21.85	13.26
RD0060D	D	LB_BMP_233Y	0	0	12.37	13.83	12.85	16.65

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0060E	D	LB_BMP_233Y	0	0	12.37	13.83	20.09	16.84
RD0070A	D	LB_BMP_233Y	12.58	15	14.7	13.52	14.73	13.5
RD0070B	D	LB_BMP_233Y	12.95	7.01	14.7	13.52	14.73	13.5
RD0070C	D	LB_BMP_233Y	0	0	14.7	13.52	15.65	13.65
RD0080A	D	LB_BMP_233Y	12.53	138.12	14.76	13.51	14.76	13.51
RD0080B	D	LB_BMP_233Y	0	0	14.76	13.51	14.76	13.51
RD0080C	D	LB_BMP_233Y	0	0	14.76	13.51	14.7	13.52
RD0081A	D	LB_BMP_233Y	12.53	31.67	14.76	13.51	14.73	13.5
RD0090A	D	LB_BMP_233Y	14.35	4.06	14.73	13.51	14.73	13.5
RD0090B	D	LB_BMP_233Y	14.35	43.9	14.73	13.51	14.73	13.5
RD0091A	D	LB_BMP_233Y	14.97	71.75	14.73	13.5	14.23	13.21
RD0100A	D	LB_BMP_233Y	15.62	4.53	15.62	14.84	13.57	13.57
RD0100B	D	LB_BMP_233Y	0	0	15.62	14.84	14.73	13.51
RD0110A	D	LB_BMP_233Y	13.05	11.39	13.57	13.53	14.23	13.21
RD0110B	D	LB_BMP_233Y	0	0	13.57	13.53	14.25	13.22
RD0110C	D	LB_BMP_233Y	0	0	13.57	13.53	13.57	13.57
RD0110D	D	LB_BMP_233Y	0	0	13.57	13.53	15.62	14.84
RD0120A	D	LB_BMP_233Y	12.16	8.05	14.25	13.22	14.23	13.21
RD0120B	D	LB_BMP_233Y	0	0	14.25	13.22	14.23	13.21
RD0120C	D	LB_BMP_233Y	0	0	14.25	13.22	14.73	13.51
RD0130A	D	LB_BMP_233Y	12.54	33.2	12.54	14.68	13.57	13.57
RD0130B	D	LB_BMP_233Y	12.54	2.82	12.54	14.68	16.54	14.64
RD0130D	D	LB_BMP_233Y	12.54	0.02	12.54	14.68	15.62	14.84
RD0140A	D	LB_BMP_233Y	12.75	0.86	12.75	15.37	16.54	14.64
RD0150A	D	LB_BMP_233Y	12.81	5.2	16.54	14.64	16.74	14.64
RD0150B	D	LB_BMP_233Y	0	0	16.54	14.64	13.57	13.57
RD0150C	D	LB_BMP_233Y	0	0	16.54	14.64	16.74	14.64
RD0160A	D	LB_BMP_233Y	12.4	3.93	12.4	15.06	16.74	14.64
RD0160B	D	LB_BMP_233Y	12.4	2.17	12.4	15.06	16.54	14.64
RD0160C	D	LB_BMP_233Y	12.4	0.05	12.4	15.06	13.57	13.57
RD0160D	D	LB_BMP_233Y	0	0	12.4	15.06	12.45	13.7
RD0170A	D	LB_BMP_233Y	12.11	6.17	12.45	13.7	12.69	12.91
RD0170B	D	LB_BMP_233Y	0	0	12.45	13.7	13.57	13.57
RD0170C	D	LB_BMP_233Y	0	0	12.45	13.7	16.74	14.64
RD0180A	D	LB_BMP_233Y	12.33	1.21	12.34	14.19	29.01	12.33
RD0180B	D	LB_BMP_233Y	0	0	12.34	14.19	16.74	14.64
