Final Drainage Report
Monument Ridge East – Filing No. 1
El Paso County, Colorado

Prepared for:

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May 11, 2026

SF-25-14

ENGINEER'S STATEMENT:

The attached drainage plan and report were prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said drainage report has been prepared according to the criteria established by El Paso County for drainage reports and said report is in conformity with the master plan of the drainage basin. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing this report.



Signature: _____ Date: May 11, 2026

Raymond Perez, III, PE
Registered Professional Engineer State of Colorado

DEVELOPER'S STATEMENT:

I, the owner/developer, have read and will comply with all of the requirements specified in this drainage report and plan.

Name of Owner/Developer: **Monument Ridge East, LLC**

Authorized Signature: _____Date: _____

Title: Owner

Address: 5055 List Drive
Colorado Springs, CO 80919

EL PASO COUNTY:

Filed in accordance with the requirements of the Drainage Criteria Manual, Volumes 1 and 2, El Paso County Engineering Criteria Manual and Land Development Code as amended.

_____ _____

County Engineer – Joshua J. Palmer, P.E. Date

Conditions:

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I. INTRODUCTION

A. Purpose

The purpose of this Final Drainage Report for the Monument Ridge East – Filing No. 1 (hereinafter referred to as the "Project") is to identify major drainageways, detention areas, locations of culverts, open channels and drainage areas contained within and adjacent to the proposed development and quantify and evaluate the impacts of stormwater runoff generated by this project and to provide adequate water quality/detention treatment and flow conveyance. This study has been prepared with the goal that any permanent stormwater infrastructure (e.g. – pipe, inlets, ponds, etc.) being constructed with this first filing ("interim" condition) will be adequate for subsequent site development (i.e. – "future" condition). The future development assumptions contained herein are based on the best available information known to exist at the time this report was prepared.

B. Drainage Basin Planning Study

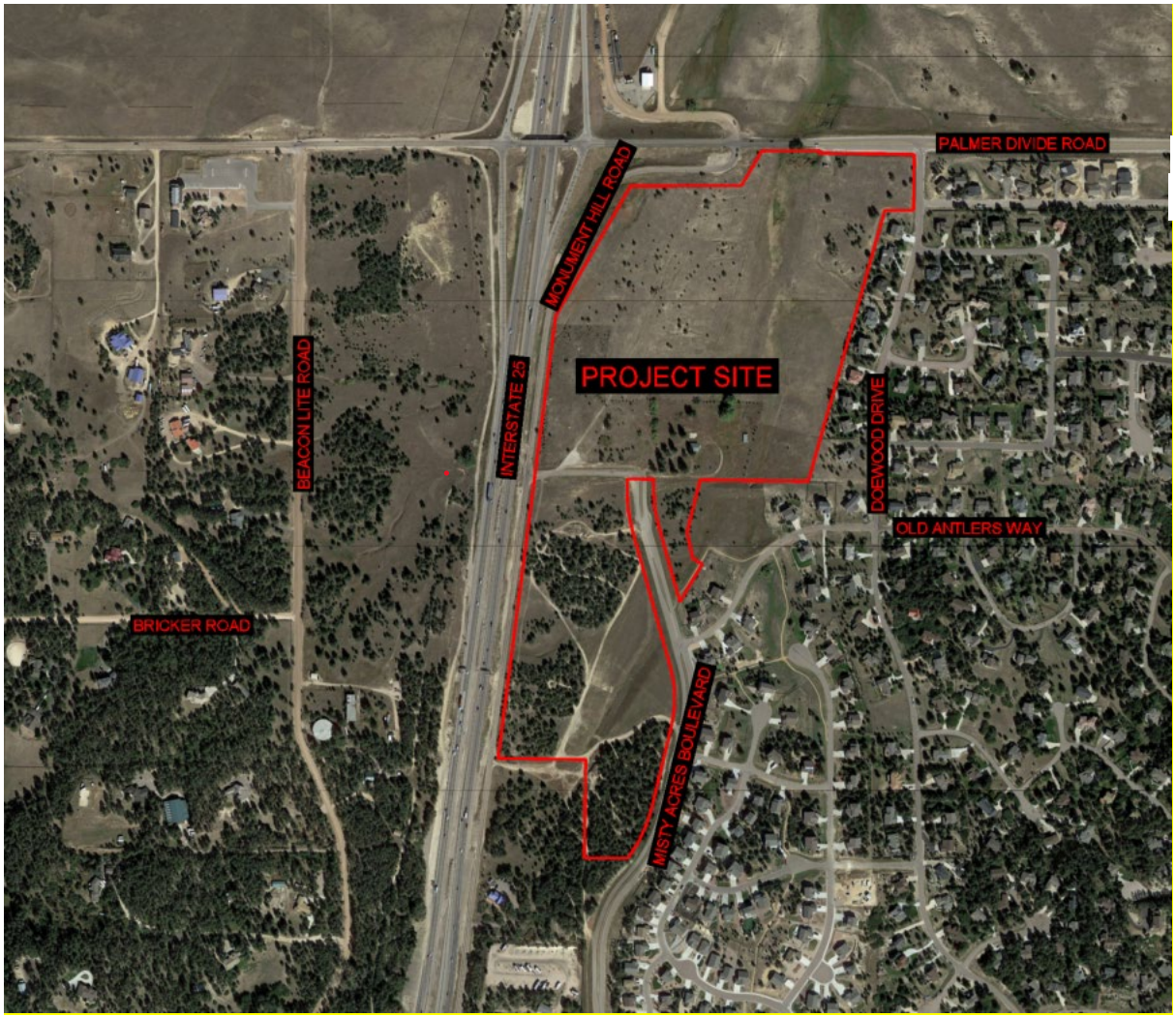
The project is adjacent to the Misty Acres development. The Misty Acres development area has been studied in the past since 2001. There is no known master drainage study on file that encompasses the entire project area (Bald Mountain watershed). Refer to the references listing for Misty Acres development record reports used.

C. General Project Description

This project is in El Paso County, Colorado. Access to the site is from Palmer Divide Road (aka – County line road). It is located in Section 2, Township 14 south, Range 67 west of the 6th Principal Meridian. A vicinity map is provided below in Figure 1 on the following page.

Figure 1 – Vicinity Map

(Source: Google Earth Imagery 2019)



The Project is a single-family development. The project will consist of single-family homes and associated site elements typical of residential development (e.g. – roadways, buildings, walkways, parks/open space, detention/water quality ponds etc.) The proposed development area is currently undeveloped with the exception of Misty Acres Boulevard on the south side of the site. The site is bounded by the north by existing Palmer-Divide Road to the east by Doewood Drive and Misty Acres Boulevard, to the west by Interstate 25.

D. Data Sources

General

The base mapping (including topography) and structure inventory was provided by Bear Creek Surveying, Inc. (now Colorado ILC Surveying). The field survey was conducted in the fall of 2022. To date there have been no environmental or geotechnical studies performed for the Project. Soils information is provided in section II.B. Additional topography for areas outside of the topographic survey was obtained from the Colorado Water Conservation Board (CWCB). CWCB topography consists of Digital Elevation Model (DEM) 2ft contours and 5ft contours. The 2' contours were used for off-site basin delineation. The 5ft contours were used in the drawings for the "overall" mapping.

E. Applicable Criteria and Standards

The hydrologic and hydraulic analysis performed in this report utilizes The City of Colorado Springs Drainage Criteria Volumes 1 (revised January 2021) & 2 (revised December 2020), hereinafter referred to as the CSDCM. In addition to the City Criteria Manual, the Urban Storm Drainage Criteria Manual (USDCM), Volumes 1-3, published by the Mile High Flood District (MHFD), latest updates, have been used to supplement the Drainage Criteria Manual for water quality capture volume (WQCV). Also, the El Paso County Drainage Criteria Manual and updates were incorporated. Stormwater runoff was determined using the Rational Method and was calculated for existing and proposed conditions for the 10-yr (minor) and 100-yr (major) recurrences.

II. PROJECT CHARACTERISTICS

A. Drainage Basin Planning Study Compliance

There is no Drainage Basin Planning Study of record that encompasses this project. All developed runoff from the site will be detained and released at pre-development peak rates, and the water quality capture volume will be treated. Detention and water quality were determined by the MHFD detention spreadsheet UD-Detention v4.04.

B. Land Features

1. Vegetation

Ground cover primarily consists of bare ground, sparse vegetation, and trees.

2. Soils

The general topography of the land slopes to the north. According to the Natural Resources Conservation Service (NRCS), the soils in this area can be classified as a Hydrologic Soil Group (HSG) Types B and D. This is used to predict storm water runoff rates. A soils report and map describing the HSG's and other soils

properties are provided in Appendix A. For the purposes of this report each basin defined has had runoff coefficients adjusted accordingly using the soils report and map.

3. Water Quality

There are no known existing water quality features located on the property.

4. Floodplain

Per the Flood Insurance Rate Map Numbers 08041C0065G and 0804C0276G, El Paso County, Colorado, Revised December 7, 2018, Federal Emergency Management Agency (FEMA) no portion of Monument Ridge East lies within the designated 100year floodplain. A FIRMette of the project area is included in Appendix A.

C. Existing and Proposed Land Uses

Presently, the site is unplatted and consists of undeveloped land. Monument Ridge East – Filing No. 1 is a proposed single-family residential development with associated streets and detention/water quality ponds.

III. HYDROLOGIC ANALYSIS

A. Rational Method

1. Method of Analysis

Storm sewer sizing for this project uses the Rational Method as recommended by the DCM for minor (10 year) and major (100 year) storms for drainage basins less than 100-acres in size.

The Rational Method uses the following equation:

$Q=C*I*A$

Where:
Q = Maximum runoff rate in cubic feet per second (cfs)
C = Runoff coefficient
I = Average rainfall intensity (inches/hour)
A = Area of drainage sub-basin (acres)

2. Runoff Coefficient

Coefficients from Table 6-6 of the EPC DCM Volume 1 update for developed land were utilized in the Rational Method calculations. See Appendix B for more information.

3. Time of Concentration

The time of concentration consists of the initial time of overland flow and the travel time in a hydraulic conveyance feature to a design point or similar location of interest. A minimum time of concentration of 5 minutes is utilized for urban development.

4. Rainfall Intensity
   The rainfall depths for the 1-hour storm duration were taken from Table 6-2 of the Colorado Springs Drainage Criteria Manual.

B. Storm Water Management Model (SWMM) Methodology

The EPC DCM requires the use of the EPA-SWMM modeling program to design and analyze detention for the site when the ponds treating and detaining water for the project are in series. The El Paso County engineering department requested a SWMM model to ensure the ponds do not affect each other so the system can function adequately and meet all pond requirements (e.g. – release rates, storage volumes, etc.) as well as storm pipe requirements (e.g. – adequate capacity, acceptable velocities, etc.). The model was created using pipe sizes and vertical and horizontal geometry from rational method computations as well the tributary basins converted into SWMM format for the determination of SWMM shape parameters. Refer to appendix. After creating the model and running the analysis, it was determined that the connected ponds do interact with each other (i.e. – backwater effects), but there were no negative impacts to the system pipe or ponds with the exception of two pipe runs immediately downstream of pond 2 (upsize 24" to 36") and one of the project outfall culverts (upsize 48" to 54"). Refer to pages 775 to 807 for pond release compliance data.

1. Runoff Analysis
   Runoff within the SWMM model is analyzed using the Horton Method as recommended in the DCM and Chapter 6 of the MHFD Drainage Criteria Manual, Volume 1 (See table 6-7 below). Please note that the MHFD lists the decay coefficient in units of 1/s, and SWMM requires an input in units of 1/hours, so the Decay Coefficient is multiplied by a constant of 3600 before input to SWMM.

Table 6-7. Recommended Horton's equation parameters

NRCS Hydrologic Soil Group	Infiltration (inches per hour)		Decay Coefficient—a
	Initial—f_i	Final—f_o	
A	5.0	1.0	0.0007
B	4.5	0.6	0.0018
C	3.0	0.5	0.0018
D	3.0	0.5	0.0018

2. Rainfall Events
   Rainfall event hydrographs created using the El Paso County rainfall depths and the distribution described in the El Paso County DCM.

C. Basin Hydrology – Existing Conditions

This project is located in the Bald Mountain major drainage basin. It is our understanding there is no Drainage Basin Planning Study (DBPS) on file that encompasses this project. Therefore, this project area is considered "unstudied" from a master drainage analysis perspective.

Stormwater runoff from the project generally flows to the north and ultimately discharges into an unnamed drainage way. Eleven (11) basins were delineated for this analysis. The aforementioned MDDP for Monument Ridge East contains the existing mapping and support calculations. There have been no changes in the existing conditions and therefore that information has not been included in this report. However, to aid review and for comparison purposes, the MDDP existing conditions map has been included.

D. Basin Hydrology – Interim Conditions

Stormwater runoff from the project generally flows to the north and ultimately discharges into a wetlands depression area south of and adjacent to Palmer Divide Road. Proposed grading of the site will generate sixteen (16) on-site basins and ten (10) off-site basins. Refer to the developed conditions map in Appendix D. All proposed storm piping, inlets and manholes within public right-of-way be publicly owned and maintained. All other proposed storm system elements will be privately owned and maintained. All public storm pipes will be RCP.

Which ones? All of them?

A groundwater determination has been made, and it appears that there are areas on site in locations where ponds will be built which have shallow groundwater. For permanent mitigation of groundwater entering the pond facility, a clay liner will be required on the bottom and side slopes. Refer to the geotechnical engineering report for the project for additional information related to the liner requirements.

The following Design Point narratives reflect the rational method peak flows and the associated routing as shown in the routing summary of this report (see appendix) which was submitted prior. The only difference is the flow values noted in the narratives are different for the systems with ponds connected in series due to the dynamic system computations in the SWMM program mentioned above.

Design Point F1 (Q10=9.9cfs, Q100=28.6cfs) flows are generated from basins MO2 (0.51ac) and AA (15.16ac). Basin MO2 consists of a small portion of the I25 roadway corridor. Basin AA consists of an offsite undeveloped parcel as well as undeveloped onsite areas. Runoff from basin MO2 enters the site via an existing 36" pipe and then combines with runoff from basin AA and then travels to a proposed low point where it will be captured by two 12' D-10-R sump inlets. Flows from this point will be routed to the north into pond 1.

Yet the forebay calcs only show 3.8ac trib to this point. Please correct this discrepancy.

This has not been provided in the Soils Report, please add. Plus details are needed in the CDs for the clay liner.

Design Point F2 (Q10=2.0cfs, Q100=6.7cfs) flows are generated from basin BB (2.74ac). Basin BB consists of undeveloped land. Runoff from basin BB travels to a proposed culvert at Design Point F2 and is routed north under the road via a culvert into proposed pond 1 after collecting flows in a proposed depression area.

Design Point F3 (Q10=14.4cfs, Q100=38.0cfs) flows are generated from Design Point F1 and F2 runoff. Basin CC (1.03ac) consists of pond 1 itself. The MHFD UD-Detention spreadsheet was used for sizing. The proposed detention and water quality ponds herein have been designed to accommodate the proposed condition as well as the future (MDDP) condition. A private full spectrum extended detention basin (EDB) is proposed at this location. The proposed on-site imperviousness contributing to this pond has been calculated to be 9.41%. The ponds' tributary area equals 19.44 acres. The pond facility will provide ~1.4acre-ft of detention volume and ~0.1acre-ft of WQCV. The EDB will have forebays, a maintenance access road, concrete trickle channel, micro pool and an outlet structure retrofitted at the end of one of the existing 48" culverts under Misty Acres Boulevard. The other 48" culvert will be capped on each end and abandoned. The full-spectrum EDB will have a rip rap emergency overflow spillway that will drain the 100yr peak flows in the event the outlet structure becomes entirely clogged and another 100yr event passes. The spillway (60lf crest) will be constructed of type VL soil rip rap. A minimum of 1.0' of freeboard will be provided. The spillway will be situated such that any overflow will be directed to a low point in Misty Acres Boulevard, Design Point F4C. Refer to the design calculations in Appendix B for additional pond design information.

Design Point F4A (Q10=3.3cfs, Q100=5.7cfs) flows are generated from basin MO3 (1.36ac). Basin O3 consists of a single lot and undeveloped land on the west side of the interstate. Runoff from this basin travels east via an existing 36" RCP connecting to an existing CDOT grated inlet at Design Point F4B.

Design Point F4B (Q10=3.0cfs, Q100=4.9cfs) flows are generated from basin MO4 (0.74ac). Basin O4 consists of Interstate 25 and Monument Hill Road. Runoff from this basin travels easterly overland to through basin DD prior to reaching design point F4C.

Design Point F4C (Q10=19.0cfs, Q100=42.9cfs) flows are generated from basin MO4 and basin DD (12.75ac). Basin MO4 consists of a small portion of interstate 25. Basin DD consists of undeveloped land. Runoff from this basin travels to a proposed low point where it will be captured by two 8' D-10-R sump inlets. Flows from this location will be routed to the north via a proposed storm pipe. It is noteworthy to mention that in the interim condition, more flow will be routed to this

location due to the size of basin DD. The inlets and storm pipe system have been designed using these larger flow values.

Design Point F5 (Q10=3.6cfs, Q100=7.0cfs) flows are generated from basin EE (1.81ac). Basin EE consists of Monument Hill Road which is proposed to be re-aligned to connect with Misty Acres Boulevard. Runoff from this basin travels easterly via curb and gutter to an inlet where flow is captured. Flows are then routed in a pipe system which connects with the pipe from Design Point F4C. Flows are then routed to pond 2.

Design Point F6 (Q10=28.1cfs, Q100=64.0cfs) flows are generated from Design Points F4C and F5 as well as basin GG (4.90ac). Basin GG consists of pond 2 itself along with undeveloped land. A private full spectrum extended detention basin (EDB) is proposed at this location. The proposed on-site imperviousness contributing to this pond has been calculated to be 18.35%. The ponds' tributary area equals 22.36 acres. The pond facility will provide ~1.1acre-ft of detention volume and ~0.2acre-ft of WQCV. The EDB will have forebays, a maintenance access road, concrete trickle channel, micro pool and an outlet structure. The full-spectrum EDB will have a rip rap emergency overflow spillway that will drain the 100yr peak flows in the event the outlet structure becomes entirely clogged and another 100yr event passes. The spillway (35lf crest) will be constructed of type VL soil rip rap. A minimum of 1.0' of freeboard will be provided. The spillway will be situated such that any overflow will be directed on the north side of the pond such that overflow would be directed north to a low point in Misty Acres Boulevard, Design Point F7. Refer to the design calculations in Appendix B for additional pond design information.

Design Point F7 (Q10=14.9cfs, Q100=31.9cfs) flows are generated from basins FF (0.80ac) and HH (8.56ac). Basin FF consists of flows from undeveloped land. Basin HH consists of undeveloped land and a portion of Misty Acres Boulevard. Runoff from this basin travels to a proposed low point where it will be captured by two 16' D-10-R sump inlets. Flows from this location will be routed to the east into proposed pond 4 at Design Point F15. In the event clogging occurs, flows will overtop the roadway and enter pond 4.

Design Point F8 (Q10=1.5cfs, Q100=3.1cfs) flows are generated from basin II (0.90ac). Basin II consists of a small portion of Misty Acres Boulevard and undeveloped land to the west. Similar to Design Point F7, flows from the roadway are being captured by a 10' D-10-R at-grade inlet and routed to pond 4 for detention and water quality treatment.

Design Point F9 (Q10=59.2cfs, Q100=118.3cfs) flows are generated from pond 1 outflow and basin MO5 (60.15ac). Flows reaching this location (Misty Acres Filing No. 1 pond facility) are less than what was determined in the filing no. 1 report. The report planned on an inflow value of Q10=138cfs and a Q100 value of 301cfs with flow attenuation of Q10=58cfs and Q100=130cfs. This report has calculated inflow values of Q10=106cfs and Q100=203cfs which yields outflows of Q10=59cfs and Q100=118cfs. The reason for the difference is that areas planned to route runoff to the pond in filing no. 1 report are now being routed to the projects' pond 1. The existing pond was not designed to provide water quality and as such cannot be used for the projects water quality requirement. Therefore, this flow will be routed around the development along the east side of basins MD2 and ME therefore bypassing the proposed project site. The existing 48" RCP outfall pipe is undersized to capture and convey flows northerly under the proposed roadway and therefore must be upsized to a 54" RCP. The overflow path for this pond will be the roadway in which flows will be routed away from homes.

Design Point F10 (Q10=0.8cfs, Q100=2.4cfs) flows are generated by basin MO6 (0.63ac). Basin MO6 consists of an area that will be routed to a proposed grated inlet which sits above the proposed existing ponds' outfall extension pipe. This pipe is needed to route flow around the project and into the wetlands depression area as it is now being routed to. Due to the amount of flow planned to be released per the Misty Acres report) the pipe system needs to be sized according to the grades which the pipe will flow at. The computed pipe size from Design Point F10 to Design Point F12 is 54". The overflow path for this Design Point is the roadway itself. Overflow runoff will proceed northerly ultimately reaching Design Point F14 which is the low point adjacent and contributing flow to extended detention basin no. 4. Overflow at this low point will overtop the road and enter the pond directly.

Design Point F11 (Q10=102.6cfs, Q100=211.4cfs) is located where flow from the east, basins (MO7a and MO7b) enter the site. A proposed collection structure will be provided to capture and route flows via a 54" RCP ultimately discharging to the depression area, after combining with flows from the south. The collection structure will be in the form of a concrete channel 15' wide at the top, 3' bottom, 1.5:1 side slopes, 4' depth. It will have a slope of 0.5% to the triple CDOT Type D inlets, located in a sump condition. A 90' length of the collection structure has been conservatively set to capture the aforementioned flow from the east. Refer to calculations in the appendix and see construction documents for additional information.

Design Point F12 (Q10=161.6cfs, Q100=324.5cfs). The proposed 54" RCP pipe coming from the existing Misty Acres Filing No. 1 Pond (aka – Bald Mountain pond) will enter the structure from the south. Flow will be captured in a collection

structure (DP F11) and combine with that from Design Point F10. The collection structure will have an emergency spillway to route major storm flows to the west via a swale constructed between the adjacent lots. The swale will be 3' deep, 3:1 side slopes, with a bottom width of 16' and a slope of 0.5%. The velocity is 4.2ft/s which is under the 5ft/s erosivity threshold. Emergency overflow will then be routed to the west via the street corridor ultimately reaching pond 4.

Due to the amount of flow anticipated from basins MO7a and MO7b (Q100~211cfs) combined with that expected from the Misty Acres pond (Q100~118cfs) (aka – Bald Mountain Pond) for a total flow of ~329cfs, a 78" pipe is needed. The 78" pipe will route flows into the existing depression area thereby bypassing all offsite flows around the project. Due to the amount of flow and the likelihood of scouring to occur at the outfall location, energy dissipation will be required. This will be in the form of a riprap apron 65ft long and 28ft wide. Riprap will be type H (d50=18"). Refer to calculations for additional information.

Design Point F13 (Q10=15.6cfs, Q100=29.8cfs) flows are generated from a portion of basin MD2 (12.16ac). Basin MD2 consists of single-family home sites. Runoff from this basin travels north via curb and gutter to two 12' D-10-R at-grade inlets where flow is captured. Flows are then routed via pipe to Design Point F14.

Design Point F14 (Q10=12.3cfs, Q100=23.4cfs) flows are generated from a portion of basin MD2 (12.16ac). Runoff from this basin travels north and then west via curb and gutter to two 12' D-10-R sump inlets where flow is captured. Flows are then routed via pipe to proposed pond 4 (south) at Design Point F15 after combining with flows from Design Point F13.

Design Point F15 (Q10=37.9cfs, Q100=74.9cfs) is composed of the southern basin of the pond 4 facility, basin MD5 (1.58ac). Flow routed to this location will be routed to the north into the upper portion of the pond via a flat 36" pipe thereby combing the two areas into one facility. The connecting pipe is sized such that there is no backwater effect and captured runoff will flow freely to be detained and treated in the north basin. The reason for this approach is due to the existing wetlands adjacent to the pond and the distance from the Misty Acres Boulevard connection to Palmer Divide Road being so close. To minimize wetlands disturbance, the pond has been located along its western edge. This creates a configuration that necessitates two depression areas which as stated above will be connected by a pipe and will function like a normal water quality and detention facility.

Design Point F16 (Q10=41.1cfs, Q100=82.4cfs) flows are generated from Design Points F8 and F15. Basin MD5 (1.58ac) consists of pond 4 itself. A private full

spectrum extended detention basin (EDB) is proposed at this location. The proposed on-site imperviousness contributing to this pond has been calculated to be 35.84%. The ponds' tributary area equals 23.20 acres. The pond facility will provide ~1.5acre-ft of detention volume and ~0.3acre-ft of WQCV. The EDB will have forebays, a maintenance access road, concrete trickle channel, micro pool and an outlet structure. The full-spectrum EDB will have a rip rap emergency overflow spillway that will drain the 100yr peak flows in the event the outlet structure becomes entirely clogged and another 100yr event passes. The spillway (50lf crest) will be constructed of type VL soil riprap. A minimum of 1.0' of freeboard will be provided. The spillway will be situated such that any overflow will be directed to a swale that runs along the south side of Palmer Divide Road, ultimately outfalling into the wetlands depression area. Refer to the design calculations in Appendix B for additional pond design information. Flows released from the pond will be routed to the north into the bypass pipe system at Design Point F17.

Design Point F17 (Q10=25.7cfs, Q100=67.2cfs) is a junction structure which connects system outflows from pond 2 with pond 4. This bypass system outfalls into the wetland depression area.

Design Point F18 (Q10=9.3cfs, Q100=17.4cfs) flows are generated from basin ME (3.21ac). Basin ME consists of single-family residential home sites as well as pond 5 itself. Flow will be captured by one 16' D-10-R sump inlet. A private full spectrum extended detention basin (EDB) is proposed at this location. The proposed on-site imperviousness contributing to this pond has been calculated to be 48.40%. The ponds' tributary area equals 3.21 acres. The pond facility will provide ~0.23acre-ft of detention volume and ~0.05acre-ft of WQCV. The EDB will have forebays, a maintenance access road, concrete trickle channel, micro pool and an outlet structure. The full-spectrum EDB will have a rip rap emergency overflow spillway that will drain the 100yr peak flows in the event the outlet structure becomes entirely clogged and another 100yr event passes. A spillway with a 5lf wide crest length will be constructed and will have a type VL soil rip rap on the downhill side. A minimum of 1.0' of freeboard will be provided. The spillway will be situated such that any overflow will be directed north into a vacant parcel, ultimately outfalling into the wetlands depression area. Refer to the design calculations in Appendix B for additional pond design information.

Design Point F19 (Q10=161.6cfs, Q100=324.5cfs) is where pond 5 will discharge after being routed through a proposed retaining wall. At this outfall location, an energy dissipation feature is required in the form of a riprap apron which will be 65ft long and 28ft wide. Riprap will be d50=18" (type H) with a thickness of 36".

Design Point F20 (Q10=4.7cfs, Q100=8.0cfs) flows are generated from basin MO8 (1.38cfs). Design Point F20 is shown to represent where runoff from single-family residential home sites to the east crosses over the Palmer Divide roadway. Field

evidence reveals a roadside swale on the south side of Palmer Divide Road that has very little capacity as it approaches Doewood Drive. Under Doewood Drive, there is an existing 24" RCP that seems to convey flow only from basin MO8. Basin MO8 consists of single-family residential development. The amount of flow anticipated from the east side of the projects study is assumed to be very large. Due to the current swale geometry and grades at the Doewood intersection, it is assumed the runoff overtops Palmer Divide Road during even minor storm events and is directed to the north. For this reason, no anticipated flow besides that of basin MO8 is anticipated to enter into basin JJ.

Design Point F21 (Q10=200.7cfs, Q100=420.3cfs) flows are generated from the projects' four ponds as well as the existing Misty Acres Filing No.1 pond (aka – Bald Mountain pond) and offsite basins. Flows reaching this location are approximately on the order of ~420cfs during the 100yr event. The existing condition flows have been calculated to be ~488cfs during the 100yr event. Therefore, this project releases ~68cfs less during the 100yr event. Also, it is noteworthy to mention that off-site basins MO7a and MO7b have ponds located within their development areas. These have not been considered in this report as a conservative measure. El Paso County requires a maintenance agreement for private flows being discharged in El Paso County right of way at this location. This agreement will be created and approved prior to construction.

Design Point F22 (Q10=200.7cfs, Q100=420.3cfs) is the outfall from the existing 48" RCP and the addition of 1-48" RCP and 1-54" RCP. The major and minor storm events will be adequately captured and conveyed beneath Palmer Divide Road with this addition of two culverts. At the outfall location there will need to be energy dissipation provided. A riprap apron is planned at this location which will be 40ft long and 42ft wide). Riprap will be d50=18" (type H) with a thickness of 36". An easement will be provided for temporary construction use and a permanent maintenance easement (Monument Ridge Metropolitan District) will be provided for the energy dissipation feature limits. Since the proposed peak runoff (420.3) has been determined to be less than the existing flow values (488cfs) and the road will no longer overtop, the proposed condition should minimize maintenance and safety risks along with infrastructure loss (i.e. – roadway features). Refer to plat of survey and construction documents for additional information.

Design Point F23 (Q10=1.2cfs, Q100=2.9cfs) flows are generated from basin KK (0.92ac). Basin KK is undeveloped land with a small portion of the east side of Monument Hill Road. Runoff from this basin is captured by an existing inlet. Flow is then routed to the north via an existing 18" RCP in which it will connect up to a proposed 18" RCP.

Design Point F24 (Q10=1.2cfs, Q100=2.3cfs) flows are generated from basin LL (0.51ac). Basin LL is undeveloped land with a small portion of the east side of

Monument Hill Road. Runoff from this basin is captured by two 4' D-10-R sump inlets. Flow is then routed to the north via a proposed 18" RCP after combining with flows from Design Point F23.

The pipes and collection structures for pipes associated with Design Points 25 thru 29 have subsequently been analyzed in greater detail than found in this report. Tributary basins to these design points have been changed as a result of the "Beacon Lite Road Final Drainage Report". The Beacon Lite Road report contains the latest analysis for the associated design point system elements. Refer to the report prepared by PRC Engineering, dated March 8, 2026 for more information.

Design Point F25 (Q10=40.8cfs, Q100=113.3cfs) flows are generated from basin MO10 (60.47ac). Basin MO10 of undeveloped land and large lot single family development as well as a portion of Interstate 25. Runoff from this basin travels overland easterly to an existing 48" CMP which outfalls on the east side of Interstate 25 into basin MO11 at Design Point F26.

Design Point F26 (Q10=12.4cfs, Q100=20.1cfs) flows are generated from basin MO11 (3.00ac). Basin MO11 consists of Interstate 25 and Monument Hill Road. Runoff from this basin travels easterly to an existing inlet and storm pipe located within basin MO11. Flow is then routed to Design Point F27 via an existing storm pipe.

Design Point F27 (Q5=40.8cfs, Q100=124.4cfs) consists of an outfall from basins MO10 and MO11. In the future, the proposed site is lower than the outfall and therefore a broad grass lined swale will be constructed to route flows towards Design Point F28 if needed. At this time, a swale is not warranted.

Design Point F28 (Q5=57.9cfs, Q100=150.5cfs) flows are generated from Design Point F23, F24 and F27 runoff and basin MM (10.31ac). Basin MM consists of a portion of existing Palmer Divide Road and undeveloped land. Flow is conveyed under Monument Hill Road via an existing 48" RCP towards Design Point F29.

Design Point F29 (Q5=65.4cfs, Q100=164.7cfs) flows are generated from basin MO13 (4.66ac). Basin MO13 consists of Interstate 25, an off-ramp and interchange gore areas. Runoff from this basin travels overland northeasterly via a broad grass lined swale to an existing 48" RCP which outfalls on the north side of Palmer Divide Road. Regrading the swale to the east is necessary to ensure flows east of the culvert drains to this location.

A summary of the basin runoff coefficients, peak flow rates and hydrologic analysis support calculations are provided in Appendix B.

E. Water Quality – 4 Step Process

Four-Step Process

El Paso County requires the MHFD Four Step Process for receiving water protection that focuses on reducing runoff volumes, treating the water quality capture volume (WQCV), stabilizing drainageways, and implementing long-term source controls.

Step 1: Runoff Reduction Practices

This development address Low Impact Development strategies primarily through the utilization of landscape buffers, located in areas adjacent to the building and parking lot areas of the site. Runoff is routed over these grass areas via unconcentrated sheet flow prior to being conveyed to water quality and detention facilities.

Step 2: Implement BMPs - Water Quality Capture Volume with Slow Release

On-site flow is directed to four private full-spectrum extended detention basins. These facilities provide Water Quality Capture Volume (WQCV) required for the site by releasing flows over a longer period of time. The proposed facilities meet or exceed the DCM standards for the release rates of full-spectrum detention ponds for water quality capture volumes. Due to the size of the watershed tributary to each pond and the resultant anticipated flow rates, infiltration practices cannot be implemented with the exception of pond 5. However, pond 5 has been designed as an EDB even though the tributary area (1.55ac) which is below the 2ac threshold for infiltration PCM use. Given the space constraints and potential for groundwater intrusion or groundwater being shallow and therefore creating an issue with percolation, an EDB was chosen.

Step 3: Stabilize Drainageways

All the flows generated from impervious portions of this site will be routed to private water quality and detention facilities. These flows will combine with flows from other areas adjacent to the site and discharge into a wetlands depression area at the north end of the project. Only minor channel improvements in basin O13 and JJ are being proposed with this development.

Step 4 – Implement Site Specific and Other Source Control BMPs

To adhere to the County's Municipal Separate Storm Sewer System (MS4) requirements, temporary construction BMP's and permanent post construction BMP's will be implemented to reduce the potential of pollutants entering the creek. The implementation of these BMP's will be provided in the Grading, Erosion and Stormwater Quality Control Plan and Stormwater Management Plan for the site. The Stormwater Management Plan also addresses structural and procedural

source control BMP's such as materials storage and spill prevention, containment, and control, etc. during construction to protect downstream receiving waters. Refer to the Stormwater Management Plan for this site for additional source control BMP information specific to this site. If deemed necessary, site specific source controls including covering storage/handling areas and spill containment will be used.

Show this on the CDs

F. Water Quality Improvements

The proposed full-spectrum extended detention basins have been analyzed in this study based on the interim site conditions as shown on the Developed Conditions Drainage Maps. To ensure the proposed facilities will not have to be removed and/or replaced when the future filings develop, calculations for the future condition have been made. The only anticipated modifications of the infrastructure will be the outlet structure orifice plate and restrictor plate as well as forebay notch widths. Forebays are being constructed now versus adding them later. The forebays will be constructed with metal notches for those with different flow rates in the future. One forebay will not receive any flow at this time, pond 1-A. However, it was designed for future conditions. In the future the plates can be removed and replaced as needed. Those items are dependent on the tributary area and percentage of imperviousness, which varies between the interim and future phase(s) of development.

Full Spectrum Extended Detention Basins

For the purpose of this report, detailed pond designs were conducted based on anticipated future development. As such, the MHFD UD-Detention spreadsheet was used for approximate sizing. Private full spectrum extended detention basins (EDB) are proposed at various locations in the site. The EDB's will have forebays, maintenance access roads, concrete trickle channels, micro pools and outlet structures.

The full-spectrum EDB's will have soil rip rap emergency overflow spillways that will drain the 100yr peak flows in the event the outlet structure becomes entirely clogged and another 100yr event passes. The spillways will be constructed of soil rip rap. A minimum of 1.0' of freeboard will be provided. The spillway will be situated such that any overflow will be directed away from homes. Refer to the design calculations in Appendix B for additional information.

IV. HYDRAULIC ANALYSIS

Pipe and Inlet Calculations

Filing No. 1 is being developed at this time matching the MDDP on the east side of Misty Acres Boulevard with slight modifications from analysis refinement. On the west side, only a few dead-end streets and two ponds are being constructed at this time.

As such, some of the pipes will be dry since they are stubs for future development (see pipe table in appendix B) while others convey flows less than those computed in the MDDP. The pipe sizes used in this report were based on the sizing calculations using the anticipated future development layout, not the interim development, except in one location (Design Point F4C) when more flow will enter the system than it will in the future. Pipe (hydraulic grade line) and inlet calculations have been provided with this report. The additional flow has been considered but will result in the minor storm HGL to be above 80% pipe depth. This will be a temporary condition until such time as the remainder of the project is developed. Flooding will not occur in the interim condition i.e. - HGL at least one foot below final grade. The HGL calculations for the pipe systems upstream of the ponds (which do not connect to a downstream pond) have been included in the report. The HGL's are valid for those systems. For the remainder of the systems, an HGL cannot be provided as the SWMM model dynamically determines the flow and resultant water surface for the duration of the storm event. Therefore, the EPA-SWMM model itself must be used to view the dynamic flow and water surface in the pipe systems. Using the rational method pipe sizes and slopes and the upsized pipes mentioned above, the pipes adequately convey the flows to and from the ponds and meet the DCM requirements. The HGL's computed with the rational method inputs have all been included in this report. As stated prior, the HGL computations for the pipe systems upstream which do not connect ponds are valid. The others pipe systems can only be checked using the model.

A. Maintenance Requirements

The on-site full-spectrum ponds and storm sewer not in El Paso County right-of-way) outlined in this report shall be owned and maintained by the metropolitan district. Regular maintenance of stormwater facilities is essential to ensure long term functionality and effectiveness. The proposed pipes, inlets, manholes, along with the full-spectrum detention and water quality facilities should be inspected regularly, and after significant rainstorms, to verify functionality, document erosion, and remove sediment and debris. Refer to the project's Inspection and Maintenance (IM) Plan for additional information.

The following is a list of recommendations regarding drainage around structures:

- Maintain positive drainage away from all structures at all locations.
- Adhere to guidelines outlined in the geotechnical report (if one has been completed); otherwise refer to the latest International Residential Code (IRC) book.
- Avoid grading low points adjacent to any structures.

The proposed storm sewer facilities located within street right-of-way outlined in this report shall be owned and maintained by El Paso County.

B. Grading and Erosion Control Plans

Grading and Erosion Control Plans will be submitted separately.

V. FEE DEVELOPMENT

Bald Mountain drainage basin has drainage fees of $13,262/ac. There are no bridge fees. Therefore, the fee based on filing no. 1 plat of survey acreage of 66.12acres is $876,883.44.

VI. SUMMARY

This Final Drainage Report for Monument Ridge East – Filing No. 1 was prepared using the City of Colorado Springs Drainage Criteria Manuals, MHFD Urban Storm Drainage Criteria Manuals and the El Paso County DCM Volume 1 updates. Stormwater quality is provided by proposed private full spectrum extended detention basin facilities located on-site. Stormwater infrastructure in the form of pipe, inlets and ponds have been designed to accommodate future anticipated project site development. Site runoff, storm drain, and associated appurtenances will not adversely affect the downstream and surrounding developments. This report is in general conformance with all other previously approved reports which included portions of this site.

VII. REFERENCES

1. Drainage Criteria Manual, Volume I (revised January 2021) and Volume II (revised December 2020), City of Colorado Springs
2. Urban Storm Drainage Criteria Manual, Volumes I-III, Mile High Flood District (MHFD).
3. El Paso County Drainage Criteria Manual Volume 1 update, El Paso County Municode web site
4. El Paso County Engineering Criteria Manual, Drainage Criteria Manual Volume 2, Appendix I.
5. Monument Ridge East, Master Development Drainage Plan, 2024, PRC Engineering
6. Misty Acres Subdivision Filing No. 1, Final Drainage Report, 2002, Kiowa Engineering Corporation
7. Misty Acres Ranch, Master Development Drainage Plan, 2001, Kiowa Engineering Corporation

Express Lanes: Castle Rock to Monument (The Gap), Hydrology
s Report, 2020, CH2M
nce Rate Map Numbers 08041C0065G and 0804C0276G, El Paso
rado, Revised December 7, 2018, Federal Emergency
Agency (FEMA)
vey, Natural Resources Conservation Service (NRCS)

Unresolved:
Provide discussion of what is downstream facility for flows as they leave project site. Provide analysis of appurtenance to show it is adequate. Note downstream drainage easements may be needed if there is any change.

Unresolved:
Provide discussion and/or summary table comparing existing vs. proposed flows as they exit the site.

Appendix A

MAPS

United States Department of Agriculture

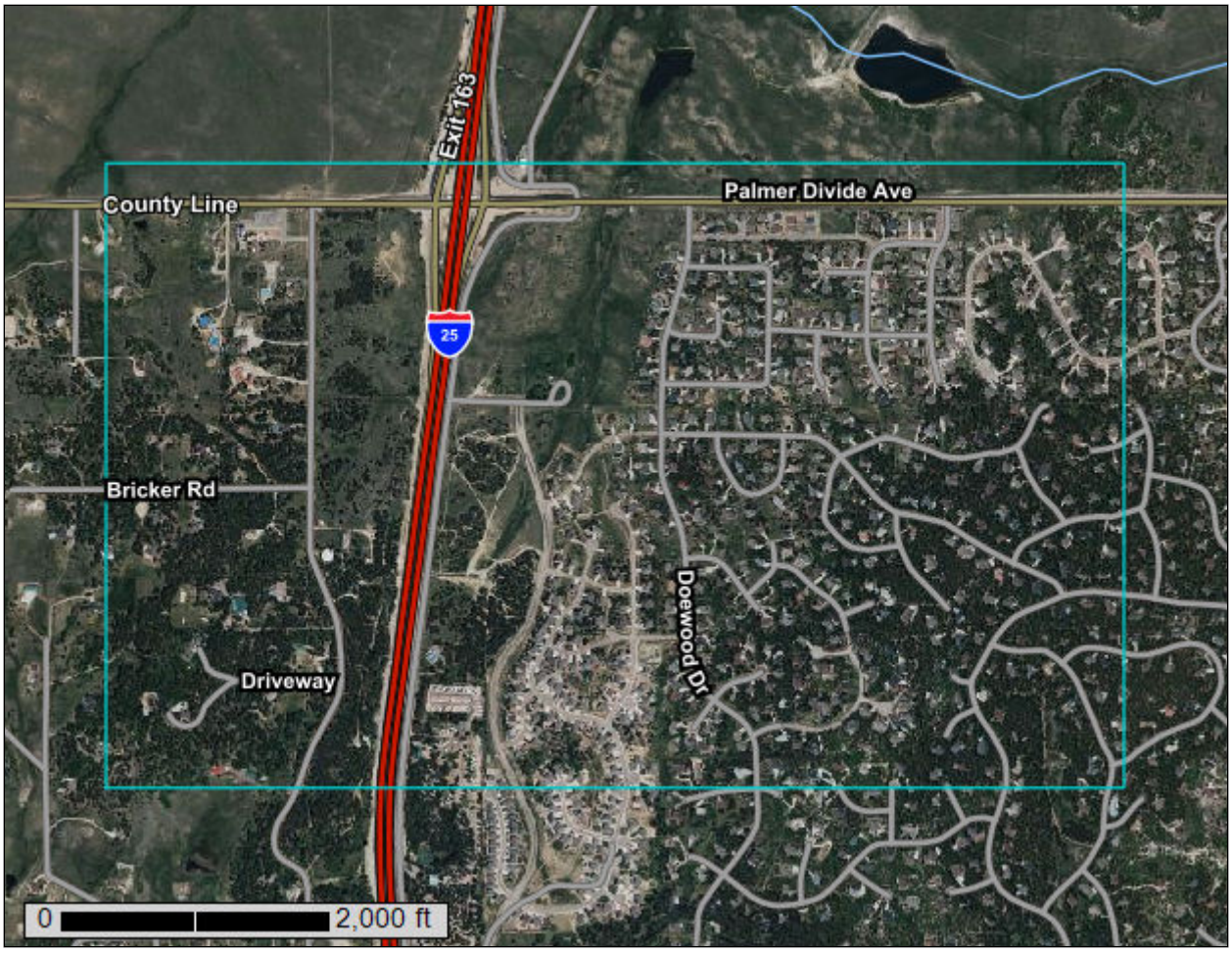
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Castle Rock Area, Colorado, and El Paso County Area, Colorado

Monument Ridge East



January 15, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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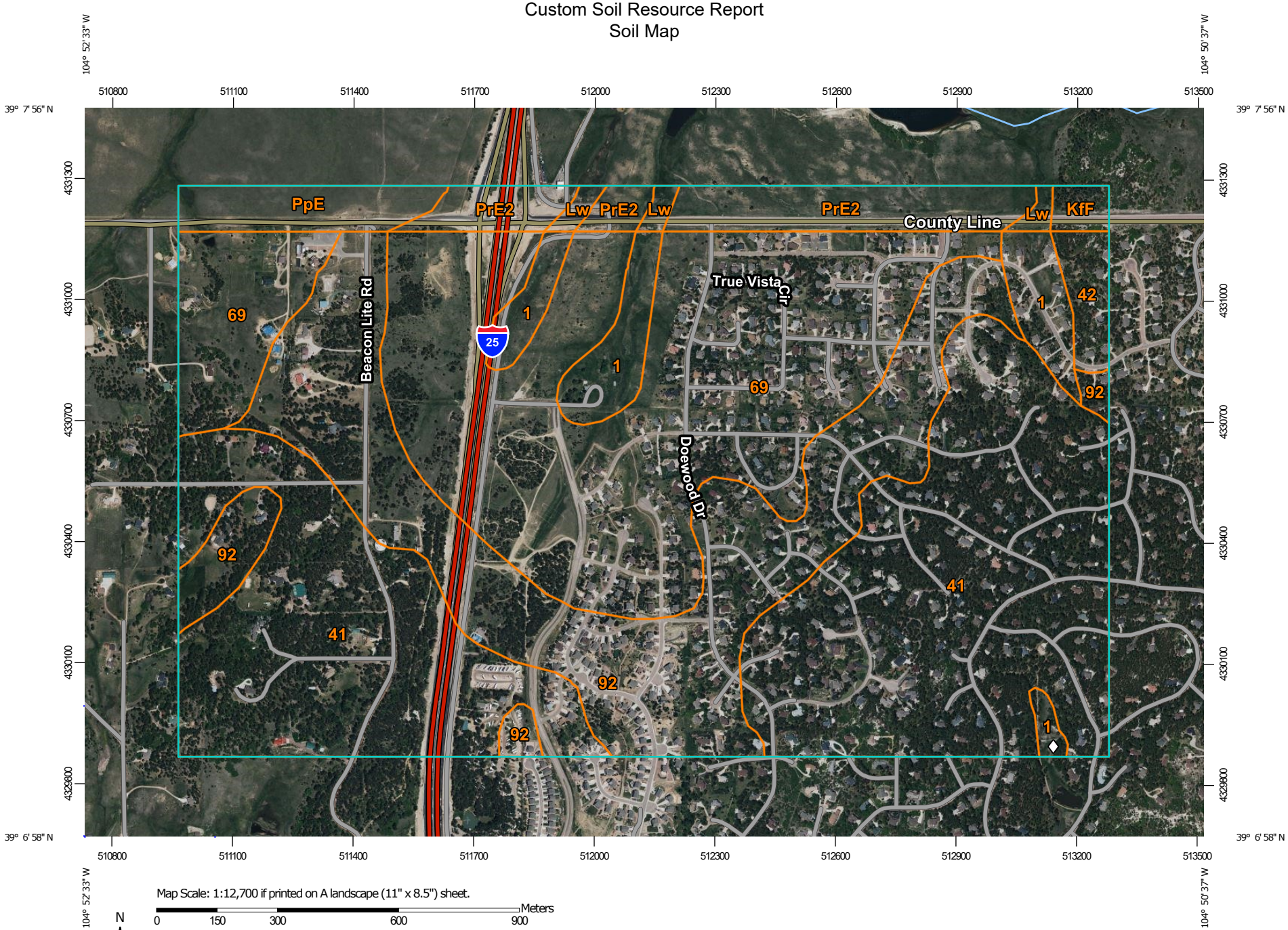
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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:12,700 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 150 300 600 900

Feet
0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:20,000 to 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Castle Rock Area, Colorado
Survey Area Data: Version 15, Sep 1, 2022

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 20, Sep 2, 2022

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 9, 2021—Jun 12, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KfF	Kettle-Falcon complex, 9 to 65 percent slopes	4.0	0.5%
Lw	Loamy wet alluvial land	5.3	0.6%
PpE	Peyton-Pring-Crowfoot sandy loams, 5 to 25 percent slopes	17.5	2.1%
PrE2	Peyton-Pring-Crowfoot complex, 3 to 15 percent slopes, eroded	38.5	4.7%
Subtotals for Soil Survey Area		**65.2**	**8.0%**
Totals for Area of Interest		**813.1**	**100.0%**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Alamosa loam, 1 to 3 percent slopes	35.2	4.3%
41	Kettle gravelly loamy sand, 8 to 40 percent slopes	285.9	35.2%
42	Kettle-Rock outcrop complex	9.1	1.1%
69	Peyton-Pring complex, 8 to 15 percent slopes	245.8	30.2%
92	Tomah-Crowfoot loamy sands, 3 to 8 percent slopes	171.9	21.1%
Subtotals for Soil Survey Area		**747.9**	**92.0%**
Totals for Area of Interest		**813.1**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion

of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Castle Rock Area, Colorado

KfF—Kettle-Falcon complex, 9 to 65 percent slopes

Map Unit Setting

National map unit symbol: jqz2
Elevation: 6,600 to 8,000 feet
Mean annual precipitation: 17 to 21 inches
Mean annual air temperature: 45 to 47 degrees F
Frost-free period: 115 to 125 days
Farmland classification: Not prime farmland

Map Unit Composition

Kettle and similar soils: 50 percent
Falcon and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kettle