RD0180C	D	LB_BMP_233Y	12.34	1.24	12.34	14.19	13.92	12.75
RD0181A	D	LB_BMP_233Y	12.39	6.65	12.69	12.91	13.01	12.72
RD0182A	D	LB_BMP_233Y	12.93	6.94	13.01	12.72	13.88	12.7
RD0182B	D	LB_BMP_233Y	0	0	13.01	12.72	12.09	9.95
RD0190A	D	LB_BMP_233Y	18.84	22.64	13.57	13.57	14.23	13.21
RD0190B	D	LB_BMP_233Y	13.57	15.3	13.57	13.57	14.23	13.21
RD0190C	D	LB_BMP_233Y	0	0	13.57	13.57	12.34	14.19
RD0190D	D	LB_BMP_233Y	13.57	12.96	13.57	13.57	14.18	13.15
RD0200A	D	LB_BMP_233Y	12.34	2.11	14.21	13.22	14.23	13.21
RD0200B	D	LB_BMP_233Y	0	0	14.21	13.22	14.14	13.22
RD0200C	D	LB_BMP_233Y	0	0	14.21	13.22	14.23	13.21

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RD0210A	D	LB_BMP_233Y	12.32	3.72	14.14	13.22	14.23	13.21
RD0210B	D	LB_BMP_233Y	12.32	7.69	14.14	13.22	14.23	13.21
RD0210C	D	LB_BMP_233Y	0	0	14.14	13.22	13.92	12.75
RD0210D	D	LB_BMP_233Y	0	0	14.14	13.22	15.65	13.65
RD0210E	D	LB_BMP_233Y	0	0	14.14	13.22	14.23	13.21
RD0220A	D	LB_BMP_233Y	12.68	23.22	13.92	12.75	13.92	12.75
RD0220B	D	LB_BMP_233Y	0	0	13.92	12.75	14	12.78
RD0220C	D	LB_BMP_233Y	0	0	13.92	12.75	14.23	13.21
RD0230A	D	LB_BMP_233Y	14.73	108.36	14.23	13.21	14.18	13.15
RD0230B	D	LB_BMP_233Y	14.24	2.45	14.23	13.21	14.18	13.15
RD0231A	D	LB_BMP_233Y	14.35	120.09	14.18	13.15	13.92	12.75
RD0240A	D	LB_BMP_233Y	12.36	5.75	16.74	14.64	16.74	14.64
RD0240B	D	LB_BMP_233Y	0	0	16.74	14.64	16.74	14.64
RD0240C	D	LB_BMP_233Y	17.35	0.62	16.74	14.64	16.74	14.64
RD0240D	D	LB_BMP_233Y	0	0	16.74	14.64	16.74	14.64
RD0250A	D	LB_BMP_233Y	17.34	0.77	16.74	14.64	16.74	14.64
RD0250B	D	LB_BMP_233Y	0	0	16.74	14.64	16.74	14.64
RD0260A	D	LB_BMP_233Y	27.82	1.45	16.74	14.64	16.74	14.64
RD0260B	D	LB_BMP_233Y	0	0	16.74	14.64	16.74	14.64
RD0270A	D	LB_BMP_233Y	12.09	19.28	13.92	12.75	13.92	12.75
RD0270B	D	LB_BMP_233Y	0	0	13.92	12.75	13.57	13.57
RD0280A	D	LB_BMP_233Y	0	0	12.13	13.36	13.92	12.75
RD0280B	D	LB_BMP_233Y	12.13	5.03	12.13	13.36	13.92	12.75
RD0280C	D	LB_BMP_233Y	0	0	12.13	13.36	12.52	12.82
RD0280D	D	LB_BMP_233Y	0	0	12.13	13.36	13.92	12.75
RD0290A	D	LB_BMP_233Y	14.05	139.62	13.92	12.75	13.88	12.7
RD0290B	D	LB_BMP_233Y	0	0	13.92	12.75	13.88	12.7
RD0290C	D	LB_BMP_233Y	0	0	13.92	12.75	12.52	12.82
RE0010A	E	LB_BMP_233Y	14.8	0	14.8	15.28	12.2	11.53
RE0020A	E	LB_BMP_233Y	12.19	7.65	12.2	11.53	24.5	6.33
RE0020B	E	LB_BMP_233Y	0	0	12.2	11.53	14.12	6.87
RE0030A	E	LB_BMP_233Y	13	11.03	13	10.63	13.02	8.03
RE0030B	E	LB_BMP_233Y	0	0	13	10.63	14.12	6.78
RE0030C	E	LB_BMP_233Y	0	0	13	10.63	12.2	11.53
RE0030D	E	LB_BMP_233Y	0	0	13	10.63	14.8	15.28
RE0040A	E	LB_BMP_233Y	12.45	9.22	12.64	7.18	14.12	6.77
RE0040B	E	LB_BMP_233Y	12.64	6.51	12.64	7.18	14.12	6.76
RE0041	E	LB_BMP_233Y	14.84	6.64	14.12	6.76	14.12	6.76
RE0041B	E	LB_BMP_233Y	0	0	14.12	6.76	14.12	6.76
RE0050A	E	LB_BMP_233Y	13	14.49	13.02	8.03	14.12	6.78
RE0050B	E	LB_BMP_233Y	0	0	13.02	8.03	12.64	7.18
RE0050C	E	LB_BMP_233Y	0	0	13.02	8.03	14.12	6.78
RE0060A	E	LB_BMP_233Y	14.51	9	14.55	4.85	14.51	2.35
RE0060B	E	LB_BMP_233Y	0	0	14.55	4.85	14.48	4.88
RE0080A	E	LB_BMP_233Y	12.51	11.56	12.51	7.43	48	4.81
RE0080B	E	LB_BMP_233Y	12.51	0.15	12.51	7.43	14.12	5.34
RE0080C	E	LB_BMP_233Y	0	0	12.51	7.43	12.73	6.67

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RE0090A	E	LB_BMP_233Y	13.07	7.45	13.07	4.82	0	0.7
RE0090B	E	LB_BMP_233Y	0	0	13.07	4.82	14.48	4.88
RE0100A	E	LB_BMP_233Y	12.73	7.56	12.73	6.67	12.73	2.53
RE0100B	E	LB_BMP_233Y	0	0	12.73	6.67	13.07	4.82
RE0100C	E	LB_BMP_233Y	0	0	12.73	6.67	14.01	1.52
RF0010A	F	LB_BMP_233Y	13.33	2.85	13.34	10.12	13.33	9.57
RF0010B	F	LB_BMP_233Y	0	0	13.34	10.12	13.33	5.37
RF0011A	F	LB_BMP_233Y	13.71	2.7	13.73	9.75	13.71	8.92
RF0011B	F	LB_BMP_233Y	0	0	13.73	9.75	13.25	7.08
RF0012A	F	LB_BMP_233Y	13.88	2.66	13.91	8.85	34.55	5.89
RF0020A	F	LB_BMP_233Y	0	0	25.83	6.07	14.12	5.34
RF0030A	F	LB_BMP_233Y	14.76	2.69	14.76	6.19	14.43	3.21
RF0040A	F	LB_BMP_233Y	0	0	13.33	5.37	14.43	3.21
RF0040B	F	LB_BMP_233Y	0	0	13.33	5.37	12.4	7.59
RF0040C	F	LB_BMP_233Y	0	0	13.33	5.37	14.43	3.21
RF0040D	F	LB_BMP_233Y	13.33	12.53	13.33	5.37	14.01	1.52
RF0042A	F	LB_BMP_233Y	14.45	361.61	14.43	3.21	14.01	1.52