Setting

Landform: Hills, ridges
Landform position (three-dimensional): Side slope, base slope, crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Locally transported sandy alluvium derived from arkose

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material
H1 - 1 to 10 inches: loamy sand
H2 - 10 to 18 inches: sand
H3 - 18 to 60 inches: gravelly loamy coarse sand

Properties and qualities

Slope: 9 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (2.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: F048AY925CO - Ponderosa Pine Forest
Hydric soil rating: No

Description of Falcon

Setting

Landform: Cliffs
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from arkosic sandstone and/or conglomerate

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material
H1 - 1 to 8 inches: sandy loam
H2 - 8 to 15 inches: gravelly sandy loam
H3 - 15 to 18 inches: unweathered bedrock

Properties and qualities

Slope: 25 to 65 percent
Depth to restrictive feature: 4 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 1.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: F048AY925CO - Ponderosa Pine Forest
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 7 percent
Hydric soil rating: No

Pring

Percent of map unit: 7 percent
Hydric soil rating: No

Aquic haploborolls

Percent of map unit: 1 percent
Landform: Swales
Hydric soil rating: Yes

Lw—Loamy wet alluvial land

Map Unit Setting

National map unit symbol: jqzd
Elevation: 7,000 to 8,000 feet
Mean annual precipitation: 17 to 19 inches
Mean annual air temperature: 44 to 46 degrees F
Frost-free period: 115 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition

Loamy wet alluvial land: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Loamy Wet Alluvial Land

Setting

Landform: Drainageways, swales, flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Typical profile

H1 - 0 to 20 inches: sandy loam
H2 - 20 to 60 inches: stratified sand to clay

Properties and qualities

Slope: 1 to 5 percent
Drainage class: Poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 6.00 in/hr)
Depth to water table: About 0 to 24 inches
Frequency of flooding: FrequentNone
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 6.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Sandy wet alluvial land
Percent of map unit: 14 percent
Hydric soil rating: No

Fluvaquentic haplaquolls
Percent of map unit: 1 percent
Landform: Sloughs
Hydric soil rating: Yes

PpE—Peyton-Pring-Crowfoot sandy loams, 5 to 25 percent slopes

Map Unit Setting
National map unit symbol: jqzn
Elevation: 6,500 to 8,000 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 44 to 46 degrees F
Frost-free period: 115 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition
Peyton and similar soils: 40 percent
Pring and similar soils: 25 percent
Crowfoot and similar soils: 25 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Peyton

Setting
Landform: Valley sides, ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Weathered alluvium derived from arkose

Typical profile
H1 - 0 to 11 inches: sandy loam
H2 - 11 to 30 inches: sandy clay loam
H3 - 30 to 40 inches: sandy loam
H4 - 40 to 60 inches: sandy loam

Properties and qualities
Slope: 5 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches

Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: R048AY222CO - Loamy Park
Hydric soil rating: No

Description of Pring

Setting

Landform: Hills
Landform position (three-dimensional): Crest, base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from arkosic sedimentary rock

Typical profile

H1 - 0 to 12 inches: sandy loam
H2 - 12 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 5 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R048AY222CO - Loamy Park
Hydric soil rating: No

Description of Crowfoot

Setting

Landform: Valley sides, ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from arkosic sedimentary rock

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 19 inches: loamy sand
H3 - 19 to 32 inches: gravelly sandy clay loam
H4 - 32 to 43 inches: gravelly sandy loam
H5 - 43 to 60 inches: coarse sand

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R049XY216CO - Sandy Divide
Hydric soil rating: No

Minor Components

Brussett

Percent of map unit: 3 percent
Hydric soil rating: No

Jarre

Percent of map unit: 3 percent
Hydric soil rating: No

Tomah

Percent of map unit: 3 percent
Hydric soil rating: No

Aquic haploborolls

Percent of map unit: 1 percent
Landform: Swales
Hydric soil rating: Yes

PrE2—Peyton-Pring-Crowfoot complex, 3 to 15 percent slopes, eroded

Map Unit Setting

National map unit symbol: jqzp
Elevation: 6,500 to 8,000 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 44 to 46 degrees F
Frost-free period: 115 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition

Peyton, eroded, and similar soils: 40 percent
Pring, eroded, and similar soils: 25 percent
Crowfoot, eroded, and similar soils: 20 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Peyton, Eroded

Setting

Landform: Plateaus, mesas
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Weathered alluvium derived from arkose

Typical profile

H1 - 0 to 11 inches: sandy loam
H2 - 11 to 30 inches: sandy clay loam
H3 - 30 to 40 inches: sandy loam
H4 - 40 to 60 inches: sandy loam

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: R049XY216CO - Sandy Divide
Hydric soil rating: No

Description of Pring, Eroded

Setting

Landform: Plateaus, mesas
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from arkosic sedimentary rock

Typical profile

H1 - 0 to 12 inches: gravelly sandy loam
H2 - 12 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R048AY222CO - Loamy Park
Hydric soil rating: No

Description of Crowfoot, Eroded

Setting

Landform: Plateaus, mesas
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from arkosic sedimentary rock

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 19 inches: loamy sand
H3 - 19 to 32 inches: gravelly sandy clay loam
H4 - 32 to 43 inches: gravelly sandy loam
H5 - 43 to 60 inches: coarse sand

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 5.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R049XY216CO - Sandy Divide
Hydric soil rating: No

Minor Components

Kippen

Percent of map unit: 8 percent
Hydric soil rating: No

Truckton

Percent of map unit: 7 percent
Hydric soil rating: No

El Paso County Area, Colorado

1—Alamosa loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3670
Elevation: 7,200 to 7,700 feet
Farmland classification: Prime farmland if irrigated and reclaimed of excess salts and sodium

Map Unit Composition

Alamosa and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Alamosa

Setting

Landform: Fans, flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

A - 0 to 6 inches: loam
Bt - 6 to 14 inches: clay loam
Btk - 14 to 33 inches: clay loam
Cg1 - 33 to 53 inches: sandy clay loam
Cg2 - 53 to 60 inches: sandy loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 12 to 18 inches
Frequency of flooding: NoneFrequent
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Very slightly saline to strongly saline (2.0 to 16.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: D
Ecological site: R048AY241CO - Mountain Meadow
Hydric soil rating: Yes

Minor Components

Other soils

Percent of map unit:
Hydric soil rating: No

41—Kettle gravelly loamy sand, 8 to 40 percent slopes

Map Unit Setting

National map unit symbol: 368h
Elevation: 7,000 to 7,700 feet
Farmland classification: Not prime farmland

Map Unit Composition

Kettle and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kettle

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy alluvium derived from arkose

Typical profile

E - 0 to 16 inches: gravelly loamy sand
Bt - 16 to 40 inches: gravelly sandy loam
C - 40 to 60 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 8 to 40 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: F048AY908CO - Mixed Conifer
Hydric soil rating: No

Minor Components

Other soils

Percent of map unit:
Hydric soil rating: No

Pleasant

Percent of map unit:
Landform: Depressions
Hydric soil rating: Yes

42—Kettle-Rock outcrop complex

Map Unit Setting

National map unit symbol: 368j
Elevation: 6,800 to 7,700 feet
Frost-free period: 110 to 130 days
Farmland classification: Not prime farmland

Map Unit Composition

Kettle and similar soils: 60 percent
Rock outcrop: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kettle

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy alluvium derived from arkose

Typical profile

E - 0 to 16 inches: gravelly loamy sand
Bt - 16 to 40 inches: gravelly sandy loam
C - 40 to 60 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 8 to 40 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: F048AY908CO - Mixed Conifer
Hydric soil rating: No

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 60 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Available water supply, 0 to 60 inches: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Other soils

Percent of map unit:
Hydric soil rating: No

69—Peyton-Pring complex, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 369g
Elevation: 6,800 to 7,600 feet
Farmland classification: Not prime farmland

Map Unit Composition

Peyton and similar soils: 40 percent
Pring and similar soils: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Peyton

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Arkosic alluvium derived from sedimentary rock and/or arkosic residuum weathered from sedimentary rock

Typical profile

A - 0 to 12 inches: sandy loam
Bt - 12 to 25 inches: sandy clay loam
BC - 25 to 35 inches: sandy clay loam
C - 35 to 60 inches: sandy loam

Properties and qualities

Slope: 8 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R049XY216CO - Sandy Divide
Hydric soil rating: No

Description of Pring

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Arkosic alluvium derived from sedimentary rock

Typical profile

A - 0 to 14 inches: coarse sandy loam
C - 14 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R048AY222CO - Loamy Park
Hydric soil rating: No

Minor Components

Other soils

Percent of map unit:
Hydric soil rating: No

Pleasant

Percent of map unit:
Landform: Depressions
Hydric soil rating: Yes

92—Tomah-Crowfoot loamy sands, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 36b9
Elevation: 7,300 to 7,600 feet
Farmland classification: Not prime farmland

Map Unit Composition

Tomah and similar soils: 50 percent
Crowfoot and similar soils: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tomah

Setting

Landform: Alluvial fans, hills
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from arkose and/or residuum weathered from arkose

Typical profile

A - 0 to 10 inches: loamy sand
E - 10 to 22 inches: coarse sand
Bt - 22 to 48 inches: stratified coarse sand to sandy clay loam
C - 48 to 60 inches: coarse sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B

Ecological site: R049XY216CO - Sandy Divide
Hydric soil rating: No

Description of Crowfoot

Setting

Landform: Hills, alluvial fans
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

A - 0 to 12 inches: loamy sand
E - 12 to 23 inches: sand
Bt - 23 to 36 inches: sandy clay loam
C - 36 to 60 inches: coarse sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R049XY216CO - Sandy Divide
Hydric soil rating: No

Minor Components

Other soils

Percent of map unit:
Hydric soil rating: No

Pleasant

Percent of map unit:
Landform: Depressions
Hydric soil rating: Yes

National Flood Hazard Layer FIRMette

FEMA

104°51'58"W 39°7'50"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

104°51'21"W 39°7'23"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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National Flood Hazard Layer FIRMette

FEMA

104°51'59"W 39°7'38"N



104°51'22"W 39°7'10"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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Appendix B

CALCULATIONS

Add note that existing hydrology is in SWMM model and farther back in appendix.

Appendix B

CALCULATIONS

Delete duplicate page

MONUMENT RIDGE EAST - FILING NO.1
FINAL DRAINAGE REPORT
(Percent Impervious Summary - Interim)

Basin					*Area (acres)*					*% Imp*
	Streets/Drives/Walks	*Streets - Gravel*	*Roof*	*Lawn*	*Res 1/8*	*Res 1/4*	*Res 1/3*	*Res 1/2*	*TOTAL*	
AA	0.44			14.72					15.16	2.90
BB				2.74					2.74	0.00
CC	1.03								1.03	100.00
DD	1.67			11.08					12.75	13.10
EE	0.59			1.22					1.81	32.60
FF				0.8					0.80	0.00
GG	0.53			4.37					4.90	10.82
HH	2.29			6.27					8.56	26.75
II	0.23			0.67					0.90	25.56
MO2	0.36			0.15					0.51	70.59
MO3		0.84						0.52	1.36	58.97
MO4	0.51			0.23					0.74	68.92
MD2	1.51				2.80		6.25	1.60	12.16	46.09
MD5	0.19			1.39					1.58	12.03
ME	0.58				0.63		1.28	0.72	3.21	48.40

Composite Developed - Pond 1 (MO2,AA,BB,CC)	**19.44**	**9.41**
Composite Developed - Pond 2 (DD,EE,FF,GG,MO4,MO3)	**22.36**	**18.35**
Composite Developed - Pond 4 (HH,II,MD2,MD5)	**23.20**	**35.84**
Pond 5 (ME)	**3.21**	**48.40**

Land Use	**% Impervious**
Streets/Drives/Walks	100
Streets - Gravel	80
Roof	90
Lawn	0
Res 1/8ac or less	65
Res 1/4ac or less	40
Res 1/3ac or less	30
Res 1/2ac or less	25

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Percent Impervious Summary - Future)

Basin	*Area (acres)*								*% Imp*
	Streets/Drives/Walks	*Streets - Gravel*	*Roof*	*Lawn*	*Res 1/8*	*Res 1/3*	*Res 1/2*	*TOTAL*	
A Basins	5.79		3.12	6.742				15.65	54.93
O1 thru O4	0.87	1.32		7.42			0.52	10.13	20.30
B Basins	3.9		2.9	6.915	0.69			14.41	48.31
C Basins	1.15		0.88	4.02	3.47			9.52	44.09
D Basins	5.15			5.47	3.11	2.79	4.63	21.15	43.34
E	0.58				0.63	1.28	0.72	3.21	48.40

Composite Developed - Pond 1 (A Basins, O1 thru O4)	**25.78**	**41.32**
Composite Developed - Pond 2 (B Basins)	**14.41**	**48.31**
Composite Developed - Pond 3 (C Basins)	**9.52**	**44.09**
Composite Developed - Pond 4 (D Basins)	**21.15**	**43.34**
Pond 5 (Basin E)	**3.21**	**48.40**

Land Use	**% Impervious**
Streets/Drives/Walks	100
Streets - Gravel	80
Roof	90
Lawn	0
Res 1/8ac or less	65
Res 1/3ac	30
Res 1/2ac	25

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Composite Runoff Coefficients - Interim)

Basin	Basin Area (acres)	Land Use	Sub-Basin (5yr)		Composite	Sub-Basin (10yr)		Composite	Sub-Basin (100yr)		Composite
			C_5	Area (acres)	C_5	C_{10}	Area (acres)	C_{10}	C_{100}	Area (acres)	C_{100}
AA	15.16	Streets/Drive/Walks	0.90	0.44	0.10	0.92	0.44	0.17	0.96	0.44	0.37
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	14.72		0.15	14.72		0.35	14.72	
BB	2.74	Streets/Drive/Walks	0.90	0.00	0.08	0.92	0.00	0.15	0.96	0.00	0.35
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	2.74		0.15	2.74		0.35	2.74	
CC	1.03	Pond	0.90	1.03	0.90	0.92	1.03	0.92	0.96	1.03	0.96
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.00		0.15	0.00		0.35	0.00	
DD	12.75	Streets/Drive/Walks	0.90	1.67	0.19	0.92	1.67	0.25	0.96	1.67	0.43
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	11.08		0.15	11.08		0.35	11.08	
EE	1.81	Streets/Drive/Walks	0.90	0.59	0.35	0.92	0.59	0.40	0.96	0.59	0.55
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	1.22		0.15	1.22		0.35	1.22	
FF	0.80	Streets/Drive/Walks	0.90	0.00	0.08	0.92	0.00	0.15	0.96	0.00	0.35
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.80		0.15	0.80		0.35	0.80	
GG	4.90	Pond	0.90	0.53	0.20	0.92	0.53	0.28	0.96	0.53	0.49
		Roof	0.74	0.00		0.76	0.00		0.82	0.00	
		Lawn	0.12	4.37		0.20	4.37		0.43	4.37	

Basin	Basin Area (acres)	Land Use	Sub-Basin (5yr)		Composite	Sub-Basin (10yr)		Composite	Sub-Basin (100yr)		Composite
			C_5	Area (acres)	C_5	C_{10}	Area (acres)	C_{10}	C_{100}	Area (acres)	C_{100}
HH	8.56	Streets/Drive/Walks	0.90	2.29	0.33	0.92	2.29	0.39	0.96	2.29	0.57
		Roof	0.74	0.00		0.76	0.00		0.82	0.00	
		Lawn	0.12	6.27		0.20	6.27		0.43	6.27	
II	0.90	Streets/Drive/Walks	0.90	0.23	0.29	0.92	0.23	0.34	0.96	0.23	0.50
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.67		0.15	0.67		0.35	0.67	
JJ	6.78	Streets/Drive/Walks	0.90	0.94	0.24	0.92	0.94	0.31	0.96	0.94	0.51
		1/2 Ac	0.25	0.59		0.33	0.59		0.52	0.59	
		Lawn	0.12	5.25		0.20	5.25		0.43	5.25	
KK	0.92	Streets/Drive/Walks	0.90	0.16	0.22	0.92	0.16	0.28	0.96	0.16	0.46
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.76		0.15	0.76		0.35	0.76	
LL	0.51	Streets/Drive/Walks	0.90	0.17	0.36	0.92	0.17	0.41	0.96	0.17	0.56
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.33		0.15	0.33		0.35	0.33	
MM	10.31	Streets/Drive/Walks	0.90	0.59	0.19	0.92	0.59	0.29	0.96	0.59	0.53
		Roof	0.75	0.00		0.77	0.00		0.83	0.00	
		Lawn	0.15	9.72		0.25	9.72		0.50	9.72	
MD2	12.16	Streets/Drive/Walks	0.90	1.51	0.40	0.92	1.51	0.46	0.96	1.51	0.61
		1/8 Ac or Less	0.48	2.80		0.52	2.80		0.63	2.80	
		1/3 Ac	0.28	6.25		0.35	6.25		0.53	6.25	
		1/2 Ac	0.25	1.60		0.33	1.60		0.52	1.60	
MD5	1.58	Pond	0.90	0.19	0.21	0.92	0.19	0.29	0.96	0.19	0.49
		Lawn	0.12	1.39		0.20	1.39		0.43	1.39	

Basin	Basin Area (acres)	Land Use	Sub-Basin (5yr)		Composite	Sub-Basin (10yr)		Composite	Sub-Basin (100yr)		Composite
			C_5	Area (acres)	C_5	C_{10}	Area (acres)	C_{10}	C_{100}	Area (acres)	C_{100}
ME	3.21	Streets/Drive/Walks	0.90	0.58	0.42	0.92	0.58	0.48	0.96	0.58	0.63
		1/8 Ac or Less	0.48	0.63		0.52	0.63		0.63	0.63	
		1/3 Ac	0.28	1.28		0.35	1.28		0.53	1.28	
		1/2 Ac	0.25	0.72		0.33	0.72		0.52	0.72	
MO2	0.51	Streets/Drive/Walks	0.90	0.36	0.66	0.92	0.36	0.69	0.96	0.36	0.78
		Lawn	0.08	0.15		0.15	0.15		0.35	0.15	
MO3	1.36	Streets - Gravel	0.59	0.84	0.45	0.63	0.84	0.50	0.70	0.84	0.61
		1/2 Ac	0.22	0.52		0.30	0.52		0.46	0.52	
MO4	0.74	Streets/Drive/Walks	0.90	0.51	0.64	0.92	0.51	0.68	0.96	0.51	0.77
		Lawn	0.08	0.23		0.15	0.23		0.35	0.23	
MO5	60.15	Streets/Drive/Walks	0.90	10.77	0.35	0.92	10.77	0.41	0.96	10.77	0.55
		1/4 Ac	0.30	2.45		0.36	2.45		0.50	2.45	
		1/3 Ac	0.25	4.47		0.32	4.47		0.47	4.47	
		1/2 Ac	0.22	42.47		0.30	42.47		0.46	42.47	
MO6	0.63	Lawn	0.12	0.63	0.12	0.20	0.63	0.20	0.43	0.63	0.43
MO7A	65.57	Streets/Drive/Walks	0.90	3.81	0.27	0.92	3.81	0.34	0.96	3.81	0.49
		1/3 Ac	0.25	12.98		0.32	12.98		0.47	12.98	
		1/2 Ac	0.22	48.78		0.30	48.78		0.46	48.78	
MO7b	18.40	Streets/Drive/Walks	0.90	2.18	0.30	0.92	2.18	0.37	0.96	2.18	0.52
		1/2 Ac	0.22	16.22		0.30	16.22		0.46	16.22	
MO8	1.38	Streets/Drive/Walks	0.90	0.55	0.51	0.92	0.55	0.56	0.96	0.55	0.67
		1/3 Ac	0.25	0.83		0.32	0.83		0.47	0.83	
MO10	60.47	Streets/Drive/Walks	0.90	1.59	0.14	0.92	1.59	0.20	0.96	1.59	0.39
		Streets - Gravel	0.59	2.74		0.63	2.74		0.70	2.74	
		Roof	0.73	0.99		0.75	0.99		0.81	0.99	
		Lawn	0.08	55.15		0.15	55.15		0.35	55.15	
MO11	3.00	Streets/Drive/Walks	0.90	2.08	0.65	0.92	2.08	0.68	0.96	2.08	0.77
		Lawn	0.08	0.93		0.15	0.93		0.35	0.93	
MO13	4.66	Streets/Drive/Walks	0.90	1.91	0.44	0.92	1.91	0.49	0.96	1.91	0.65
		Lawn	0.12	2.75		0.20	2.75		0.43	2.75	

Notes:

1. Shaded cells indicate composite runoff coefficients with HSG B and HSG D soils.

Basin	Basin Area (acres)	Land Use	Sub-Basin (5yr)		Composite	Sub-Basin (10yr)		Composite	Sub-Basin (100yr)		Composite
			C_5	Area (acres)	C_5	C_{10}	Area (acres)	C_{10}	C_{100}	Area (acres)	C_{100}

2. All basins split between the two soil groups with >50% D are considered D soils (i.e. - conservative approach).

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Composite Runoff Coefficients - Future)

Basin	Basin Area (acres)	Land Use	Sub-Basin (5yr)		Composite	Sub-Basin (10yr)		Composite	Sub-Basin (100yr)		Composite
			C_5	Area (acres)	C_5	C_{10}	Area (acres)	C_{10}	C_{100}	Area (acres)	C_{100}
A1F	6.55	Streets/Drive/Walks	0.90	2.20	0.51	0.92	2.20	0.55	0.96	2.20	0.66
		Roof	0.73	1.55		0.75	1.55		0.81	1.55	
		Lawn	0.08	2.80		0.15	2.80		0.35	2.80	
A2F	0.29	Streets/Drive/Walks	0.90	0.08	0.31	0.92	0.08	0.37	0.96	0.08	0.52
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.21		0.15	0.21		0.35	0.21	
A3F	1.18	Streets/Drive/Walks	0.90	0.33	0.37	0.92	0.33	0.42	0.96	0.33	0.56
		Roof	0.73	0.10		0.75	0.10		0.81	0.10	
		Lawn	0.08	0.75		0.15	0.75		0.35	0.75	
A4F	5.65	Streets/Drive/Walks	0.90	2.40	0.58	0.92	2.40	0.62	0.96	2.40	0.72
		Roof	0.73	1.35		0.75	1.35		0.81	1.35	
		Lawn	0.08	1.91		0.15	1.91		0.35	1.91	
A5F	2.22	Streets/Drive/Walks	0.90	0.72	0.48	0.92	0.72	0.53	0.96	0.72	0.64
		Roof	0.73	0.47		0.75	0.47		0.81	0.47	
		Lawn	0.08	1.03		0.15	1.03		0.35	1.03	
B1F	5.02	Streets/Drive/Walks	0.90	1.80	0.55	0.92	1.80	0.59	0.96	1.80	0.70
		Roof	0.73	1.38		0.75	1.38		0.81	1.38	
		Lawn	0.08	1.84		0.15	1.84		0.35	1.84	
B2F	0.31	Streets/Drive/Walks	0.90	0.14	0.46	0.92	0.14	0.51	0.96	0.14	0.63
		Roof	0.73	0.00		0.75	0.00		0.81	0.00	
		Lawn	0.08	0.17		0.15	0.17		0.35	0.17	
B3F	0.36	Streets/Drive/Walks	0.90	0.13	0.67	0.92	0.13	0.70	0.96	0.13	0.78
		Roof	0.73	0.17		0.75	0.17		0.81	0.17	
		Lawn	0.08	0.07		0.15	0.07		0.35	0.07	
B4F	0.45	Streets/Drive/Walks	0.90	0.15	0.62	0.92	0.15	0.65	0.96	0.15	0.74
		Roof	0.73	0.19		0.75	0.19		0.81	0.19	
		Lawn	0.08	0.11		0.15	0.11		0.35	0.11	
B5F	1.11	Streets/Drive/Walks	0.90	0.58	0.67	0.92	0.58	0.70	0.96	0.58	0.78
		Roof	0.73	0.28		0.75	0.28		0.81	0.28	
		Lawn	0.08	0.26		0.15	0.26		0.35	0.26	

Basin	Basin Area (acres)	Land Use	Sub-Basin (5yr)		Composite C_5	Sub-Basin (10yr)		Composite C_{10}	Sub-Basin (100yr)		Composite C_{100}
			C_5	Area (acres)		C_{10}	Area (acres)		C_{100}	Area (acres)	
B6F	3.38	Streets/Drive/Walks	0.90	1.83	0.57	0.92	1.83	0.61	0.96	1.83	0.71
		Roof	0.73	0.25		0.75	0.25		0.81	0.25	
		Lawn	0.08	1.30		0.15	1.30		0.35	1.30	
B7F	0.74	Streets/Drive/Walks	0.90	0.21	0.55	0.92	0.21	0.59	0.96	0.21	0.69
		Roof	0.73	0.28		0.75	0.28		0.81	0.28	
		Lawn	0.08	0.26		0.15	0.26		0.35	0.26	
B8F	0.20	Streets/Drive/Walks	0.90	0.06	0.62	0.92	0.06	0.65	0.96	0.06	0.74
		Roof	0.73	0.08		0.75	0.08		0.81	0.08	
		Lawn	0.08	0.05		0.15	0.05		0.35	0.05	
B9F	1.17	Streets/Drive/Walks	0.90	0.69	0.73	0.92	0.69	0.76	0.96	0.69	0.83
		1/8 Ac or Less	0.49	0.48		0.54	0.48		0.65	0.48	
		Lawn	0.15	0.00		0.25	0.00		0.50	0.00	
C1F	9.66	Streets/Drive/Walks	0.90	4.53	0.66	0.92	4.53	0.70	0.96	4.53	0.79
		1/8 Ac or Less	0.49	4.50		0.54	4.50		0.65	4.50	
		Lawn	0.15	0.63		0.25	0.63		0.50	0.63	
D1F	7.42	Streets/Drive/Walks	0.90	3.15	0.48	0.92	3.15	0.54	0.96	3.15	0.70
		1/8 Ac or Less	0.49	0.21		0.54	0.21		0.65	0.21	
		Lawn	0.15	4.06		0.25	4.06		0.50	4.06	
D2F	0.61	Streets/Drive/Walks	0.90	0.30	0.52	0.92	0.30	0.58	0.96	0.30	0.72
		Lawn	0.15	0.31		0.25	0.31		0.50	0.31	
MD2	12.16	Streets/Drive/Walks	0.90	1.51	0.40	0.92	1.51	0.46	0.96	1.51	0.61
		1/8 Ac or Less	0.48	2.80		0.52	2.80		0.63	2.80	
		1/3 Ac	0.28	6.25		0.35	6.25		0.53	6.25	
		1/2 Ac	0.25	1.60		0.33	1.60		0.52	1.60	
MD5	1.58	Pond	0.90	0.19	0.21	0.92	0.19	0.29	0.96	0.19	0.49
		Lawn	0.12	1.39		0.20	1.39		0.43	1.39	

Notes:

1. Shaded cells indicate composite runoff coefficients with HSG B and HSG D soils.
2. All basins split between the two soil groups with >50% D are considered D soils (i.e. - conservative approach).

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Basin Runoff Calculations - Interim)

					Overland Flow				Channel Flow					Travel Time (T_t)	Intensity		Total Flows	
Basin	**Area Total (acres)**	C_5	C_{10}	C_{100}	C_5	**Length (ft)**	**Slope (ft/ft)**	T_C **(min)**	**Length (ft)**	**Slope (ft/ft)**	**Cv**	**Velocity (fps)**	T_t **(min)**	**TOTAL* (min)**	I_{10} **(in/hr)**	I_{100} **(in/hr)**	Q_{10} **(c.f.s.)**	Q_{100} **(c.f.s.)**
AA	15.16	0.10	0.17	0.37	0.10	300	0.065	16.8	878	0.023	15	2.3	6.4	23.2	3.3	4.8	**8.7**	**26.8**
BB	2.74	0.08	0.15	0.35	0.08	91	0.108	8.0	345	0.046	15	3.2	1.8	9.8	4.9	7.0	**2.0**	**6.7**
CC	1.03	0.90	0.92	0.96	0.90									5.0	6.0	8.7	**5.7**	**8.6**
DD	12.75	0.19	0.25	0.43	0.19	215	0.084	12.0	287	0.070	15	4.0	1.2	13.2	4.3	6.2	**13.9**	**34.2**
EE	1.81	0.35	0.40	0.55	0.35	115	0.087	7.1	592	0.044	20	4.2	2.4	9.5	4.9	7.1	**3.6**	**7.0**
FF	0.80	0.08	0.15	0.35	0.08	26	0.308	3.0	321	0.062	15	3.7	1.4	4.5	6.2	9.0	**0.7**	**2.5**
GG	4.90	0.20	0.28	0.49	0.20	218	0.073	12.4	198	0.061	15	3.7	0.9	13.3	4.3	6.2	**5.9**	**14.8**

					Overland Flow				Channel Flow					Travel Time (T_t)	Intensity		Total Flows	
Basin	**Area Total (acres)**	C_5	C_{10}	C_{100}	C_5	**Length (ft)**	**Slope (ft/ft)**	T_C **(min)**	**Length (ft)**	**Slope (ft/ft)**	**Cv**	**Velocity (fps)**	T_t **(min)**	**TOTAL* (min)**	I_{10} **(in/hr)**	I_{100} **(in/hr)**	Q_{10} **(c.f.s.)**	Q_{100} **(c.f.s.)**
HH	8.56	0.33	0.39	0.57	0.33	300	0.069	12.8	130	0.018	20	2.7	0.8	13.6	4.3	6.2	**14.4**	**30.2**
II	0.90	0.29	0.34	0.50	0.29	156	0.077	9.3	169	0.012	20	2.2	1.3	10.6	4.7	6.8	**1.5**	**3.1**
JJ	6.78	0.24	0.31	0.51	0.24	300	0.069	14.2	30	0.052	15	3.4	0.1	14.4	4.2	6.0	**8.8**	**20.9**
KK	0.92	0.22	0.28	0.46	0.22	117	0.051	10.0	15	0.046	15	3.2	0.1	10.1	4.8	6.9	**1.2**	**2.9**
LL	0.51	0.36	0.41	0.56	0.36	87	0.092	6.0	31	0.008	20	1.8	0.3	6.3	5.6	8.1	**1.2**	**2.3**
MM	10.31	0.19	0.29	0.53	0.19	269	0.067	14.3	709	0.025	15	2.4	5.0	19.3	3.7	5.3	**10.9**	**28.6**
MD2	12.16	0.40	0.46	0.61	0.40	100	0.130	5.4	1050	0.015	20	2.5	7.1	12.5	4.4	6.4	**24.6**	**46.8**
MD5	1.58	0.21	0.29	0.49										5.0	6.0	8.7	**2.7**	**6.8**
ME	3.21	0.42	0.48	0.63										5.0	6.0	8.7	**9.3**	**17.4**
MO2	0.51	0.66	0.69	0.78										5.0	6.0	8.7	**2.1**	**3.5**

					Overland Flow				Channel Flow					Travel Time (T_t)	Intensity		Total Flows	
Basin	**Area Total (acres)**	C_5	C_{10}	C_{100}	C_5	**Length (ft)**	**Slope (ft/ft)**	T_C **(min)**	**Length (ft)**	**Slope (ft/ft)**	**Cv**	**Velocity (fps)**	T_t **(min)**	**TOTAL* (min)**	I_{10} **(in/hr)**	I_{100} **(in/hr)**	Q_{10} **(c.f.s.)**	Q_{100} **(c.f.s.)**
MO3	1.36	0.45	0.50	0.61	0.45	300	0.083	10.1						10.1	4.8	6.9	**3.3**	**5.7**
MO4	0.74	0.64	0.68	0.77										5.0	6.0	8.7	**3.0**	**4.9**
MO5	60.15	0.35	0.41	0.55	0.35	100	0.052	7.9	1370	0.065	15	3.8	6.0	13.9	4.2	6.1	**106.0**	**202.8**
MO6	0.63	0.12	0.20	0.43										5.0	6.0	8.7	**0.8**	**2.4**
MO7a	65.57	0.27	0.34	0.49	0.27	100	0.120	6.6	1935	0.070	15	4.0	8.1	14.8	4.1	6.0	**92.2**	**191.6**
MO7b	18.40	0.30	0.37	0.52	0.30	100	0.102	6.7	840	0.105	15	4.9	2.9	9.6	4.9	7.0	**33.6**	**67.2**
MO8	1.38	0.51	0.56	0.67										5.0	6.0	8.7	**4.7**	**8.0**
MO10	60.47	0.14	0.20	0.39	0.14	300	0.077	15.4	1480	0.044	15	3.1	7.8	23.2	3.3	4.8	**40.8**	**113.3**
MO11	3.00	0.65	0.68	0.77										5.0	6.0	8.7	**12.4**	**20.1**
MO13	4.66	0.44	0.49	0.65	0.44	100	0.040	7.6	1115	0.032	15	2.7	6.9	14.5	4.2	6.0	**9.6**	**18.1**

* 5 MINUTE TIME OF CONCENTRATION - MINIMUM

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Basin Runoff Calculations - Future)

					Overland Flow				Channel Flow					Travel Time (T_t)	Intensity		Total Flows	
Basin	Area Total (acres)	C_5	C_{10}	C_{100}	C_5	Length (ft)	Slope (ft/ft)	T_C (min)	Length (ft)	Slope (ft/ft)	Cv	Velocity (fps)	T_t (min)	TOTAL* (min)	I_{10} (in/hr)	I_{100} (in/hr)	Q_{10} (c.f.s.)	Q_{100} (c.f.s.)
A1F	6.55	0.51	0.55	0.66										5.0	6.0	8.7	**21.8**	**37.7**
A2F	2.41	0.31	0.37	0.52										5.0	6.0	8.7	**5.3**	**10.9**
A3F	1.18	0.37	0.42	0.56										5.0	6.0	8.7	**3.0**	**5.7**
A4F	4.65	0.58	0.62	0.72	ASSUME TC FOR ALL ON-SITE FUTURE BASINS IS 5 MINUTES (CONSERVATIVE APPROACH)									5.0	6.0	8.7	**17.4**	**29.0**
A5F	2.22	0.48	0.53	0.64										5.0	6.0	8.7	**7.1**	**12.4**
B1F	5.02	0.55	0.59	0.70										5.0	6.0	8.7	**17.9**	**30.3**
B2F	0.31	0.46	0.51	0.63										5.0	6.0	8.7	**0.9**	**1.7**
B3F	0.36	0.67	0.70	0.78										5.0	6.0	8.7	**1.5**	**2.4**
B4F	0.45	0.62	0.65	0.74										5.0	6.0	8.7	**1.8**	**2.9**

					Overland Flow				Channel Flow					Travel Time (T_t)	Intensity		Total Flows	
Basin	**Area Total (acres)**	**C_5**	**C_{10}**	**C_{100}**	**C_5**	**Length (ft)**	**Slope (ft/ft)**	**T_C (min)**	**Length (ft)**	**Slope (ft/ft)**	**Cv**	**Velocity (fps)**	**T_t (min)**	**TOTAL* (min)**	**I_{10} (in/hr)**	**I_{100} (in/hr)**	**Q_{10} (c.f.s.)**	**Q_{100} (c.f.s.)**
B5F	1.11	0.67	0.70	0.78	ASSUME TC FOR ALL ON-SITE FUTURE BASINS IS 5 MINUTES (CONSERVATIVE APPROACH)									5.0	6.0	8.7	**4.7**	**7.5**
B6F	3.38	0.57	0.61	0.71										5.0	6.0	8.7	**12.5**	**21.0**
B7F	0.74	0.55	0.59	0.69										5.0	6.0	8.7	**2.6**	**4.5**
B8F	0.20	0.62	0.65	0.74										5.0	6.0	8.7	**0.8**	**1.3**
B9F	1.17	0.73	0.76	0.83										5.0	6.0	8.7	**5.4**	**8.5**
C1F	9.66	0.66	0.70	0.79										5.0	6.0	8.7	**40.7**	**65.9**
D1F	7.42	0.48	0.54	0.70										5.0	6.0	8.7	**24.3**	**45.0**
D2F	0.61	0.52	0.58	0.72										5.0	6.0	8.7	**2.1**	**3.8**
O1	7.52	0.11	0.18	0.37	0.11	130	0.080	10.2	480	0.054	10	2.3	3.4	13.7	4.3	6.1	**5.8**	**17.2**
O2	0.51	0.66	0.69	0.78										5.0	6.0	8.7	**2.1**	**3.5**
O3	1.37	0.45	0.50	0.61	0.45	300	0.083	10.1						10.1	4.8	6.9	**3.3**	**5.7**
O4	0.74	0.64	0.68	0.77										5.0	6.0	8.7	**3.0**	**4.9**

* 5 MINUTE TIME OF CONCENTRATION - MINIMUM

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Surface Routing Summary - Interim)

					Intensity		Flow		
Design Point	***Contributing Basins/Design Points***	***Equivalent CA_{10}***	***Equivalent CA_{100}***	***Routed T_C***	***I_{10}***	***I_{100}***	***Q_{10}***	***Q_{100}***	***Comments***
F0	MO2	0.35	0.40	5.0	6.0	8.7	**2.1**	**3.5**	existing 36" RCP culvert
F1	AA,DP F0	2.96	5.97	23.2	3.3	4.8	**9.9**	**28.7**	proposed 2-12' D-10-R inlets, future Q100=29cfs at DPX1, size for future condition
F2	BB	0.41	0.96	9.8	4.9	7.0	**2.0**	**6.7**	proposed 18" RCP
F3	DP F1, DP F2,CC	4.32	7.92	23.2	3.3	4.8	**14.5**	**38.1**	flow to pond 1, unrouted
F4A	MO3	0.69	0.83	10.1	4.8	6.9	**3.3**	**5.7**	existing 36" RCP culvert
F4B	MO4	0.50	0.57	5.0	6.0	8.7	**3.0**	**4.9**	existing type C inlet
F4C	DP F4A, DP F4B, DD	4.39	6.88	13.2	4.3	6.2	**19.0**	**42.9**	proposed 2-8' D-10-R inlets, future Q100=21cfs at DPX5, size for interim condition
F5	EE	0.73	1.00	9.5	4.9	7.1	**3.6**	**7.0**	proposed triple type 16 inlet, future Q100=7.5cfs at DPX7, size for future condition
F6	DP F4C,DP F5,GG	6.47	10.26	13.2	4.3	6.2	**28.1**	**64.0**	flow to pond 2, unrouted
F7	FF,HH	3.48	5.17	13.6	4.3	6.2	**14.9**	**31.9**	proposed 2-16' D-10-R inlets, future Q100=45cfs at DPX9, size for future condition
F8	II	0.31	0.45	10.6	4.7	6.8	**1.5**	**3.1**	proposed 10' D-10-R inlet, future Q100=3.8cfs at DPX10, size for future condition
F9	POND 1 OUT,MO5	Flows added (i.e. - not routed)					**59.2**	**118.3**	Misty Ac 1 Pond Attenuation of Q10=58cfs, Q100=130cfs (per MDDP), yields Q10out=59.2cfs and Q100=118.3cfs)
F10	MO6	0.13	0.27	5.0	6.0	8.7	**0.8**	**2.4**	proposed type C inlet
F11	MO7A, MO7B	29.16	41.75	21.0	3.5	5.1	**102.6**	**211.4**	low point collection structure
F12	DP F9, DP F10, DP F11	Flows added (i.e. - not routed)					**162.6**	**332.0**	proposed 78" RCP
F13	50% MD2	2.78	3.68	6.3	5.6	8.1	**15.6**	**29.8**	proposed 2-12' D-10-R inlets
F14	50% MD2	2.78	3.68	12.5	4.4	6.4	**12.3**	**23.4**	proposed 2-12' D-10-R inlets
F15	DP F7, DP F13, DP F14	8.92	12.25	13.6	4.3	6.2	**38.2**	**75.5**	flow to pond 4 (south)
F16	DP F8, DP F15	9.68	13.49	13.6	4.3	6.2	**41.5**	**83.1**	total flow to pond 4

F17	POND 2 OUT,POND 4 OUT	Flows added (i.e. - not routed)					**25.7**	**67.2**	flow to depression area
F18	ME	1.55	2.01	5.0	6.0	8.7	**9.3**	**17.4**	proposed 16' D-10-R inlet
F19	DP F9,DP F10,DP F11, POND 5 OUT	Flows added (i.e. - not routed)					**161.6**	**324.5**	flow to depression area
F20	MO8	0.77	0.92	5.0	6.0	8.7	**4.7**	**8.0**	existing culvert, unk size
F21	POND 1 OUT, POND 2 OUT,POND 4 OUT, POND 5 OUT,DP F9,DP F10,DP F11,MO8,JJ	Flows added (i.e. - not routed)					**200.8**	**420.6**	Total flow routed to project outfall under Palmer Divide Road. The flows listed have already taken into consideration the future pond release values and flows entering the site from the east. i.e. - these values reflect future conditions after the entire Monument Ridge East project is developed.
F22	POND 1 OUT, POND 2 OUT,POND 4 OUT, POND 5 OUT,DP F9,DP F10,DP F11,MO8,JJ	Flows added (i.e. - not routed)					**200.8**	**420.6**	outfall location (design point for report reference only)
F23	KK	0.26	0.42	10.1	4.8	6.9	**1.2**	**2.9**	existing type C inlet
F24	LL	0.21	0.28	6.3	5.6	8.1	**1.2**	**2.3**	proposed 2-4' D-10-R inlets
F25	MO10	12.20	23.55	23.2	3.3	4.8	**40.8**	**113.3**	existing 48" RCP culvert
F26	MO11	2.05	2.32	5.0	6.0	8.7	**12.4**	**20.1**	existing dual type C inlet
F27	DP F25,DP F26	14.25	25.87	23.2	3.3	4.8	**47.6**	**124.4**	design Point F26 outfall
F28	DP F23, DP F24,DP F25, DP F26,MM	17.69	31.99	24.2	3.3	4.7	**57.9**	**150.5**	existing 48" RCP culvert
F29	DP F28,M013	20.00	35.00	24.2	3.3	4.7	**65.4**	**164.7**	existing 48" RCP culvert

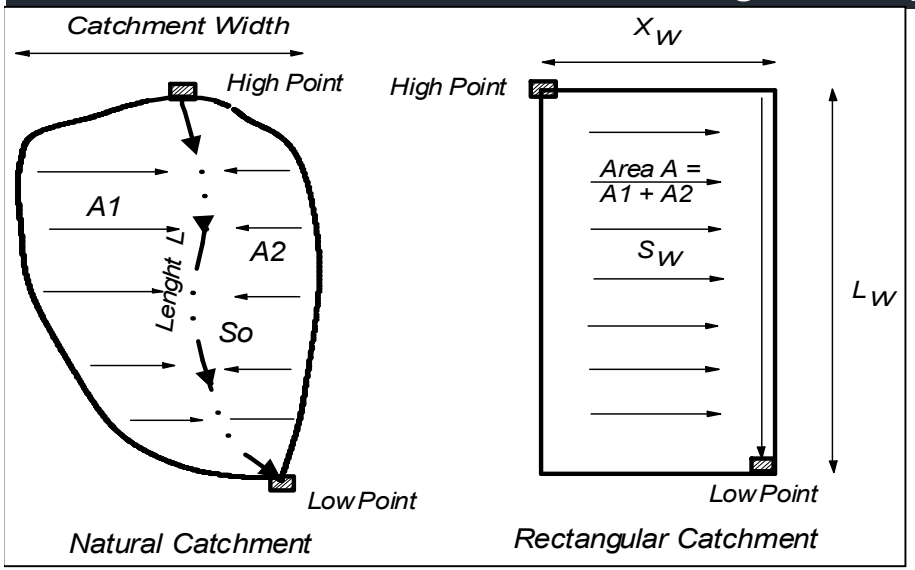
MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Surface Routing Summary - Future)

					Intensity		*Flow*		
Design Point	***Contributing Basins***	***Equivalent CA_{10}***	***Equivalent CA_{100}***	***Routed T_C***	***I_{10}***	***I_{100}***	***Q_{10}***	***Q_{100}***	***Interim vs. Future Comparison Comments for Inlet and Pipe Sizing***
X1	A4F	2.88	3.34	5.0	6.0	8.7	**17.4**	**29.0**	DP F1 lower, use future values
X2	O1,A3F	1.85	3.46	13.7	4.3	6.1	**7.9**	**21.2**	DP F2 lower, use future values
X3	A2F,O2,O3,O4	2.43	3.05	5.0	6.0	8.7	**14.6**	**26.5**	No flow for interim, use future values
X4	B6F	2.07	2.42	5.0	6.0	8.7	**12.5**	**21.0**	DP F4c higher, use interim values
X5	B1F	2.97	3.49	5.0	6.0	8.7	**17.9**	**30.3**	No flow for interim, use future values
X6	B2F,B3F,B4F	0.70	0.81	5.0	6.0	8.7	**4.2**	**7.0**	No flow for interim, use future values
X7	B5F	0.78	0.87	5.0	6.0	8.7	**4.7**	**7.5**	DP F5 lower, use future values
X8	B1F,B2F,B3F,B4F,B5F, B6F,B7F,B8F,B9F	7.97	9.21	5.0	6.0	8.7	**48.1**	**80.0**	DP F6 lower, use future values
X9	D1F	4.02	5.19	5.0	6.0	8.7	**24.3**	**45.0**	DP F7 lower, use future values
X10	D2F	0.35	0.44	5.0	6.0	8.7	**2.1**	**3.8**	DP F8 lower, use future values

Label what this and following sheets are for.