RF0050A	F	LB_BMP_233Y	12.4	7.71	12.4	7.59	12.4	3.11
RF0050B	F	LB_BMP_233Y	12.4	2.84	12.4	7.59	14.01	1.52
RF0060A	F	LB_BMP_233Y	14.01	414.8	14.01	1.52	0.8	0.7
RF0060B	F	LB_BMP_233Y	0	0	14.01	1.52	14.48	4.88
RF0061	F	LB_BMP_233Y	5.72	13.9	14.13	6.64	14.13	6.62
RF0061B	F	LB_BMP_233Y	14.21	11.82	14.13	6.64	14.13	6.62
RF0062	F	LB_BMP_233Y	14.13	357.49	14.13	6.62	14.12	5.34
RG0010A	G	LB_BMP_233Y	12.98	4.77	13.55	15.02	13.54	15.01
RG0010B	G	LB_BMP_233Y	0	0	13.55	15.02	13.54	15.01
RG0010C	G	LB_BMP_233Y	0	0	13.55	15.02	17.21	15.69
RG0020A	G	LB_BMP_233Y	10.23	0.73	17.21	15.69	17.15	15.69
RG0020B	G	LB_BMP_233Y	0	0	17.21	15.69	17.15	15.69
RG0030A	G	LB_BMP_233Y	12.32	6.82	17.21	15.69	17.15	15.69
RG0030B	G	LB_BMP_233Y	0	0	17.21	15.69	12.67	9.03
RG0040A	G	LB_BMP_233Y	17.15	3.41	17.15	15.69	13.54	15.01
RG0040B	G	LB_BMP_233Y	0	0	17.15	15.69	23.8	8.47
RG0050A	G	LB_BMP_233Y	23.49	0.36	23.49	16.05	13.34	9.83
RG0050B	G	LB_BMP_233Y	0	0	23.49	16.05	14.12	6.87
RG0050C	G	LB_BMP_233Y	0	0	23.49	16.05	14.8	15.28
RG0060A	G	LB_BMP_233Y	0	0	17.15	15.64	17.15	15.69
RG0060B	G	LB_BMP_233Y	0	0	13.54	15.01	17.15	15.69
RG0060C	G	LB_BMP_233Y	13.54	5.11	13.54	15.01	13.44	8.95
RG0060D	G	LB_BMP_233Y	13.54	4.67	13.54	15.01	13.34	9.83
RG0060E	G	LB_BMP_233Y	0	0	13.54	15.01	12.84	8.96
RG0070A	G	LB_BMP_233Y	12.09	12.27	12.09	13.66	12.67	9.03
RG0080A	G	LB_BMP_233Y	25.75	3.36	23.8	8.47	12.67	9.03
RG0080B	G	LB_BMP_233Y	0	0	23.8	8.47	12.67	9.03
RG0090A	G	LB_BMP_233Y	12.15	3.97	14.43	9.8	14.41	9.79
RG0090B	G	LB_BMP_233Y	0	0	14.43	9.8	26.17	8.33
RG0090C	G	LB_BMP_233Y	0	0	14.43	9.8	14.41	9.79

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RG0090D	G	LB_BMP_233Y	0	0	14.43	9.8	13.44	8.95
RG0100A	G	LB_BMP_233Y	18.51	0.23	14.44	9.8	14.43	9.8
RG0100B	G	LB_BMP_233Y	0	0	14.44	9.8	14.43	9.8
RG0110A	G	LB_BMP_233Y	12.58	10.47	23.8	8.47	23.8	8.47
RG0110B	G	LB_BMP_233Y	0	0	23.8	8.47	14.44	9.8
RG0110C	G	LB_BMP_233Y	0	0	23.8	8.47	12.67	9.03
RG0110D	G	LB_BMP_233Y	0	0	23.8	8.47	14.44	9.8
RG0120A	G	LB_BMP_233Y	0	0	26.17	8.33	12.84	8.96
RG0121A	G	LB_BMP_233Y	19	0.08	14.44	9.8	14.44	9.8
RG0121B	G	LB_BMP_233Y	0	0	14.44	9.8	14.44	9.8
RG0130A	G	LB_BMP_233Y	12.49	33.03	12.67	9.03	12.84	8.96
RG0130B	G	LB_BMP_233Y	0	0	12.67	9.03	12.84	8.96
RG0130C	G	LB_BMP_233Y	0	0	12.67	9.03	26.17	8.33
RG0140A	G	LB_BMP_233Y	12.5	35.95	12.84	8.96	13.44	8.95
RG0140B	G	LB_BMP_233Y	0	0	12.84	8.96	13.44	8.95
RG0150A	G	LB_BMP_233Y	12.34	53.71	13.44	8.95	13.56	8.94
RG0160A	G	LB_BMP_233Y	13.34	19.2	13.34	9.83	13.57	8.81
RG0170A	G	LB_BMP_233Y	14.03	327.53	14.12	6.78	14.12	6.76
RG0170B	G	LB_BMP_233Y	0	0	14.12	6.78	14.12	6.76
RG0170C	G	LB_BMP_233Y	0	0	14.12	6.78	14.13	6.7
RG0170D	G	LB_BMP_233Y	13.71	21.96	14.12	6.78	14.13	6.7
RG0171A	G	LB_BMP_233Y	14.03	335.77	14.12	6.76	14.13	6.62
RG0172A	G	LB_BMP_233Y	14.13	360.9	14.12	5.34	14.43	3.21
RH0010A	H	LB_BMP_233Y	12.72	7.13	12.74	9.89	12.72	8.47
RH0010B	H	LB_BMP_233Y	0	0	12.74	9.89	13.48	8.65
RH0010C	H	LB_BMP_233Y	0	0	12.74	9.89	26.17	12.48
RH0010D	H	LB_BMP_233Y	0	0	12.74	9.89	26.42	11.33
RH0011A	H	LB_BMP_233Y	13.42	5.48	13.48	8.65	13.98	7.75
RH0020A	H	LB_BMP_233Y	0	0	26.17	12.48	26.42	11.33
RH0020B	H	LB_BMP_233Y	0	0	26.17	12.48	25	11.18
RH0020C	H	LB_BMP_233Y	0	0	26.17	12.48	13.25	7.08
RH0030A	H	LB_BMP_233Y	0	0	26.42	11.33	25	11.18
RH0030B	H	LB_BMP_233Y	0	0	26.42	11.33	13.98	7.75
RH0040A	H	LB_BMP_233Y	0	0	25	11.18	14.01	7.6
RH0040B	H	LB_BMP_233Y	0	0	25	11.18	13.25	7.08
RH0050A	H	LB_BMP_233Y	0	0	13.25	7.08	14.09	6.88
RH0050B	H	LB_BMP_233Y	0	0	13.25	7.08	14.12	6.76
RH0050C	H	LB_BMP_233Y	13.05	23.88	13.25	7.08	14.12	6.78
RH0050D	H	LB_BMP_233Y	0	0	13.25	7.08	14.76	6.19
RH0051	H	LB_BMP_233Y	14.03	21.88	14.13	6.7	14.13	6.64
RH0051B	H	LB_BMP_233Y	0	0	14.13	6.7	14.13	6.64
RH0060A	H	LB_BMP_233Y	13.48	254.1	13.56	8.94	13.57	8.81
RH0070A	H	LB_BMP_233Y	13.42	285.87	13.57	8.81	13.98	7.75
RH0070B	H	LB_BMP_233Y	0	0	13.57	8.81	14.12	6.87
RH0071A	H	LB_BMP_233Y	13.71	287.44	13.98	7.75	14.01	7.6
RH0080A	H	LB_BMP_233Y	0	0	14.09	6.88	14.12	6.87
RH0080B	H	LB_BMP_233Y	0	0	14.09	6.88	14.12	6.87



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RH0080C	C	LB_BMP_233Y	46.11	39.32	14.09	6.88	14.12	6.87