If this and the next pages are information for the SWMM model, please put them twit it

Convert Natural Catchment to a Rectangular Shape



Subcatchment Center	Z=0.5
Side Collector	Z=1
Skewed Location	0.5<Z<1

Dimensionless Variables

$Y = \frac{L}{L_w}; \qquad X = \frac{A}{L^2}$

$$Y = (1.5 - Z)(2.286X - 0.286X^2)$$

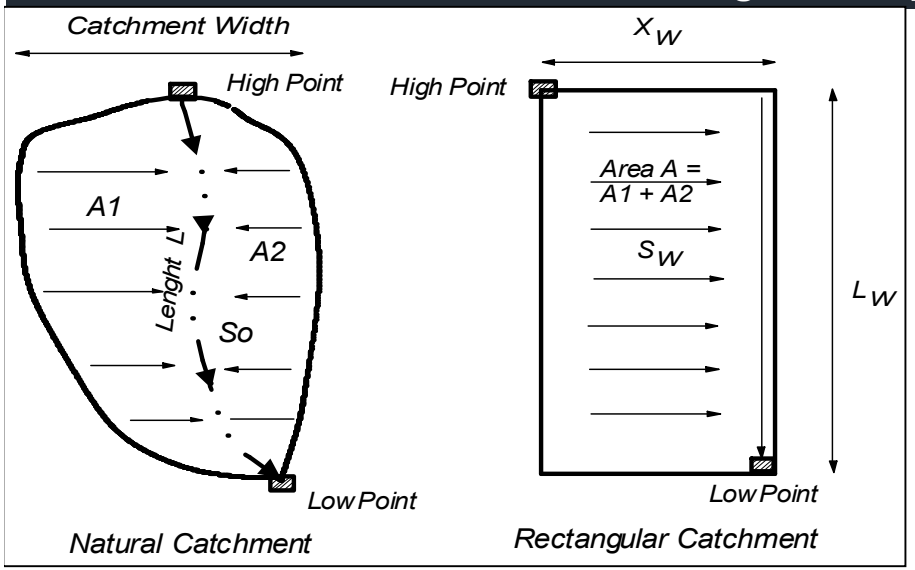
$$\frac{Lw}{L} = (1.5 - Z)[2.286(\frac{A}{L^2}) - 0.286(\frac{A}{L^2})^2]$$

$$S_o/S_w = A/(LL_w) + L_w/L$$

$$X_w = A/L_w$$

Subarea ID	Area acre	A1 acre	A2 acre	L ft	High Pt Elev. ft	Low Pt Elev. ft	Z=Am/A	X=A/L²	Y=Lw/L	Lw ft	Xw ft	So %	So/Sw	Sw %
E1	31.89	9.56	22.33	1,472	375.6	306.3	0.70	0.64	1.08	1,587	875	4.71	1.67	2.81
E2	1.36	0.69	0.67	311	390.6	359.5	0.51	0.61	1.28	399	148	10.00	1.76	5.68
E3	60.16	22.38	37.78	2,576	450.6	289.9	0.63	0.39	0.75	1,928	1,359	6.24	1.28	4.89
E4	65.57	21.21	44.36	2,374	501.6	310.2	0.68	0.51	0.89	2,121	1,346	8.06	1.46	5.52
E5	17.47	8.18	9.29	795	310.2	289.6	0.53	1.20	2.26	1,800	423	2.59	2.80	0.93
E6	1.38	0.67	0.71	544	310.2	270.0	0.51	0.20	0.45	243	248	7.39	0.90	8.20
E7	41.48	19.90	21.58	2,026	339.1	255.7	0.52	0.44	0.93	1,887	957	4.12	1.40	2.93

Convert Natural Catchment to a Rectangular Shape



Subcatchment Center	Z=0.5
Side Collector	Z=1
Skewed Location	0.5<Z<1

Dimensionless Variables

$$Y = \frac{L}{L_w}; \qquad X = \frac{A}{L^2}$$

$$Y = (1.5 - Z)(2.286X - 0.286X^2)$$

$$\frac{Lw}{L} = (1.5 - Z)[2.286(\frac{A}{L^2}) - 0.286(\frac{A}{L^2})^2]$$

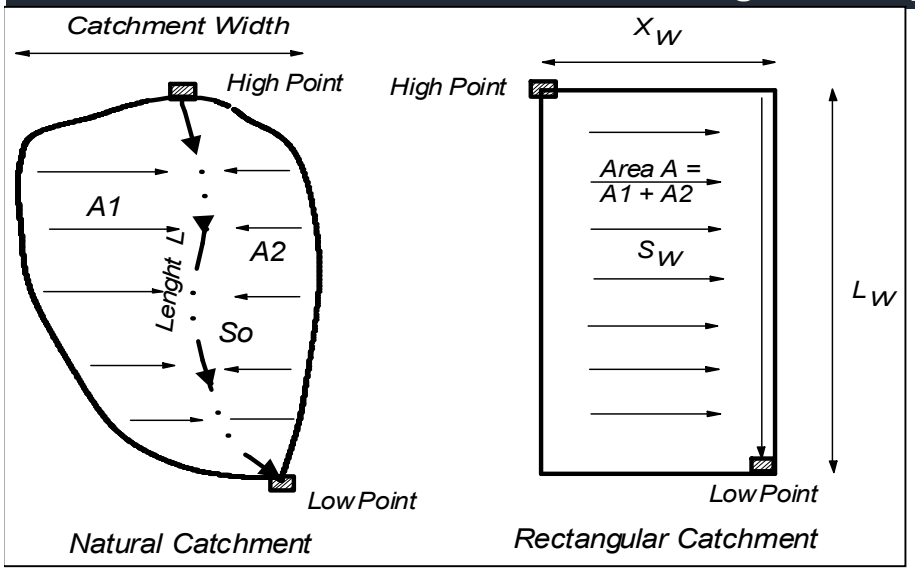
$$S_o/S_w = A/(LL_w) + L_w/L$$

$$X_w = A/L_w$$

Subarea ID	Area acre	A1 acre	A2 acre	L ft	High Pt Elev. ft	Low Pt Elev. ft	Z=Am/A	X=A/L²	Y=Lw/L	Lw ft	Xw ft	So %	So/Sw	Sw %
AA	15.16	7.40	7.76	1,420	73.0	22.0	0.51	0.33	0.71	1,007	655	3.59	1.17	3.07
BB	2.74	1.96	0.78	570	54.5	20.2	0.72	0.37	0.63	358	333	6.02	1.21	4.96
CC	1.03	0.27	0.76	222	14.0	7.0	0.74	0.91	1.41	312	144	3.15	2.05	1.54
DD	12.75	2.18	10.57	1,012	50.3	11.5	0.83	0.54	0.78	785	708	3.83	1.47	2.60
EE	1.81	1.10	0.71	650	328.2	304.0	0.61	0.19	0.37	242	326	3.72	0.87	4.26
FF	0.80	0.53	0.27	459	28.3	10.1	0.66	0.17	0.31	142	245	3.97	0.84	4.70
GG	4.90	2.60	2.30	481	320.0	294.6	0.53	0.92	1.81	870	245	5.28	2.32	2.28
HH	8.56	5.39	3.17	472	310.8	274.0	0.63	1.67	2.63	1,243	300	7.80	3.27	2.39
II	0.90	0.45	0.45	320	92.4	72.3	0.50	0.38	0.83	267	147	6.28	1.29	4.86
JJ	6.78	1.96	4.82	692	96.3	55.7	0.71	0.62	1.03	710	416	5.87	1.63	3.61
KK	0.92	0.70	0.22	567	50.8	30.5	0.76	0.12	0.21	118	341	3.58	0.81	4.43
LL	0.51	0.20	0.31	190	35.2	28.0	0.61	0.62	1.16	220	101	3.79	1.69	2.24
MD2a	5.86	2.11	3.75	805	338.4	305.4	0.64	0.39	0.74	593	431	4.10	1.27	3.22
MD2b	6.30	3.85	2.45	884	322.6	274.5	0.61	0.35	0.68	603	455	5.44	1.20	4.55
MD5	1.58	0.81	0.77	631	64.0	61.4	0.51	0.17	0.38	241	286	0.41	0.83	0.49
ME	3.21	1.12	2.09	462	98.4	76.3	0.65	0.66	1.17	539	259	4.78	1.73	2.77
MO2	0.51	0.25	0.26	179	56.3	48.9	0.51	0.69	1.43	257	87	4.13	1.92	2.16

MO3	1.36	0.69	0.67	392	89.1	60.5	0.51	0.39	0.83	326	182	7.30	1.30	5.63
MO4	0.74	0.16	0.58	245	56.3	48.5	0.78	0.54	0.82	201	160	3.18	1.47	2.16
MO5	60.15	21.32	38.83	2,827	448.6	289.9	0.65	0.33	0.61	1,736	1,509	5.61	1.15	4.89
MO6	0.63	0.23	0.40	326	304.2	293.6	0.63	0.26	0.49	161	170	3.25	1.02	3.20
MO7a	65.57	25.51	40.06	2,674	485.9	309.6	0.61	0.40	0.77	2,062	1,385	6.59	1.29	5.11
MO7b	18.40	7.47	10.93	1,405	354.2	280.3	0.59	0.41	0.80	1,121	715	5.26	1.31	4.02
MO8	1.38	0.98	0.40	603	308.2	270.3	0.71	0.17	0.29	176	341	6.29	0.86	7.33

Convert Natural Catchment to a Rectangular Shape



Subcatchment Center	Z=0.5
Side Collector	Z=1
Skewed Location	0.5<Z<1

Dimensionless Variables

$$Y = \frac{L}{L_w}; \qquad X = \frac{A}{L^2}$$

$$Y = (1.5 - Z)(2.286X - 0.286X^2)$$

$$\frac{Lw}{L} = (1.5 - Z)[2.286(\frac{A}{L^2}) - 0.286(\frac{A}{L^2})^2]$$

$$S_o/S_w = A/(LL_w) + L_w/L$$

$$X_w = A/L_w$$

Subarea ID	Area acre	A1 acre	A2 acre	L ft	High Pt Elev. ft	Low Pt Elev. ft	Z=Am/A	X=A/L²	Y=Lw/L	Lw ft	Xw ft	So %	So/Sw	Sw %
A1F	6.55	2.77	3.78	863	354.2	322.0	0.58	0.38	0.77	664	430	3.73	1.27	2.94
A2F	2.41	0.12	2.29	174	352.4	338.8	0.95	3.47	2.47	429	245	7.82	3.87	2.02
A3F	1.18	0.71	0.47	331	343.6	316.3	0.60	0.47	0.91	301	171	8.26	1.43	5.79
A4F	4.65	2.85	1.80	748	352.9	322.7	0.61	0.36	0.70	524	386	4.04	1.22	3.32
A5F	2.22	1.48	0.74	355	328.1	307.2	0.67	0.77	1.32	469	206	5.89	1.90	3.10
B1F	5.02	1.11	3.91	917	349.8	316.3	0.78	0.26	0.41	380	575	3.65	1.04	3.51
B2F	0.31	0.09	0.22	160	327.9	321.6	0.71	0.53	0.89	142	95	3.94	1.48	2.66
B3F	0.36	0.11	0.25	172	324.7	315.8	0.69	0.53	0.91	157	100	5.17	1.49	3.47
B4F	0.45	0.15	0.30	205	321.2	313.9	0.67	0.47	0.84	172	114	3.56	1.39	2.55
B5F	1.11	0.34	0.77	260	316.7	304.2	0.69	0.72	1.20	312	155	4.81	1.80	2.68
B6F	3.38	1.53	1.85	1,493	371.8	311.3	0.55	0.07	0.14	213	691	4.05	0.61	6.69
B7F	0.74	0.44	0.30	254	314.6	307.7	0.59	0.50	0.97	246	131	2.72	1.48	1.83
B8F	0.20	0.08	0.12	125	303.7	299.9	0.60	0.56	1.07	133	65	3.04	1.59	1.91
B9F	2.94	2.12	0.82	407	374.1	298.1	0.72	0.77	1.24	506	253	18.67	1.87	10.01
C1F	9.66	1.56	8.10	1,160	328.3	279.5	0.84	0.31	0.45	527	798	4.21	1.14	3.68
D1F	7.42	3.24	4.18	1,230	312.6	273.2	0.56	0.21	0.45	548	590	3.20	0.93	3.46
D2F	0.61	0.36	0.25	229	288.2	273.1	0.59	0.51	0.99	226	118	6.59	1.50	4.39

O1	7.52	3.53	3.99	887	378.1	329.6	0.53	0.42	0.87	776	422	5.47	1.35	4.05
O2	0.51	0.21	0.30	149	355.2	348.8	0.59	1.00	1.82	272	82	4.30	2.37	1.81
O3	1.37	0.69	0.68	311	390.6	359.5	0.50	0.62	1.30	403	148	10.00	1.77	5.64
O4	0.74	0.14	0.60	244	356.6	348.5	0.81	0.54	0.80	194	166	3.32	1.48	2.25

Figure 8-12. Inlet Capacity Chart Sump Conditions, Curb Opening (D-10-R) Inlet

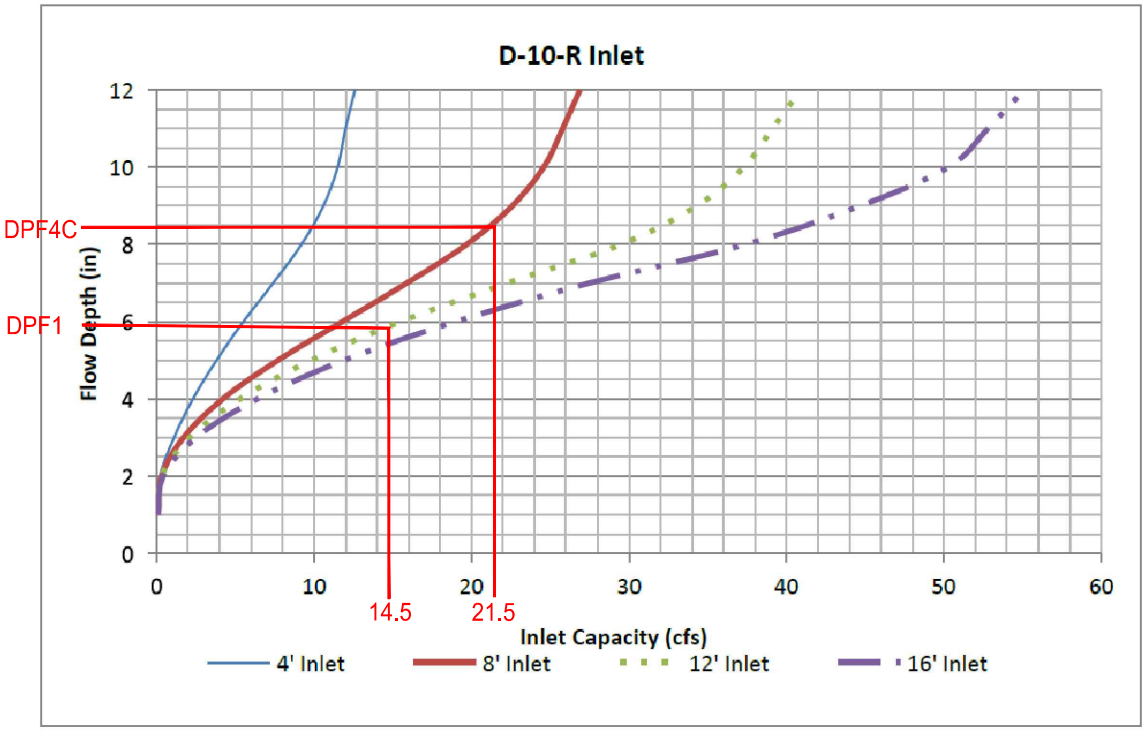


Figure 8-12. Inlet Capacity Chart Sump Conditions, Curb Opening (D-10-R) Inlet

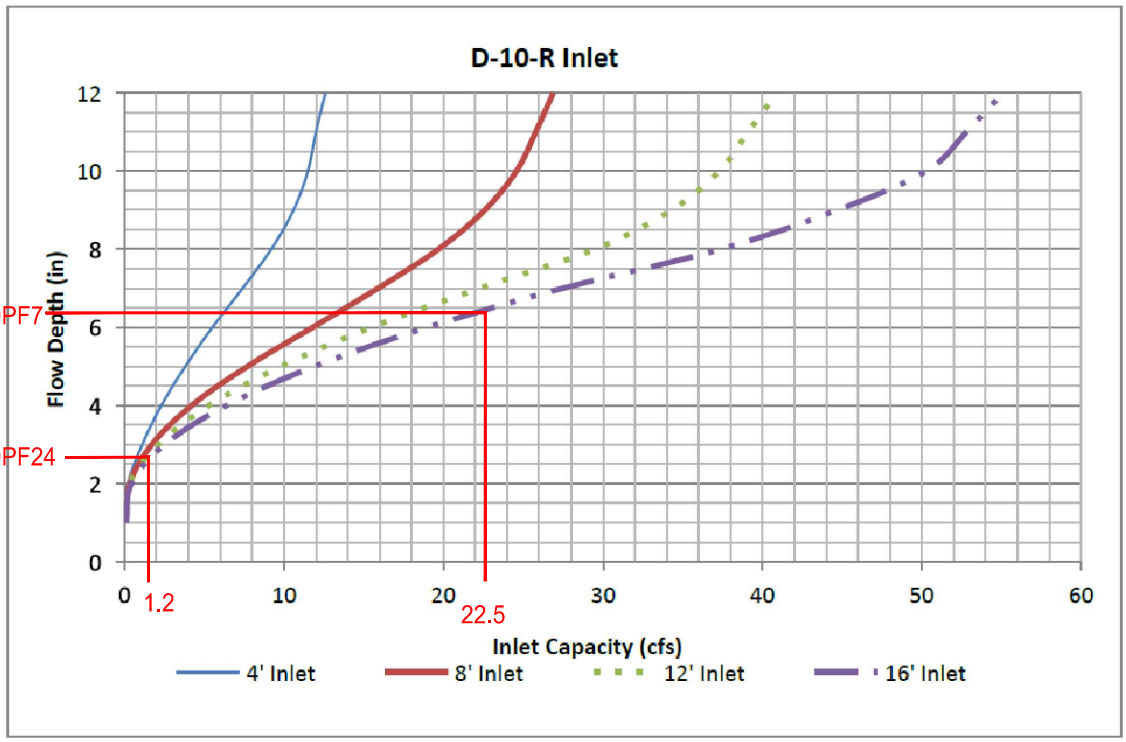
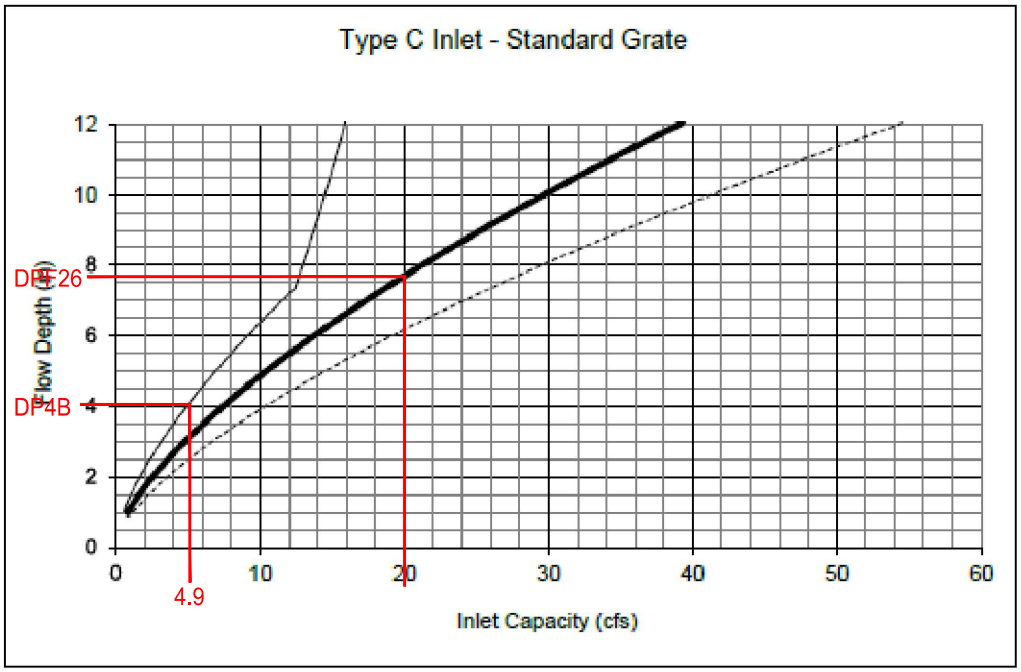
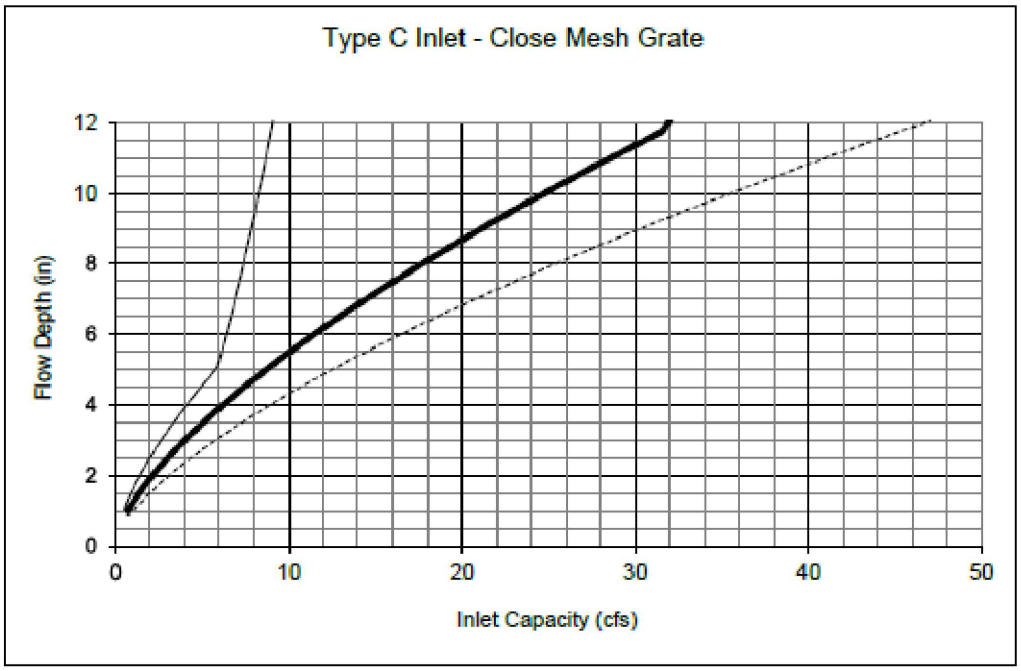


Figure 8-10. Inlet Capacity Chart Sump Conditions, Area (Type C) Inlet







Notes:
1. The standard inlet parameters must apply to use these charts.

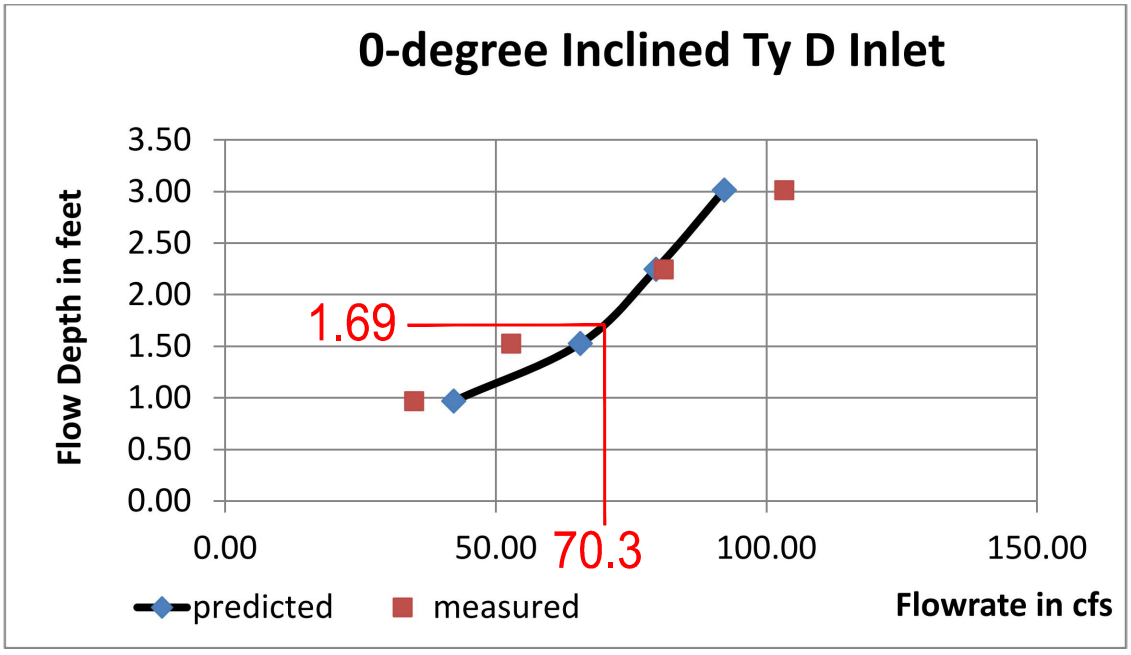
DESIGN POINT F11
COLLECTION STRUCTURE

HYDRAULIC CAPACITY of CDOT TYPE C and D AREA INLETS
(Installed in flat, depressed, and inclined configurations)

Prepared by
James C.Y. Guo, PhD and PE
Submitted to
Urban Drainage and Flood Control District,
Contract Agreement 10.07-04
Date: October 2011 (Draft)
Jan 25, 2012 (Revised)
March 5, 2012 (Revised)

Width of Grate	B	3.00		(input)
Inclined Length of Grate	L	6.00	ft	
Opening Ratio of Grate	n	0.70		(input)
Grate Discharge Coeff	Cd	0.79		(input)
Height of Box	Hb=	0.00	ft	
Inclined Angle	@	0.00	degree	(input)
Orifice/ Weir Coeff	Co=	0.53	Cw=	1.69
Orientation	Ko=	0		

Water Depth H	ubmerged Si Weir Length	Inclined Left S Weir	Inclined Right S Weir	Base Weir	Total Weir	Total Orifice	Predcited Flow	Observed Flow	Error	Sq error
ft	ft (X)	cfs	cfs	cfs	cfs	cfs	cfs	cfs	%	cfs^2
0.97	6.00	16.89	16.89	8.44	42.22	52.28	**42.22**	**34.9**	-20.97%	53.58
1.53	6.00	33.41	33.41	16.70	83.52	65.63	**65.63**	**52.8**	-24.27%	164.26
2.25	6.00	59.63	59.63	29.82	149.08	79.62	**79.62**	**81.0**	1.73%	1.96
3.02	6.00	92.69	92.69	46.34	231.71	92.22	**92.22**	**103.3**	10.72%	122.57
										342.37



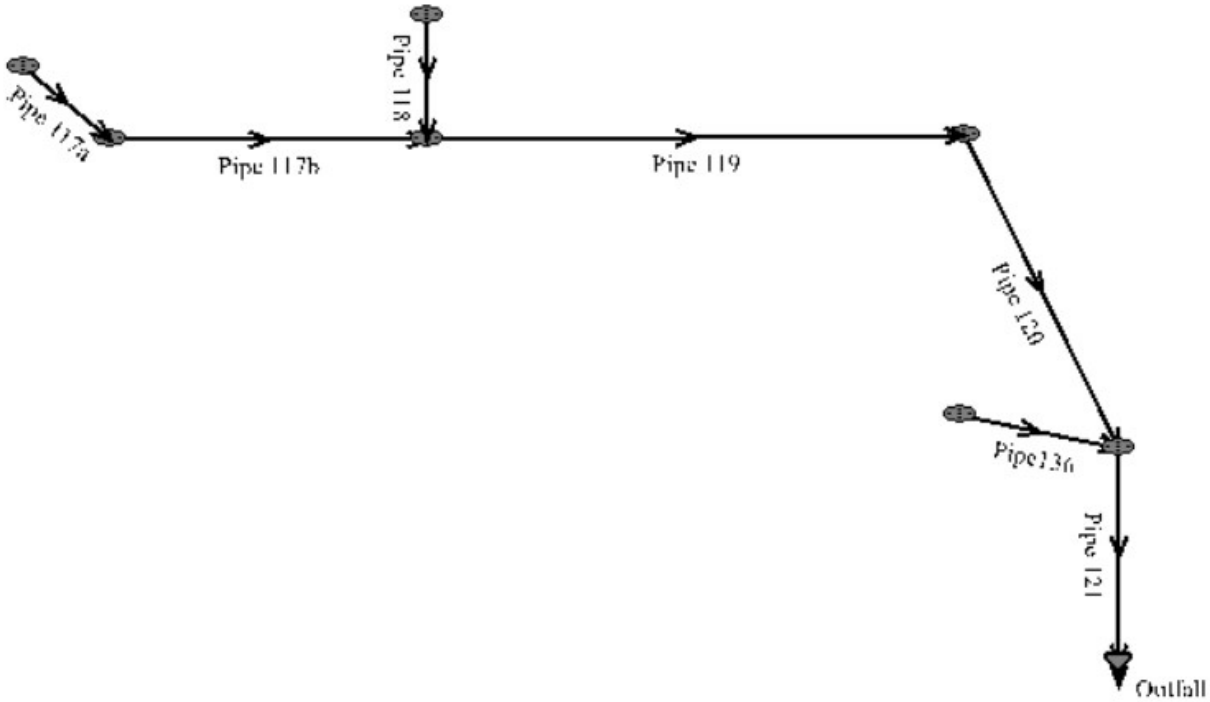
Q100 = 211CFS DIVIDED BY THREE INLETS = 70.3CFS EACH

HYDRAULIC GRADE LINE CALCULATIONS

12/29/25

System: CD Stm-01, 02 and 12 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7259.69

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7263.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 121	7268.01	71.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 120	7268.01	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 119	7273.55	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 117b	7277.05	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 117a	7278.20	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 118	7274.05	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pipe136	7268.01	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	**Overland Time (min)**	**Gutter Time (min)**	**Basin Tc (min)**	**Intensity (in/hr)**	**Local Contrib (cfs)**	**Coeff. Area**	**Intensity (in/hr)**	**Manhole Tc (min)**	**Peak Flow (cfs)**	**Comment**
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.20	
Pipe 120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	
Pipe 119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	
Pipe 117b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	
Pipe 117a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	
Pipe 118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	
Pipe136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.20	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Manning s n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe 121	82.72	7257.88	1.4	7259.04	0.013	0.03	0.00	CIRCULAR	48.00 in	48.00 in
Pipe 120	194.35	7260.11	1.5	7263.03	0.013	0.05	0.25	CIRCULAR	36.00 in	36.00 in

Pipe 119	495.19	7263.31	0.7	7266.78	0.013	0.05	0.00	CIRCULAR	36.00 in	36.00 in
Pipe 117b	251.64	7267.78	1.0	7270.30	0.013	0.05	0.00	CIRCULAR	24.00 in	24.00 in
Pipe 117a	55.61	7270.55	0.5	7270.83	0.013	0.38	0.00	CIRCULAR	24.00 in	24.00 in
Pipe 118	16.00	7268.29	2.7	7268.72	0.013	1.32	1.00	CIRCULAR	18.00 in	18.00 in
Pipe136	36.40	7260.04	0.8	7260.33	0.013	1.19	1.00	CIRCULAR	36.00 in	36.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe 121	170.42	13.56	30.61	8.42	21.64	12.95	1.94	Supercritical	71.20	0.00	
Pipe 120	81.91	11.59	20.54	6.72	14.51	10.49	1.94	Supercritical	28.00	0.00	
Pipe 119	55.95	7.92	20.54	6.72	18.01	7.92	1.29	Supercritical	28.00	0.00	
Pipe 117b	22.68	7.22	24.00	8.91	24.00	8.91	0.00	Pressurized	28.00	251.64	
Pipe 117a	16.04	5.11	24.00	8.91	24.00	8.91	0.00	Pressurized	28.00	55.61	
Pipe 118	17.31	9.79	10.85	4.94	6.97	8.70	2.33	Supercritical	5.50	0.00	
Pipe136	59.82	8.46	25.69	8.00	22.66	9.22	1.28	Supercritical	43.20	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe 121	71.20	CIRCULAR	48.00 in	48.00 in	36.00 in	36.00 in	48.00 in	48.00 in	12.57	Exceeds max. Depth/Rise
Pipe 120	28.00	CIRCULAR	36.00 in	36.00 in	27.00 in	27.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 119	28.00	CIRCULAR	36.00 in	36.00 in	30.00 in	30.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 117b	28.00	CIRCULAR	24.00 in	24.00 in	27.00 in	27.00 in	24.00 in	24.00 in	3.14	Existing height is smaller than the suggested height. Existing width is smaller than the suggested width. Exceeds max. Depth/Rise
Pipe 117a	28.00	CIRCULAR	24.00 in	24.00 in	30.00 in	30.00 in	24.00 in	24.00 in	3.14	Existing height is smaller than the suggested height. Existing width is smaller than the suggested width. Exceeds max. Depth/Rise
Pipe 118	5.50	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe136	43.20	CIRCULAR	36.00 in	36.00 in	33.00 in	33.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

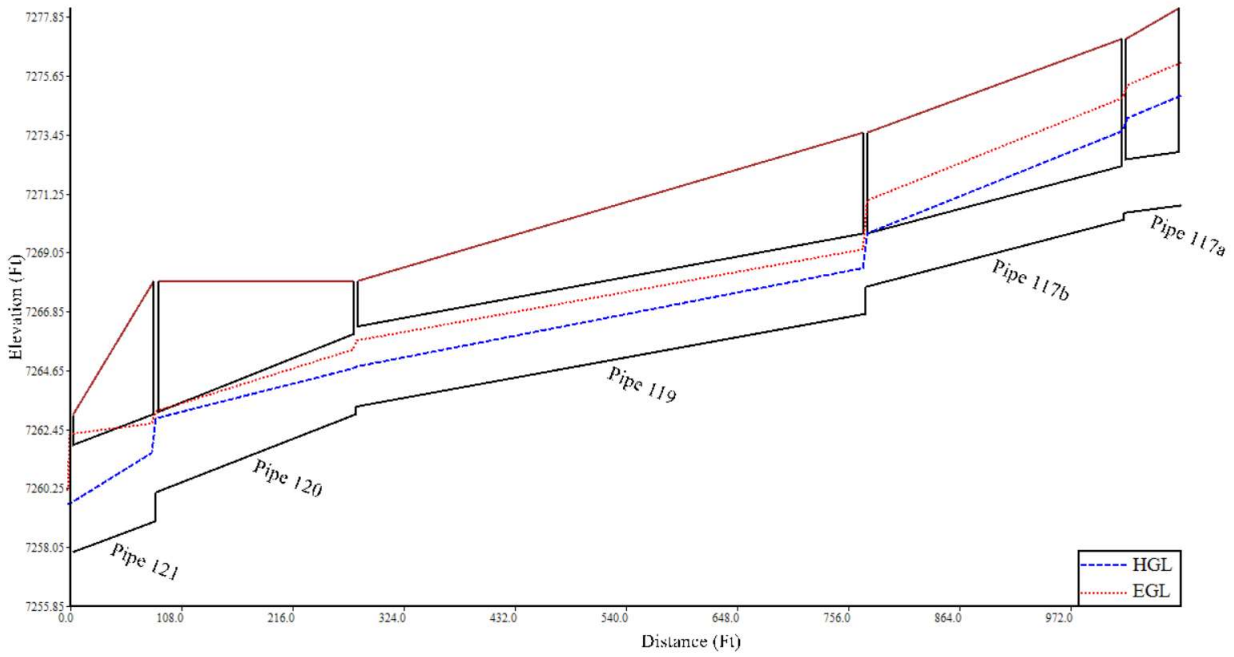
Tailwater Elevation (ft): 7259.69

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 121	7257.88	7259.04	0.00	0.00	7259.69	7261.59	7262.29	0.40	7262.69
Pipe 120	7260.11	7263.03	0.01	0.44	7262.88	7264.74	7263.14	2.30	7265.44
Pipe 119	7263.31	7266.78	0.01	0.00	7264.81	7268.49	7265.79	3.40	7269.19
Pipe 117b	7267.78	7270.30	0.06	0.00	7269.78	7273.62	7271.02	3.83	7274.85
Pipe 117a	7270.55	7270.83	0.47	0.00	7274.09	7274.93	7275.32	0.85	7276.17
Pipe 118	7268.29	7268.72	0.20	0.09	7268.94	7269.62	7269.79	0.21	7270.00
Pipe136	7260.04	7260.33	0.69	0.00	7262.73	7262.73	7263.38	0.14	7263.52

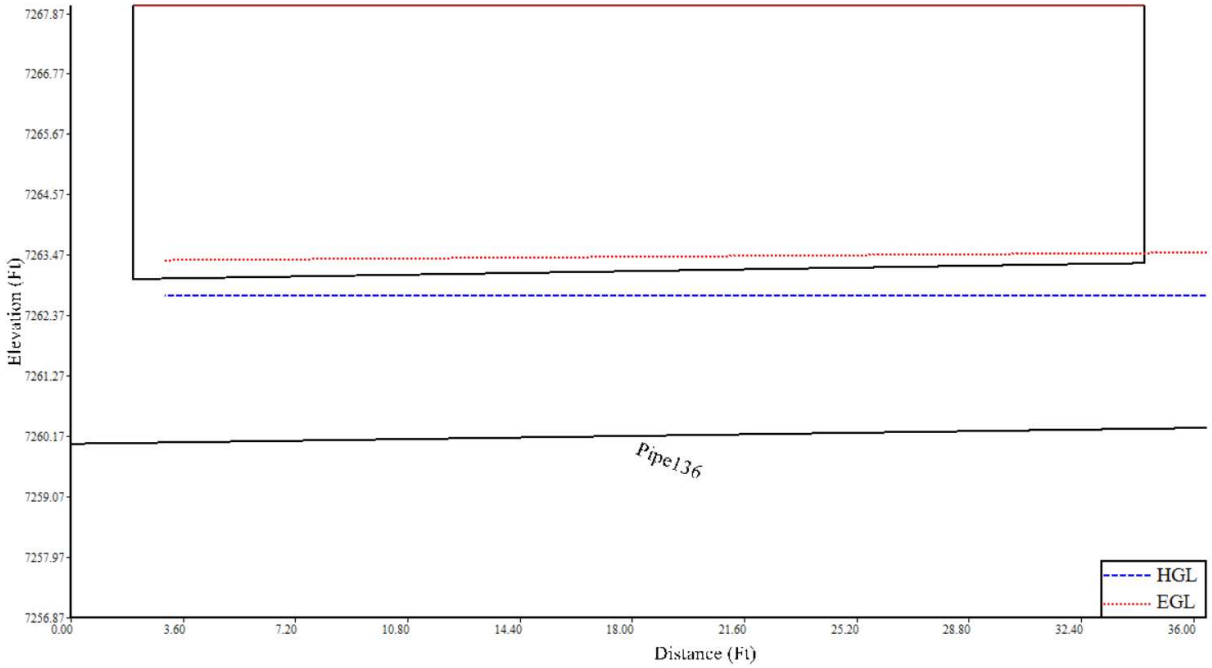
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

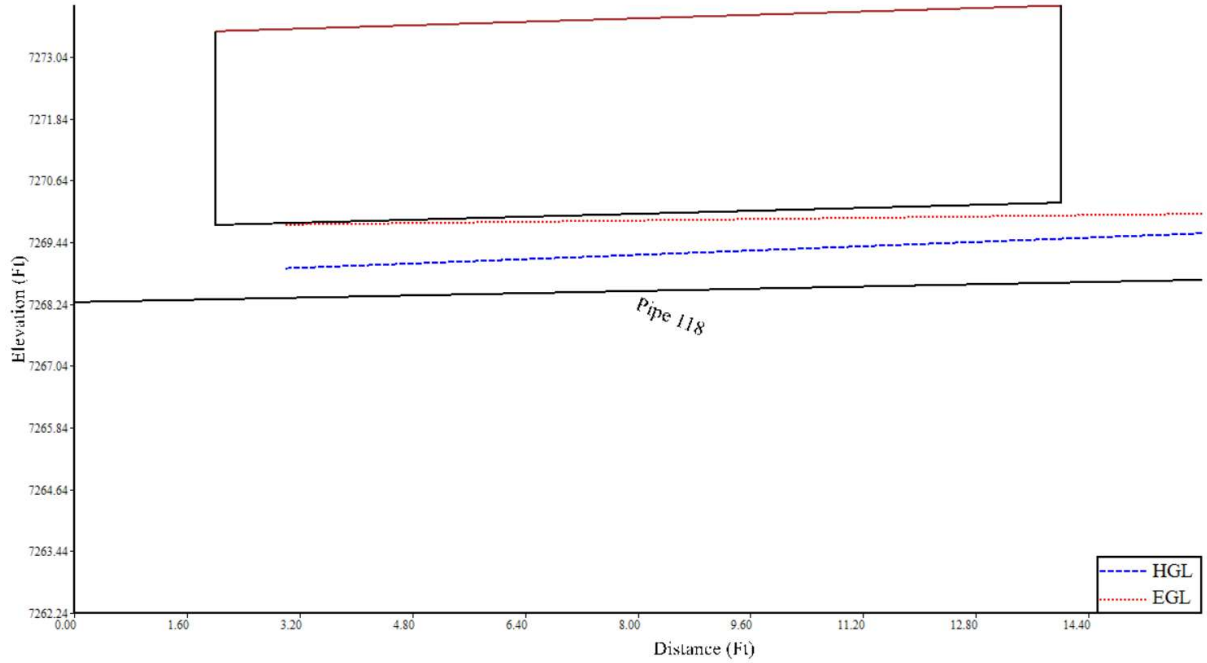
Stm-01



Stm-02

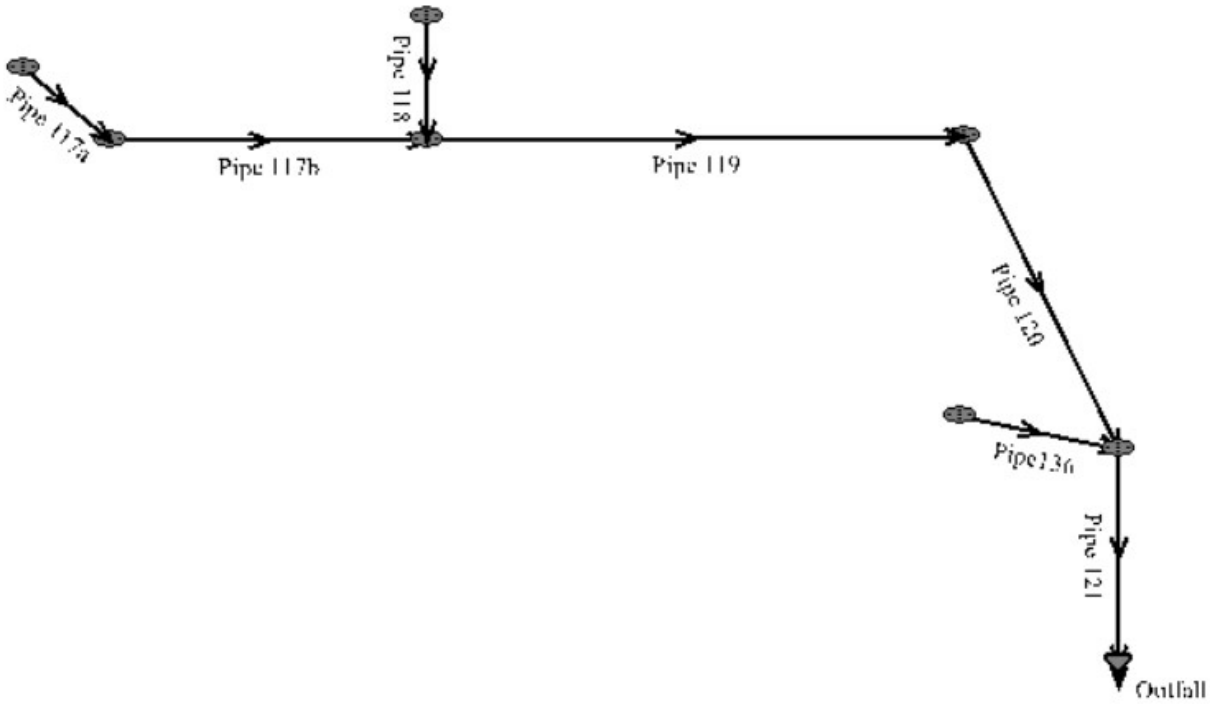


Stm-12


7273.04
7271.84
7270.64
7269.44
7268.24
7267.04
7265.84
7264.64
7263.44
7262.24
Elevation (Ft)
Pipe 118
0.00
1.60
3.20
4.80
6.40
8.00
9.60
11.20
12.80
14.40
Distance (Ft)
HGL
EGL

System: CD Stm-01, 02 and 12 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7259.21

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7263.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 121	7268.01	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 120	7268.01	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 119	7273.55	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 117b	7277.05	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 117a	7278.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 118	7274.05	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe136	7268.01	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution	Total Design Flow	

Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.70	
Pipe 120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	
Pipe 119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	
Pipe 117b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	
Pipe 117a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	
Pipe 118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	
Pipe136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.20	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 121	82.72	7257.88	1.4	7259.04	0.013	0.03	0.00	CIRCULAR	48.00 in	48.00 in
Pipe 120	194.35	7260.11	1.5	7263.03	0.013	0.05	0.25	CIRCULAR	36.00 in	36.00 in
Pipe 119	495.19	7263.31	0.7	7266.78	0.013	0.05	0.00	CIRCULAR	36.00 in	36.00 in
Pipe 117b	251.64	7267.78	1.0	7270.30	0.013	0.05	0.00	CIRCULAR	24.00 in	24.00 in
Pipe 117a	55.61	7270.55	0.5	7270.83	0.013	0.38	0.00	CIRCULAR	24.00 in	24.00 in

Pipe 118	16.00	7268.29	2.7	7268.72	0.013	1.32	1.00	CIRCULAR	18.00 in	18.00 in
Pipe136	36.40	7260.04	0.8	7260.33	0.013	1.19	1.00	CIRCULAR	36.00 in	36.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe 121	170.42	13.56	15.67	5.53	11.02	9.05	1.98	Supercritical	19.70	0.00	
Pipe 120	81.91	11.59	10.42	4.48	7.41	7.25	1.94	Supercritical	7.60	0.00	
Pipe 119	55.95	7.92	10.42	4.48	8.96	5.53	1.34	Supercritical	7.60	0.00	
Pipe 117b	22.68	7.22	11.76	4.96	9.57	6.50	1.48	Supercritical	7.60	0.00	
Pipe 117a	16.04	5.11	11.76	4.96	11.63	5.04	1.02	Supercritical	7.60	0.00	
Pipe 118	17.31	9.79	2.42	2.11	1.65	3.71	2.14	Supercritical	0.30	0.00	
Pipe136	59.82	8.46	13.31	5.14	11.03	6.64	1.44	Supercritical	12.20	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

	Existing	Calculated	Used	

Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 121	19.70	CIRCULAR	48.00 in	48.00 in	24.00 in	24.00 in	48.00 in	48.00 in	12.57	Exceeds max. Depth/Rise
Pipe 120	7.60	CIRCULAR	36.00 in	36.00 in	18.00 in	18.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 119	7.60	CIRCULAR	36.00 in	36.00 in	18.00 in	18.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 117b	7.60	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 117a	7.60	CIRCULAR	24.00 in	24.00 in	21.00 in	21.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 118	0.30	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe136	12.20	CIRCULAR	36.00 in	36.00 in	21.00 in	21.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

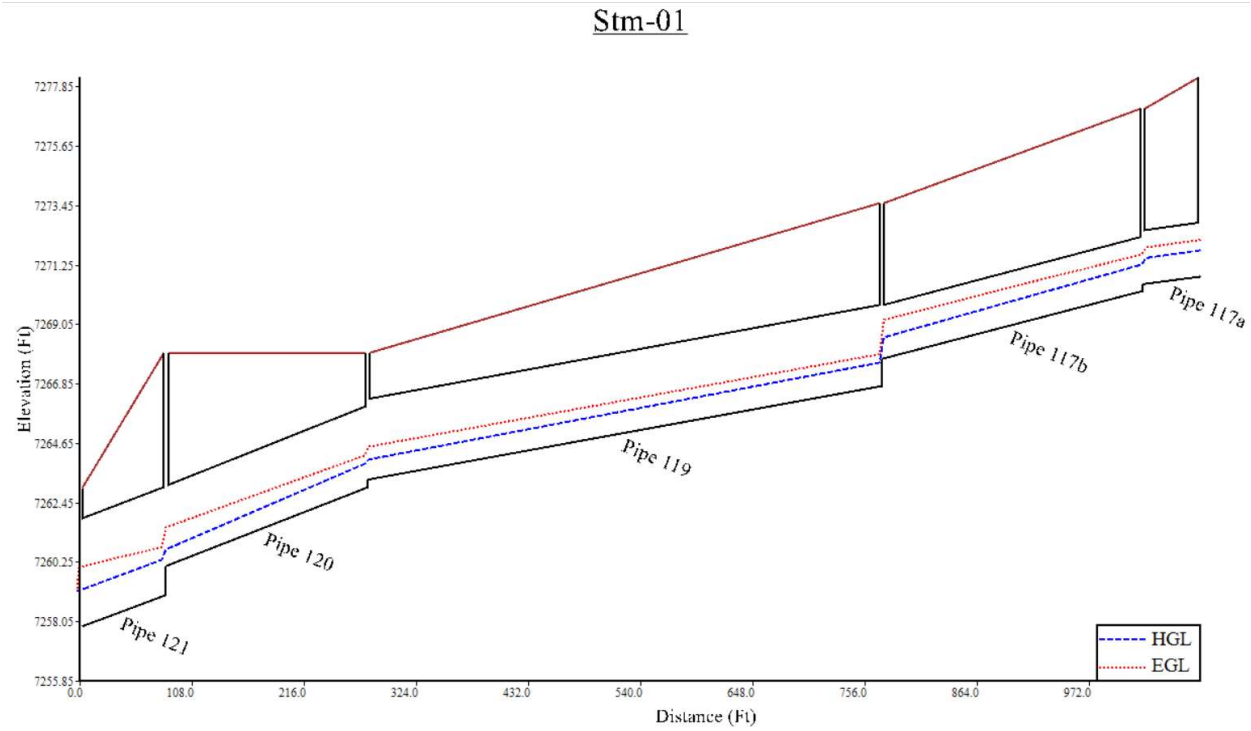
Tailwater Elevation (ft): 7259.21

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe 121	7257.88	7259.04	0.00	0.00	7259.21	7260.35	7260.07	0.75	7260.82
Pipe 120	7260.11	7263.03	0.00	0.03	7260.73	7263.90	7261.55	2.66	7264.21

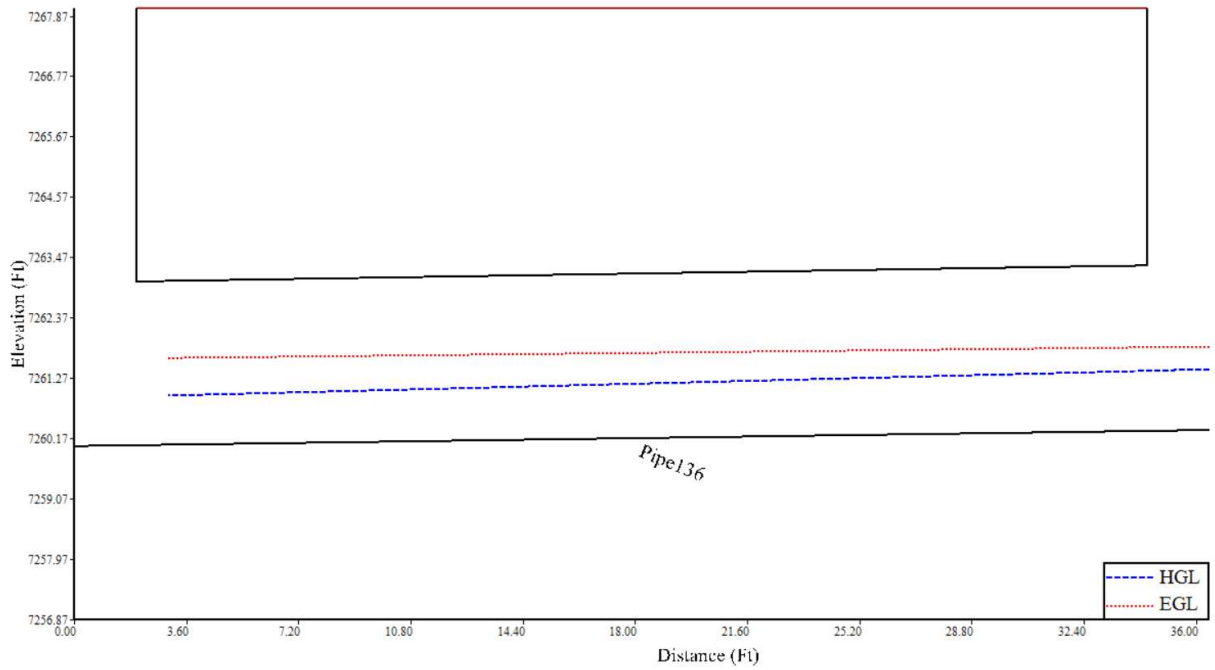
Pipe 119	7263.31	7266.78	0.00	0.00	7264.06	7267.65	7264.54	3.42	7267.96
Pipe 117b	7267.78	7270.30	0.00	0.00	7268.58	7271.28	7269.24	2.42	7271.66
Pipe 117a	7270.55	7270.83	0.03	0.00	7271.52	7271.81	7271.91	0.28	7272.19
Pipe 118	7268.29	7268.72	0.00	0.02	7268.43	7268.92	7268.64	0.35	7268.99
Pipe136	7260.04	7260.33	0.06	0.00	7260.96	7261.44	7261.64	0.21	7261.85

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

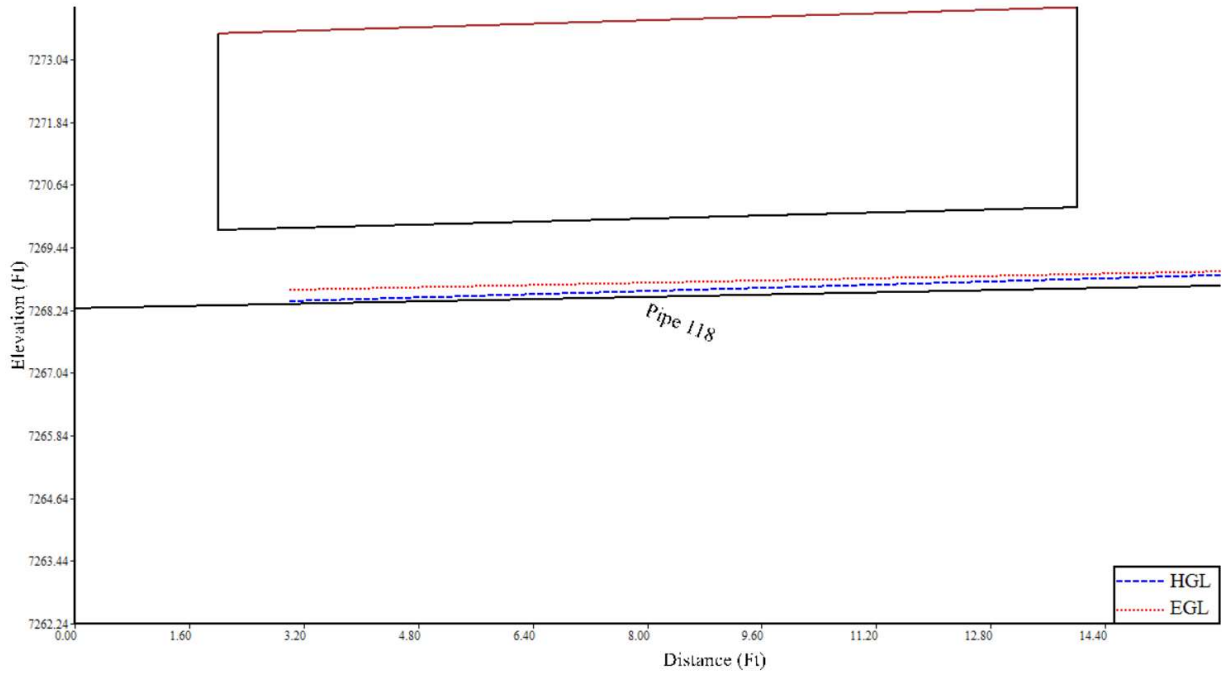
Profile(s):



Stm-02

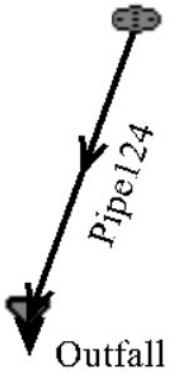

7267.87
7266.77
7265.67
7264.57
7263.47
7262.37
7261.27
7260.17
7259.07
7257.97
7256.87
Elevation (Ft)
Pipe136
HGL
EGL
0.00
3.60
7.20
10.80
14.40
18.00
21.60
25.20
28.80
32.40
36.00
Distance (Ft)

Stm-12


7273.04
7271.84
7270.64
7269.44
7268.24
7267.04
7265.84
7264.64
7263.44
7262.24
Elevation (Ft)
Pipe 118
HGL
EGL
0.00
1.60
3.20
4.80
6.40
8.00
9.60
11.20
12.80
14.40
Distance (Ft)

System: CD Stm-03 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7267.18

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7266.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe124	7273.56	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface Water Present (Upstream)
Pipe124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	Surface Water Present (Downstream)

Sewer Input Summary:

	Elevation	Loss Coefficients	Given Dimensions

Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe124	80.56	7263.00	7.0	7268.64	0.013	0.00	0.00	CIRCULAR	18.00 in	18.00 in

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Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe124	27.87	15.77	8.94	4.34	4.49	11.03	3.78	Supercritical Jump	3.80	39.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe124	3.80	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.

- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

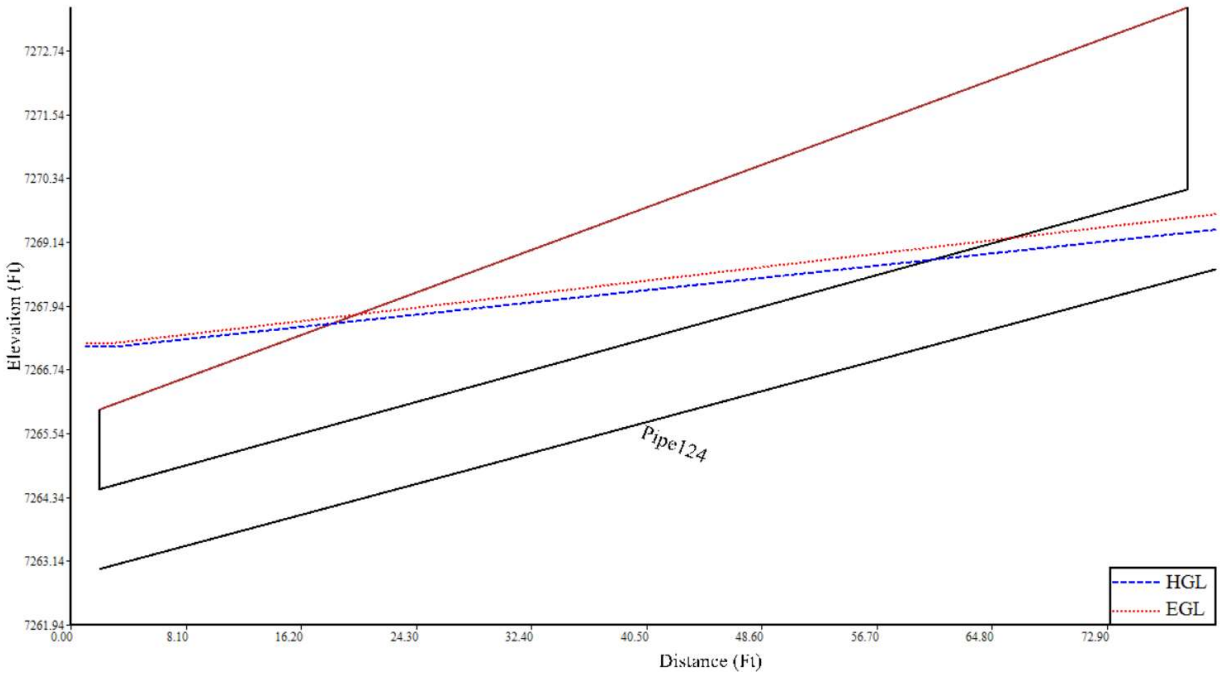
Tailwater Elevation (ft): 7267.18

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe124	7263.00	7268.64	0.00	0.00	7267.18	7269.39	7267.25	2.43	7269.68

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

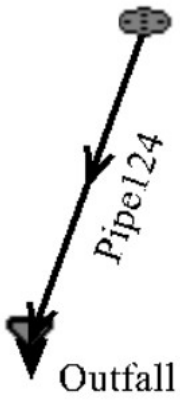
Profile(s):

Stm-03


7272.74
7271.54
7270.34
7269.14
7267.94
7266.74
7265.54
7264.34
7263.14
7261.94
Elevation (Ft)
0.00
8.10
16.20
24.30
32.40
40.50
48.60
56.70
64.80
72.90
Distance (Ft)
Pipe124
HGL
EGL

System: CD Stm-03 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7266.50

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7266.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe124	7273.56	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface Water Present (Upstream)
Pipe124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	Surface Water Present (Downstream)

Sewer Input Summary:

	Elevation	Loss Coefficients	Given Dimensions

Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe124	80.56	7263.00	7.0	7268.64	0.013	0.00	0.00	CIRCULAR	18.00 in	18.00 in

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Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe124	27.87	15.77	6.56	3.60	3.34	9.28	3.71	Supercritical Jump	2.10	28.72	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe124	2.10	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.

- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

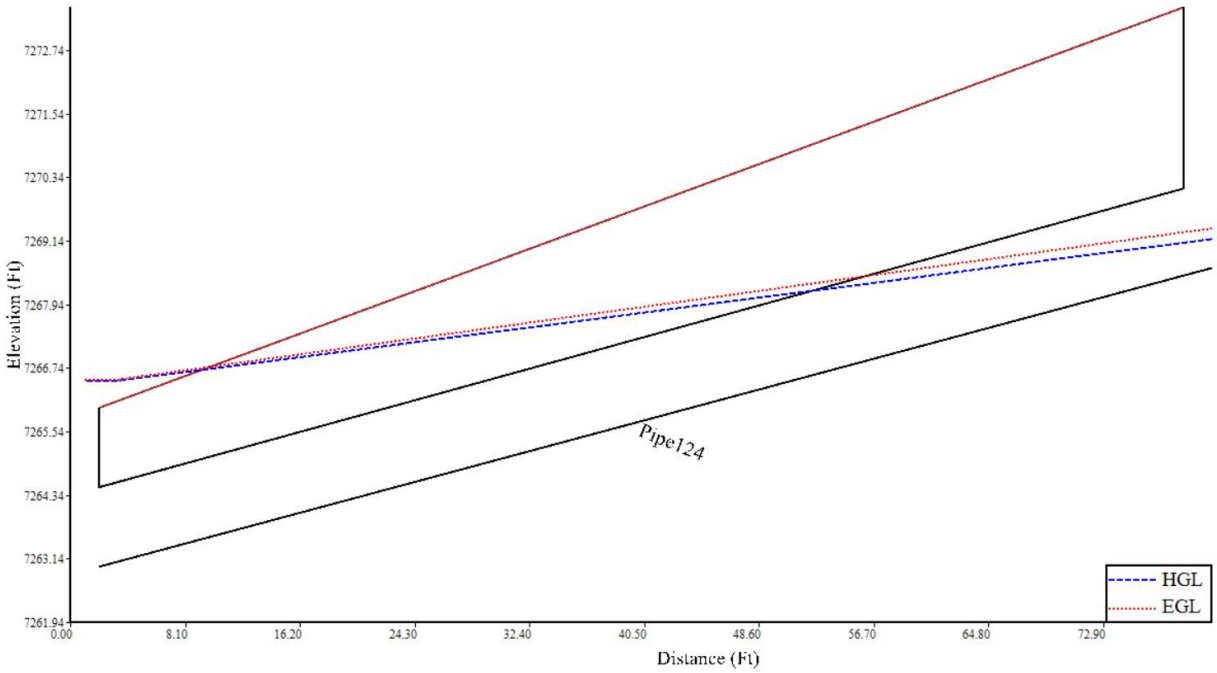
Tailwater Elevation (ft): 7266.50

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe124	7263.00	7268.64	0.00	0.00	7266.50	7269.19	7266.52	2.87	7269.39

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

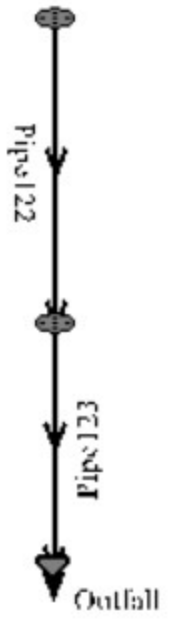
Profile(s):

Stm-03


7272.74
7271.54
7270.34
7269.14
7267.94
7266.74
7265.54
7264.34
7263.14
7261.94
Elevation (Ft)
0.00
8.10
16.20
24.30
32.40
40.50
48.60
56.70
64.80
72.90
Distance (Ft)
Pipe124
HGL
EGL

System: CD Stm-05 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7267.18

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe123	7273.28	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe122	7273.28	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	**Overland Time (min)**	**Gutter Time (min)**	**Basin Tc (min)**	**Intensity (in/hr)**	**Local Contrib (cfs)**	**Coeff. Area**	**Intensity (in/hr)**	**Manhole Tc (min)**	**Peak Flow (cfs)**	**Comment**
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface Water Present (Upstream)
Pipe123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00	Surface Water

										Present (Downstream)
Pipe122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.50	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Manning s n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe123	70.49	7264.05	3.3	7266.38	0.013	0.03	0.00	CIRCULAR	30.00 in	30.00 in
Pipe122	53.00	7266.88	2.0	7267.94	0.013	0.05	0.00	CIRCULAR	24.00 in	24.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe123	74.71	15.22	26.70	9.75	16.79	15.92	2.63	Supercritical Jump	45.00	29.78	
Pipe122	32.08	10.21	20.29	7.94	14.82	11.05	1.90	Supercritical Jump	22.50	43.77	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe123	45.00	CIRCULAR	30.00 in	30.00 in	27.00 in	27.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe122	22.50	CIRCULAR	24.00 in	24.00 in	24.00 in	24.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

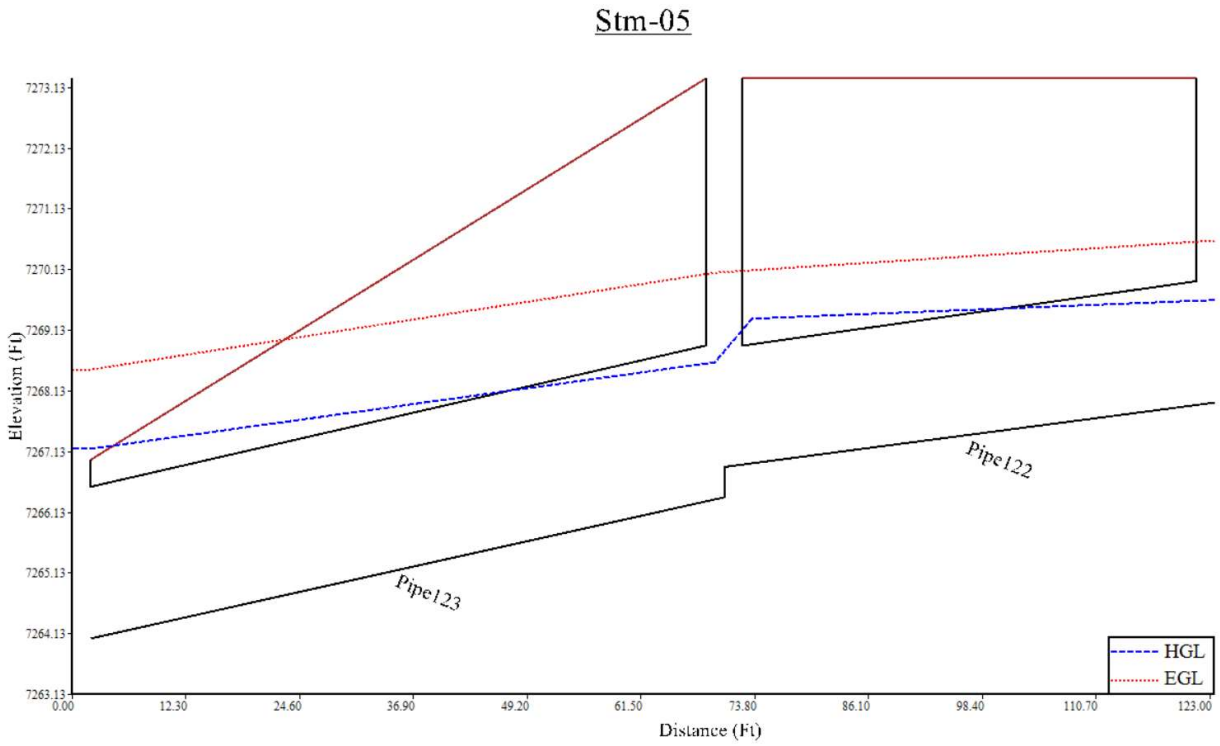
Tailwater Elevation (ft): 7267.18

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe123	7264.05	7266.38	0.00	0.00	7267.18	7268.61	7268.48	1.60	7270.08
Pipe122	7266.88	7267.94	0.04	0.00	7269.32	7269.63	7270.12	0.49	7270.61

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).

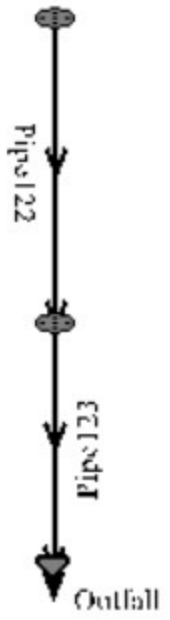
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



System: CD Stm-05 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7266.50

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe123	7273.28	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe122	7273.28	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	**Overland Time (min)**	**Gutter Time (min)**	**Basin Tc (min)**	**Intensity (in/hr)**	**Local Contrib (cfs)**	**Coeff. Area**	**Intensity (in/hr)**	**Manhole Tc (min)**	**Peak Flow (cfs)**	**Comment**
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.30	
Pipe122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.10	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe123	70.49	7264.05	3.3	7266.38	0.013	0.03	0.00	CIRCULAR	30.00 in	30.00 in
Pipe122	53.00	7266.88	2.0	7267.94	0.013	0.05	0.00	CIRCULAR	24.00 in	24.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe123	74.71	15.22	20.15	6.93	11.77	13.60	2.80	Supercritical	24.30	0.00	
Pipe122	32.08	10.21	15.00	5.86	10.22	9.49	2.08	Supercritical	12.10	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

	Existing	Calculated	Used	

Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe123	24.30	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe122	12.10	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

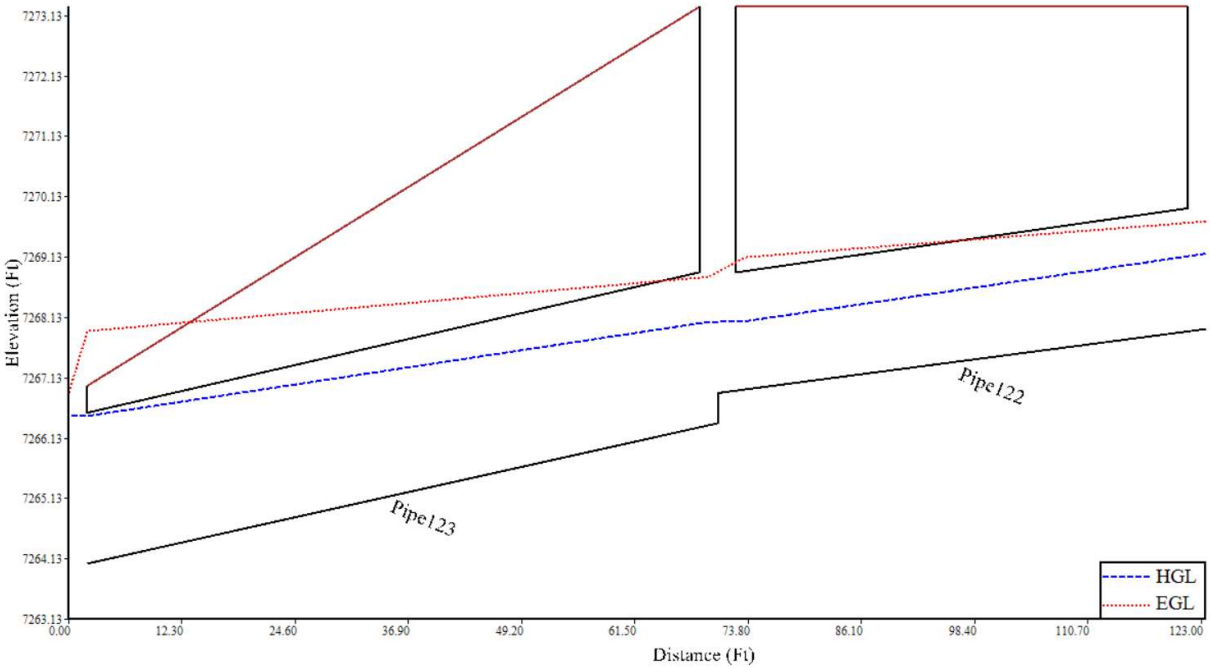
Tailwater Elevation (ft): 7266.50

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe123	7264.05	7266.38	0.00	0.00	7266.50	7268.06	7267.91	0.90	7268.81
Pipe122	7266.88	7267.94	0.01	0.00	7268.07	7269.19	7269.13	0.59	7269.72

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

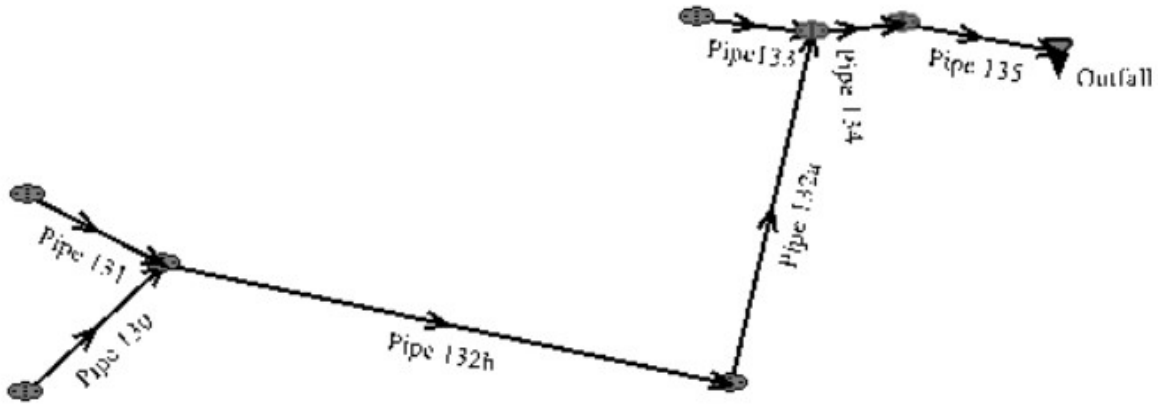
Profile(s):

Stm-05


7273.13
7272.13
7271.13
7270.13
7269.13
7268.13
7267.13
7266.13
7265.13
7264.13
7263.13
Elevation (Ft)
0.00
12.30
24.60
36.90
49.20
61.50
73.80
86.10
98.40
110.70
123.00
Distance (Ft)
Pipe123
Pipe122
HGL
EGL

System: CD Stm-06, 07 and 08 100yr

Diagram:



Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7267.18

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7268.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 135	7273.95	53.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 134	7273.29	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 132a	7278.30	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 132b	7282.98	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 130	7283.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 131	7283.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe133	7273.95	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	**Overland Time (min)**	**Gutter Time (min)**	**Basin Tc (min)**	**Intensity (in/hr)**	**Local Contrib (cfs)**	**Coeff. Area**	**Intensity (in/hr)**	**Manhole Tc (min)**	**Peak Flow (cfs)**	**Comment**
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.20	

Pipe 134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.50	
Pipe 132a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.80	
Pipe 132b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.80	
Pipe 130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.90	
Pipe 131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.90	
Pipe133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.70	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Manning s n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe 135	39.92	7265.96	1.5	7266.56	0.013	0.03	0.00	CIRCULAR	36.00 in	36.00 in
Pipe 134	26.02	7267.06	2.0	7267.58	0.013	0.05	0.00	CIRCULAR	30.00 in	30.00 in
Pipe 132a	182.61	7267.89	2.3	7272.09	0.013	1.19	0.25	CIRCULAR	30.00 in	30.00 in
Pipe 132b	273.78	7272.37	1.7	7277.02	0.013	1.32	0.00	CIRCULAR	30.00 in	30.00 in
Pipe 130	28.78	7277.52	6.3	7279.33	0.013	0.63	0.44	CIRCULAR	24.00 in	24.00 in
Pipe 131	6.43	7277.52	4.0	7277.78	0.013	0.38	0.44	CIRCULAR	30.00 in	30.00 in
Pipe133	6.16	7267.83	6.7	7268.24	0.013	1.19	1.00	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

Unresolved:
How did this flow drop 75 cfs (156.84 to 81.9) when none of the other pipes decreased and this pipe is the last segment?

	ll Flow pacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 135	81.91	11.59	28.44	8.88	21.13	12.33	1.80	Supercritical	53.20	0.00	
Pipe 134	58.16	11.85	25.92	9.20	18.73	12.87	1.97	Supercritical	41.50	0.00	
Pipe 132a	62.37	12.71	22.33	7.61	14.61	12.56	2.27	Supercritical Jump	29.80	105.87	
Pipe 132b	53.62	10.92	22.33	7.61	15.98	11.21	1.91	Supercritical	29.80	0.00	
Pipe 130	56.93	18.12	16.69	6.39	8.38	15.26	3.76	Supercritical Jump	14.90	9.40	
Pipe 131	82.26	16.76	15.61	5.77	8.65	12.72	3.12	Supercritical	14.90	0.00	
Pipe133	106.46	21.69	13.76	5.33	6.72	14.26	4.00	Pressurized	11.70	6.16	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 135	53.20	CIRCULAR	36.00 in	36.00 in	33.00 in	33.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 134	41.50	CIRCULAR	30.00 in	30.00 in	27.00 in	27.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

Pipe 132a	29.80	CIRCULAR	30.00 in	30.00 in	24.00 in	24.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 132b	29.80	CIRCULAR	30.00 in	30.00 in	27.00 in	27.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 130	14.90	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 131	14.90	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe133	11.70	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

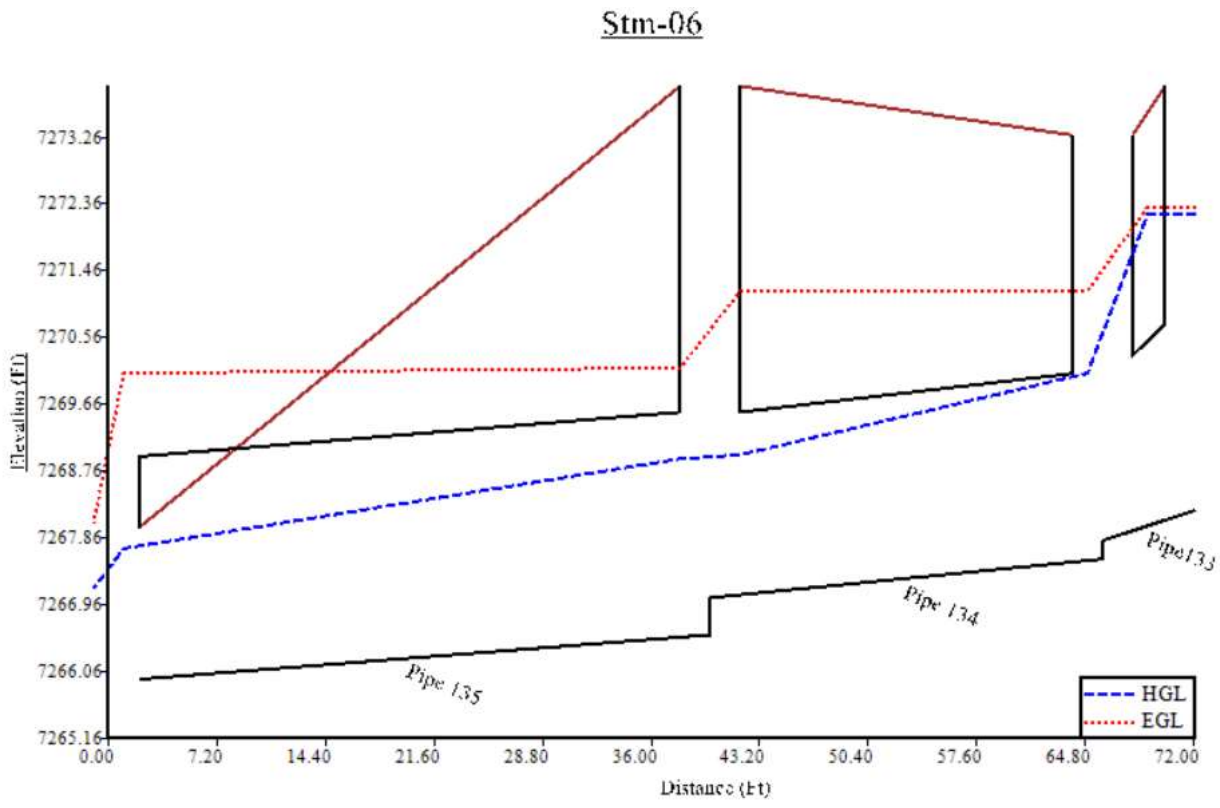
Tailwater Elevation (ft): 7267.18

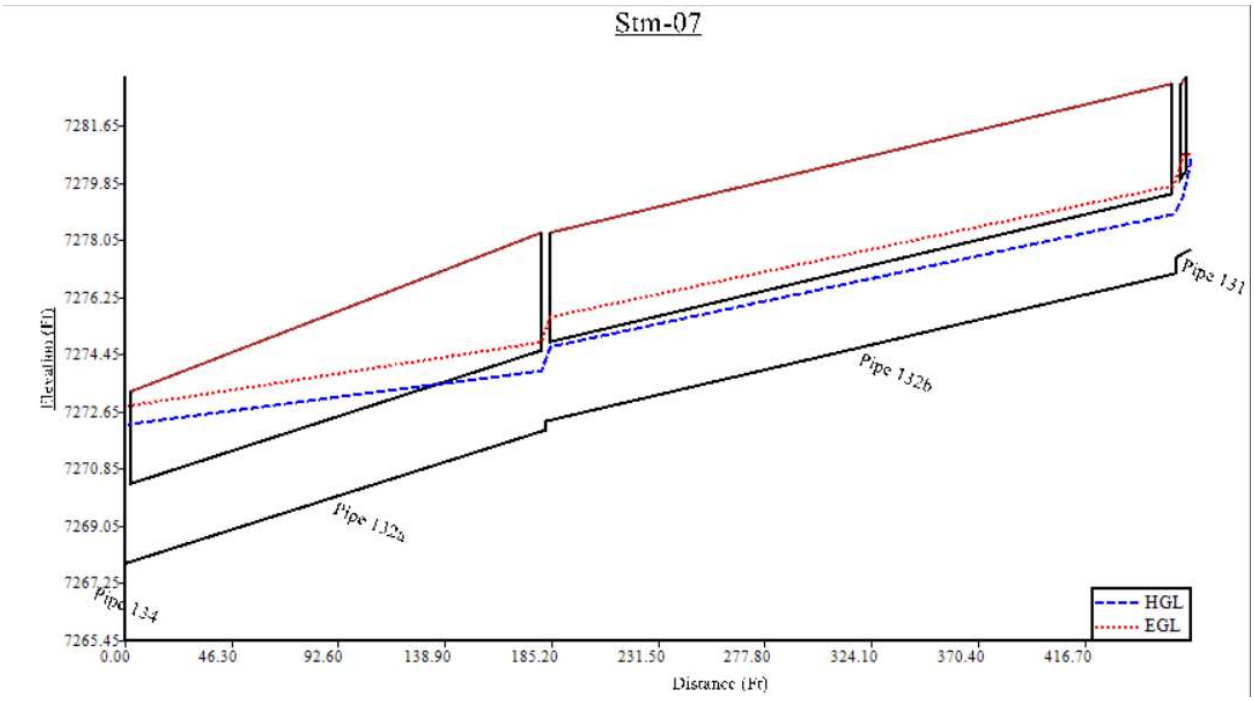
	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 135	7265.96	7266.56	0.00	0.00	7267.72	7268.93	7270.08	0.07	7270.16
Pipe 134	7267.06	7267.58	0.06	0.00	7268.99	7270.08	7271.19	0.00	7271.19
Pipe 132a	7267.89	7272.09	0.68	0.97	7272.27	7273.95	7272.84	2.01	7274.85
Pipe 132b	7272.37	7277.02	0.76	0.00	7274.71	7278.88	7275.65	4.13	7279.78
Pipe 130	7277.52	7279.33	0.22	0.42	7280.07	7280.72	7280.42	0.94	7281.35

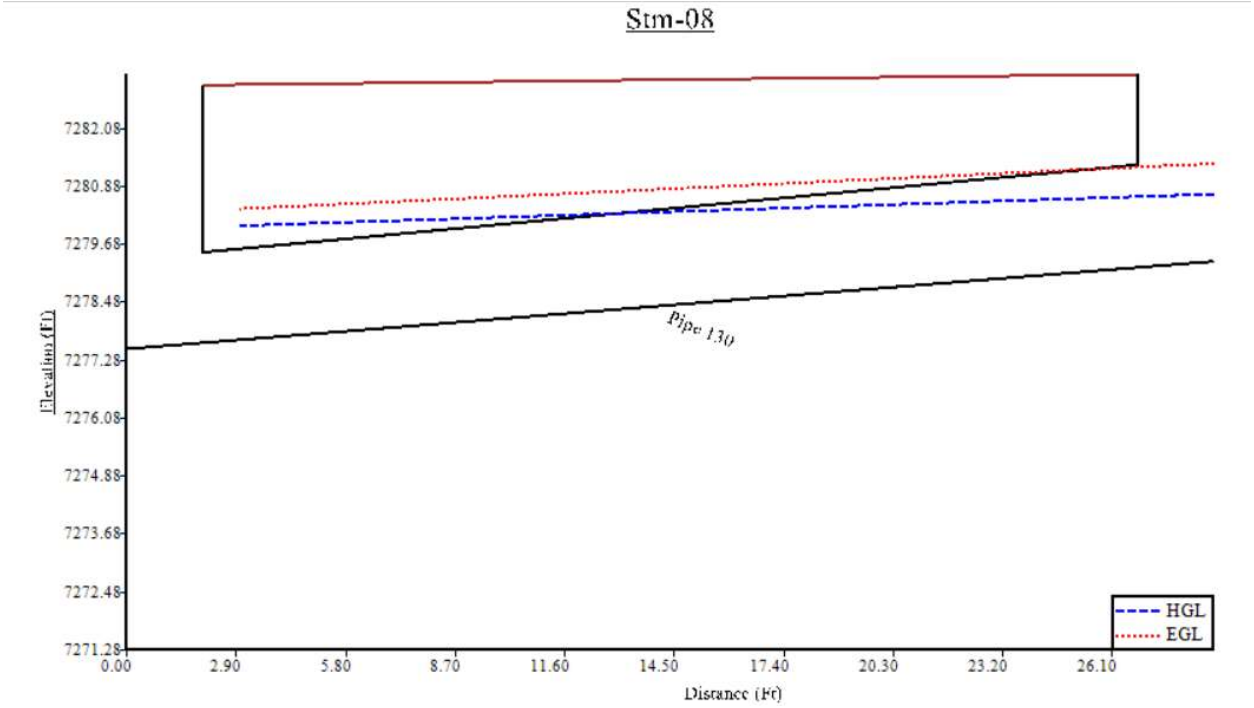
Pipe 131	7277.52	7277.78	0.05	0.51	7279.44	7280.61	7280.76	0.00	7280.76
Pipe133	7267.83	7268.24	0.10	1.02	7272.23	7272.24	7272.32	0.00	7272.33

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

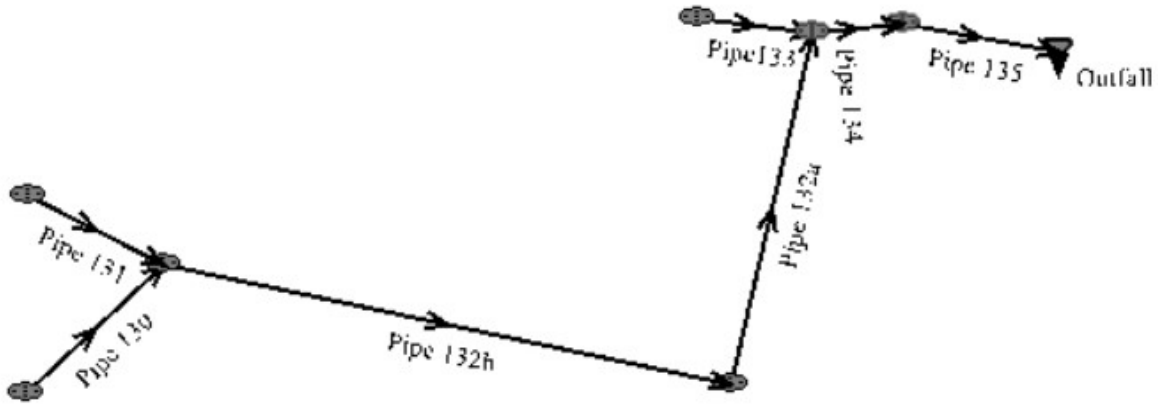



Stm-07
Elevation (Ft)
7281.65
7279.85
7278.05
7276.25
7274.45
7272.65
7270.85
7269.05
7267.25
7265.45
Pipe 131
Pipe 132b
Pipe 132a
Pipe 134
HGL
EGL
0.00
46.30
92.60
138.90
185.20
231.50
277.80
324.10
370.40
416.70
Distance (Ft)


Stm-08
Elevation (Ft)
7282.08
7280.88
7279.68
7278.48
7277.28
7276.08
7274.88
7273.68
7272.48
7271.28
Pipe 130
HGL
EGL
0.00
2.90
5.80
8.70
11.60
14.50
17.40
20.30
23.20
26.10
Distance (Ft)

System: CD Stm-06, 07 and 08 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7266.50

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7268.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 135	7273.95	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 134	7273.29	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 132a	7278.30	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 132b	7282.98	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 130	7283.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 131	7283.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe133	7273.95	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	**Overland Time (min)**	**Gutter Time (min)**	**Basin Tc (min)**	**Intensity (in/hr)**	**Local Contrib (cfs)**	**Coeff. Area**	**Intensity (in/hr)**	**Manhole Tc (min)**	**Peak Flow (cfs)**	**Comment**
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Pipe 135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00	
Pipe 134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.80	
Pipe 132a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.60	
Pipe 132b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.60	
Pipe 130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.80	
Pipe 131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.80	
Pipe133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Manning s n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe 135	39.92	7265.96	1.5	7266.56	0.013	0.03	0.00	CIRCULAR	36.00 in	36.00 in
Pipe 134	26.02	7267.06	2.0	7267.58	0.013	0.05	0.00	CIRCULAR	30.00 in	30.00 in
Pipe 132a	182.61	7267.89	2.3	7272.09	0.013	1.19	0.25	CIRCULAR	30.00 in	30.00 in
Pipe 132b	273.78	7272.37	1.7	7277.02	0.013	1.32	0.00	CIRCULAR	30.00 in	30.00 in
Pipe 130	28.78	7277.52	6.3	7279.33	0.013	0.63	0.44	CIRCULAR	24.00 in	24.00 in
Pipe 131	6.43	7277.52	4.0	7277.78	0.013	0.38	0.44	CIRCULAR	30.00 in	30.00 in
Pipe133	6.16	7267.83	6.7	7268.24	0.013	1.19	1.00	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 135	81.91	11.59	20.54	6.72	14.51	10.49	1.94	Supercritical	28.00	0.00	
Pipe 134	58.16	11.85	19.05	6.63	12.72	11.00	2.16	Supercritical	21.80	0.00	
Pipe 132a	62.37	12.71	15.99	5.86	10.23	10.56	2.36	Supercritical	15.60	0.00	
Pipe 132b	53.62	10.92	15.99	5.86	11.08	9.47	2.02	Supercritical	15.60	0.00	
Pipe 130	56.93	18.12	11.92	5.01	6.00	12.70	3.76	Supercritical	7.80	0.00	
Pipe 131	82.26	16.76	11.14	4.70	6.24	10.55	3.08	Supercritical	7.80	0.00	
Pipe133	106.46	21.69	9.89	4.40	4.91	11.83	3.92	Supercritical	6.20	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 135	28.00	CIRCULAR	36.00 in	36.00 in	27.00 in	27.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 134	21.80	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

Pipe 132a	15.60	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 132b	15.60	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 130	7.80	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 131	7.80	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe133	6.20	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

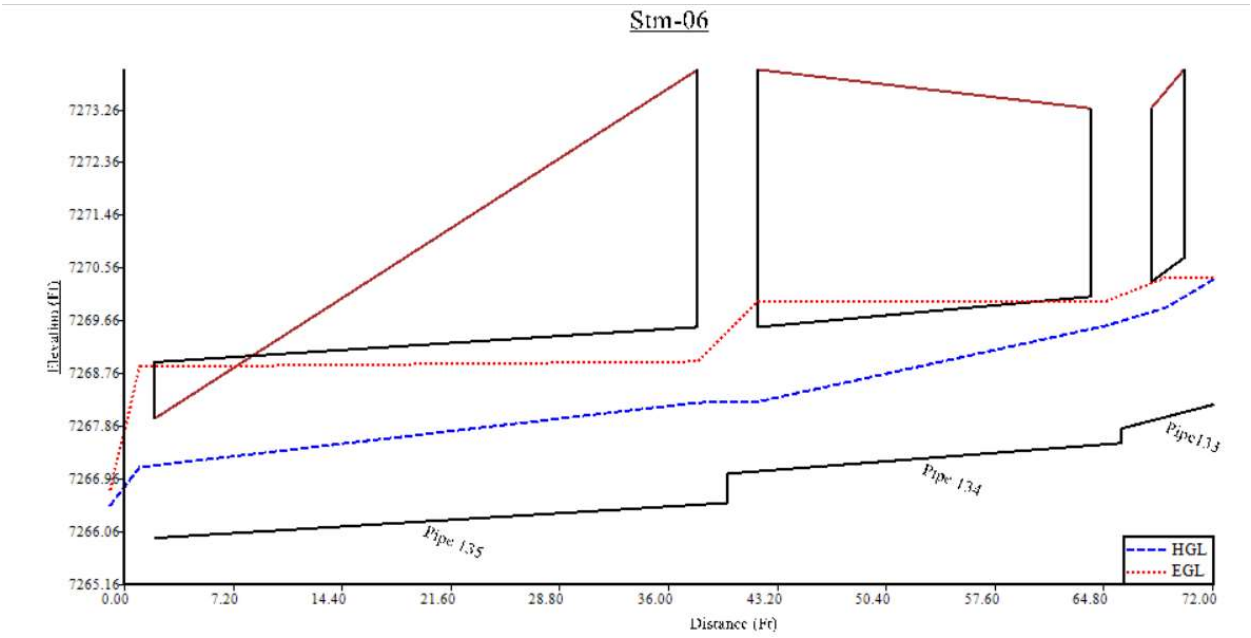
Tailwater Elevation (ft): 7266.50

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 135	7265.96	7266.56	0.00	0.00	7267.17	7268.27	7268.88	0.09	7268.97
Pipe 134	7267.06	7267.58	0.02	0.00	7268.29	7269.58	7270.00	0.00	7270.00
Pipe 132a	7267.89	7272.09	0.19	0.27	7270.04	7273.42	7270.47	3.48	7273.96
Pipe 132b	7272.37	7277.02	0.21	0.00	7273.63	7278.35	7274.68	4.20	7278.89
Pipe 130	7277.52	7279.33	0.06	0.11	7278.53	7280.32	7280.52	0.19	7280.71

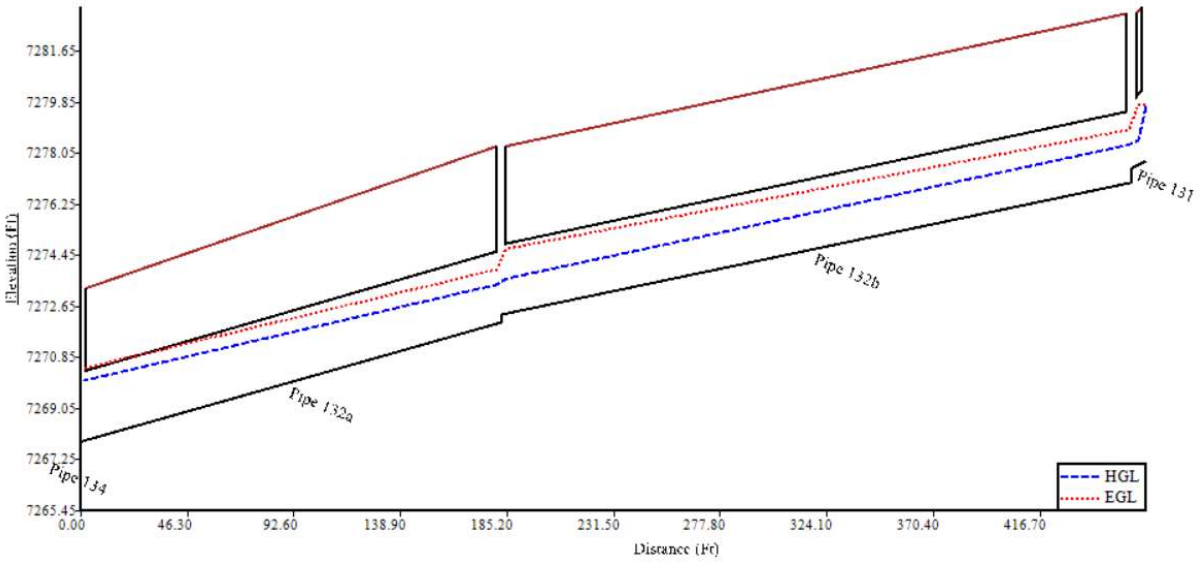
Pipe 131	7277.52	7277.78	0.01	0.14	7278.51	7279.71	7279.77	0.00	7279.77
Pipe133	7267.83	7268.24	0.03	0.28	7269.89	7270.38	7270.41	0.00	7270.41

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

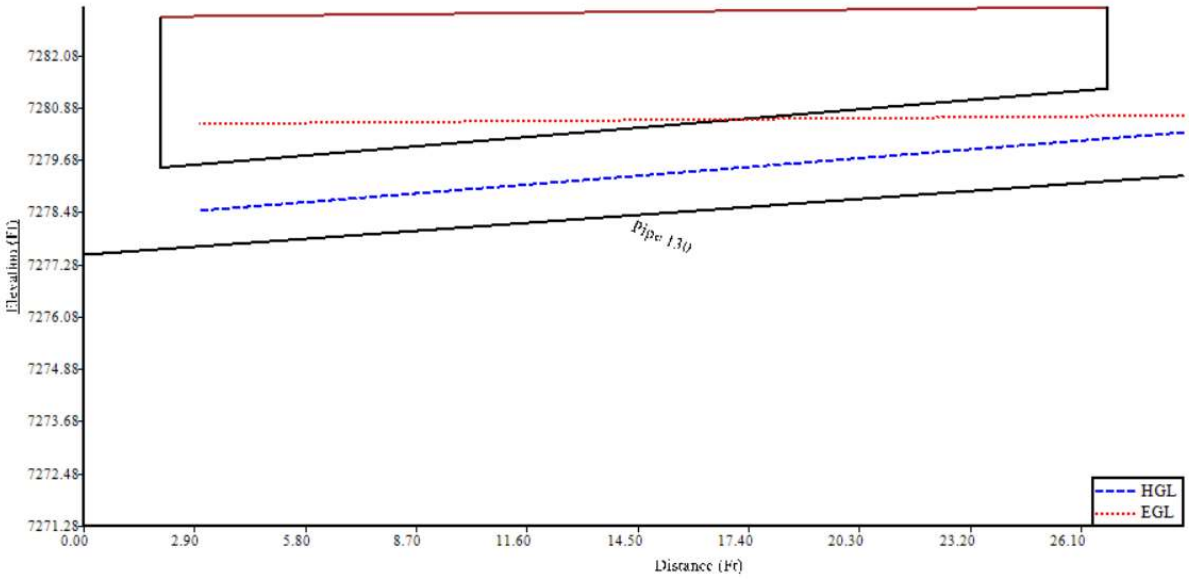
Profile(s):



STm-07

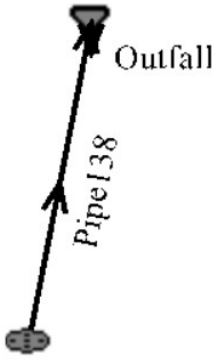

7281.65
7279.85
7278.05
7276.25
7274.45
7272.65
7270.85
7269.05
7267.25
7265.45
Elevation (Ft)
0.00
46.30
92.60
138.90
185.20
231.50
277.80
324.10
370.40
416.70
Distance (Ft)
Pipe 134
Pipe 132a
Pipe 132b
Pipe 131
HGL
EGL

Stm-08


7282.08
7280.88
7279.68
7278.48
7277.28
7276.08
7274.88
7273.68
7272.48
7271.28
Elevation (Ft)
0.00
2.90
5.80
8.70
11.60
14.50
17.40
20.30
23.20
26.10
Distance (Ft)
Pipe 130
HGL
EGL

System: CD Stm-09 100yr

Diagram:



System Input Summary

Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7264.39

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7266.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe138	7273.01	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)

Pipe138	63.97	7263.31	5.5	7266.83	0.013	0.03	0.00	CIRCULAR	18.00 in	18.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe138	24.70	13.98	11.83	5.28	6.30	11.79	3.35	Supercritical	6.50	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe138	6.50	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