RH0080D	H	LB_BMP_233Y	0	0	14.09	6.88	13.25	7.08
RH0090A	H	LB_BMP_233Y	13.81	295.55	14.01	7.6	14.12	6.87
RH0091A	H	LB_BMP_233Y	14.19	297.25	14.12	6.87	14.12	6.78
RH0165	H	LB_BMP_233Y	12.5	8.7	14.12	6.77	14.12	6.76
RH0165B	H	LB_BMP_233Y	0	0	14.12	6.77	14.12	6.78
RJ0010A	J	LB_BMP_233Y	12.26	0.76	12.26	14.43	24.32	12.78
RJ0010B	J	LB_BMP_233Y	12.26	0.62	12.26	14.43	12.09	9.95
RJ0020A	J	LB_BMP_233Y	24.32	0.44	24.32	12.78	14.55	11.12
RJ0020B	J	LB_BMP_233Y	0	0	24.32	12.78	12.26	14.43
RJ0030A	J	LB_BMP_233Y	4.43	53.63	14.55	11.12	14.65	10.91
RJ0030B	J	LB_BMP_233Y	14.54	37.59	14.55	11.12	14.65	10.91
RJ0030D	J	LB_BMP_233Y	0.99	143.53	14.55	11.13	14.55	11.12
RJ0040A	J	LB_BMP_233Y	1.2	24.53	13.85	12.74	12.38	12.67
RJ0040B	J	LB_BMP_233Y	0	0	13.85	12.74	13.86	12.75
RJ0040C	J	LB_BMP_233Y	0	0	13.85	12.74	12.38	12.67
RJ0050A	J	LB_BMP_233Y	1.2	18.73	12.38	12.67	12.42	11.89
RJ0060A	J	LB_BMP_233Y	3.15	14.21	12.42	11.89	14.83	10.34
RJ0060B	J	LB_BMP_233Y	0	0	12.42	11.89	12.38	12.67
RJ0070A	J	LB_BMP_233Y	22.36	12.62	14.83	10.34	14.8	10.33
RJ0080A	J	LB_BMP_233Y	0.53	321.21	13.86	12.75	13.88	12.7
RJ0090A	J	LB_BMP_233Y	0	0	13.67	12.73	13.85	12.74
RJ0090B	J	LB_BMP_233Y	12.82	23.94	13.67	12.73	13.88	12.7
RJ0090C	J	LB_BMP_233Y	0	0	13.67	12.73	14.8	10.33
RJ0090D	J	LB_BMP_233Y	0	0	13.67	12.73	13.85	12.74
RJ0090E	J	LB_BMP_233Y	0	0	13.67	12.73	14.83	10.34
RJ0090F	J	LB_BMP_233Y	0	0	13.67	12.73	12.42	11.89
RJ0090G	J	LB_BMP_233Y	0	0	13.67	12.73	13.86	12.75
RJ0090H	J	LB_BMP_233Y	0	0	13.67	12.73	12.38	12.67
RJ0100A	J	LB_BMP_233Y	13.69	249.22	13.88	12.7	14.55	11.13
RJ0101C	J	LB_BMP_233Y	1.44	29.07	14.55	11.13	14.55	11.12
RJ0101CH	J	LB_BMP_233Y	12.69	168.82	14.55	11.13	14.65	10.91
RJ0101W	J	LB_BMP_233Y	12.58	21.85	14.55	11.13	14.65	10.91
RJ0101WW	J	LB_BMP_233Y	0	0	14.55	11.13	14.8	10.33
RJ0110A	J	LB_BMP_233Y	12.88	13.23	12.88	12.36	48	10.61
RJ0120A	J	LB_BMP_233Y	0	0	48	10.61	14.65	10.91
RJ0121A	J	LB_BMP_233Y	7.8	8.7	48	10.61	48	10.61
RJ0121B	J	LB_BMP_233Y	0	0	48	10.61	14.65	10.91
RJ0130A	J	LB_BMP_233Y	15.51	36.54	15.27	10.77	14.8	10.33
RJ0130D	J	LB_BMP_233Y	0	0	15.27	10.77	14.8	10.33
RJ0140A	J	LB_BMP_233Y	48	196.84	14.65	10.91	14.8	10.33
RJ0141A	J	LB_BMP_233Y	15.59	243.4	14.8	10.33	14.43	9.83
RJ0150A	J	LB_BMP_233Y	0	0	28.83	14.98	15.89	13.63
RJ0160A	J	LB_BMP_233Y	13.05	16.68	15.89	13.63	15.9	13.63
RJ0160C	J	LB_BMP_233Y	0	0	15.89	13.63	15.2	11.62
RJ0170A	J	LB_BMP_233Y	13.67	0.92	14.18	14.81	14.18	14.8
RJ0170B	J	LB_BMP_233Y	13.87	6.46	14.18	14.81	14.18	14.8



Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RJ0170D	J	LB_BMP_233Y	14.18	0	14.18	14.81	14.85	13.58
RJ0190A	J	LB_BMP_233Y	14.18	8.29	14.18	14.8	14.85	13.58
RJ0200A	J	LB_BMP_233Y	0	0	15.9	13.63	14.85	13.58
RJ0200B	J	LB_BMP_233Y	17.33	13.64	15.9	13.63	15.2	11.62
RJ0210B	J	LB_BMP_233Y	0	0	15.2	11.62	15.27	10.77
RJ0210C	J	LB_BMP_233Y	0	0	15.2	11.62	14.81	13.5
RJ0210D	J	LB_BMP_233Y	0	0	15.2	11.62	15.9	13.63
RJ0210E	J	LB_BMP_233Y	0	0	15.2	11.62	14.85	13.58
RJ0210F	J	LB_BMP_233Y	15.16	31.56	15.2	11.62	15.27	10.77
RJ0220A	J	LB_BMP_233Y	14.81	0	14.81	13.5	13.47	11.69
RJ0230A	J	LB_BMP_233Y	16.21	2.6	14.85	13.58	14.81	13.5
RJ0230B	J	LB_BMP_233Y	14.93	13.12	14.85	13.58	14.81	13.5
RJ0240A	J	LB_BMP_233Y	12.75	14.29	13.47	11.69	14.43	9.83
RJ0240B	J	LB_BMP_233Y	0	0	13.47	11.69	14.43	9.83
RJ0240D	J	LB_BMP_233Y	0	0	13.47	11.69	15.27	10.77
RJ0250A	J	LB_BMP_233Y	15.15	126.03	14.43	9.83	14.41	9.79
RJ0250B	J	LB_BMP_233Y	15.15	127.51	14.43	9.83	14.41	9.79
RJ0260A	J	LB_BMP_233Y	12.88	3.34	14.42	9.83	14.43	9.83
RJ0260C	J	LB_BMP_233Y	0	0	14.42	9.83	14.43	9.83
RJ0261A	J	LB_BMP_233Y	15.17	254.66	14.41	9.79	13.56	8.94
RK0010A	K	LB_BMP_233Y	27.2	0.02	27.2	15.9	15.48	15.83
RK0010B	K	LB_BMP_233Y	0	0	27.2	15.9	25.83	15.3
RK0010C	K	LB_BMP_233Y	0	0	27.2	15.9	13.7	16.08
RK0020A	K	LB_BMP_233Y	13.7	0.32	13.7	16.08	25.83	15.3
RK0020B	K	LB_BMP_233Y	13.7	0.32	13.7	16.08	16.74	14.64
RK0030A	K	LB_BMP_233Y	15.48	2.96	15.48	15.83	13.22	15.16
RK0030B	K	LB_BMP_233Y	15.48	1.27	15.48	15.83	16.69	14.24
RK0040A	K	LB_BMP_233Y	0	0	25.83	15.3	16.8	15.01
RK0040B	K	LB_BMP_233Y	25.83	0.05	25.83	15.3	16.69	14.24