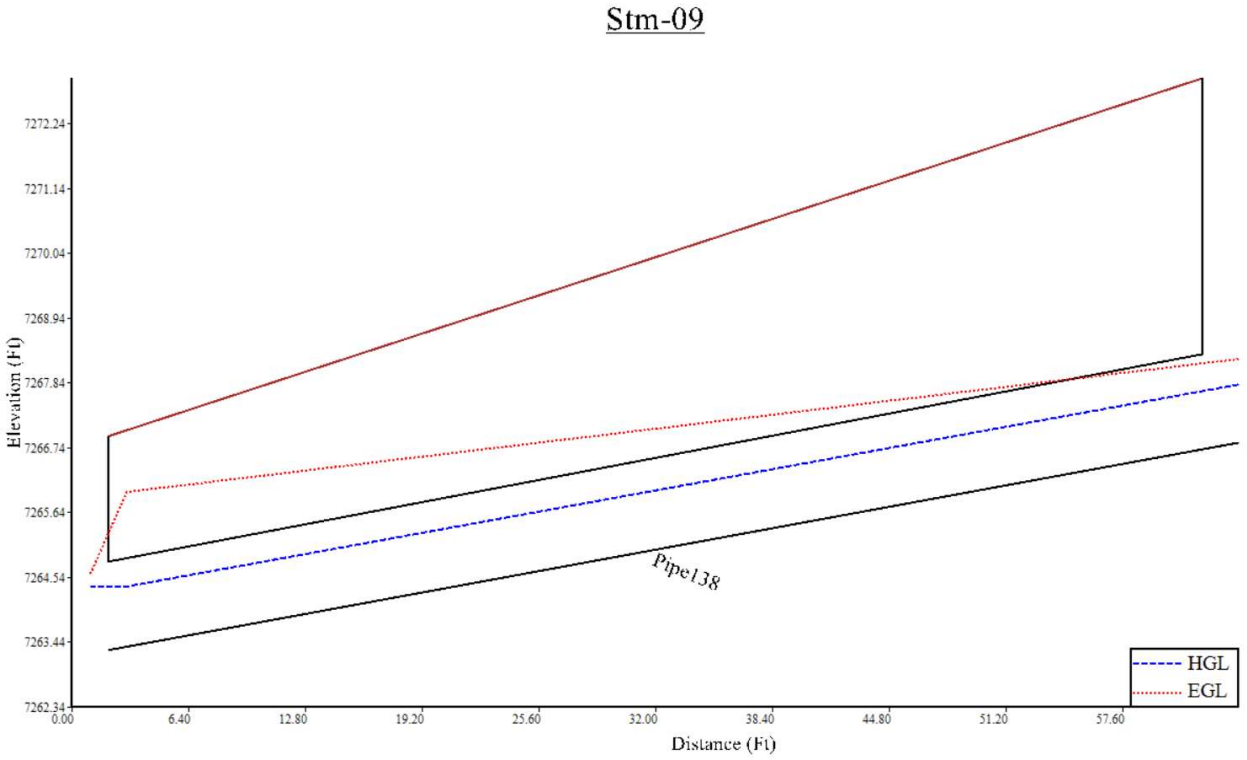
Grade Line Summary:

Tailwater Elevation (ft): 7264.39

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe138	7263.31	7266.83	0.00	0.00	7264.39	7267.82	7265.99	2.25	7268.25

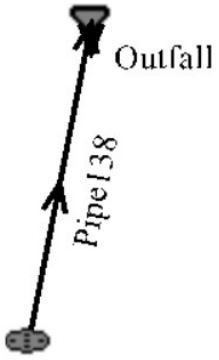
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



System: CD Stm-09 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7263.79

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7266.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe138	7273.01	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe138	63.97	7263.31	5.5	7266.83	0.013	0.03	0.00	CIRCULAR	18.00 in	18.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe138	24.70	13.98	5.70	3.33	3.10	7.87	3.27	Supercritical	1.60	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe138	1.60	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

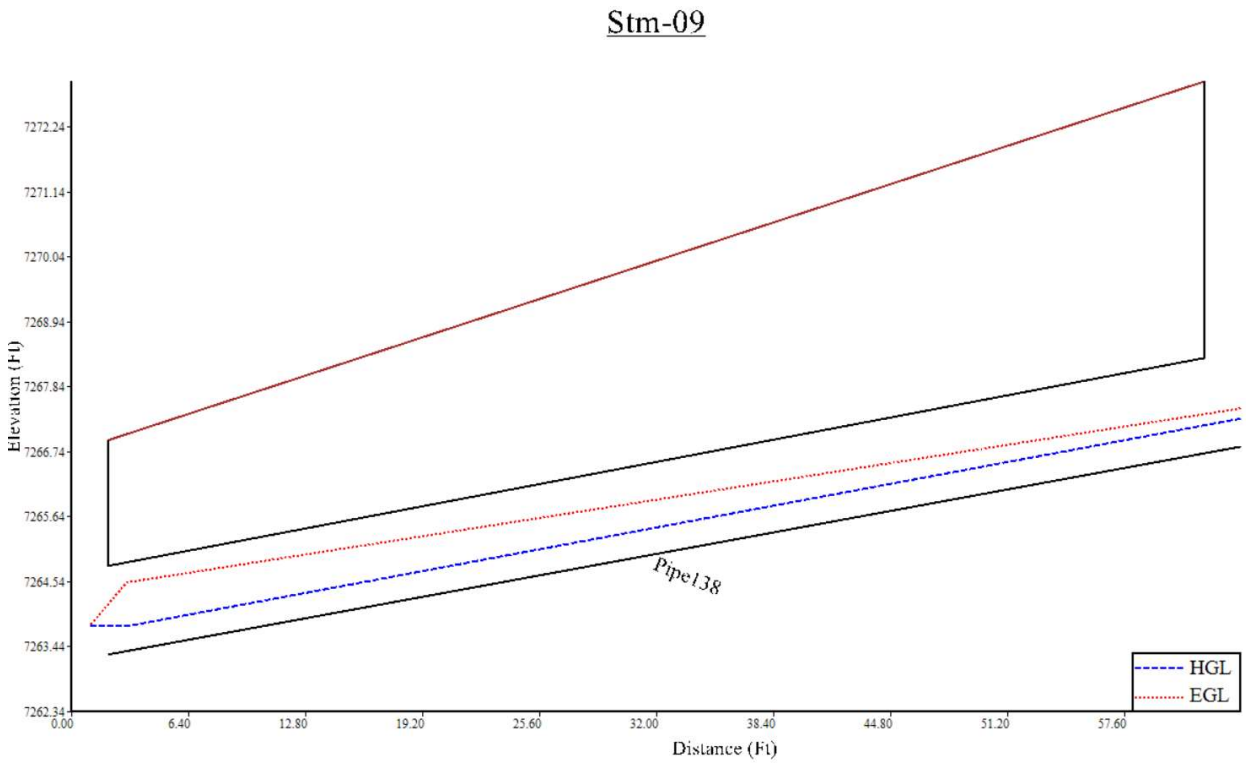
Grade Line Summary:

Tailwater Elevation (ft): 7263.79

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe138	7263.31	7266.83	0.00	0.00	7263.79	7267.31	7264.53	2.95	7267.48

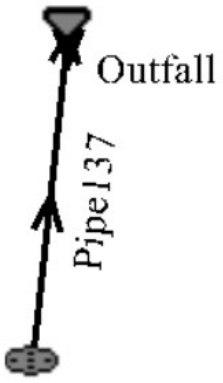
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



System: CD Stm-10 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7274.05

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7273.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe137	7276.37	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface Water Present (Upstream)
Pipe137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	Surface Water Present (Downstream)

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Lengt	Downstream	Slope (%)	Upstream	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft	Span (ft

	h (ft)	Invert (ft)		Invert (ft)					or in)	or in)
Pipe137	45.32	7271.11	3.5	7272.70	0.013	0.00	0.00	CIRCULAR	24.00 in	24.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe137	42.49	13.53	18.04	6.87	10.70	12.85	2.74	Supercritical Jump	17.40	32.20	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe137	17.40	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

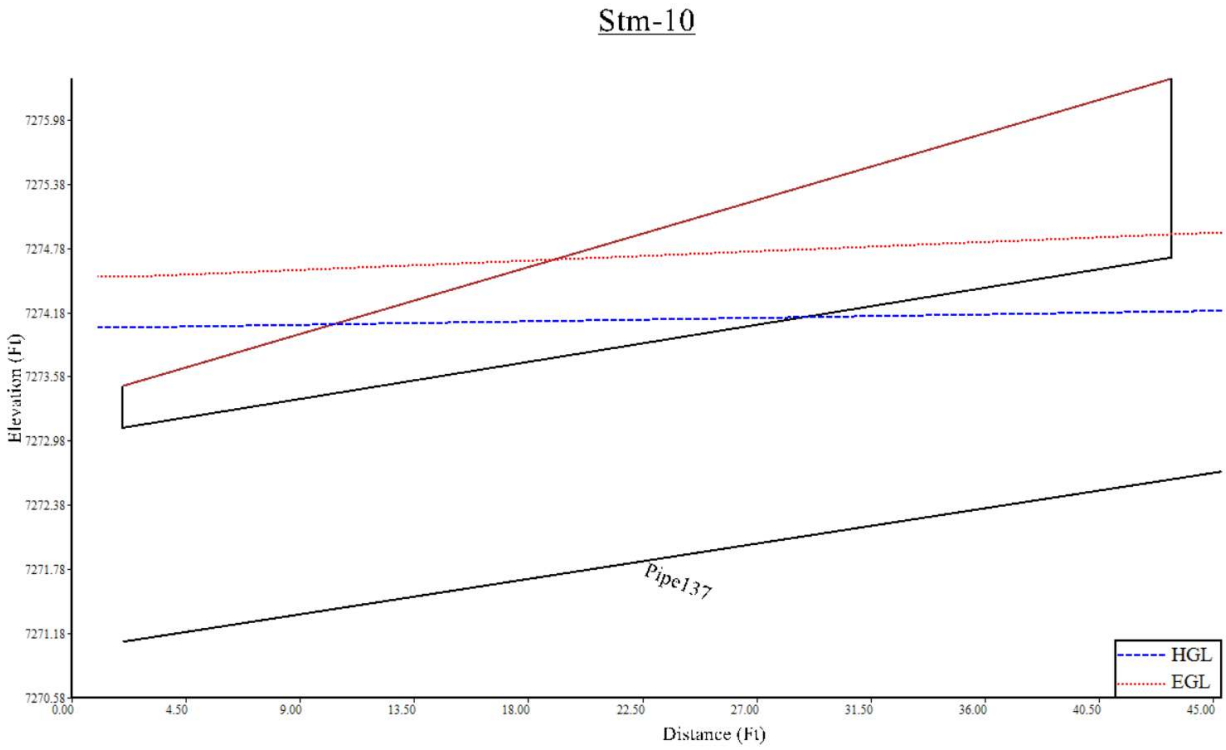
Grade Line Summary:

Tailwater Elevation (ft): 7274.05

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe137	7271.11	7272.70	0.00	0.00	7274.05	7274.20	7274.53	0.41	7274.94

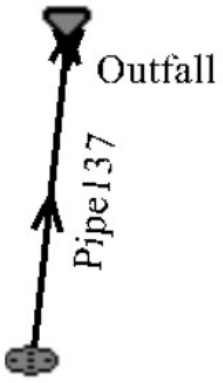
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



System: CD Stm-10 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7273.71

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7273.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe137	7276.37	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface Water Present (Upstream)
Pipe137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.30	Surface Water Present (Downstream)

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Lengt	Downstream	Slope (%)	Upstream	Mannings n	Bend Loss	Lateral Loss	Cross Section	Rise (ft	Span (ft

	h (ft)	Invert (ft)		Invert (ft)					or in)	or in)
Pipe137	45.32	7271.11	3.5	7272.70	0.013	0.00	0.00	CIRCULAR	24.00 in	24.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe137	42.49	13.53	13.07	5.32	7.63	10.83	2.81	Supercritical Jump	9.30	17.97	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe137	9.30	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

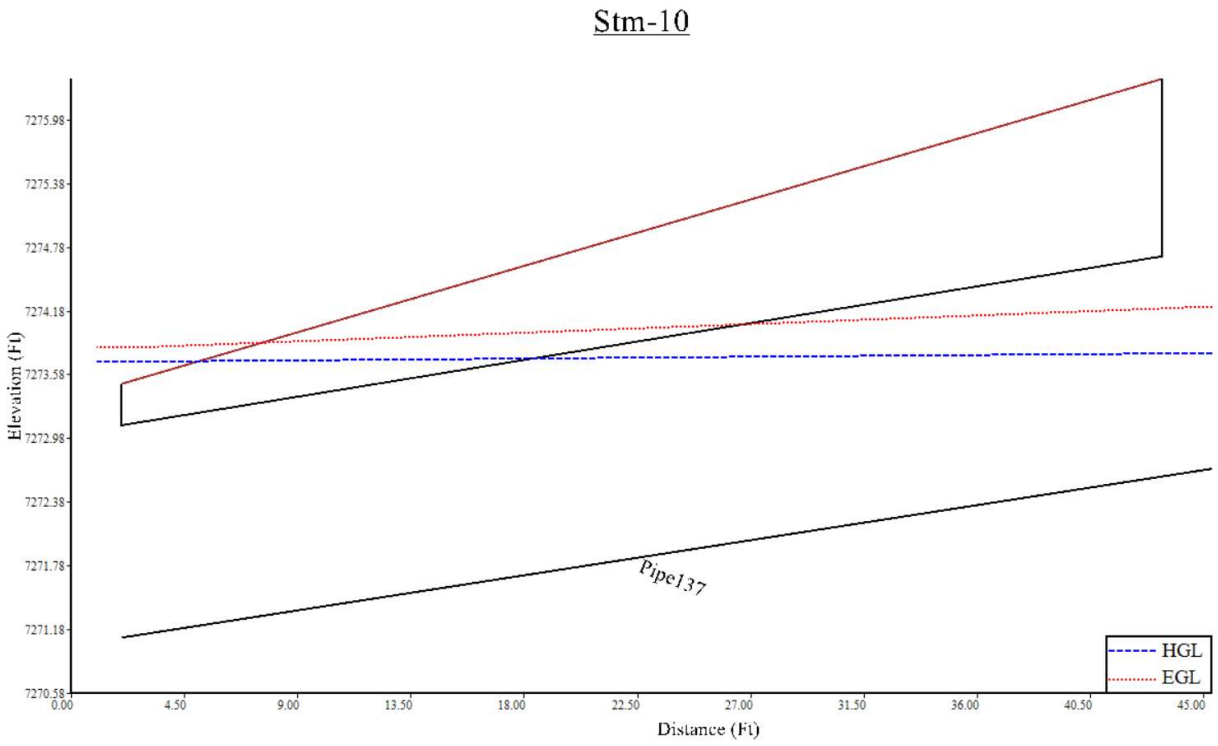
Grade Line Summary:

Tailwater Elevation (ft): 7273.71

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe137	7271.11	7272.70	0.00	0.00	7273.71	7273.79	7273.85	0.38	7274.23

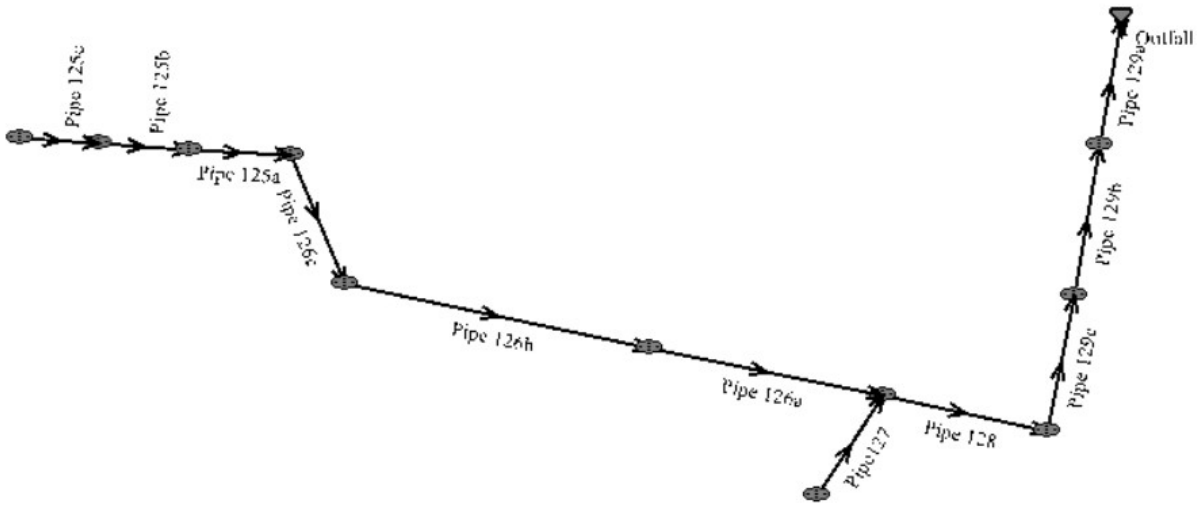
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



System: CD Stm-11, and 11a 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00

Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7267.82

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7271.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 129a	7276.34	332.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 129b	7277.86	332.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 129c	7279.98	332.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 128	7281.74	332.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 126a	7285.88	121.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 126b	7292.77	121.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 126c	7292.43	121.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 125a	7296.70	118.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 125b	7295.10	118.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe127	7278.70	211.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 129a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	332.40	
Pipe 129b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	332.40	
Pipe 129c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	332.40	
Pipe 128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	332.40	
Pipe 126a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.10	
Pipe 126b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.10	
Pipe 126c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.10	
Pipe 125a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	118.30	
Pipe 125b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	118.30	
Pipe127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	211.40	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 129a	40.17	7262.77	0.5	7262.97	0.013	0.03	0.00	CIRCULAR	78.00 in	78.00 in

Pipe 129b	153.25	7263.22	0.5	7263.99	0.013	0.05	0.00	CIRCULAR	78.00 in	78.00 in
Pipe 129c	109.24	7264.96	1.1	7266.16	0.013	0.05	0.00	CIRCULAR	78.00 in	78.00 in
Pipe 128	306.10	7266.41	0.5	7267.94	0.013	1.32	0.00	CIRCULAR	78.00 in	78.00 in
Pipe 126a	493.46	7270.08	1.3	7276.49	0.013	0.05	0.33	CIRCULAR	54.00 in	54.00 in
Pipe 126b	399.01	7276.64	1.3	7281.83	0.013	0.05	0.00	CIRCULAR	54.00 in	54.00 in
Pipe 126c	162.73	7282.00	1.0	7283.63	0.013	0.63	0.00	CIRCULAR	54.00 in	54.00 in
Pipe 125a	52.42	7283.88	1.0	7284.40	0.013	1.19	0.00	CIRCULAR	54.00 in	54.00 in
Pipe 125b	23.82	7288.61	3.3	7289.40	0.013	0.05	0.00	CIRCULAR	48.00 in	48.00 in
Pipe127	35.27	7269.94	1.6	7270.50	0.013	0.63	0.00	CIRCULAR	54.00 in	54.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe 129a	371.72	11.20	58.72	12.40	57.54	12.67	1.04	Supercritical	332.40	0.00	
Pipe 129b	371.72	11.20	58.72	12.40	57.54	12.67	1.04	Supercritical	332.40	0.00	
Pipe 129c	551.35	16.62	58.72	12.40	43.68	17.39	1.78	Supercritical	332.40	0.00	
Pipe 128	371.72	11.20	58.72	12.40	57.54	12.67	1.04	Pressurized	332.40	306.10	
Pipe 126a	224.82	14.14	38.87	9.88	28.22	14.40	1.86	Supercritical Jump	121.10	276.74	

Unresolved:
Missing pipe 125c

Unresolved:
Pipe velocity cannot be over 18 fps

Pipe 126b	224.82	14.14	38.87	9.88	28.22	14.40	1.86	Supercritical	121.10	0.00	
Pipe 126c	197.18	12.40	38.87	9.88	30.59	13.03	1.59	Supercritical	121.10	0.00	
Pipe 125a	197.18	12.40	38.42	9.78	30.15	12.96	1.60	Supercritical Jump	118.30	26.99	
Pipe 125b	261.64	20.82	39.32	10.74	22.64	20.30	2.96	Supercritical	118.30	0.00	Velocity is Too High
Pipe 12[illegible]	249.41	15.68	49.28	13.89	38.16	17.60	1.81	Pressurized	211.40	35.27	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Unresolved:
How did flows change (from Version 2) without any changes to drainage?

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe 129a	332.40	CIRCULAR	78.00 in	78.00 in	78.00 in	78.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 129b	332.40	CIRCULAR	78.00 in	78.00 in	78.00 in	78.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 129c	332.40	CIRCULAR	78.00 in	78.00 in	66.00 in	66.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 128	332.40	CIRCULAR	78.00 in	78.00 in	78.00 in	78.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 126a	121.10	CIRCULAR	54.00 in	54.00 in	48.00 in	48.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise
Pipe 126b	121.10	CIRCULAR	54.00 in	54.00 in	48.00 in	48.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise

Pipe 126c	121.10	CIRCULAR	54.00 in	54.00 in	48.00 in	48.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise
Pipe 125a	118.30	CIRCULAR	54.00 in	54.00 in	48.00 in	48.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise
Pipe 125b	118.30	CIRCULAR	48.00 in	48.00 in	36.00 in	36.00 in	48.00 in	48.00 in	12.57	Exceeds max. Depth/Rise
Pipe127	211.40	CIRCULAR	54.00 in	54.00 in	54.00 in	54.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

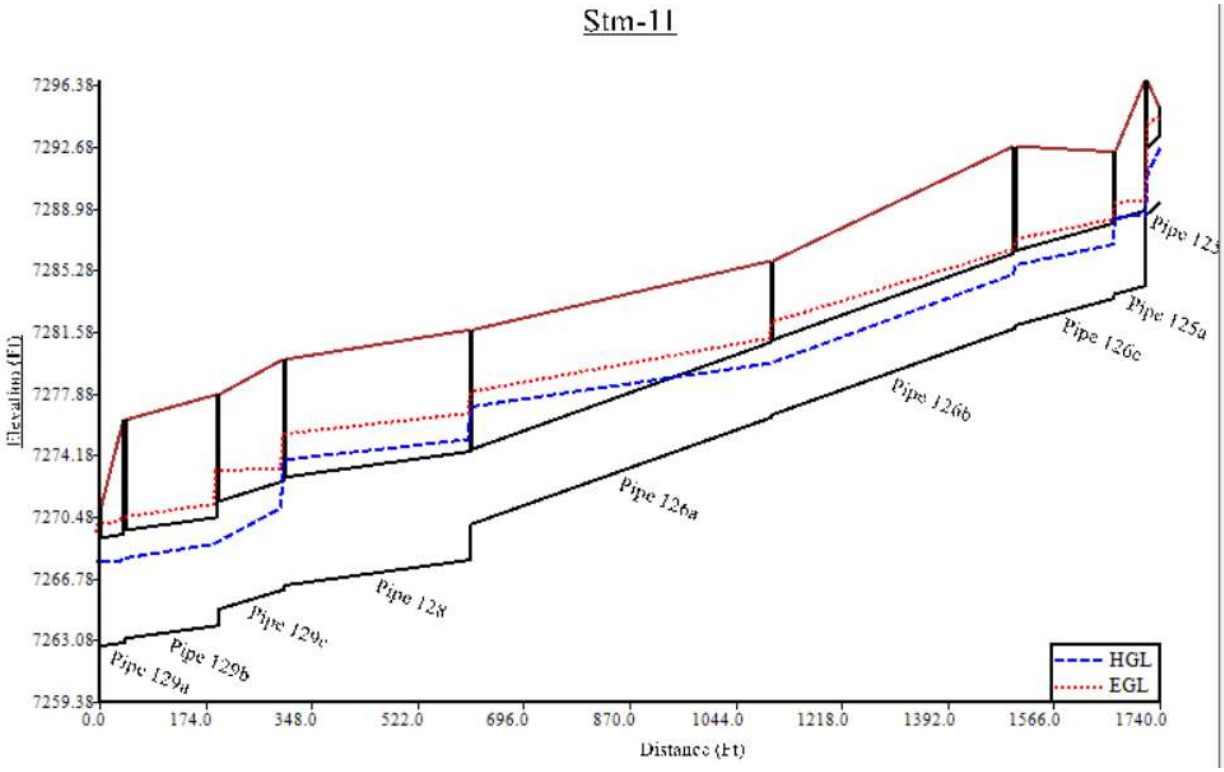
Tailwater Elevation (ft): 7267.82

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 129a	7262.77	7262.97	0.00	0.00	7267.82	7267.86	7270.06	0.20	7270.25
Pipe 129b	7263.22	7263.99	0.08	0.00	7268.02	7268.88	7270.51	0.76	7271.27
Pipe 129c	7264.96	7266.16	0.08	0.00	7268.96	7271.05	7273.29	0.15	7273.44
Pipe 128	7266.41	7267.94	2.06	0.00	7273.94	7275.16	7275.50	1.22	7276.72
Pipe 126a	7270.08	7276.49	0.05	1.26	7277.13	7279.73	7278.03	3.22	7281.25
Pipe 126b	7276.64	7281.83	0.05	0.00	7279.77	7285.07	7282.21	4.37	7286.59

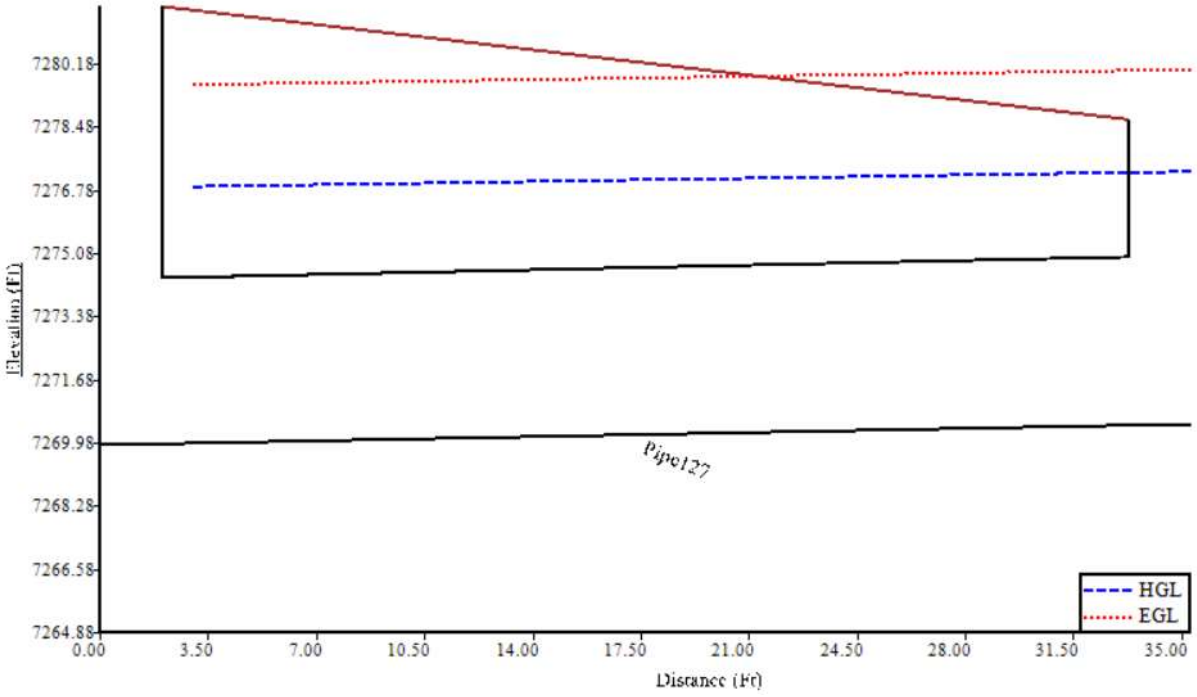
Pipe 126c	7282.00	7283.63	0.57	0.00	7285.64	7286.87	7287.19	1.20	7288.39
Pipe 125a	7283.88	7284.40	1.02	0.00	7288.55	7288.59	7289.41	0.10	7289.50
Pipe 125b	7288.61	7289.40	0.07	0.00	7291.15	7292.68	7294.22	0.24	7294.47
Pipe127	7269.94	7270.50	1.73	0.00	7276.89	7277.30	7279.64	0.41	7280.04

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

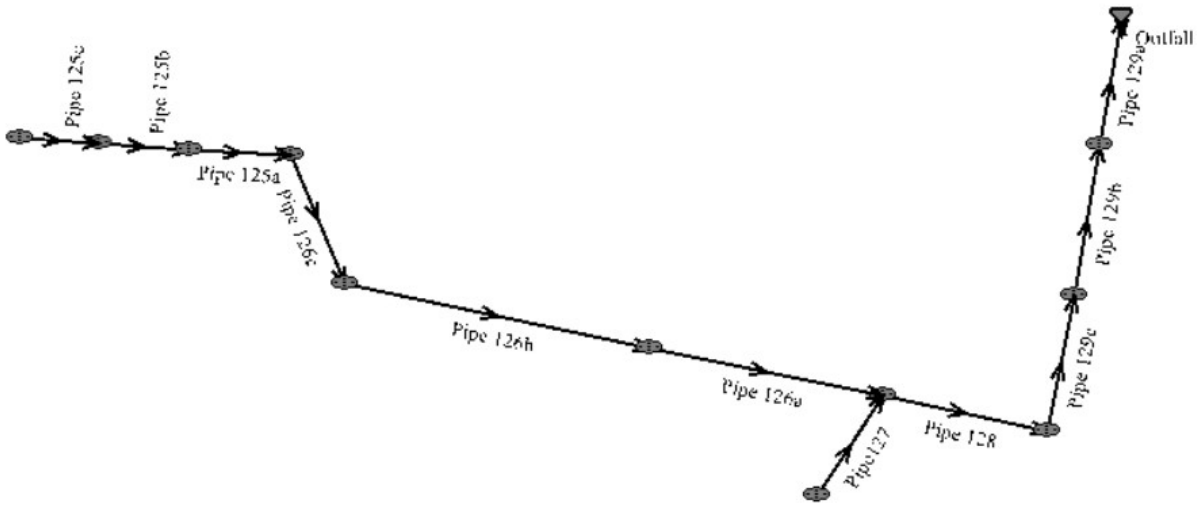


Stm 11A


7280.18
7278.48
7276.78
7275.08
7273.38
7271.68
7269.98
7268.28
7266.58
7264.88
Elevation (Ft)
Pipe127
HGL
EGL
0.00
3.50
7.00
10.50
14.00
17.50
21.00
24.50
28.00
31.50
35.00
Distance (Ft)

System: CD Stm-11, and 11a 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00

Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7266.22

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7271.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 129a	7276.34	168.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 129b	7277.86	162.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 129c	7279.98	162.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 128	7281.74	162.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 126a	7285.88	60.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 126b	7292.77	60.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 126c	7292.43	60.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 125a	7296.70	59.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 125b	7295.10	59.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe127	7278.70	102.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 129a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168.20	
Pipe 129b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162.80	
Pipe 129c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162.80	
Pipe 128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162.80	
Pipe 126a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.20	
Pipe 126b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.20	
Pipe 126c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.20	
Pipe 125a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	
Pipe 125b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	
Pipe127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 129a	40.17	7262.77	0.5	7262.97	0.013	0.03	0.00	CIRCULAR	78.00 in	78.00 in

Pipe 129b	153.25	7263.22	0.5	7263.99	0.013	0.05	0.00	CIRCULAR	78.00 in	78.00 in
Pipe 129c	109.24	7264.96	1.1	7266.16	0.013	0.05	0.00	CIRCULAR	78.00 in	78.00 in
Pipe 128	306.10	7266.43	0.5	7267.96	0.013	1.32	0.00	CIRCULAR	78.00 in	78.00 in
Pipe 126a	493.46	7270.08	1.3	7276.49	0.013	0.05	0.33	CIRCULAR	54.00 in	54.00 in
Pipe 126b	400.41	7276.62	1.3	7281.83	0.013	0.05	0.00	CIRCULAR	54.00 in	54.00 in
Pipe 126c	162.73	7282.00	1.0	7283.63	0.013	0.63	0.00	CIRCULAR	54.00 in	54.00 in
Pipe 125a	52.42	7283.88	1.0	7284.40	0.013	1.19	0.00	CIRCULAR	54.00 in	54.00 in
Pipe 125b	23.82	7288.61	3.3	7289.40	0.013	0.05	0.00	CIRCULAR	48.00 in	48.00 in
Pipe127	35.27	7269.94	1.6	7270.50	0.013	0.63	0.00	CIRCULAR	54.00 in	54.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe 129a	371.72	11.20	41.35	9.42	36.80	10.92	1.25	Supercritical	168.20	0.00	
Pipe 129b	371.72	11.20	40.65	9.31	36.12	10.83	1.25	Supercritical	162.80	0.00	
Pipe 129c	551.35	16.62	40.65	9.31	29.04	14.46	1.90	Supercritical	162.80	0.00	
Pipe 128	371.72	11.20	40.65	9.31	36.12	10.83	1.25	Supercritical	162.80	0.00	
Pipe 126a	224.82	14.14	27.05	7.55	19.08	11.98	1.95	Supercritical	60.20	0.00	
Pipe 126b	224.82	14.14	27.05	7.55	19.08	11.98	1.95	Supercritical	60.20	0.00	

Unresolved:
Velocity cannot exceed 18 fps

Pipe 126c	197.18	12.40	27.05	7.55	20.47	10.89	1.71	Supercritical	60.20	0.00	
Pipe 125a	197.18	12.40	26.81	7.51	20.29	10.84	1.71	Supercritical	59.20	0.00	
Pipe 125b	261.64	20.82	27.81	7.84	15.52	16.83	3.06	Supercritical	59.20	0.00	
Pipe127	249.41	15.68	35.72	9.19	24.13	14.92	2.12	Supercritical	102.60	0.00	

Unresolved:
Missing Pipe 125c

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe 129a	168.20	CIRCULAR	78.00 in	78.00 in	60.00 in	60.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 129b	162.80	CIRCULAR	78.00 in	78.00 in	60.00 in	60.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 129c	162.80	CIRCULAR	78.00 in	78.00 in	54.00 in	54.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 128	162.80	CIRCULAR	78.00 in	78.00 in	60.00 in	60.00 in	78.00 in	78.00 in	33.18	Exceeds max. Depth/Rise
Pipe 126a	60.20	CIRCULAR	54.00 in	54.00 in	33.00 in	33.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise
Pipe 126b	60.20	CIRCULAR	54.00 in	54.00 in	33.00 in	33.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise
Pipe 126c	60.20	CIRCULAR	54.00 in	54.00 in	36.00 in	36.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise
Pipe 125a	59.20	CIRCULAR	54.00 in	54.00 in	36.00 in	36.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise

Pipe 125b	59.20	CIRCULAR	48.00 in	48.00 in	30.00 in	30.00 in	48.00 in	48.00 in	12.57	Exceeds max. Depth/Rise
Pipe127	102.60	CIRCULAR	54.00 in	54.00 in	42.00 in	42.00 in	54.00 in	54.00 in	15.90	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

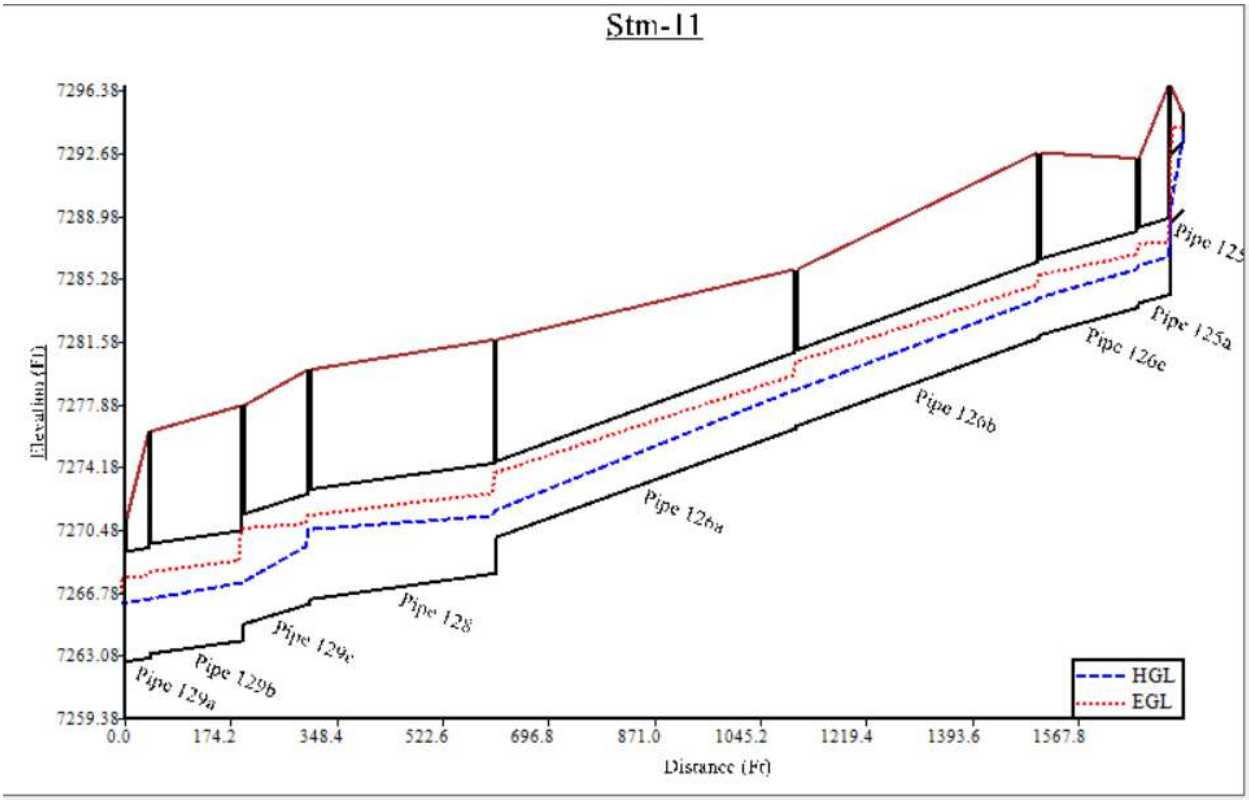
Tailwater Elevation (ft): 7266.22

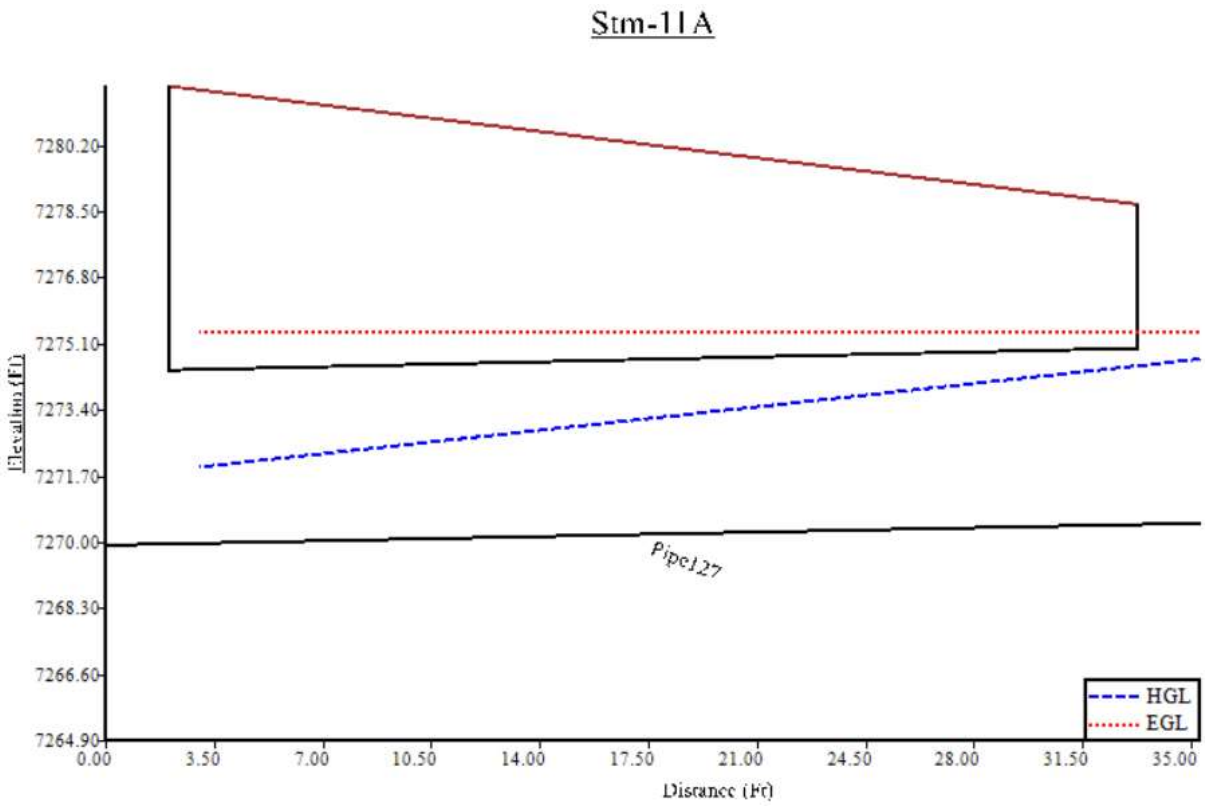
	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 129a	7262.77	7262.97	0.00	0.00	7266.22	7266.42	7267.69	0.10	7267.79
Pipe 129b	7263.22	7263.99	0.02	0.00	7266.43	7267.38	7268.06	0.67	7268.72
Pipe 129c	7264.96	7266.16	0.02	0.00	7267.40	7269.55	7270.63	0.27	7270.89
Pipe 128	7266.43	7267.96	0.49	0.00	7270.55	7271.35	7271.39	1.31	7272.69
Pipe 126a	7270.08	7276.49	0.01	0.30	7271.67	7278.74	7273.89	5.74	7279.63
Pipe 126b	7276.62	7281.83	0.01	0.00	7278.76	7284.08	7280.44	4.53	7284.97
Pipe 126c	7282.00	7283.63	0.14	0.00	7284.22	7285.88	7285.55	1.22	7286.77
Pipe 125a	7283.88	7284.40	0.26	0.00	7286.14	7286.63	7287.39	0.12	7287.51

Pipe 125b	7288.61	7289.40	0.02	0.00	7289.91	7293.96	7294.31	0.00	7294.31
Pipe127	7269.94	7270.50	0.41	0.00	7271.95	7274.72	7275.40	0.00	7275.40

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

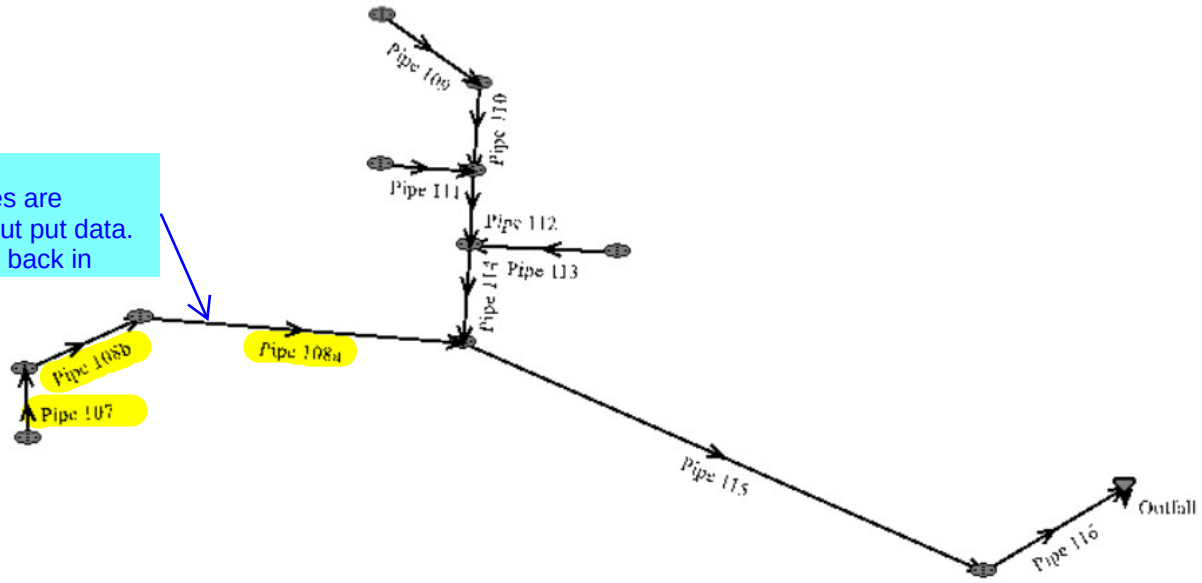



Stm-11A
7280.20
7278.50
7276.80
7275.10
7273.40
7271.70
7270.00
7268.30
7266.60
7264.90
Elevation (Ft)
Pipe127
HGL
EGL
0.00
3.50
7.00
10.50
14.00
17.50
21.00
24.50
28.00
31.50
35.00
Distance (Ft)

System: CD Stm-13,14,16,17 100yr

Diagram:

Unresolved:
Higlighted pipes are missing from out put data. Please include back in



Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7276.90

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 116	7288.85	65.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 115B	7299.20	65.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 115A	7304.20	65.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 114	7304.60	44.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 113	7304.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 112	7305.90	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 111	7311.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 110	7315.62	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 109	7318.42	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution	Total Design Flow	

Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.80	
Pipe 115B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.80	
Pipe 115A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.80	
Pipe 114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.80	
Pipe 113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.50	
Pipe 112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.30	
Pipe 111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	
Pipe 110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.30	
Pipe 109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.30	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 116	62.76	7275.82	1.5	7276.76	0.013	0.03	0.00	CIRCULAR	42.00 in	42.00 in
Pipe 115B	170.33	7282.02	2.7	7286.62	0.013	0.05	0.00	CIRCULAR	42.00 in	42.00 in
Pipe 115A	189.62	7292.58	2.5	7297.32	0.013	0.38	0.00	CIRCULAR	42.00 in	42.00 in

Pipe 114	20.20	7298.16	1.0	7298.36	0.013	1.32	1.00	CIRCULAR	36.00 in	36.00 in
Pipe 113	22.58	7300.12	2.7	7300.73	0.013	1.32	1.00	CIRCULAR	24.00 in	24.00 in
Pipe 112	33.54	7298.60	2.9	7299.57	0.013	0.05	0.25	CIRCULAR	36.00 in	36.00 in
Pipe 111	32.00	7300.56	4.6	7302.03	0.013	1.32	1.00	CIRCULAR	24.00 in	24.00 in
Pipe 110	188.21	7299.98	5.1	7309.58	0.013	0.08	0.25	CIRCULAR	30.00 in	30.00 in
Pipe 109	34.91	7309.83	1.3	7310.28	0.013	1.19	0.00	CIRCULAR	30.00 in	30.00 in

Unresolved:
How did flows at last pipe drop so significantly (almost 100 cfs, from Version 2), when flow in other pipes remained same?

low Summary:

	ll Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 116	123.55	12.84	30.51	8.79	21.80	13.04	1.91	Supercritical	65.80	0.00	
Pipe 115B	165.76	17.23	30.51	8.79	18.39	16.24	2.65	Supercritical	65.80	0.00	
Pipe 115A	159.51	16.58	30.51	8.79	18.80	15.78	2.54	Supercritical	65.80	0.00	
Pipe 114	66.88	9.46	26.16	8.14	21.56	10.14	1.46	Pressurized	44.80	20.20	
Pipe 113	37.27	11.86	11.68	4.94	7.30	9.28	2.47	Supercritical Jump	7.50	20.14	
Pipe 112	113.89	16.11	23.84	7.51	14.18	14.42	2.71	Supercritical Jump	37.30	22.64	
Pipe 111	48.65	15.49	11.26	4.83	6.15	11.01	3.21	Supercritical Jump	7.00	11.35	

Unresolved:
Pipe 112 is upstream of Pipe 114, how are flows less downstream?

Pipe 110	92.88	18.92	22.51	7.67	11.79	16.92	3.48	Supercritical Jump	30.30	0.75	
Pipe 109	46.89	9.55	22.51	7.67	17.55	10.16	1.63	Supercritical Jump	30.30	20.52	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe 116	65.80	CIRCULAR	42.00 in	42.00 in	36.00 in	36.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 115B	65.80	CIRCULAR	42.00 in	42.00 in	30.00 in	30.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 115A	65.80	CIRCULAR	42.00 in	42.00 in	33.00 in	33.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 114	44.80	CIRCULAR	36.00 in	36.00 in	33.00 in	33.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 113	7.50	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 112	37.30	CIRCULAR	36.00 in	36.00 in	24.00 in	24.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 111	7.00	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 110	30.30	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 109	30.30	CIRCULAR	30.00 in	30.00 in	27.00 in	27.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

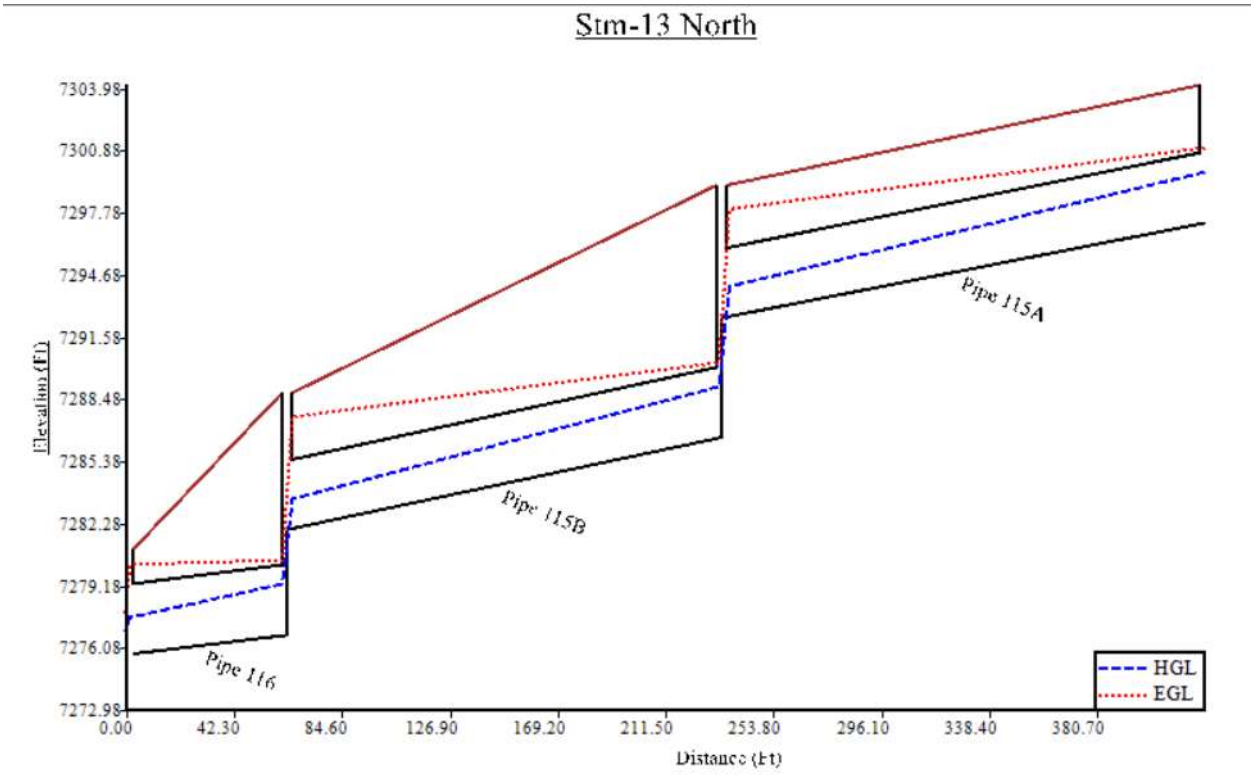
Tailwater Elevation (ft): 7276.90

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe 116	7275.82	7276.76	0.00	0.00	7277.64	7279.30	7280.28	0.22	7280.50
Pipe 115B	7282.02	7286.62	0.04	0.00	7283.55	7289.16	7287.65	2.71	7290.36
Pipe 115A	7292.58	7297.32	0.28	0.00	7294.15	7299.86	7298.01	3.05	7301.06
Pipe 114	7298.16	7298.36	0.82	0.10	7301.36	7301.45	7301.99	0.09	7302.08
Pipe 113	7300.12	7300.73	0.12	0.54	7302.64	7302.66	7302.73	0.02	7302.75
Pipe 112	7298.60	7299.57	0.02	0.52	7302.18	7302.18	7302.62	0.07	7302.69
Pipe 111	7300.56	7302.03	0.10	0.36	7303.07	7303.07	7303.15	0.20	7303.35
Pipe 110	7299.98	7309.58	0.05	0.28	7302.52	7311.46	7303.07	9.30	7312.37
Pipe 109	7309.83	7310.28	0.70	0.00	7312.48	7312.52	7313.07	0.11	7313.18

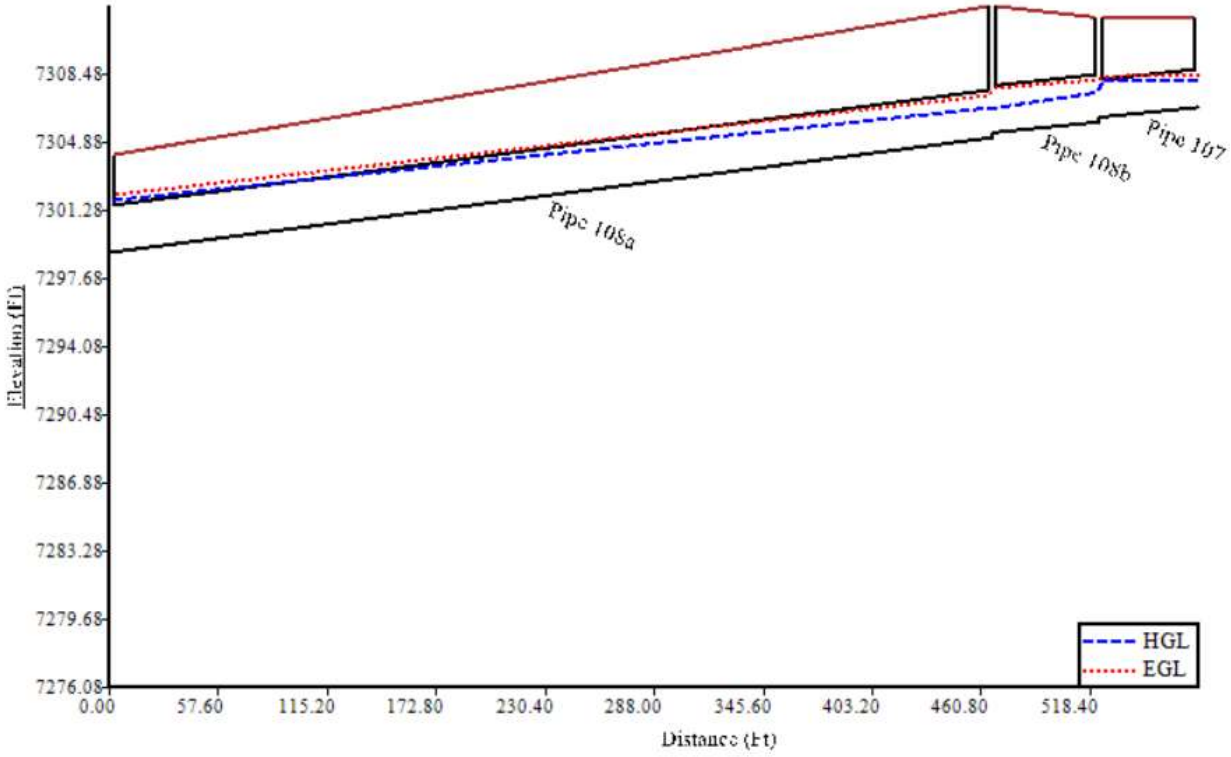
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)

- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

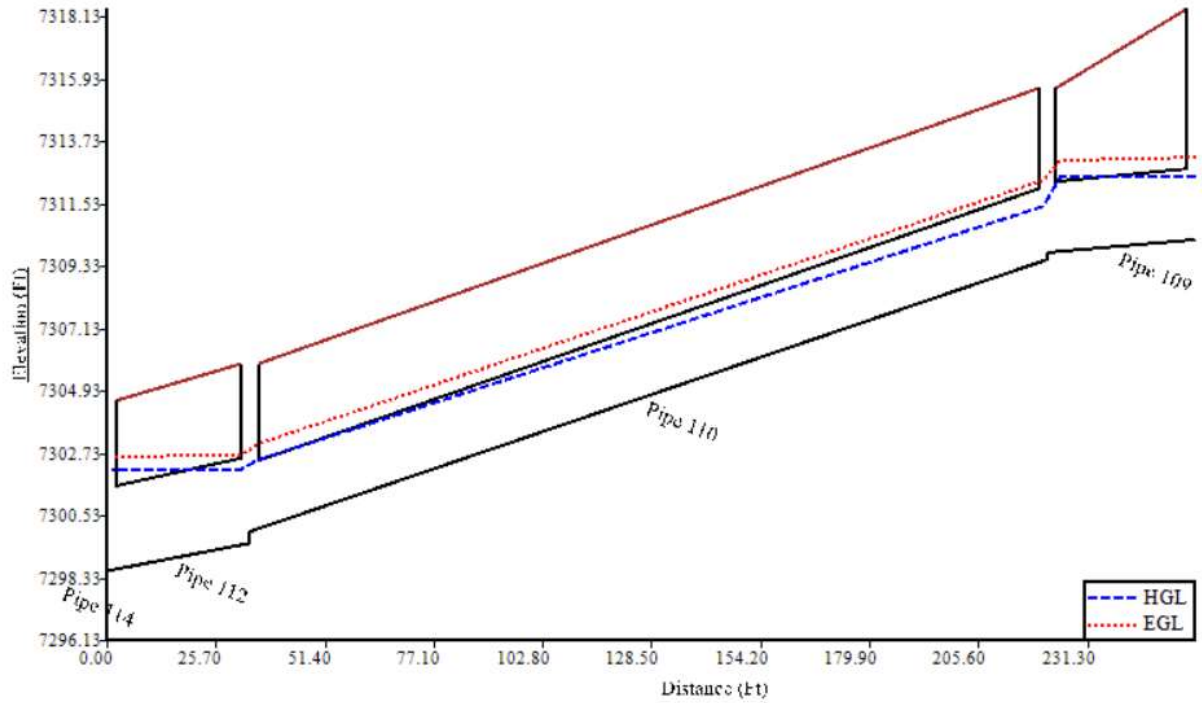
Profile(s):



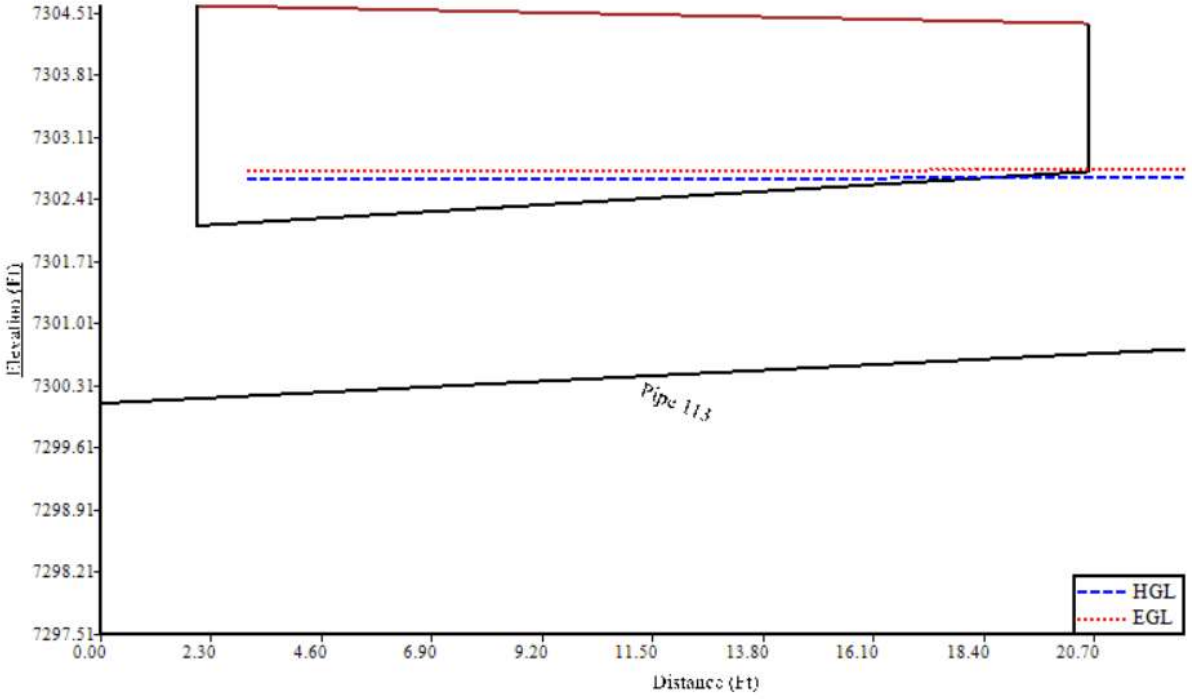
Stm-13 South



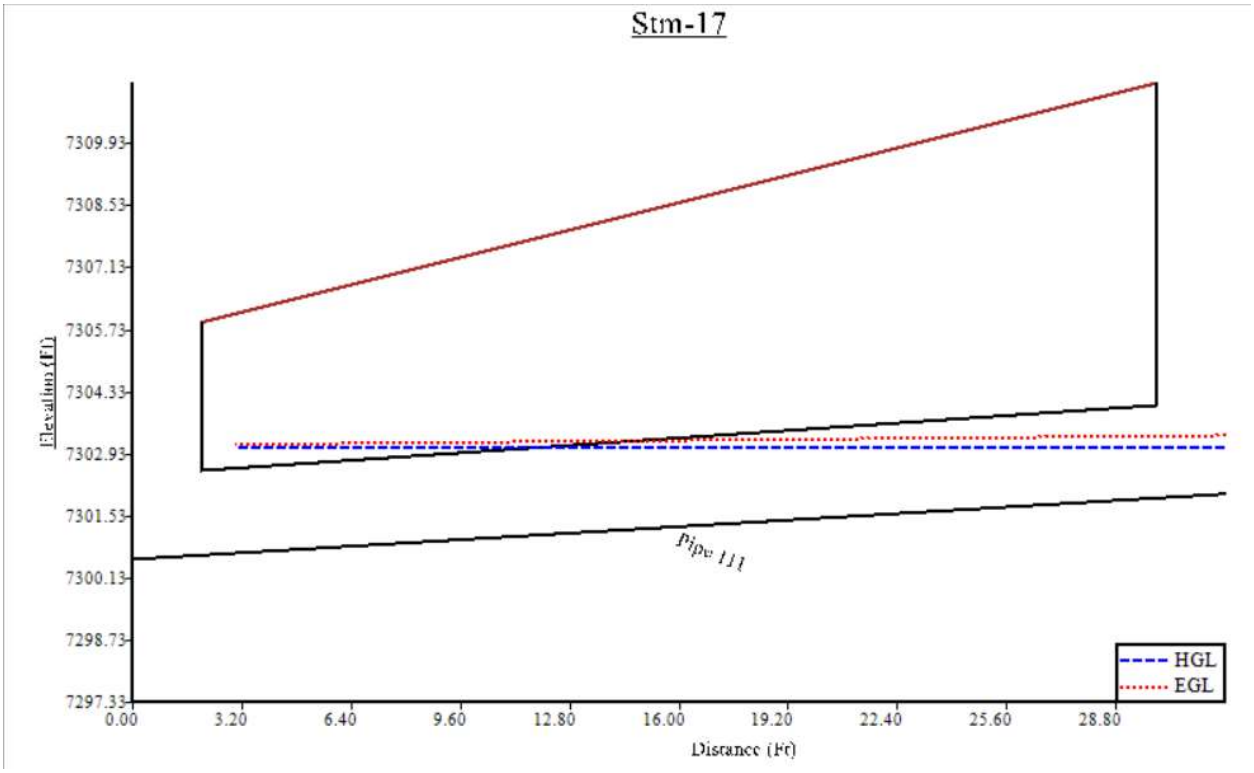
Stm-14



Stm-16

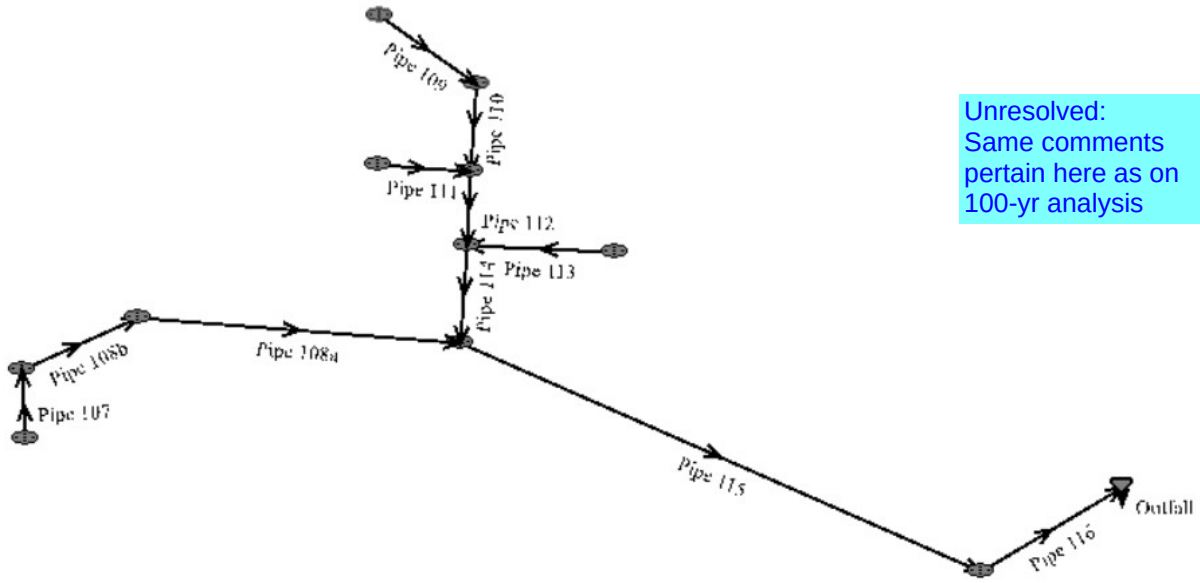

7304.51
7303.81
7303.11
7302.41
7301.71
7301.01
7300.31
7299.61
7298.91
7298.21
7297.51
Elevation (Ft)
Pipe 113
HGL
EGL
0.00
2.30
4.60
6.90
9.20
11.50
13.80
16.10
18.40
20.70
Distance (Ft)

Stm-17


7309.93
7308.53
7307.13
7305.73
7304.33
7302.93
7301.53
7300.13
7298.73
7297.33
Elevation (Ft)
Pipe 111
HGL
EGL
0.00
3.20
6.40
9.60
12.80
16.00
19.20
22.40
25.60
28.80
Distance (Ft)

System: CD Stm-13,14,16,17 10yr

Diagram:



Unresolved:
Same comments pertain here as on 100-yr analysis

Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00

Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7276.28

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 116	7288.85	39.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 115B	7299.20	39.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 115A	7304.20	39.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 114	7304.60	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 113	7304.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 112	7305.90	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 111	7311.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 110	7315.62	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 109	7318.42	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 116	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.30	
Pipe 115B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.30	
Pipe 115A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.30	
Pipe 114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.80	
Pipe 113	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
Pipe 112	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.30	
Pipe 111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
Pipe 110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
Pipe 109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 116	62.76	7275.82	1.5	7276.76	0.013	0.03	0.00	CIRCULAR	42.00 in	42.00 in
Pipe 115B	170.33	7282.02	2.7	7286.62	0.013	0.05	0.00	CIRCULAR	42.00 in	42.00 in
Pipe 115A	189.62	7292.58	2.5	7297.32	0.013	0.38	0.00	CIRCULAR	42.00 in	42.00 in

Pipe 114	20.20	7298.16	1.0	7298.36	0.013	1.32	1.00	CIRCULAR	36.00 in	36.00 in
Pipe 113	22.58	7300.12	2.7	7300.73	0.013	1.32	1.00	CIRCULAR	24.00 in	24.00 in
Pipe 112	33.54	7298.60	2.9	7299.57	0.013	0.05	0.25	CIRCULAR	36.00 in	36.00 in
Pipe 111	32.00	7300.56	4.6	7302.03	0.013	1.32	1.00	CIRCULAR	24.00 in	24.00 in
Pipe 110	188.21	7299.98	5.1	7309.58	0.013	0.08	0.25	CIRCULAR	30.00 in	30.00 in
Pipe 109	34.91	7309.83	1.3	7310.28	0.013	1.19	0.00	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe 116	123.55	12.84	23.38	7.14	16.28	11.41	2.00	Supercritical	39.30	0.00	
Pipe 115B	165.76	17.23	23.38	7.14	13.92	14.11	2.70	Supercritical	39.30	0.00	
Pipe 115A	159.51	16.58	23.38	7.14	14.20	13.73	2.60	Supercritical	39.30	0.00	
Pipe 114	66.88	9.46	20.07	6.62	15.85	8.94	1.57	Supercritical	26.80	0.00	
Pipe 113	37.27	11.86	9.45	4.35	5.94	8.26	2.46	Supercritical	5.00	0.00	
Pipe 112	113.89	16.11	23.84	7.51	14.18	14.42	2.71	Supercritical	37.30	0.00	
Pipe 111	48.65	15.49	9.45	4.35	5.20	9.98	3.19	Supercritical Jump	5.00	18.83	
Pipe 110	92.88	18.92	8.85	4.13	4.73	10.08	3.40	Supercritical Jump	5.00	18.52	

Pipe 109	46.89	9.55	8.85	4.13	6.62	6.22	1.76	Supercritical	5.00	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe 116	39.30	CIRCULAR	42.00 in	42.00 in	30.00 in	30.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 115B	39.30	CIRCULAR	42.00 in	42.00 in	27.00 in	27.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 115A	39.30	CIRCULAR	42.00 in	42.00 in	27.00 in	27.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 114	26.80	CIRCULAR	36.00 in	36.00 in	27.00 in	27.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 113	5.00	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 112	37.30	CIRCULAR	36.00 in	36.00 in	24.00 in	24.00 in	36.00 in	36.00 in	7.07	Exceeds max. Depth/Rise
Pipe 111	5.00	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 110	5.00	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 109	5.00	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

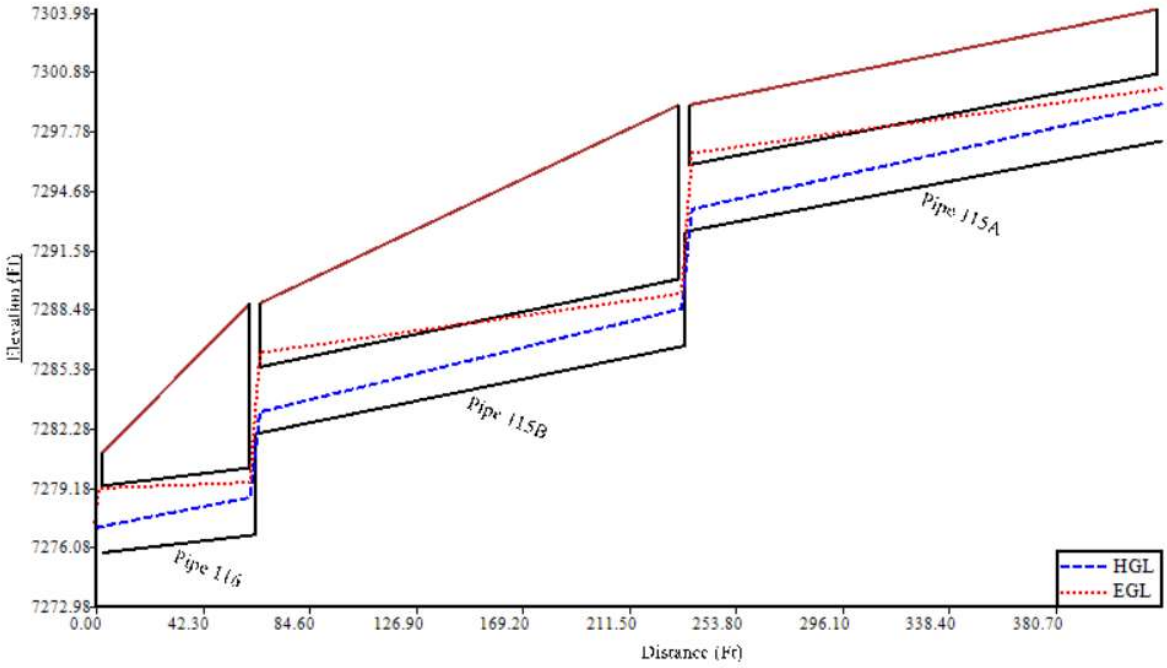
Tailwater Elevation (ft): 7276.28

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 116	7275.82	7276.76	0.00	0.00	7277.18	7278.71	7279.20	0.30	7279.50
Pipe 115B	7282.02	7286.62	0.01	0.00	7283.18	7288.57	7286.27	3.09	7289.36
Pipe 115A	7292.58	7297.32	0.10	0.00	7293.76	7299.27	7296.69	3.37	7300.06
Pipe 114	7298.16	7298.36	0.29	0.04	7299.60	7300.12	7300.72	0.00	7300.72
Pipe 113	7300.12	7300.73	0.05	0.18	7300.62	7301.52	7301.68	0.14	7301.81
Pipe 112	7298.60	7299.57	0.02	0.12	7300.25	7302.58	7303.01	0.00	7303.01
Pipe 111	7300.56	7302.03	0.05	0.39	7303.42	7303.42	7303.45	0.03	7303.49
Pipe 110	7299.98	7309.58	0.00	0.43	7303.42	7310.32	7303.44	7.14	7310.58
Pipe 109	7309.83	7310.28	0.02	0.00	7310.38	7311.02	7310.98	0.30	7311.28

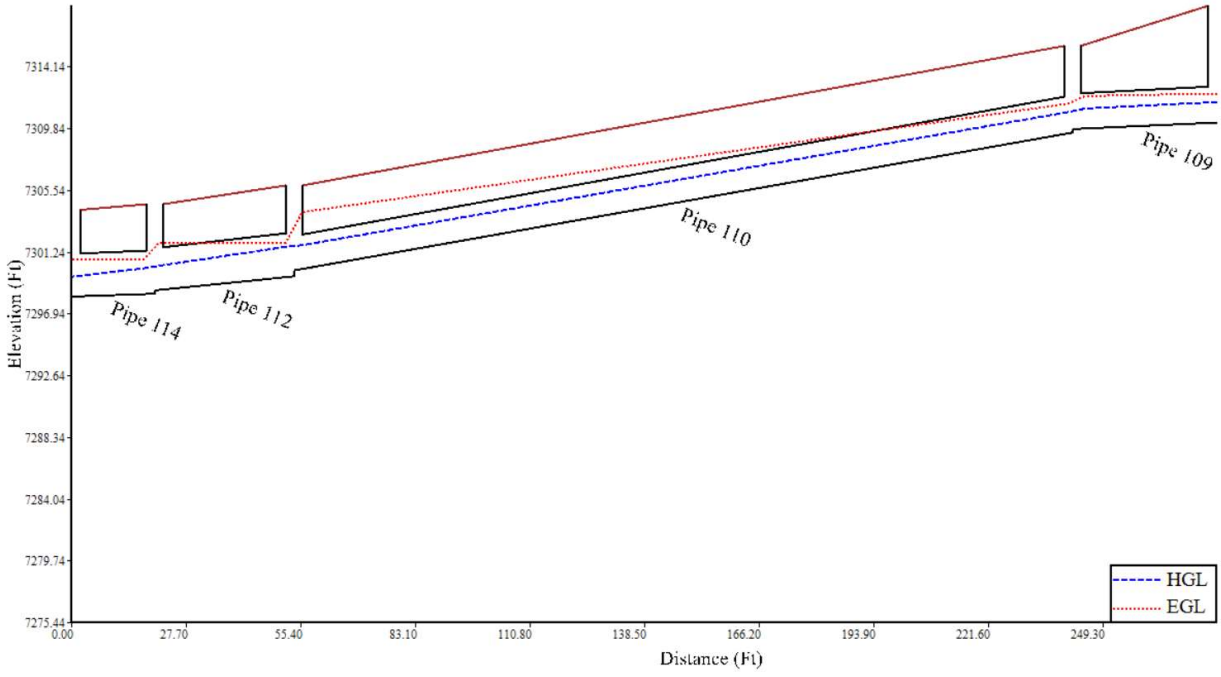
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

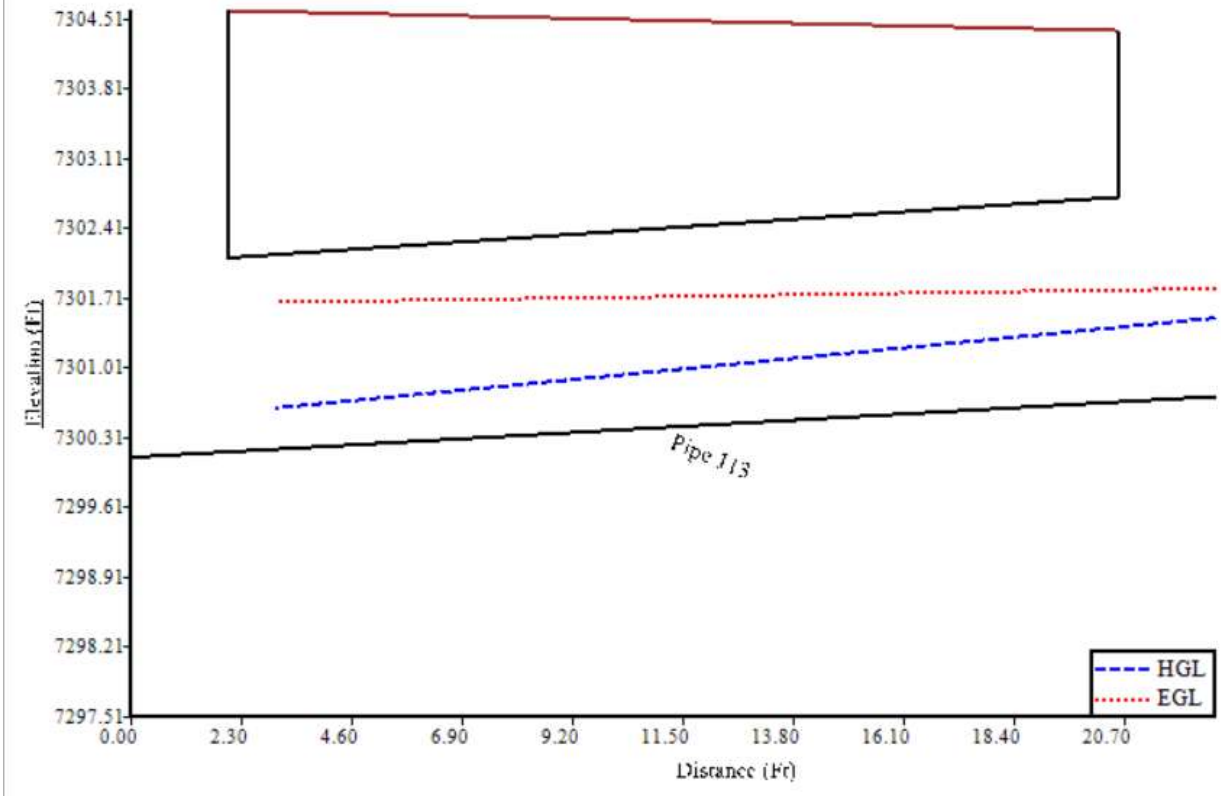
Stm-13



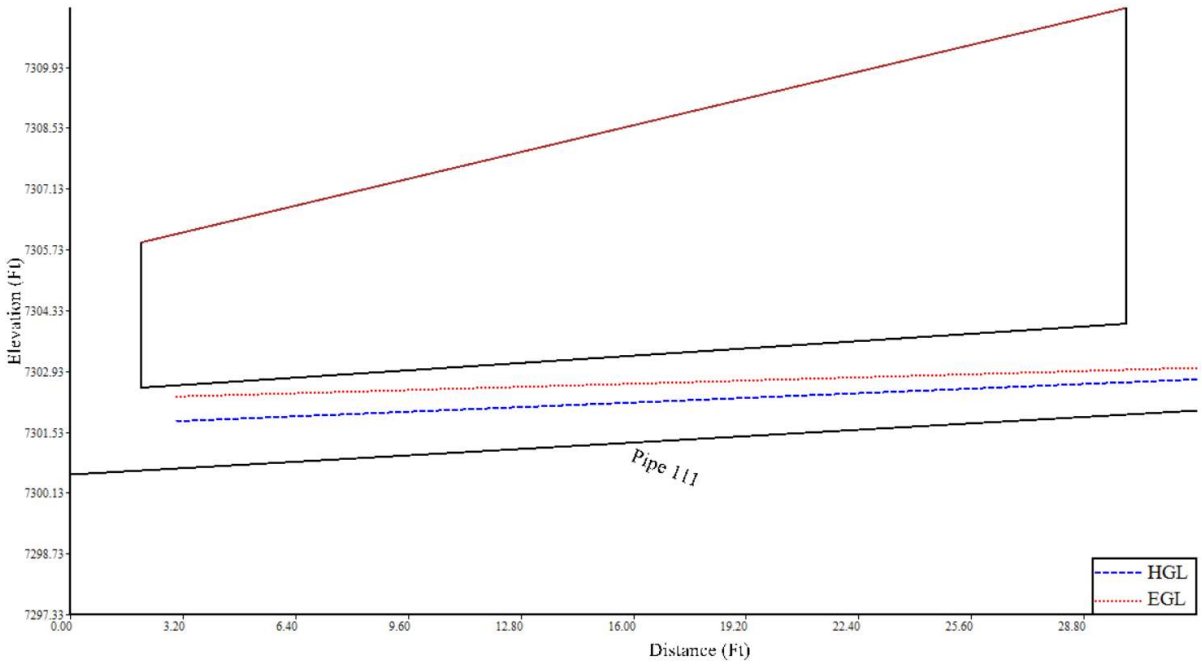
Stm-14



Stm-16

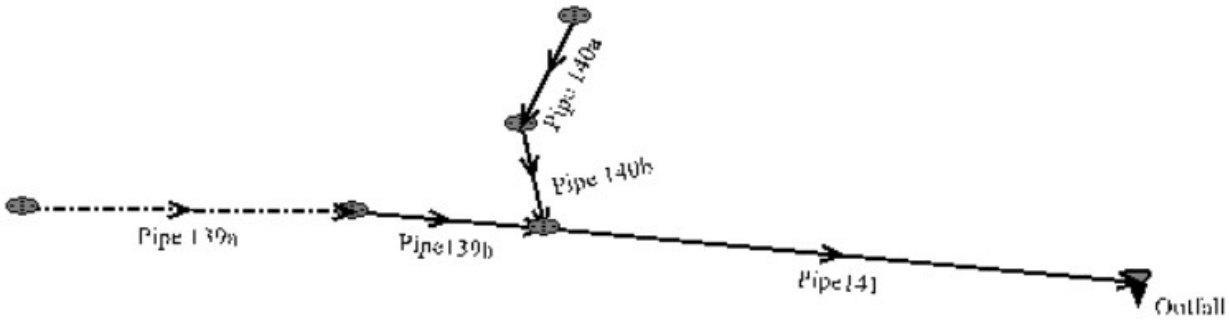

7304.51
7303.81
7303.11
7302.41
7301.71
7301.01
7300.31
7299.61
7298.91
7298.21
7297.51
Elevation (Ft)
Pipe 113
HGL
EGL
0.00
2.30
4.60
6.90
9.20
11.50
13.80
16.10
18.40
20.70
Distance (Ft)

Stm-17


7309.93
7308.53
7307.13
7305.73
7304.33
7302.93
7301.53
7300.13
7298.73
7297.33
Elevation (Ft)
Pipe 111
HGL
EGL
0.00
3.20
6.40
9.60
12.80
16.00
19.20
22.40
25.60
28.80
Distance (Ft)

System: CD Stm-18,19 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7315.42

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	**Ground Elevation (ft)**	**Total Known Flow (cfs)**	**Local Contribution (cfs)**	**Drainage Area (Ac.)**	**Runoff Coefficient**	**5yr Coefficient**	**Overland Length (ft)**	**Overland Slope (%)**	**Gutter Length (ft)**	**Gutter Velocity (fps)**
Outfall	7317.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe141	7328.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe139b	7329.05	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 139a	7330.45	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 140b	7328.02	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 140a	7328.02	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	**Overland Time (min)**	**Gutter Time (min)**	**Basin Tc (min)**	**Intensity (in/hr)**	**Local Contrib (cfs)**	**Coeff. Area**	**Intensity (in/hr)**	**Manhole Tc (min)**	**Peak Flow (cfs)**	**Comment**
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	
Pipe139b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.90	
Pipe 139a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.90	

Pipe 140b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	
Pipe 140a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Mannings n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe141	144.39	7314.57	5.0	7321.84	0.013	0.03	0.00	CIRCULAR	18.00 in	18.00 in
Pipe139b	39.62	7322.84	4.6	7324.67	0.013	0.05	0.25	CIRCULAR	18.00 in	18.00 in
Pipe 139a	84.25	7325.17	4.3	7328.79	0.013	0.05	0.00	ELLIPSE	23.00 in	14.00 in
Pipe 140b	13.90	7322.84	2.0	7323.12	0.013	1.19	1.00	CIRCULAR	18.00 in	18.00 in
Pipe 140a	35.34	7323.37	2.0	7324.08	0.013	0.38	0.00	CIRCULAR	18.00 in	18.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe141	23.63	13.37	10.54	4.84	5.74	10.73	3.21	Supercritical	5.20	0.00	
Pipe139b	22.64	12.81	7.76	3.98	4.35	8.80	3.06	Supercritical	2.90	0.00	
Pipe 139a	23.49	12.58	7.70	3.95	4.39	8.56	2.97	Supercritical	2.90	0.00	

Pipe 140b	14.96	8.46	4.91	3.07	3.45	5.07	2.00	Supercritical	1.20	0.00	
Pipe 140a	14.93	8.45	3.45	2.54	2.46	4.13	1.94	Supercritical	0.60	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe141	5.20	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe139b	2.90	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe 139a	2.90	ELLIPSE	23.00 in	14.00 in	18.00 in	18.00 in	23.00 in	14.00 in	1.87	Width is too small. Existing width is smaller than the suggested width. Exceeds max. Depth/Rise
Pipe 140b	1.20	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe 140a	0.60	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

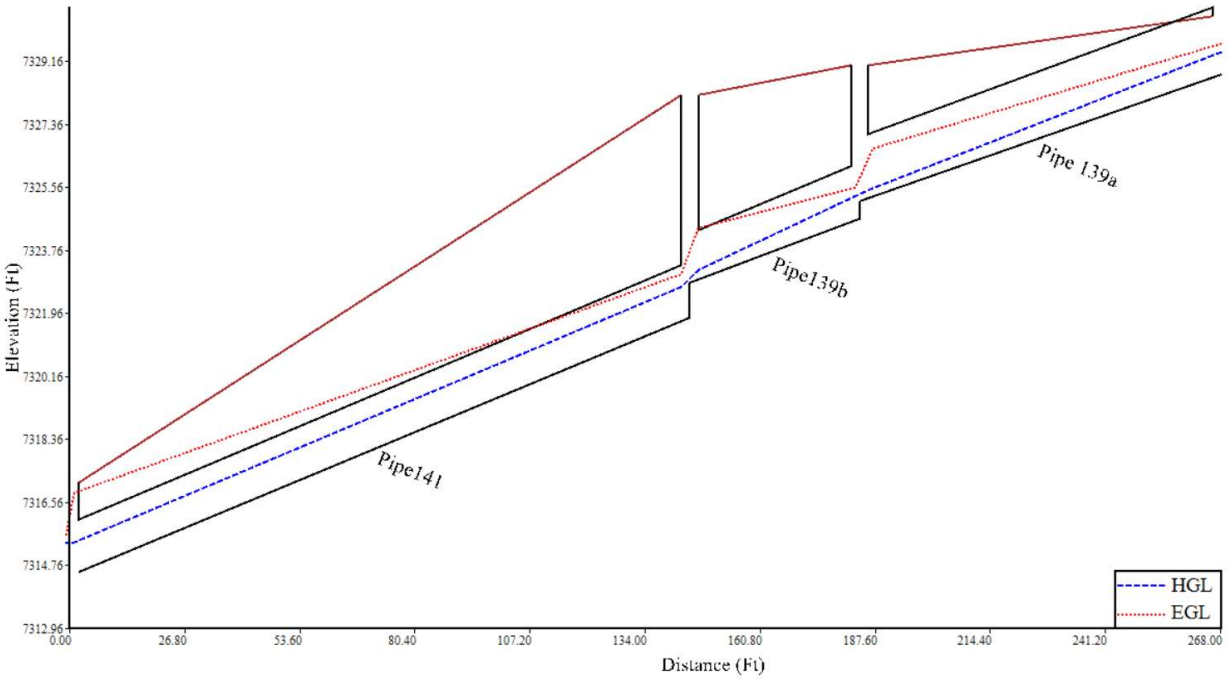
Tailwater Elevation (ft): 7315.42

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe141	7314.57	7321.84	0.00	0.00	7315.42	7322.72	7316.83	6.25	7323.08
Pipe139b	7322.84	7324.67	0.00	0.12	7323.20	7325.32	7324.41	1.16	7325.56
Pipe 139a	7325.17	7328.79	0.00	0.00	7325.54	7329.43	7326.67	3.00	7329.67
Pipe 140b	7322.84	7323.12	0.01	0.13	7323.13	7323.53	7323.53	0.15	7323.68
Pipe 140a	7323.37	7324.08	0.00	0.00	7323.58	7324.37	7323.84	0.63	7324.47

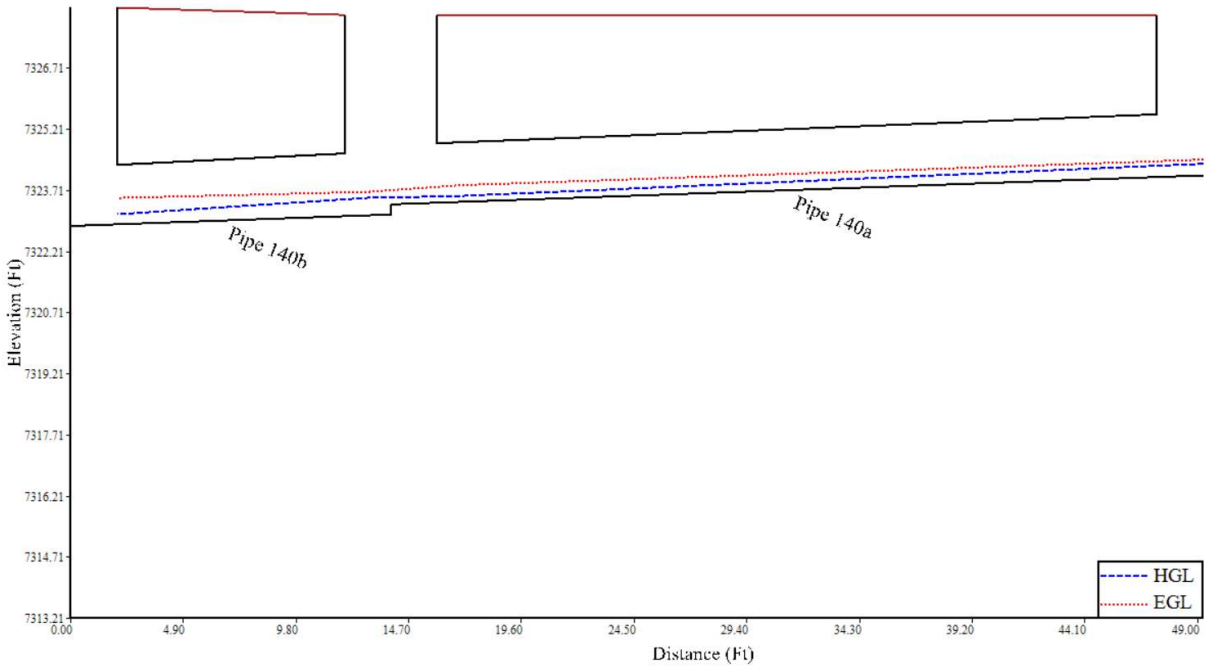
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

Stm-18

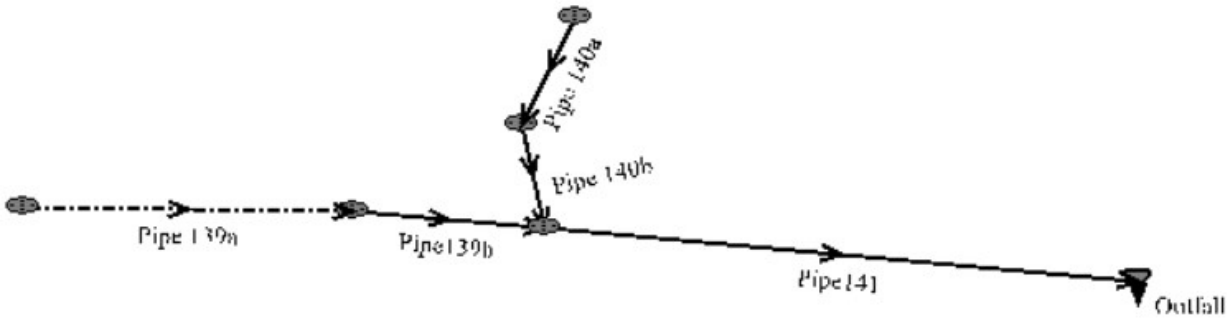

Elevation (Ft)
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7327.36
7325.56
7323.76
7321.96
7320.16
7318.36
7316.56
7314.76
7312.96
0.00
26.80
53.60
80.40
107.20
134.00
160.80
187.60
214.40
241.20
268.00
Distance (Ft)
Pipe 139a
Pipe139b
Pipe141
HGL
EGL

Stm-19


Elevation (Ft)
7326.71
7325.21
7323.71
7322.21
7320.71
7319.21
7317.71
7316.21
7314.71
7313.21
0.00
4.90
9.80
14.70
19.60
24.50
29.40
34.30
39.20
44.10
49.00
Distance (Ft)
Pipe 140b
Pipe 140a
HGL
EGL

System: CD Stm-18,19 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7314.97

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7317.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe141	7328.20	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe139b	7329.05	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 139a	7330.45	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 140b	7328.02	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 140a	7328.02	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	
Pipe139b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	
Pipe 139a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	
Pipe 140b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	

Pipe 140a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Manning s n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe141	144.39	7314.57	5.0	7321.84	0.013	0.03	0.00	CIRCULAR	18.00 in	18.00 in
Pipe139b	39.62	7322.84	4.6	7324.67	0.013	0.05	0.25	CIRCULAR	18.00 in	18.00 in
Pipe 139a	84.25	7325.17	4.3	7328.79	0.013	0.05	0.00	ELLIPSE	23.00 in	14.00 in
Pipe 140b	13.90	7322.84	2.0	7323.12	0.013	1.19	1.00	CIRCULAR	18.00 in	18.00 in
Pipe 140a	35.34	7323.37	2.0	7324.08	0.013	0.38	0.00	CIRCULAR	18.00 in	18.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe141	23.63	13.37	7.03	3.75	3.87	8.59	3.18	Supercritical	2.40	0.00	
Pipe139b	22.64	12.81	4.91	3.07	2.82	6.79	2.97	Supercritical	1.20	0.00	
Pipe 139a	23.49	12.58	4.88	3.05	2.84	6.60	2.88	Supercritical	1.20	0.00	
Pipe 140b	14.96	8.46	4.91	3.07	3.45	5.07	2.00	Supercritical	1.20	0.00	

Pipe 140a	14.93	8.45	3.45	2.54	2.46	4.13	1.94	Supercritical	0.60	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe141	2.40	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe139b	1.20	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe 139a	1.20	ELLIPSE	23.00 in	14.00 in	18.00 in	18.00 in	23.00 in	14.00 in	1.87	Width is too small. Existing width is smaller than the suggested width. Exceeds max. Depth/Rise
Pipe 140b	1.20	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise
Pipe 140a	0.60	CIRCULAR	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	18.00 in	1.77	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

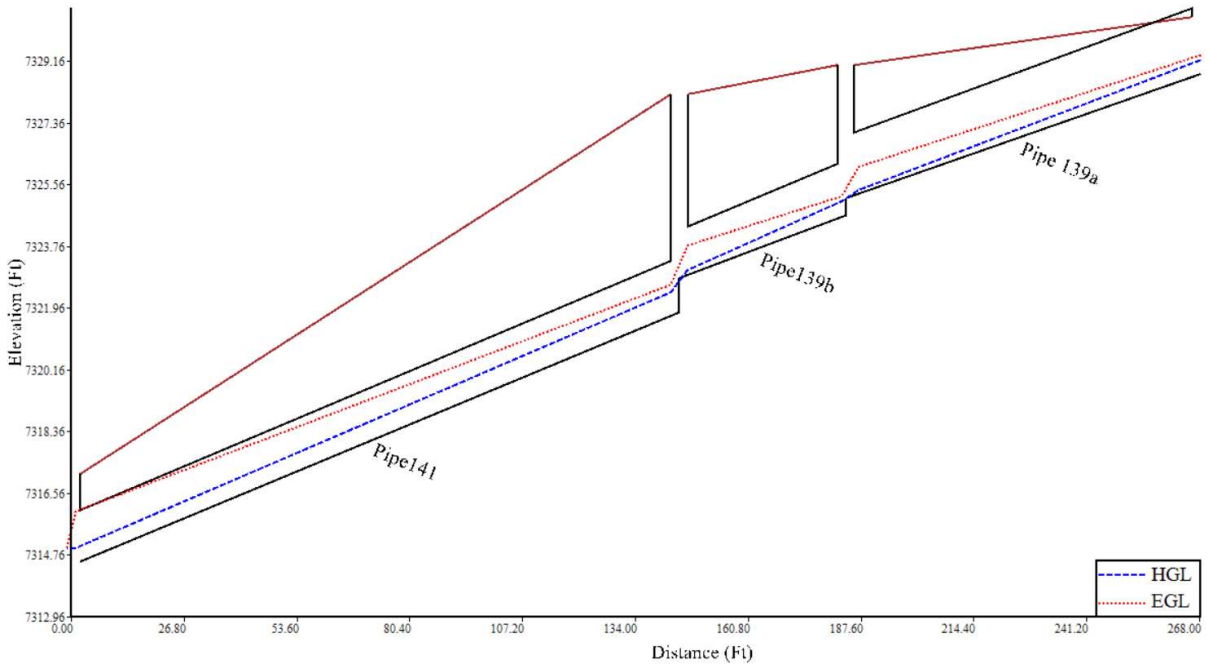
Tailwater Elevation (ft): 7314.97

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe141	7314.57	7321.84	0.00	0.00	7314.97	7322.43	7316.04	6.61	7322.64
Pipe139b	7322.84	7324.67	0.00	0.03	7323.07	7325.08	7323.79	1.43	7325.23
Pipe 139a	7325.17	7328.79	0.00	0.00	7325.41	7329.20	7326.08	3.26	7329.34
Pipe 140b	7322.84	7323.12	0.01	0.02	7323.13	7323.53	7323.53	0.15	7323.68
Pipe 140a	7323.37	7324.08	0.00	0.00	7323.58	7324.37	7323.84	0.63	7324.47