RK0040C	K	LB_BMP_233Y	0	0	25.83	15.3	15.48	15.83
RK0050A	K	LB_BMP_233Y	14.53	3.73	14.53	15.47	13.22	15.16
RK0060A	K	LB_BMP_233Y	15.28	1.34	15.28	16.14	13.22	15.16
RK0070A	K	LB_BMP_233Y	13.22	11.85	13.22	15.16	16.4	14.16
RK0070B	K	LB_BMP_233Y	0	0	13.22	15.16	12.88	12.36
RK0080A	K	LB_BMP_233Y	0	0	16.8	15.01	16.74	14.64
RK0080B	K	LB_BMP_233Y	16.8	0.07	16.8	15.01	16.69	14.24
RK0080C	K	LB_BMP_233Y	0	0	16.8	15.01	24.16	14.1
RK0090A	K	LB_BMP_233Y	26.68	1.57	16.74	14.64	13.01	12.72
RK0090B	K	LB_BMP_233Y	0	0	16.74	14.64	16.74	14.64
RK0091A	K	LB_BMP_233Y	26.31	1.61	13.01	12.72	13.01	12.72
RK0100A	K	LB_BMP_233Y	0	0	13.17	14.47	12.09	9.95
RK0100B	K	LB_BMP_233Y	13.17	1.15	13.17	14.47	12.09	9.95
RK0100C	K	LB_BMP_233Y	0	0	13.17	14.47	16.4	14.16
RK0100D	K	LB_BMP_233Y	0	0	13.17	14.47	24.16	14.1
RK0100E	K	LB_BMP_233Y	0	0	13.17	14.47	16.74	14.64
RK0100F	K	LB_BMP_233Y	0	0	13.17	14.47	24.16	14.1
RK0110A	K	LB_BMP_233Y	8.25	0	24.16	14.1	24.16	14.1

Long Branch BMP Model Results  
Link Maximum Report Summary

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
-----	-----	-----	-----	-----	-----	-----	-----	-----
RK0110B	K	LB_BMP_233Y	0	0	24.16	14.1	24.16	14.1
RK0110C	K	LB_BMP_233Y	0	0	24.16	14.1	16.74	14.64
RK0130A	K	LB_BMP_233Y	0	0	16.45	14.16	13.17	14.47
RK0130B	K	LB_BMP_233Y	18.53	1.14	16.45	14.16	16.4	14.16
RK0130C	K	LB_BMP_233Y	16.45	1.94	16.45	14.16	24.16	14.1
RK0130D	K	LB_BMP_233Y	0	0	16.45	14.16	13.17	14.47
RK0130E	K	LB_BMP_233Y	0	0	16.45	14.16	16.8	15.01
RK0130F	K	LB_BMP_233Y	0	0	16.45	14.16	16.69	14.24
RK0140A	K	LB_BMP_233Y	12.39	6.82	16.69	14.24	16.4	14.16
RK0140B	K	LB_BMP_233Y	0	0	16.69	14.24	16.4	14.16
RK0150A	K	LB_BMP_233Y	16.25	0.06	16.4	14.16	16.45	14.16
RK0150B	K	LB_BMP_233Y	16.4	11.44	16.4	14.16	48	9.61
RK0150C	K	LB_BMP_233Y	0	0	16.4	14.16	48	9.61
RK0160A	K	LB_BMP_233Y	12.09	7.38	12.09	9.95	48	9.61
RK0160B	K	LB_BMP_233Y	0	0	12.09	9.95	48	9.61
RK0160C	K	LB_BMP_233Y	0	0	12.09	9.95	24.32	12.78
RK0160D	K	LB_BMP_233Y	0	0	12.09	9.95	13.88	12.7
RK0161A	K	LB_BMP_233Y	13.7	0.01	48	9.61	48	10.61