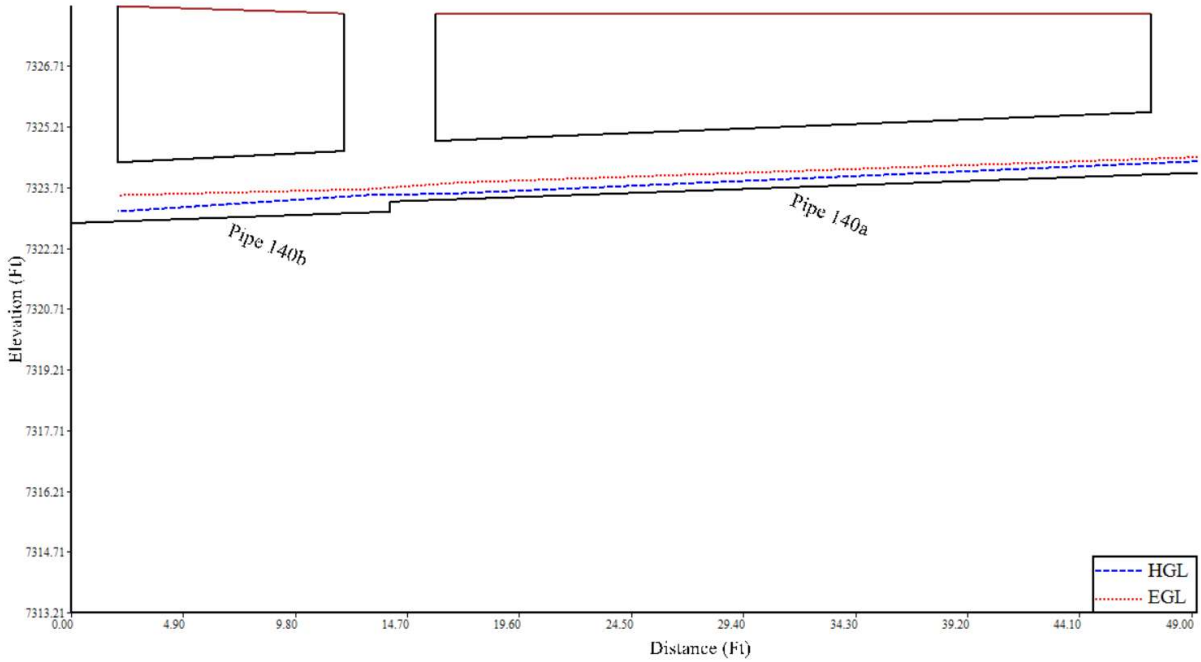
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

Stm-18

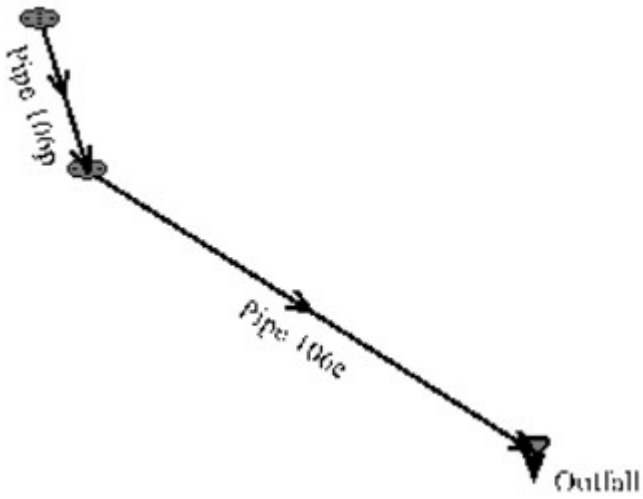

7329.16
7327.36
7325.56
7323.76
7321.96
7320.16
7318.36
7316.56
7314.76
7312.96
Elevation (Ft)
0.00
26.80
53.60
80.40
107.20
134.00
160.80
187.60
214.40
241.20
268.00
Distance (Ft)
Pipe141
Pipe139b
Pipe 139a
HGL
EGL

Stm-19


7326.71
7325.21
7323.71
7322.21
7320.71
7319.21
7317.71
7316.21
7314.71
7313.21
Elevation (Ft)
0.00
4.90
9.80
14.70
19.60
24.50
29.40
34.30
39.20
44.10
49.00
Distance (Ft)
Pipe 140b
Pipe 140a
HGL
EGL

System: CD Stm-20 100yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7305.20

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7307.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 106e	7316.00	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 106p	7312.00	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 106e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.50	
Pipe 106p	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.50	

Sewer Input Summary:

	Elevation	Loss Coefficients	Given Dimensions

Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 106e	156.25	7302.50	2.3	7306.15	0.013	0.05	0.00	CIRCULAR	48.00 in	48.00 in
Pipe 106p	20.75	7306.40	0.5	7306.50	0.013	0.38	0.00	CIRCULAR	24.00 in	24.00 in

---

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 106e	220.13	17.52	24.23	7.15	14.81	13.81	2.58	Supercritical	45.50	0.00	
Pipe 106p	15.75	5.01	24.00	14.48	24.00	14.48	0.00	Pressurized	45.50	20.75	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 106e	45.50	CIRCULAR	48.00 in	48.00 in	27.00 in	27.00 in	48.00 in	48.00 in	12.57	Exceeds max. Depth/Rise

Pipe 106p	45.50	CIRCULAR	24.00 in	24.00 in	36.00 in	36.00 in	24.00 in	24.00 in	3.14	Existing height is smaller than the suggested height. Existing width is smaller than the suggested width. Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

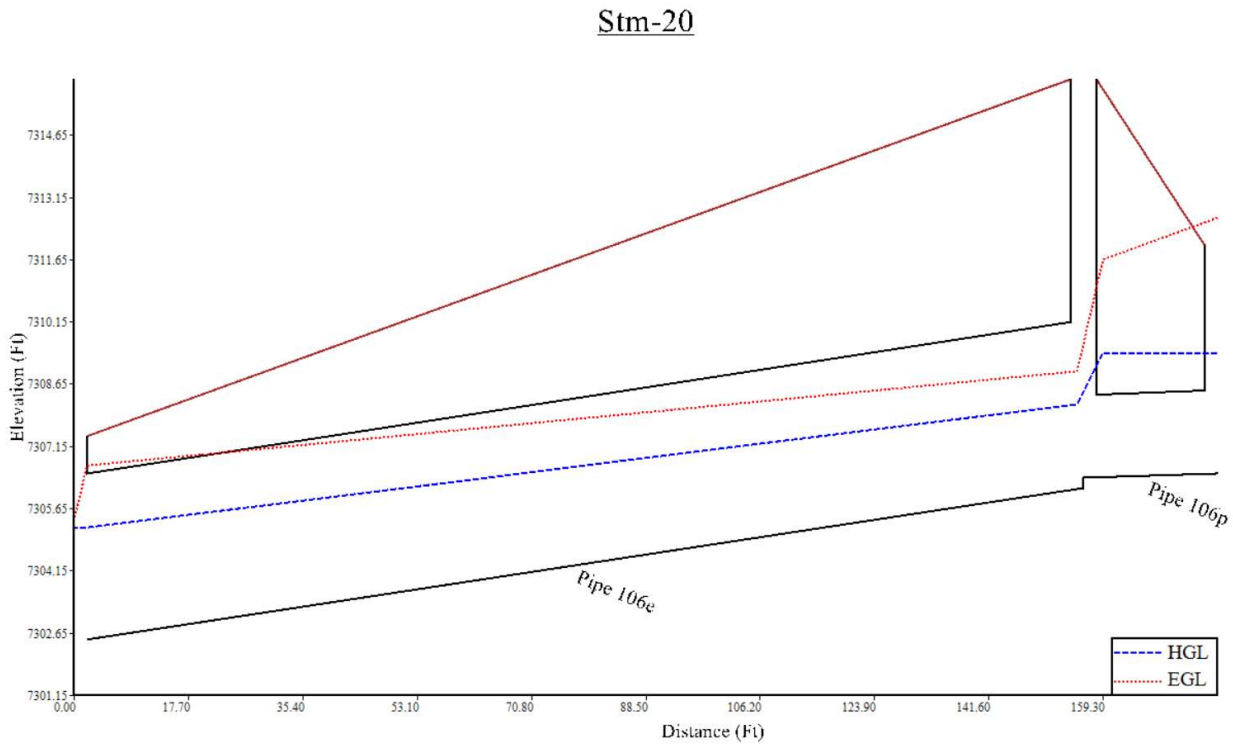
Grade Line Summary:

Tailwater Elevation (ft): 7305.20

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 106e	7302.50	7306.15	0.00	0.00	7305.20	7308.17	7306.69	2.27	7308.96
Pipe 106p	7306.40	7306.50	1.24	0.00	7309.41	7309.41	7311.66	1.01	7312.66

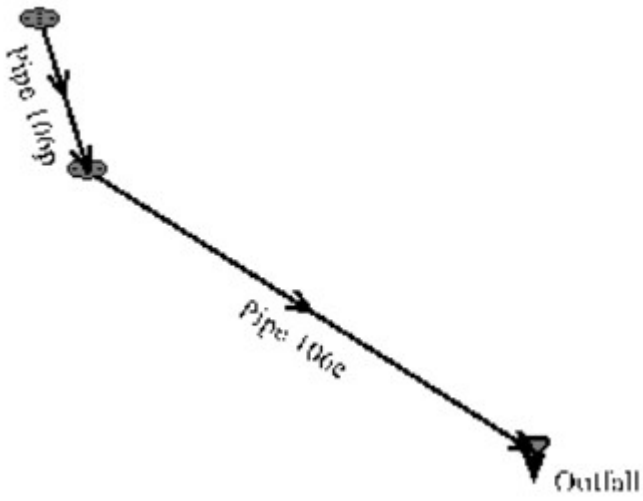
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):


Stm-20
Elevation (Ft)
7314.65
7313.15
7311.65
7310.15
7308.65
7307.15
7305.65
7304.15
7302.65
7301.15
0.00
17.70
35.40
53.10
70.80
88.50
106.20
123.90
141.60
159.30
Distance (Ft)
Pipe 106e
Pipe 106p
HGL
EGL

System: CD Stm-20 10yr

Diagram:



Rainfall Parameters

Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7304.10

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7307.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 106e	7316.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 106p	7312.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 106e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.20	
Pipe 106p	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.20	

Sewer Input Summary:

	Elevation	Loss Coefficients	Given Dimensions

Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 106e	156.25	7302.50	2.3	7306.15	0.013	0.05	0.00	CIRCULAR	48.00 in	48.00 in
Pipe 106p	20.75	7306.40	0.5	7306.50	0.013	0.38	0.00	CIRCULAR	24.00 in	24.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 106e	220.13	17.52	11.71	4.72	7.36	9.18	2.49	Supercritical	11.20	0.00	
Pipe 106p	15.75	5.01	14.41	5.69	14.95	5.44	0.93	Subcritical	11.20	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 106e	11.20	CIRCULAR	48.00 in	48.00 in	18.00 in	18.00 in	48.00 in	48.00 in	12.57	Exceeds max. Depth/Rise

Pipe 106p	11.20	CIRCULAR	24.00 in	24.00 in	24.00 in	24.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

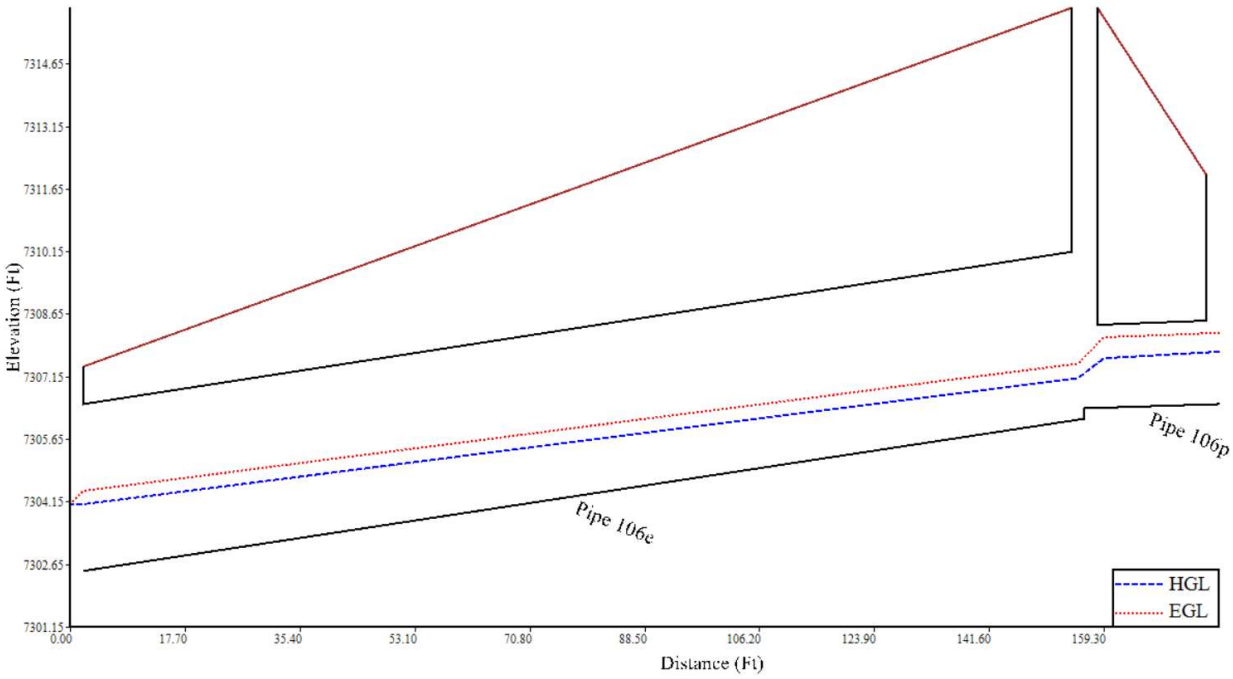
Tailwater Elevation (ft): 7304.10

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe 106e	7302.50	7306.15	0.00	0.00	7304.10	7307.13	7304.42	3.05	7307.47
Pipe 106p	7306.40	7306.50	0.07	0.00	7307.60	7307.76	7308.10	0.10	7308.21

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

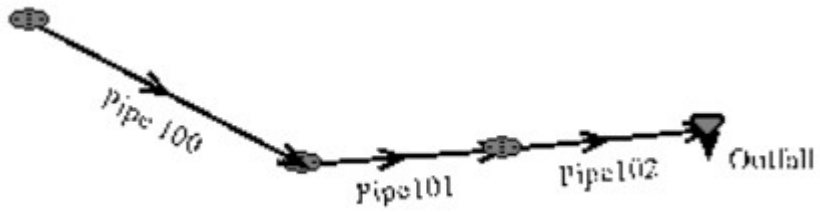
Profiles:

Stm-20


Elevation (Ft)
7314.65
7313.15
7311.65
7310.15
7308.65
7307.15
7305.65
7304.15
7302.65
7301.15
0.00
17.70
35.40
53.10
70.80
88.50
106.20
123.90
141.60
159.30
Distance (Ft)
Pipe 106p
Pipe 106e
HGL
EGL

System: CD Stm-21 100yr

Diagram:



Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7311.01

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7312.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe102	7317.69	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe101	7320.73	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 100	7321.18	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00	
Pipe101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00	
Pipe 100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.50	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)

Pipe102	36.64	7308.41	1.5	7308.96	0.013	0.03	0.00	CIRCULAR	30.00 in	30.00 in
Pipe101	16.00	7311.18	5.0	7311.98	0.013	0.05	0.00	CIRCULAR	30.00 in	30.00 in
Pipe 100	44.34	7313.29	5.0	7315.51	0.013	0.38	0.00	CIRCULAR	30.00 in	30.00 in

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Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe102	50.37	10.26	22.03	7.51	16.33	10.62	1.79	Supercritical Jump	29.00	9.93	
Pipe101	91.96	18.73	22.03	7.51	11.57	16.60	3.45	Supercritical	29.00	0.00	
Pipe 100	91.96	18.73	15.39	5.72	8.05	13.67	3.48	Supercritical Jump	14.50	11.22	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**

Pipe102	29.00	CIRCULAR	30.00 in	30.00 in	27.00 in	27.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe101	29.00	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 100	14.50	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

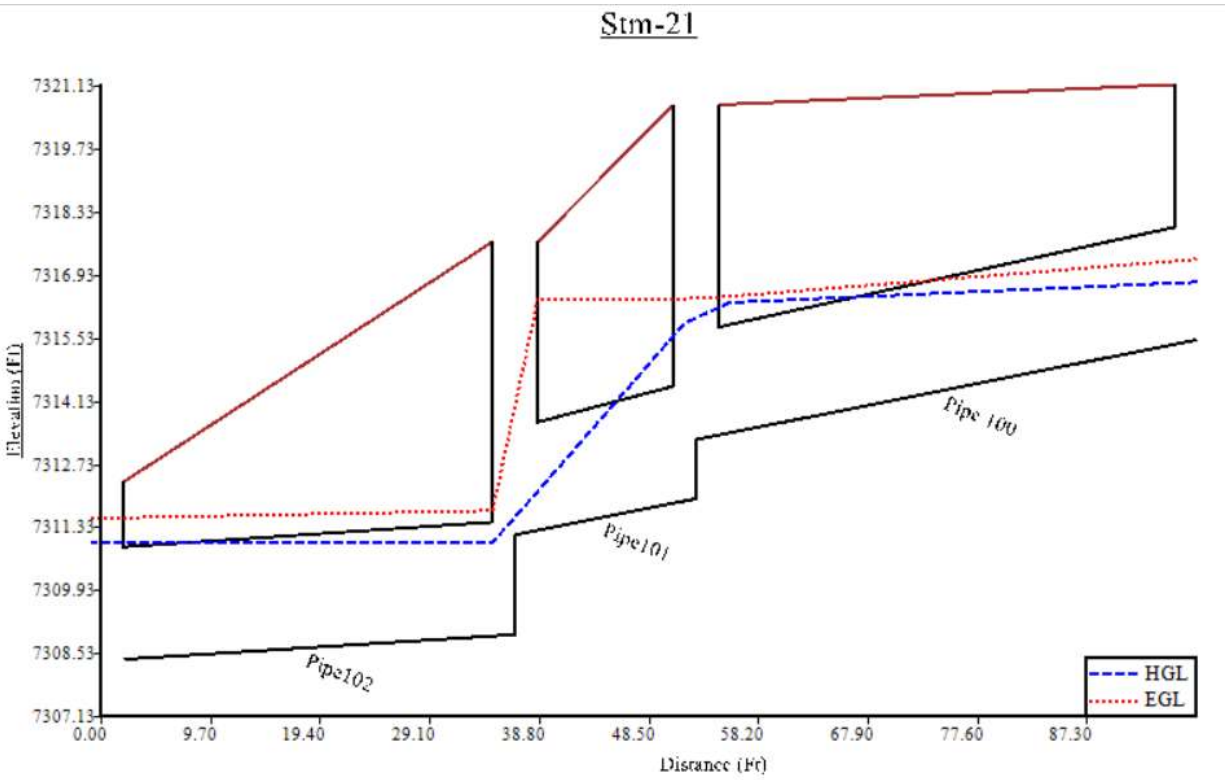
Grade Line Summary:

Tailwater Elevation (ft): 7311.01

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**
Pipe102	7308.41	7308.96	0.00	0.00	7311.01	7311.01	7311.55	0.16	7311.71
Pipe101	7311.18	7311.98	0.03	0.00	7312.14	7315.88	7316.42	0.00	7316.42
Pipe 100	7313.29	7315.51	0.05	0.00	7316.34	7316.79	7316.48	0.82	7317.30

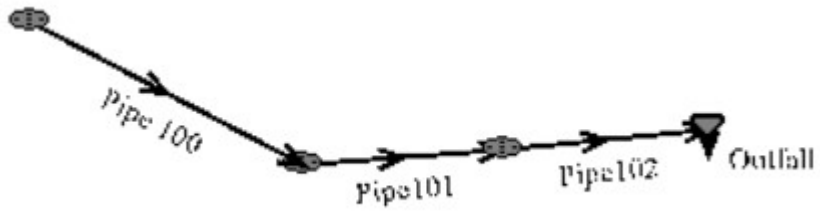
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):


Stm-21
7321.13
7319.73
7318.33
7316.93
7315.53
7314.13
7312.73
7311.33
7309.93
7308.53
7307.13
Elevation (Ft)
0.00
9.70
19.40
29.10
38.80
48.50
58.20
67.90
77.60
87.30
Distance (Ft)
Pipe102
Pipe101
Pipe 100
HGL
EGL

System: CD Stm-21 10yr

Diagram:



Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7310.25

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7312.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe102	7315.84	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe101	7320.73	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 100	7321.18	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	
Pipe101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40	
Pipe 100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.70	

Sewer Input Summary:

	Elevation	Loss Coefficients	Given Dimensions

Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe102	36.64	7308.41	1.5	7308.96	0.013	0.03	0.00	CIRCULAR	30.00 in	30.00 in
Pipe101	16.00	7311.18	5.0	7311.98	0.013	0.05	0.00	CIRCULAR	30.00 in	30.00 in
Pipe 100	44.34	7313.29	5.0	7315.51	0.013	0.38	0.00	CIRCULAR	30.00 in	30.00 in

---

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe102	50.37	10.26	16.94	6.09	12.16	9.32	1.88	Supercritical	17.40	0.00	
Pipe101	91.96	18.73	16.94	6.09	8.84	14.40	3.49	Supercritical	17.40	0.00	
Pipe 100	91.96	18.73	11.79	4.86	6.23	11.79	3.44	Supercritical	8.70	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

	Existing	Calculated	Used	

Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe102	17.40	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe101	17.40	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise
Pipe 100	8.70	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

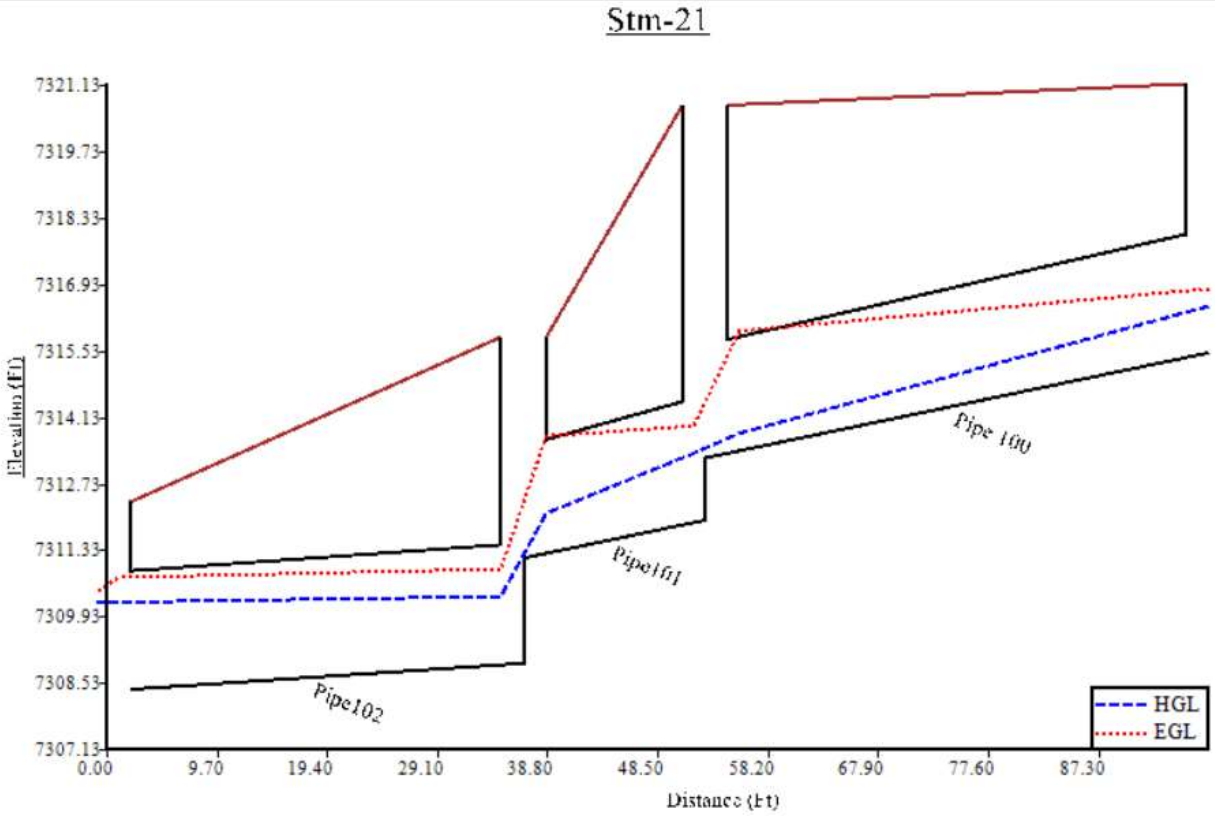
Grade Line Summary:

Tailwater Elevation (ft): 7310.25

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe102	7308.41	7308.96	0.00	0.00	7310.25	7310.37	7310.77	0.17	7310.95
Pipe101	7311.18	7311.98	0.01	0.00	7312.12	7313.39	7313.75	0.21	7313.97
Pipe 100	7313.29	7315.51	0.02	0.00	7313.81	7316.49	7315.97	0.89	7316.86

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

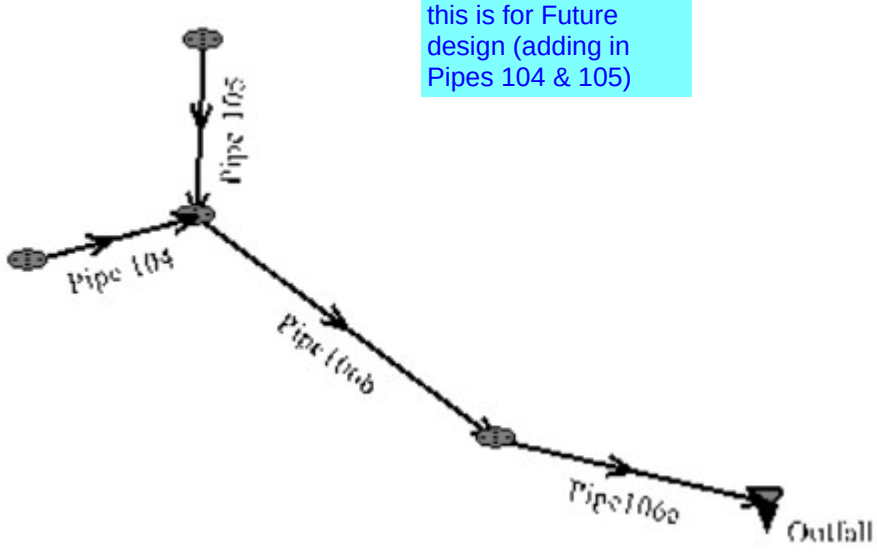
Profile(s):


Stm-21
7321.13
7319.73
7318.33
7316.93
7315.53
7314.13
7312.73
7311.33
7309.93
7308.53
7307.13
Elevation (Ft)
0.00
9.70
19.40
29.10
38.80
48.50
58.20
67.90
77.60
87.30
Distance (Ft)
Pipe102
Pipe101
Pipe100
HGL
EGL

System: CD Stm-22,24 100yr

Diagram:

Move this to be after STM20. Add to label or title that STM-20 is for Filing only and this is for Future design (adding in Pipes 104 & 105)



Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00

Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7311.01

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7312.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe106a	7322.11	64.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe106b	7322.48	64.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe105	7323.01	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe104	7321.40	37.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe106a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.20	

Pipe106b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.20	
Pipe 105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.50	
Pipe 104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.70	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	**Sewer Length (ft)**	**Downstream Invert (ft)**	**Slope (%)**	**Upstream Invert (ft)**	**Mannings n**	**Bend Loss**	**Lateral Loss**	**Cross Section**	**Rise (ft or in)**	**Span (ft or in)**
Pipe106a	52.00	7301.57	5.0	7304.17	0.013	0.03	0.00	CIRCULAR	42.00 in	42.00 in
Pipe106b	45.80	7311.69	6.8	7314.80	0.013	0.05	0.00	CIRCULAR	42.00 in	42.00 in
Pipe 105	16.00	7316.40	2.3	7316.77	0.013	0.38	0.44	CIRCULAR	24.00 in	24.00 in
Pipe 104	16.00	7315.90	1.0	7316.06	0.013	0.38	0.44	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	**Flow (cfs)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Depth (in)**	**Velocity (fps)**	**Froude Number**	**Flow Condition**	**Flow (cfs)**	**Surcharged Length (ft)**	**Comment**
Pipe106a	225.58	23.45	30.14	8.69	15.33	20.20	3.67	Pressurized	64.20	52.00	Velocity is Too High
Pipe106b	263.06	27.34	30.14	8.69	14.13	22.58	4.29	Supercritical	64.20	0.00	Velocity is Too High

Unresolved:
Pipe velocity cannot be greater than 18 fps

Unresolved:
Pipe velocity cannot be greater than 18 fps

Pipe 105	34.40	10.95	21.57	8.91	15.80	12.08	1.98	Supercritical	26.50	0.00	
Pipe 104	41.13	8.38	24.92	8.65	22.60	9.50	1.23	Supercritical	37.70	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe106a	64.20	CIRCULAR	42.00 in	42.00 in	27.00 in	27.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe106b	64.20	CIRCULAR	42.00 in	42.00 in	27.00 in	27.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 105	26.50	CIRCULAR	24.00 in	24.00 in	24.00 in	24.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 104	37.70	CIRCULAR	30.00 in	30.00 in	30.00 in	30.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

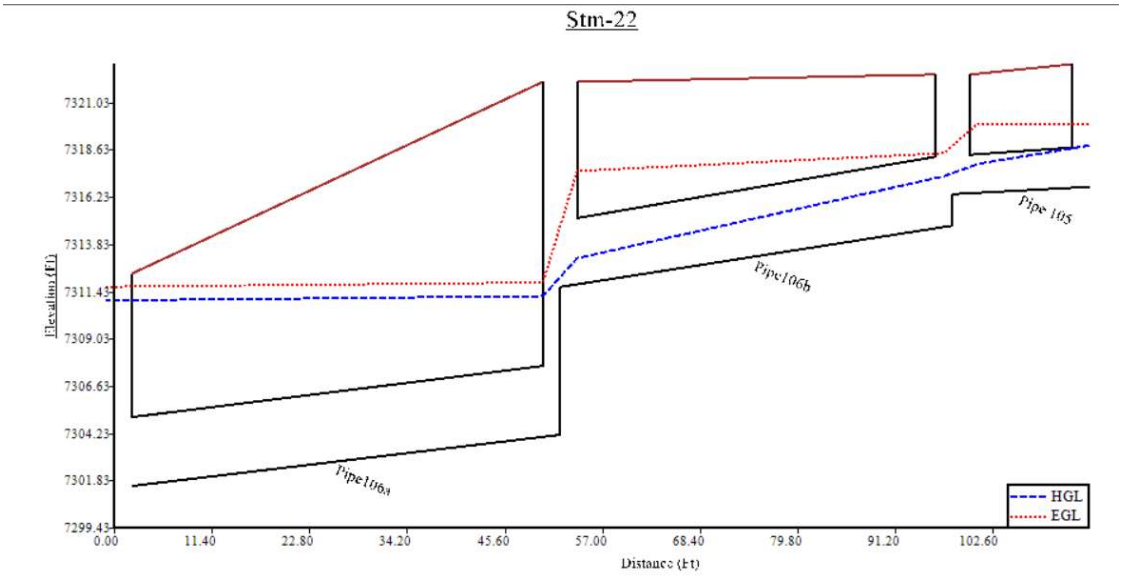
Grade Line Summary:

Tailwater Elevation (ft): 7311.01

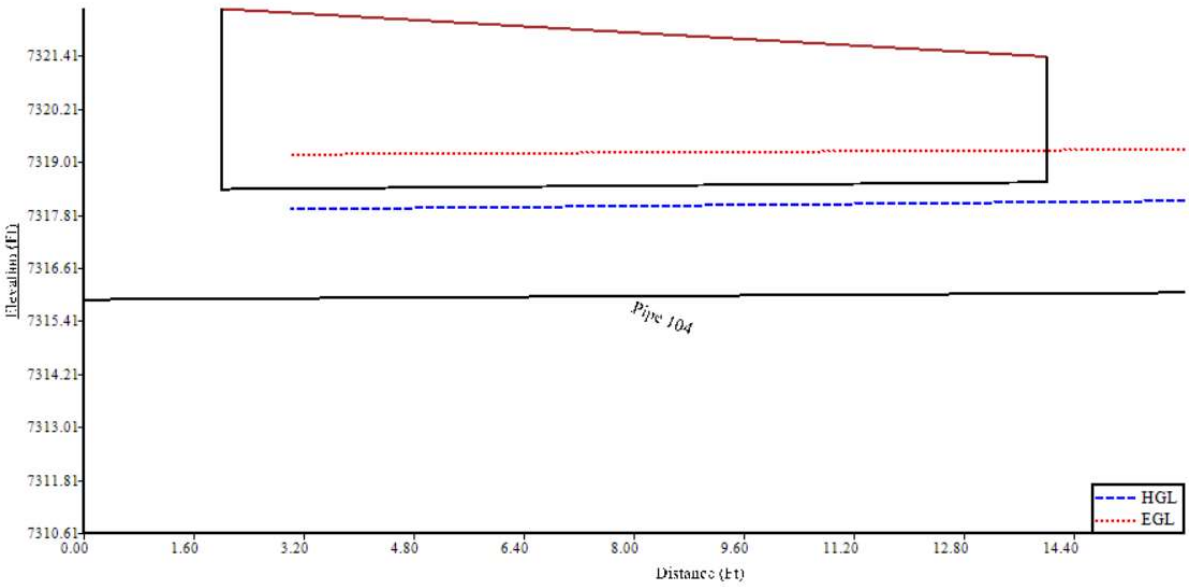
	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe106a	7301.57	7304.17	0.00	0.00	7311.01	7311.22	7311.70	0.21	7311.91
Pipe106b	7311.69	7314.80	0.03	0.00	7313.15	7317.31	7317.58	0.91	7318.48
Pipe 105	7316.40	7316.77	0.42	0.21	7317.94	7318.88	7319.98	0.00	7319.98
Pipe 104	7315.90	7316.06	0.35	0.29	7317.95	7318.14	7319.19	0.11	7319.30

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

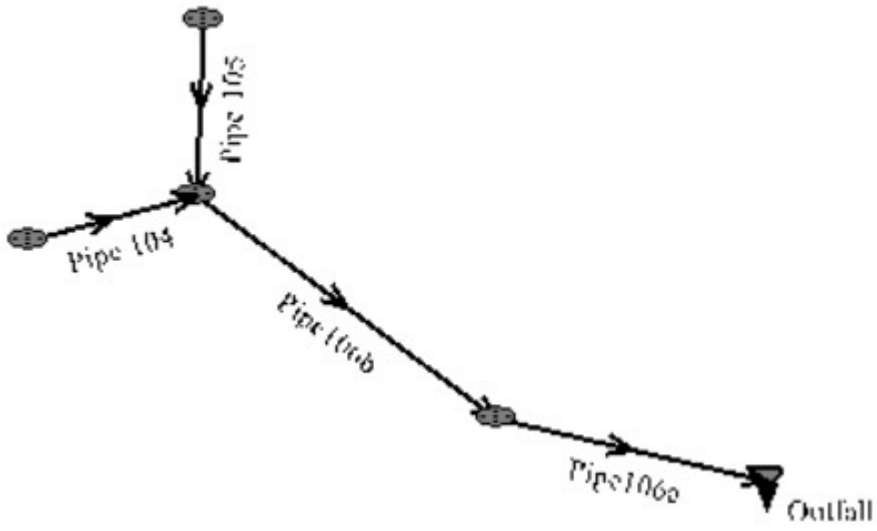


Stm-24


7321.41
7320.21
7319.01
7317.81
7316.61
7315.41
7314.21
7313.01
7311.81
7310.61
Elevation (Ft)
Pipe 104
HGL
EGL
0.00
1.60
3.20
4.80
6.40
8.00
9.60
11.20
12.80
14.40
Distance (Ft)

System: CD Stm-22, 24 10yr

Diagram:



Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7310.25

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7312.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe106a	7322.11	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe106b	7322.48	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 105	7323.01	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 104	7321.40	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe106a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.40	
Pipe106b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.40	
Pipe 105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.60	
Pipe 104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.80	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Mannings n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe106a	52.00	7301.57	5.0	7304.17	0.013	0.03	0.00	CIRCULAR	42.00 in	42.00 in
Pipe106b	45.80	7311.69	6.8	7314.80	0.013	0.05	0.00	CIRCULAR	42.00 in	42.00 in
Pipe 105	16.00	7316.40	2.3	7316.77	0.013	0.38	0.44	CIRCULAR	24.00 in	24.00 in
Pipe 104	16.00	7315.90	1.0	7316.06	0.013	0.38	0.44	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe106a	225.58	23.45	22.46	6.95	11.41	17.22	3.68	Pressurized	36.40	52.00	
Pipe106b	263.06	27.34	22.46	6.95	10.55	19.21	4.29	Supercritical	36.40	0.00	Velocity is Too High
Pipe 105	34.40	10.95	16.52	6.33	10.92	10.50	2.22	Supercritical	14.60	0.00	
Pipe 104	41.13	8.38	19.05	6.63	15.53	8.50	1.48	Supercritical	21.80	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).

Unresolved:
Pipe velocity cannot be over 18 fps

- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	**Peak Flow (cfs)**	**Cross Section**	**Rise**	**Span**	**Rise**	**Span**	**Rise**	**Span**	**Area (ft^2)**	**Comment**
Pipe106a	36.40	CIRCULAR	42.00 in	42.00 in	24.00 in	24.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe106b	36.40	CIRCULAR	42.00 in	42.00 in	21.00 in	21.00 in	42.00 in	42.00 in	9.62	Exceeds max. Depth/Rise
Pipe 105	14.60	CIRCULAR	24.00 in	24.00 in	18.00 in	18.00 in	24.00 in	24.00 in	3.14	Exceeds max. Depth/Rise
Pipe 104	21.80	CIRCULAR	30.00 in	30.00 in	24.00 in	24.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

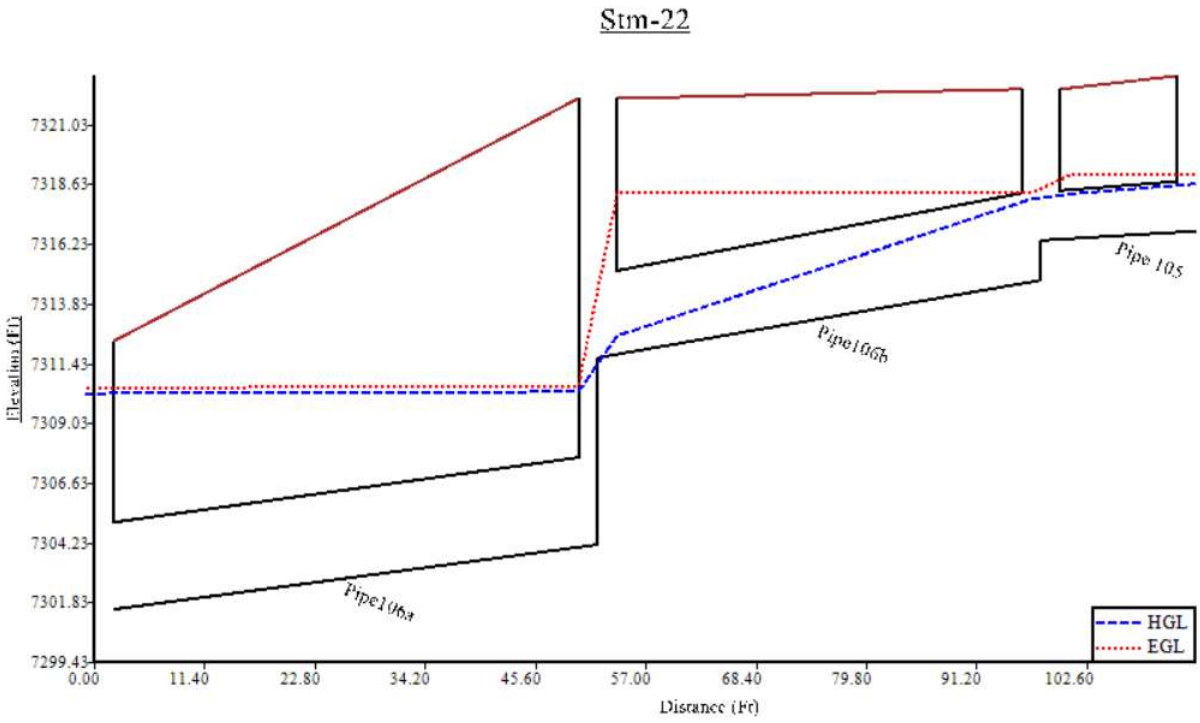
Tailwater Elevation (ft): 7310.25

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	**Downstream (ft)**	**Upstream (ft)**	**Bend Loss (ft)**	**Lateral Loss (ft)**	**Downstream (ft)**	**Upstream (ft)**	**Downstream (ft)**	**Friction Loss (ft)**	**Upstream (ft)**

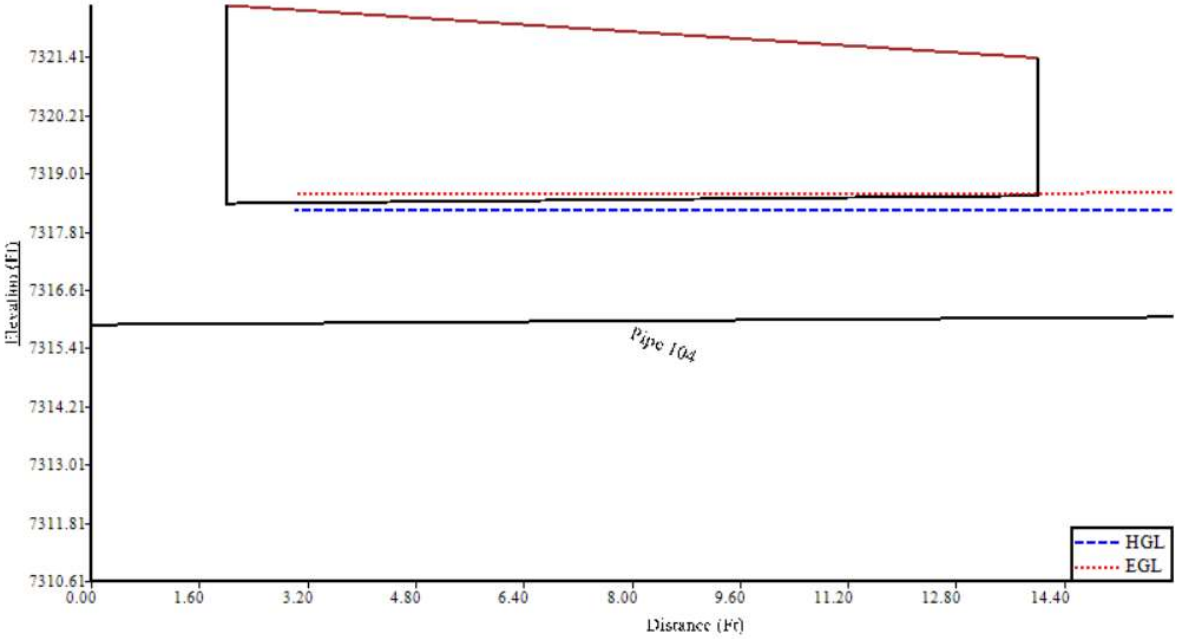
Pipe106a	7301.57	7304.17	0.00	0.00	7310.25	7310.32	7310.47	0.07	7310.54
Pipe106b	7311.69	7314.80	0.01	0.00	7312.57	7318.06	7318.30	0.00	7318.30
Pipe 105	7316.40	7316.77	0.13	0.07	7318.26	7318.68	7319.02	0.00	7319.02
Pipe 104	7315.90	7316.06	0.12	0.09	7318.27	7318.27	7318.58	0.03	7318.62

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):

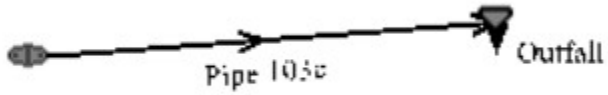


Stm-24


7321.41
7320.21
7319.01
7317.81
7316.61
7315.41
7314.21
7313.01
7311.81
7310.61
Elevation (Ft)
Pipe 104
HGL
EGL
0.00
1.60
3.20
4.80
6.40
8.00
9.60
11.20
12.80
14.40
Distance (Ft)

System: CD Stm-23 100yr

Diagram:



Rainfall Return Period: 100
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7311.01

Manhole Input Summary:

	Given Flow	Sub Basin Information

Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7320.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 103c	7320.80	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 103c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.20	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 103c	89.78	7314.08	2.0	7315.88	0.013	0.05	0.00	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

	Full Flow Capacity	Critical Flow	Normal Flow	

Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 103c	58.16	11.85	18.77	6.56	12.53	10.92	2.17	Supercritical	21.20	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 103c	21.20	CIRCULAR	30.00 in	30.00 in	21.00 in	21.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

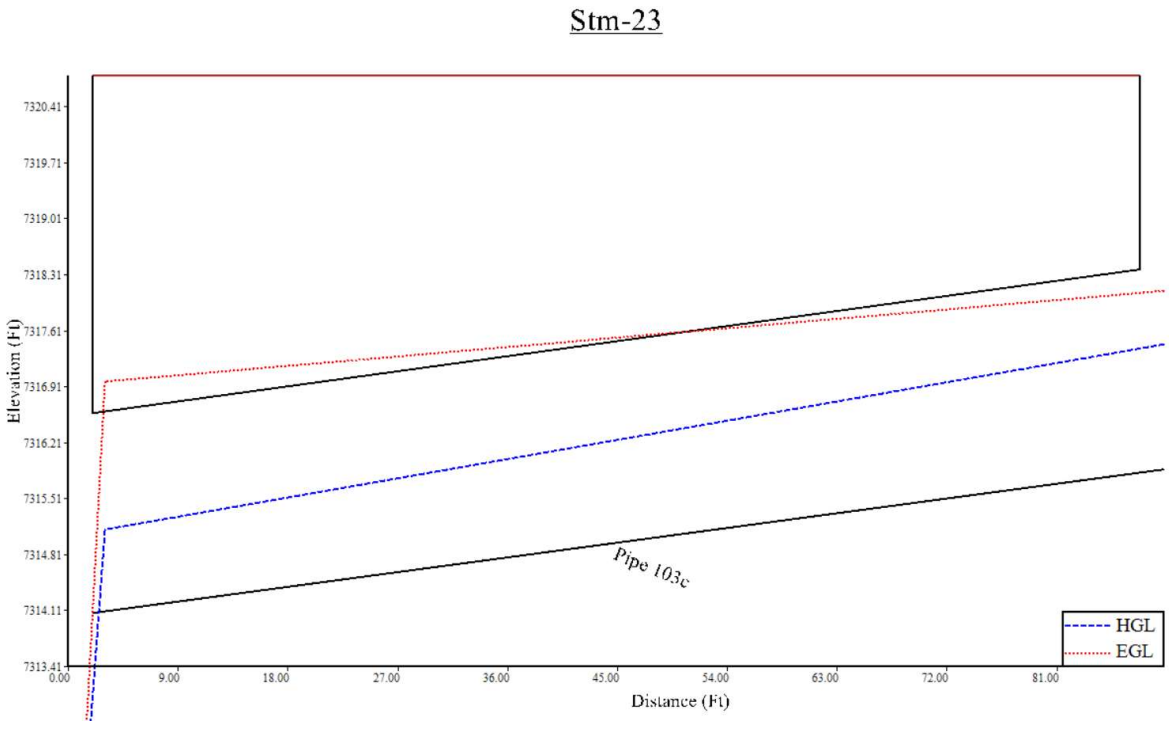
Tailwater Elevation (ft): 7311.01

	Invert Elev.		Downstream Manhole Losses		HGL		EGL		
Element Name	Downstream (ft)	Upstream (ft)	Bend Los	Lateral	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction	Upstream (ft)

			s (ft)	Loss (ft)				Loss (ft)	
Pipe 103c	7314.08	7315.88	0.00	0.00	7315.13	7317.44	7316.98	1.13	7318.11

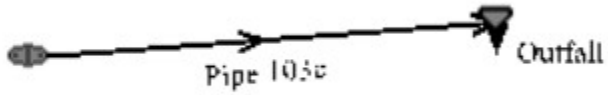
- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



System: CD Stm-23 10yr

Diagram:



System Input Summary

Rainfall Return Period: 10
Rainfall Calculation Method: Formula

One Hour Depth (in):
Rainfall Constant "A": 28.5
Rainfall Constant "B": 10
Rainfall Constant "C": 0.786

Rational Method Constraints

Minimum Urban Runoff Coeff.: 0.00
Maximum Rural Overland Len. (ft): 0
Maximum Urban Overland Len. (ft): 0
Used UDFCD Tc. Maximum: No

Sizer Constraints

Minimum Sewer Size (in): 18.00
Maximum Depth to Rise Ratio: 0.00
Maximum Flow Velocity (fps): 18.0
Minimum Flow Velocity (fps): 3.0

Backwater Calculations:

Tailwater Elevation (ft): 7310.25

Manhole Input Summary:

		Given Flow		Sub Basin Information						
Element Name	Ground Elevation (ft)	Total Known Flow (cfs)	Local Contribution (cfs)	Drainage Area (Ac.)	Runoff Coefficient	5yr Coefficient	Overland Length (ft)	Overland Slope (%)	Gutter Length (ft)	Gutter Velocity (fps)
Outfall	7320.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pipe 103c	7320.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Manhole Output Summary:

	Local Contribution					Total Design Flow				
Element Name	Overland Time (min)	Gutter Time (min)	Basin Tc (min)	Intensity (in/hr)	Local Contrib (cfs)	Coeff. Area	Intensity (in/hr)	Manhole Tc (min)	Peak Flow (cfs)	Comment
Outfall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pipe 103c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.90	

Sewer Input Summary:

		Elevation			Loss Coefficients			Given Dimensions		
Element Name	Sewer Length (ft)	Downstream Invert (ft)	Slope (%)	Upstream Invert (ft)	Manning s n	Bend Loss	Lateral Loss	Cross Section	Rise (ft or in)	Span (ft or in)
Pipe 103c	74.10	7314.52	2.0	7316.00	0.013	0.05	0.00	CIRCULAR	30.00 in	30.00 in

Sewer Flow Summary:

	Full Flow Capacity		Critical Flow		Normal Flow						
Element Name	Flow (cfs)	Velocity (fps)	Depth (in)	Velocity (fps)	Depth (in)	Velocity (fps)	Froude Number	Flow Condition	Flow (cfs)	Surcharged Length (ft)	Comment
Pipe 103c	58.16	11.85	11.21	4.72	7.47	8.28	2.20	Supercritical	7.90	0.00	

- A Froude number of 0 indicates that pressured flow occurs (adverse slope or undersized pipe).
- If the sewer is not pressurized, full flow represents the maximum gravity flow in the sewer.
- If the sewer is pressurized, full flow represents the pressurized flow conditions.

Sewer Sizing Summary:

			Existing		Calculated		Used			
Element Name	Peak Flow (cfs)	Cross Section	Rise	Span	Rise	Span	Rise	Span	Area (ft^2)	Comment
Pipe 103c	7.90	CIRCULAR	30.00 in	30.00 in	18.00 in	18.00 in	30.00 in	30.00 in	4.91	Exceeds max. Depth/Rise

- Calculated diameter was determined by sewer hydraulic capacity rounded up to the nearest commercially available size.
- Sewer sizes should not decrease downstream.
- All hydraulics where calculated using the 'Used' parameters.

Grade Line Summary:

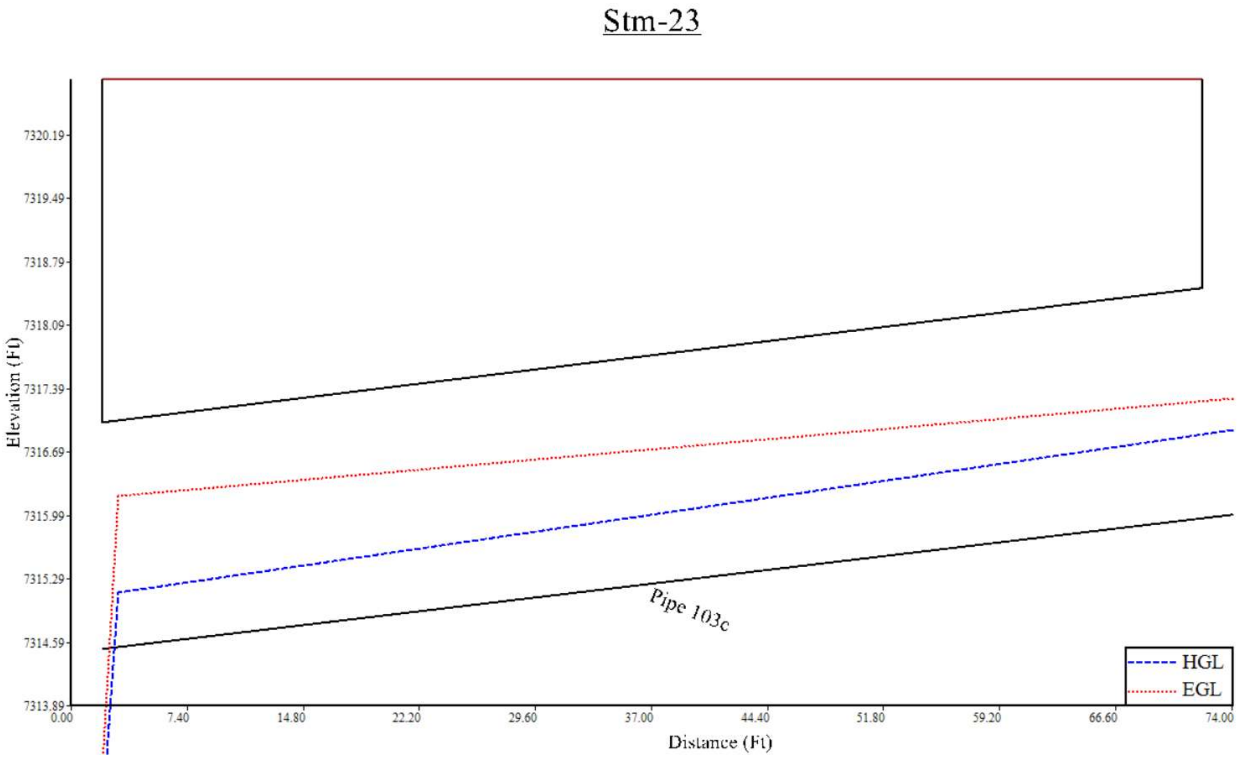
Tailwater Elevation (ft): 7310.25

	Invert Elev.	Downstream Manhole Losses	HGL	EGL

Element Name	Downstream (ft)	Upstream (ft)	Bend Loss (ft)	Lateral Loss (ft)	Downstream (ft)	Upstream (ft)	Downstream (ft)	Friction Loss (ft)	Upstream (ft)
Pipe 103c	7314.52	7316.00	0.00	0.00	7315.14	7316.93	7316.21	1.07	7317.28

- Bend and Lateral losses only apply when there is an outgoing sewer. The system outfall, sewer #0, is not considered a sewer.
- Bend loss = Bend K * V_fi ^ 2/(2*g)
- Lateral loss = V_fo ^ 2/(2*g)- Junction Loss K * V_fi ^ 2/(2*g).
- Friction loss is always Upstream EGL - Downstream EGL.

Profile(s):



Include sheet from previous submittal showing D-10-R at grade inlets, since we are sticking with the D-10-R inlets.

MONUMENT RIDGE EAST - FILING NO. 1
FINAL DRAINAGE REPORT
(Pipe Summary)

Pipe ID	*Filing 1 (Interim) - Flow (cfs)*		*Future - Flow (cfs)*		*Control (F1=Filing 1, Fut=Future)*	*Pipe Diam*
	Q_{10}	Q_{100}	Q_{10}	Q_{100}		
100	5.0	14.3	8.7	14.5	Fut	24"
101	9.9	28.7	17.4	29.0	Fut	24"
102	9.9	28.7	17.4	29.0	Fut	24"
103	2.0	6.7	7.9	21.2	Fut	30"
104	No Flow (stub for future)		21.8	37.7	Fut	30"
105	No Flow (stub for future)		14.6	26.5	Fut	30"
106	No Flow (for future)		36.4	64.2	Fut	42"
107	9.5	21.4	6.2	10.5	F1	24"
108	19.0	42.9	12.5	21.0	F1	30"
109	No Flow (stub for future)		17.9	30.3	Fut	30"
110	No Flow (for future)		17.9	30.3	Fut	30"
111	No Flow (stub for future)		4.2	7.0	Fut	24"
112	No Flow (for future)		22.1	37.3	Fut	36"
113	3.6	7.0	4.7	7.5	Fut	24"
114	3.6	7.0	26.8	44.8	Fut	36"
115	22.6	49.9	39.3	65.8	Fut	42"
116	22.6	49.9	39.3	65.8	Fut	42"
117	7.6	28.0	7.2	19.5	F1	36"
118	No Flow (stub for future)		0.3	5.5	Fut	18"
119	7.6	28.0	7.5	25.0	F1	36"
120	7.6	28.0	7.5	25.0	F1	36"
121	25.7	67.2	19.7	71.2	Fut	48"
122	7.5	15.9	12.1	22.5	Fut	24"
123	14.9	31.9	24.3	45.0	Fut	30"
124	1.5	3.1	2.1	3.8	Fut	18"
125	59.2	118.3	59.2	118.3	F1=Fut	54"
126	60.0	120.7	60.2	121.1		54"
127	102.6	211.4	102.6	211.4		54"
128	162.6	332.0	162.8	332.4		78"
129	162.6	332.0	162.8	332.4		78"
130	7.8	14.9	7.8	14.9		24"
131	7.8	14.9	7.8	14.9		24"
132	15.6	29.8	15.6	29.8		30"
133	6.2	11.7	6.2	11.7		18"
134	21.8	41.5	21.8	41.5		30"
135	28.0	53.2	28.0	53.2		36"
136	11.4	34.1	12.2	43.2	Fut	36"
137	9.3	17.4	9.3	17.4	F1=Fut	24"
138	1.6	5.4	1.6	5.4		18"
139	1.2	2.9	1.2	2.9		18"
140	0.6	1.1	0.6	1.1		18"
141	2.4	5.2	2.4	5.2		18"

Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Dec 29 2025

Design Point F21 Existing 1-48in Pipe

Invert Elev Dn (ft)	=	51.92
Pipe Length (ft)	=	70.00
Slope (%)	=	5.41
Invert Elev Up (ft)	=	55.71
Rise (in)	=	48.0
Shape	=	Circular
Span (in)	=	48.0
No. Barrels	=	1
n-Value	=	0.024
Culvert Type	=	Circular Concrete
Culvert Entrance	=	Square edge w/headwall (C)
Coeff. K,M,c,Y,k	=	0.0098, 2, 0.0398, 0.67, 0.5

Embankment

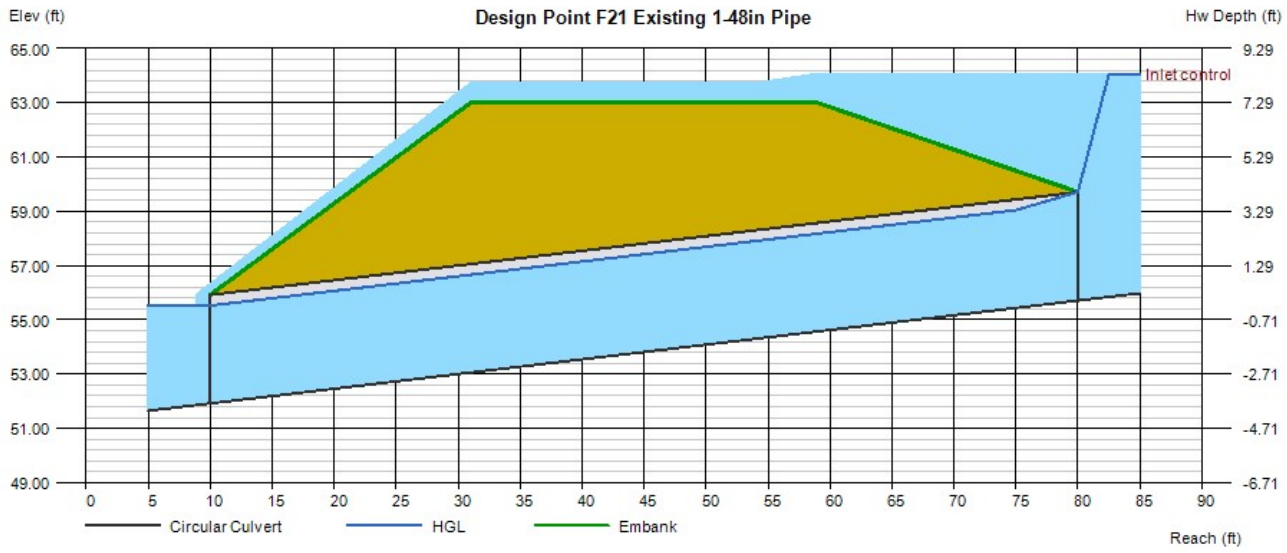
Top Elevation (ft)	=	63.00
Top Width (ft)	=	28.00
Crest Width (ft)	=	100.00

Calculations

Qmin (cfs)	=	488.00
Qmax (cfs)	=	488.00
Tailwater Elev (ft)	=	0.00

Highlighted

Qtotal (cfs)	=	488.00
Qpipe (cfs)	=	151.49
Qovertop (cfs)	=	336.51
Veloc Dn (ft/s)	=	12.70
Veloc Up (ft/s)	=	12.70
HGL Dn (ft)	=	55.53
HGL Up (ft)	=	59.32
Hw Elev (ft)	=	64.07
Hw/D (ft)	=	2.09
Flow Regime	=	Inlet Control



Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Dec 29 2025

Design Point F21 Proposed 3-48in Pipes

Invert Elev Dn (ft)	=	51.92
Pipe Length (ft)	=	70.00
Slope (%)	=	5.41
Invert Elev Up (ft)	=	55.71
Rise (in)	=	48.0
Shape	=	Circular
Span (in)	=	48.0
No. Barrels	=	3
n-Value	=	0.013
Culvert Type	=	Circular Concrete
Culvert Entrance	=	Groove end w/headwall (C)
Coeff. K,M,c,Y,k	=	0.0018, 2, 0.0292, 0.74, 0.2

Embankment

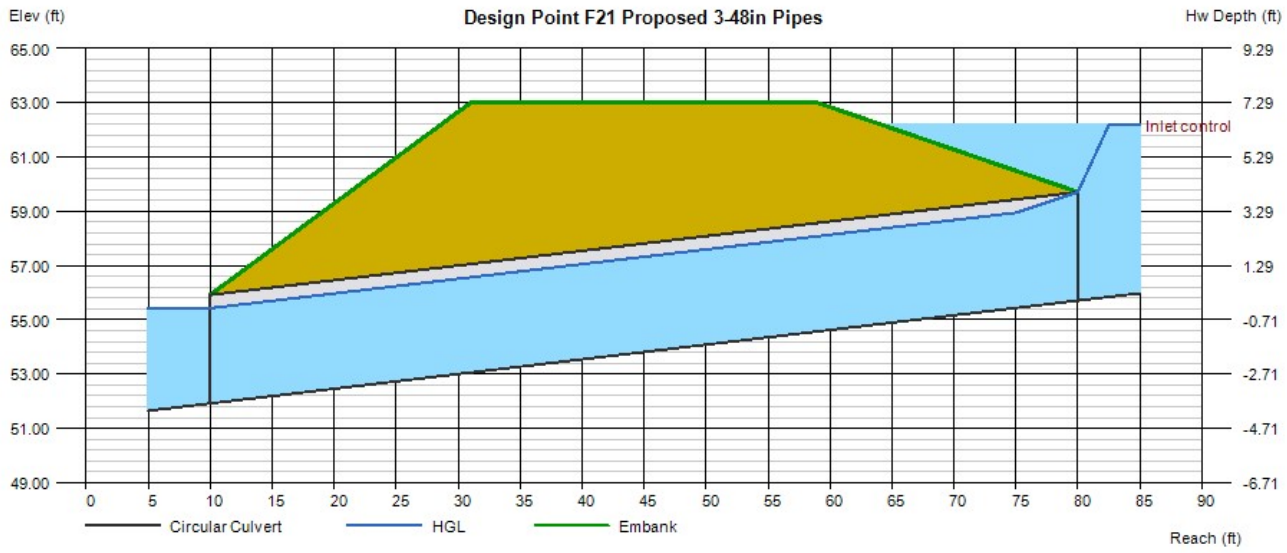
Top Elevation (ft)	=	63.00
Top Width (ft)	=	28.00
Crest Width (ft)	=	100.00

Calculations

Qmin (cfs)	=	420.30
Qmax (cfs)	=	420.30
Tailwater Elev (ft)	=	0.00

Highlighted

Qtotal (cfs)	=	420.30
Qpipe (cfs)	=	420.30
Qovertop (cfs)	=	0.00
Veloc Dn (ft/s)	=	11.99
Veloc Up (ft/s)	=	11.99
HGL Dn (ft)	=	55.43
HGL Up (ft)	=	59.22
Hw Elev (ft)	=	62.19
Hw/D (ft)	=	1.62
Flow Regime	=	Inlet Control



Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Tuesday, Jun 24 2025

DP F28 - Existing 48inch

Invert Elev Dn (ft)	=	7274.00
Pipe Length (ft)	=	85.00
Slope (%)	=	2.35
Invert Elev Up (ft)	=	7276.00
Rise (in)	=	48.0
Shape	=	Circular
Span (in)	=	48.0
No. Barrels	=	1
n-Value	=	0.013
Culvert Type	=	Circular Concrete
Culvert Entrance	=	Groove end projecting (C)
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.2

Embankment

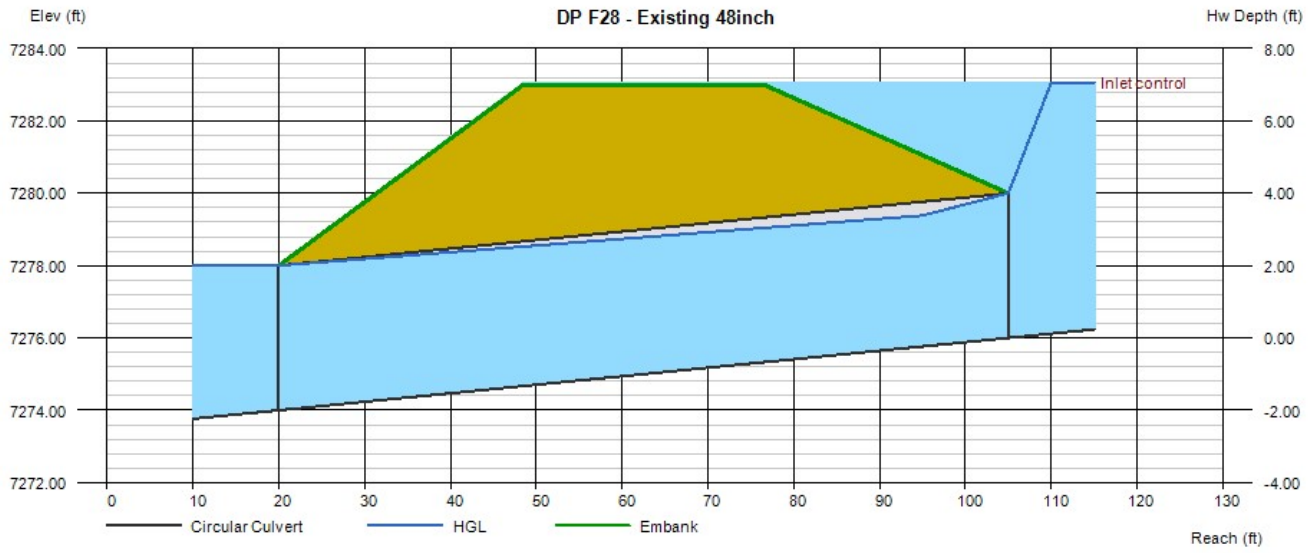
Top Elevation (ft)	=	7283.00
Top Width (ft)	=	28.00
Crest Width (ft)	=	100.00

Calculations

Qmin (cfs)	=	150.50
Qmax (cfs)	=	150.50
Tailwater Elev (ft)	=	Crown

Highlighted

Qtotal (cfs)	=	150.50
Qpipe (cfs)	=	147.14
Qovertop (cfs)	=	3.36
Veloc Dn (ft/s)	=	11.71
Veloc Up (ft/s)	=	12.43
HGL Dn (ft)	=	7278.00
HGL Up (ft)	=	7279.57
Hw Elev (ft)	=	7283.06
Hw/D (ft)	=	1.76
Flow Regime	=	Inlet Control



Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Tuesday, Jun 24 2025

DP F29 - Existing 48inch

Invert Elev Dn (ft)	=	7270.00
Pipe Length (ft)	=	180.00
Slope (%)	=	2.22
Invert Elev Up (ft)	=	7274.00
Rise (in)	=	48.0
Shape	=	Circular
Span (in)	=	48.0
No. Barrels	=	1
n-Value	=	0.013
Culvert Type	=	Circular Concrete
Culvert Entrance	=	Groove end projecting (C)
Coeff. K,M,c,Y,k	=	0.0045, 2, 0.0317, 0.69, 0.2

Embankment

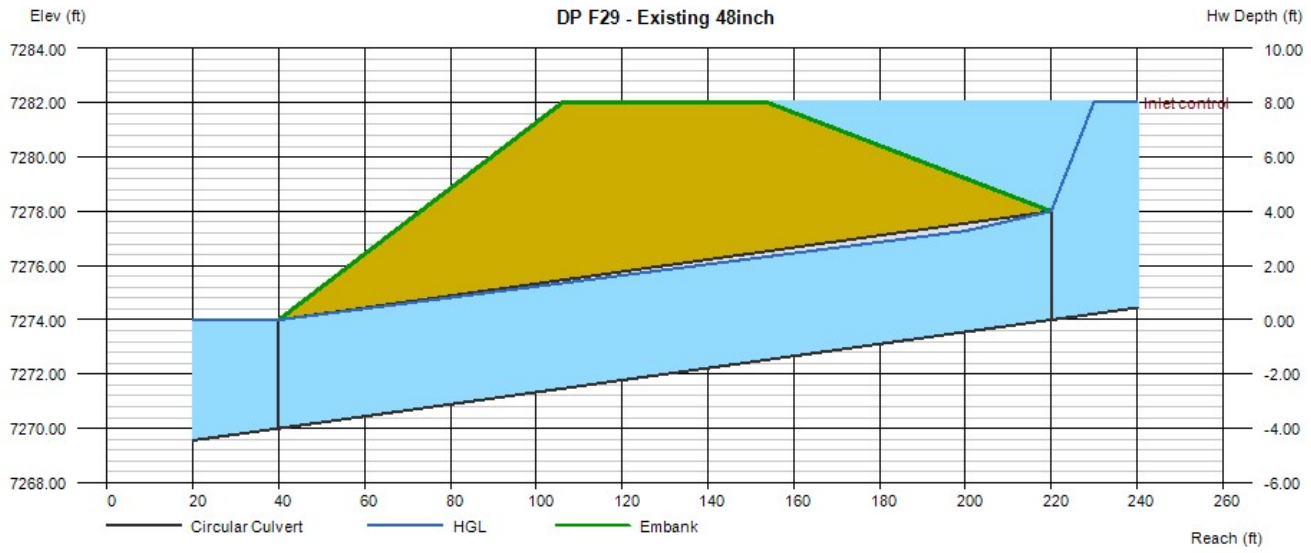
Top Elevation (ft)	=	7282.00
Top Width (ft)	=	48.00
Crest Width (ft)	=	100.00

Calculations

Qmin (cfs)	=	164.70
Qmax (cfs)	=	164.70
Tailwater Elev (ft)	=	Crown

Highlighted

Qtotal (cfs)	=	164.70
Qpipe (cfs)	=	162.89
Qovertop (cfs)	=	1.81
Veloc Dn (ft/s)	=	12.96
Veloc Up (ft/s)	=	13.46
HGL Dn (ft)	=	7274.00
HGL Up (ft)	=	7277.68
Hw Elev (ft)	=	7282.04
Hw/D (ft)	=	2.01
Flow Regime	=	Inlet Control



Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 1 - FOREBAY NO. 1 - A (FUTURE)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 38.7 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.387

C) Contributing Watershed Area — Area = 8.450 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.173 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.303 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 2% of the WQCV) — V_{FMIN} = 0.00300 ac-ft

B) Actual Forebay Volume — V_F = 0.003 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 60.10 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 1.20 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 6.0 in

Design Procedure Form: Extended Detention Basin (EDB)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 1 - FOREBAY NO. 1 - A (FUTURE)
Location: Colorado Springs, CO

6. Trickle Channel	
A) Type of Trickle Channel	Choose One: (•) Concrete ( ) Soft Bottom
F) Slope of Trickle Channel	S = _____ ft / ft
7. Micropool and Outlet Structure	
A) Depth of Micropool (2.5-feet minimum)	D_M = _____ ft
B) Surface Area of Micropool (10 ft^2 minimum)	A_M = _____ sq ft
C) Outlet Type	Choose One: ( ) Orifice Plate ( ) Other (Describe):
D) Smallest Dimension of Orifice Opening Based on Hydrograph Routing (Use UD-Detention)	$D_{orifice}$ = _____ inches
E) Total Outlet Area	A_{ot} = _____ square inches
8. Initial Surcharge Volume	
A) Depth of Initial Surcharge Volume (Minimum recommended depth is 4 inches)	D_{IS} = _____ in
B) Minimum Initial Surcharge Volume (Minimum volume of 0.3% of the WQCV)	V_{IS} = _____ cu ft
C) Initial Surcharge Provided Above Micropool	V_s = _____ cu ft
9. Trash Rack	
A) Water Quality Screen Open Area: $A_t = A_{ot} * 38.5*(e^{-0.095D})$	A_t = _____ square inches
B) Type of Screen (If specifying an alternative to the materials recommended in the USDCM, indicate "other" and enter the ratio of the total open are to the total screen are for the material specified.)	
Other (Y/N): N	
C) Ratio of Total Open Area to Total Area (only for type 'Other')	User Ratio = _____
D) Total Water Quality Screen Area (based on screen type)	A_{total} = _____ sq. in.
E) Depth of Design Volume (EURV or WQCV) (Based on design concept chosen under 1E)	H= _____ feet
F) Height of Water Quality Screen (H_{TR})	H_{TR} = _____ inches
G) Width of Water Quality Screen Opening ($W_{openinq}$) (Minimum of 12 inches is recommended)	$W_{openinq}$ = _____ inches

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 1 - FOREBAY NO. 1 - B (FUTURE)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 55.4 %

B) Tributary Area's Imperviousness Ratio (i = I_a / 100) — i = 0.554

C) Contributing Watershed Area — Area = 3.810 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

according to the report text above, the trib area is at Design Point F1, which is Basin AA (15.16ac) and Basin MO2 (0.51ac). So that's ~16ac, not 3.8ac. Please QC this and figure out which is correct.

F) Design Volume (WQCV) Based on 40-hour Drain Time ($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume ($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.098 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.201 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 2% of the WQCV) — V_{FMIN} = 0.00200 ac-ft

B) Actual Forebay Volume — V_F = 0.002 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 30.60 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 0.61 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 4.8 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 1 - FOREBAY NO. 1 - B (INTERIM)
Location: Colorado Springs, CO

I'm not understanding how this forebay has any contributing area to it in the interim condition since the piping to it does not have any inlets attached to it. Do you mean to show area inlets and low points at the two stub-ups/terminations shown on the plans?

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a = 5.1 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) i = 0.051

C) Contributing Watershed Area Area = 15.670 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) V_{DESIGN}= ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) $V_{DESIGN\ OTHER}$= 0.067 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) $V_{DESIGN\ USER}$= ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
$EURV_{DESIGN}$ = 0.063 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) $EURV_{DESIGN\ USER}$= ac-ft

2. Basin Shape: Length to Width Ratio (A basin length to width ratio of at least 2:1 will improve TSS reduction.) L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 0% of the WQCV) V_{FMIN} = 0.00000 ac-ft — A FOREBAY MAY NOT BE NECESSARY FOR THIS SIZE SITE

B) Actual Forebay Volume V_F = 0.002 ac-ft

C) Forebay Depth (D_F = 12 inch maximum) D_F = 18.0 in — DF > DF MAXIMUM

D) Forebay Discharge

i) Undetained 100-year Peak Discharge Q_{100} = 30.30 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) Q_F = 0.61 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) Calculated D_P = in

G) Rectangular Notch Width Calculated W_N = 4.8 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 2 - FOREBAY NO. 2-A (FUTURE)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 71.9 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.719

C) Contributing Watershed Area — Area = 11.160 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.369 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.782 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes
(Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume
(V_{FMIN} = 3% of the WQCV) — V_{FMIN} = 0.01100 ac-ft

B) Actual Forebay Volume — V_F = 0.011 ac-ft

C) Forebay Depth
(D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 115.50 cfs

ii) Forebay Discharge Design Flow
($Q_F = 0.02 * Q_{100}$) — Q_F = 2.31 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 8.1 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 2 - FOREBAY NO. 2-A (INTERIM)
Location: Colorado Springs, CO

How can this much area be trib to this forebay when the whole pond has 22.36ac trib to it and Basin GG which is 4.9ac is not trib to his forebay? At most 17.46ac could be trib to this forebay.

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 20.4 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.204

C) Contributing Watershed Area — Area = 21.920 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.299 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.393 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio

(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 2% of the WQCV) — V_{FMIN} = 0.00600 ac-ft

B) Actual Forebay Volume — V_F = 0.011 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 64.00 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 1.28 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 6.1 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 4 - FOREBAY NO.4-A (FUTURE)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 47.0 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.470

C) Contributing Watershed Area — Area = 12.280 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.283 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.544 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 3% of the WQCV) — V_{FMIN} = 0.00800 ac-ft

B) Actual Forebay Volume — V_F = 0.008 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 42.00 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 0.84 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 5.2 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 4 - FOREBAY NO.4-A (INTERIM)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 46.1 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.461

C) Contributing Watershed Area — Area = 12.160 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.277 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.527 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 3% of the WQCV) — V_{FMIN} = 0.00800 ac-ft

B) Actual Forebay Volume — V_F = 0.008 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 46.80 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 0.94 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 5.4 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 4 - FOREBAY NO. 4-B (FUTURE)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 60.0 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.600

C) Contributing Watershed Area — Area = 7.740 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.213 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.446 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 2% of the WQCV) — V_{FMIN} = 0.00400 ac-ft

B) Actual Forebay Volume — V_F = 0.004 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 34.90 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 0.70 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 5.0 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 4 - FOREBAY NO. 4-B (INTERIM)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 24.5 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.245

C) Contributing Watershed Area — Area = 9.360 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.145 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.205 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 2% of the WQCV) — V_{FMIN} = 0.00300 ac-ft

B) Actual Forebay Volume — V_F = 0.004 ac-ft

C) Forebay Depth (D_F = 18 inch maximum) — D_F = 18.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 31.90 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 0.64 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 4.9 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 4 - FOREBAY NO. 4-C (FUTURE)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 51.6 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.516

C) Contributing Watershed Area — Area = 0.600 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.015 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.029 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes
(Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume
(V_{FMIN} = 0% of the WQCV) — V_{FMIN} = 0.00000 ac-ft

A FOREBAY MAY NOT BE NECESSARY FOR THIS SIZE SITE

B) Actual Forebay Volume — V_F = 0.001 ac-ft

C) Forebay Depth
(D_F = 12 inch maximum) — D_F = 12.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 7.50 cfs

ii) Forebay Discharge Design Flow
($Q_F = 0.02 * Q_{100}$) — Q_F = 0.15 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 2.9 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East - Pond 4 - FOREBAY NO. 4-C (INTERIM)
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 25.6 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.256

C) Contributing Watershed Area — Area = 0.900 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.014 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.021 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio
(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes
(Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume
(V_{FMIN} = 0% of the WQCV) — V_{FMIN} = 0.00000 ac-ft

A FOREBAY MAY NOT BE NECESSARY FOR THIS SIZE SITE

B) Actual Forebay Volume — V_F = 0.001 ac-ft

C) Forebay Depth
(D_F = 12 inch maximum) — D_F = 12.0 in

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 3.10 cfs

ii) Forebay Discharge Design Flow
($Q_F = 0.02 * Q_{100}$) — Q_F = 0.06 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 2.6 in

Design Procedure Form: Extended Detention Basin (EDB)

UD-BMP (Version 3.07, March 2018)

Designer: REP
Company: PRC Engineering
Date: May 11, 2026
Project: Monument Ridge East Filing No 1 - POND 5 Forebay No. 5-A
Location: Colorado Springs, CO

1. Basin Storage Volume

A) Effective Imperviousness of Tributary Area, I_a — I_a = 48.4 %

B) Tributary Area's Imperviousness Ratio ($i = I_a / 100$) — i = 0.484

C) Contributing Watershed Area — Area = 3.210 ac

D) For Watersheds Outside of the Denver Region, Depth of Average Runoff Producing Storm — d_6 = 0.60 in

E) Design Concept (Select EURV when also designing for flood control)

Choose One
- ○ Water Quality Capture Volume (WQCV)
- ◉ Excess Urban Runoff Volume (EURV)

F) Design Volume (WQCV) Based on 40-hour Drain Time
($V_{DESIGN} = (1.0 * (0.91 * i^3 - 1.19 * i^2 + 0.78 * i) / 12 * Area$) — V_{DESIGN} = ac-ft

G) For Watersheds Outside of the Denver Region, Water Quality Capture Volume (WQCV) Design Volume
($V_{WQCV\ OTHER} = (d_6 * (V_{DESIGN}/0.43))$) — $V_{DESIGN\ OTHER}$ = 0.075 ac-ft

H) User Input of Water Quality Capture Volume (WQCV) Design Volume (Only if a different WQCV Design Volume is desired) — $V_{DESIGN\ USER}$ = ac-ft

I) NRCS Hydrologic Soil Groups of Tributary Watershed
- i) Percentage of Watershed consisting of Type A Soils — HSG_A = 0 %
- ii) Percentage of Watershed consisting of Type B Soils — HSG_B = 0 %
- iii) Percentage of Watershed consisting of Type C/D Soils — $HSG_{C/D}$ = 100 %

J) Excess Urban Runoff Volume (EURV) Design Volume
For HSG A: $EURV_A = 1.68 * i^{1.28}$
For HSG B: $EURV_B = 1.36 * i^{1.08}$
For HSG C/D: $EURV_{C/D} = 1.20 * i^{1.08}$
— $EURV_{DESIGN}$ = 0.147 ac-ft

K) User Input of Excess Urban Runoff Volume (EURV) Design Volume (Only if a different EURV Design Volume is desired) — $EURV_{DESIGN\ USER}$ = ac-ft

2. Basin Shape: Length to Width Ratio

(A basin length to width ratio of at least 2:1 will improve TSS reduction.) — L : W = : 1

3. Basin Side Slopes

A) Basin Maximum Side Slopes (Horizontal distance per unit vertical, 4:1 or flatter preferred) — Z = ft / ft

4. Inlet

A) Describe means of providing energy dissipation at concentrated inflow locations:

5. Forebay

A) Minimum Forebay Volume (V_{FMIN} = 1% of the WQCV) — V_{FMIN} = 0.00100 ac-ft

B) Actual Forebay Volume — V_F = 0.004 ac-ft

C) Forebay Depth (D_F = 12 inch maximum) — D_F = 18.0 in **DF > DF MAXIMUM**

D) Forebay Discharge

i) Undetained 100-year Peak Discharge — Q_{100} = 17.40 cfs

ii) Forebay Discharge Design Flow ($Q_F = 0.02 * Q_{100}$) — Q_F = 0.35 cfs

E) Forebay Discharge Design

Choose One
- ○ Berm With Pipe
- ◉ Wall with Rect. Notch
- ○ Wall with V-Notch Weir

Flow too small for berm w/ pipe

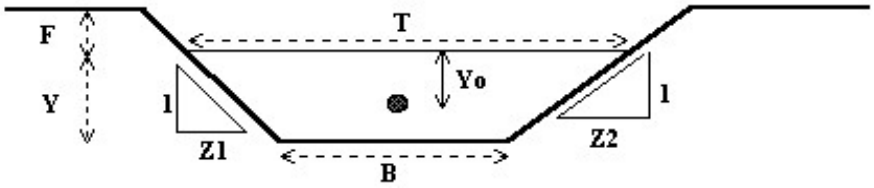
F) Discharge Pipe Size (minimum 8-inches) — Calculated D_P = in

G) Rectangular Notch Width — Calculated W_N = 4.3 in

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 1 FB1 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (31cfs) = 0.31cfs; 3.38cfs>0.31cfs, OK



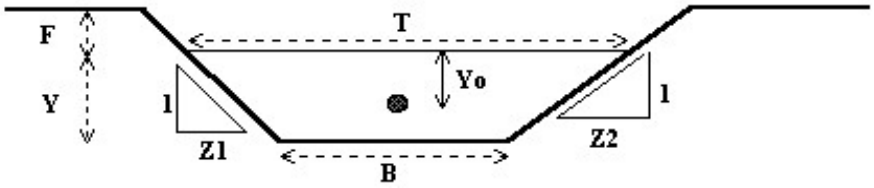
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 1 FB2 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (60cfs) = 0.60cfs; 3.38cfs>0.60cfs, OK



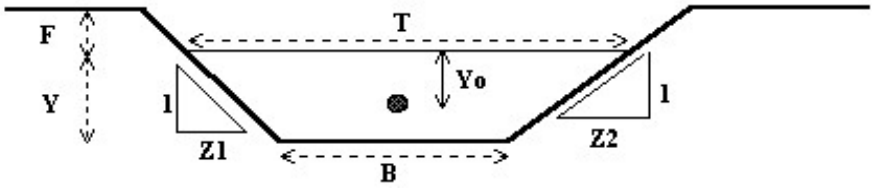
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 2 FB1 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (116cfs) = 1.2cfs; 3.38cfs>1.2cfs, OK



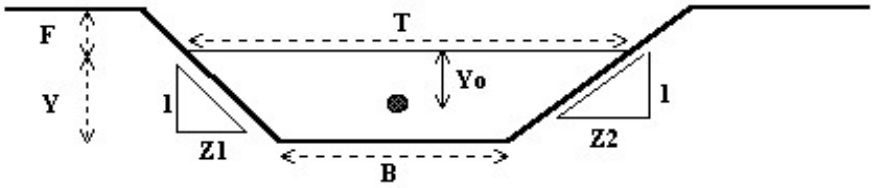
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 2 FB2 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (1.2cfs) = 0.012cfs; 3.38cfs>0.012cfs, OK



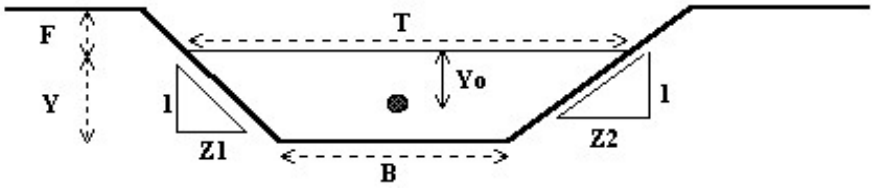
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 4 FB1 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (42cfs) = 0.42cfs; 3.38cfs>0.42cfs, OK



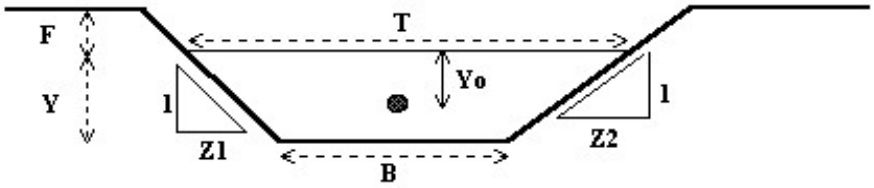
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 4 FB2 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (35cfs) = 0.35cfs; 3.38cfs>0.35cfs, OK



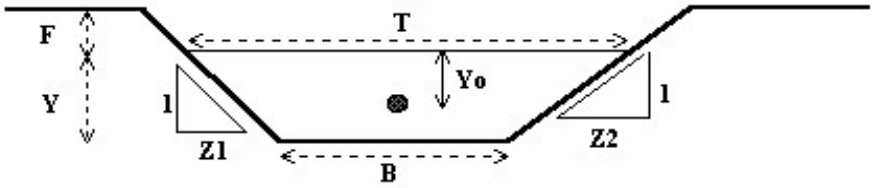
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 4 FB3 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (7.5cfs) = 0.075cfs; 3.38cfs>0.075cfs, OK



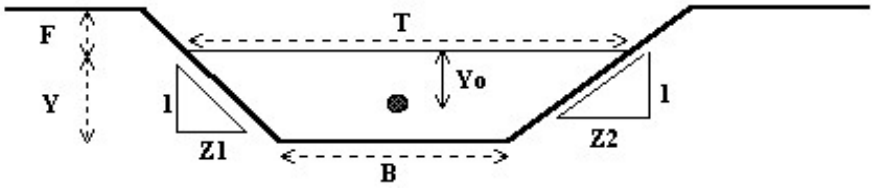
Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Normal Flow Analysis - Trapezoidal Channel

Project: MONUMENT RIDGE EAST - Pond 5 F3 Out

Channel ID: Trickle Channel Qt = 1% of Q100 (2.1cfs) = 0.021cfs; 3.38cfs>0.021cfs, OK



Design Information (Input)			
Channel Invert Slope	So =	0.0050	ft/ft
Manning's n	n =	0.015	
Bottom Width	B =	2.00	ft
Left Side Slope	Z1 =	0.00	ft/ft
Right Side Slope	Z2 =	0.00	ft/ft
Freeboard Height	F =	0.00	ft
Design Water Depth	Y =	**0.50**	ft

Normal Flow Condtion (Calculated)			
Discharge	**Q =**	**3.38**	cfs
Froude Number	**Fr =**	**0.84**	
Flow Velocity	**V =**	**3.38**	fps
Flow Area	A =	1.00	sq ft
Top Width	T =	2.00	ft
Wetted Perimeter	P =	3.00	ft
Hydraulic Radius	R =	0.33	ft
Hydraulic Depth	D =	0.50	ft
Specific Energy	Es =	0.68	ft
Centroid of Flow Area	Yo =	0.25	ft
Specific Force	Fs =	0.04	kip

Add the channel report for the Collection structure overflow swale back in that was included in previous submittal.

POND 1

Figure 13-12c. Emergency Spillway Protection

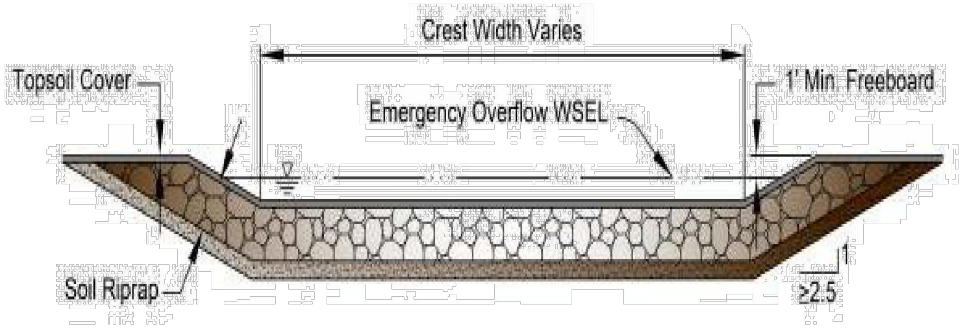
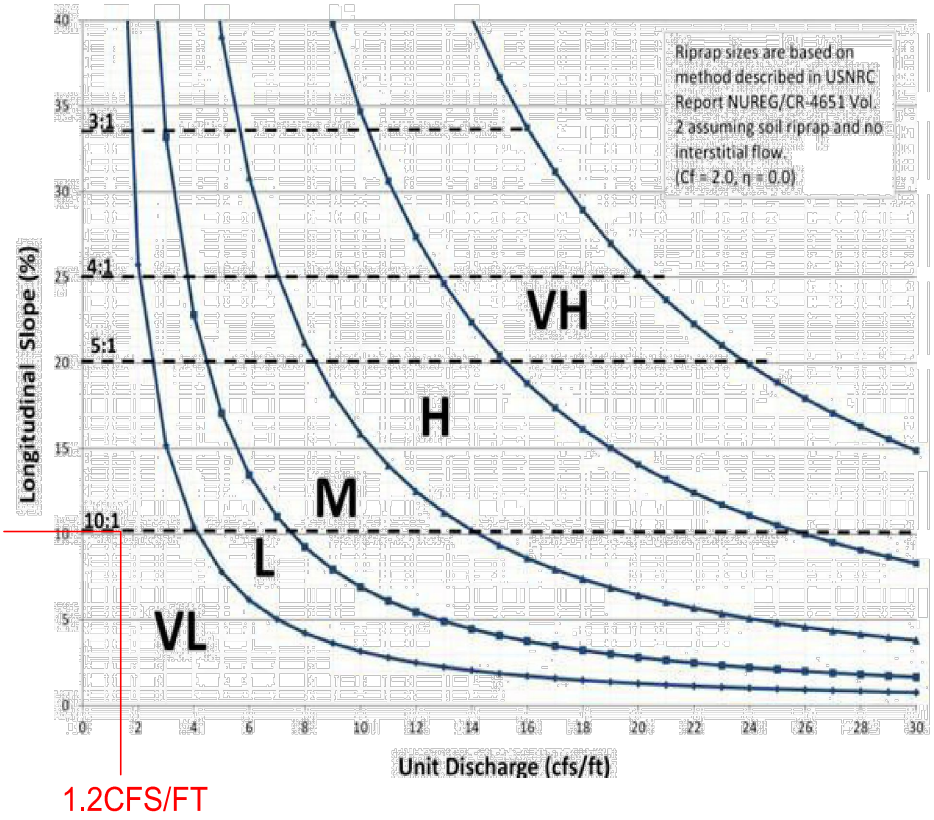


Figure 13-12d. Riprap Types for Emergency Spillway Protection



1.2CFS/FT

USE TYPE VL RIPRAP

POND 2

Figure 13-12c. Emergency Spillway Protection

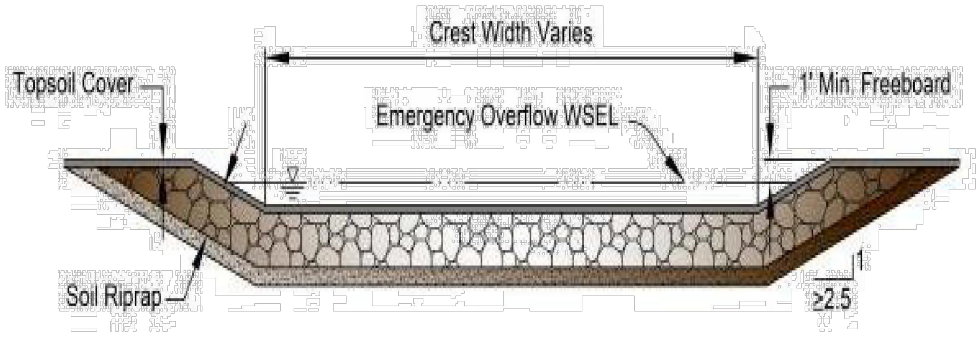
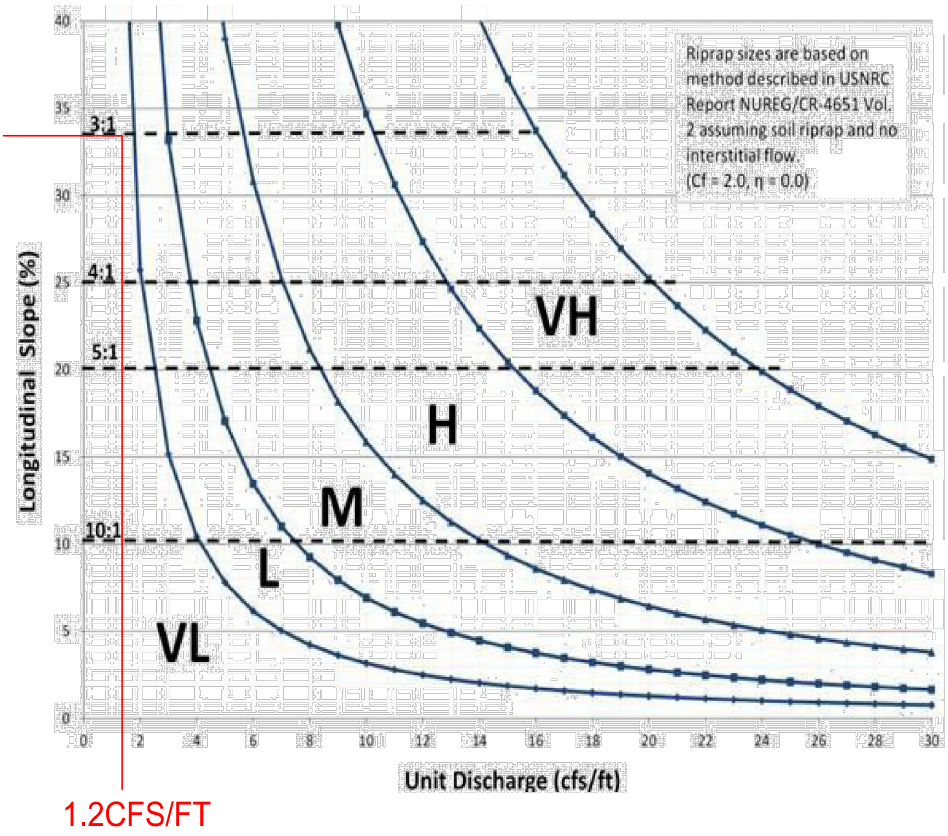


Figure 13-12d. Riprap Types for Emergency Spillway Protection



1.2CFS/FT

USE TYPE VL RIPRAP

POND 4

Figure 13-12c. Emergency Spillway Protection

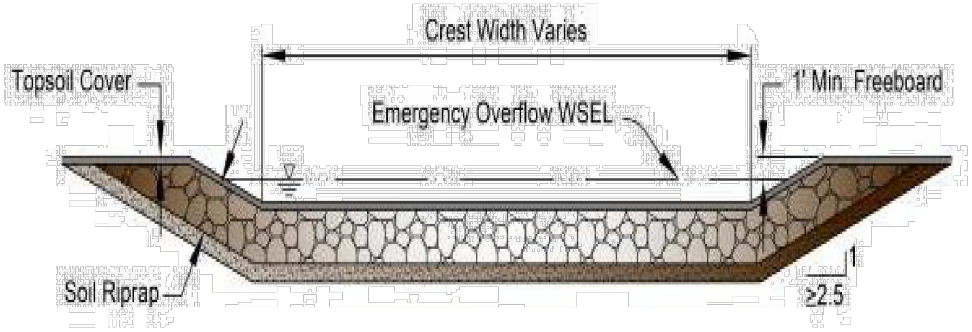
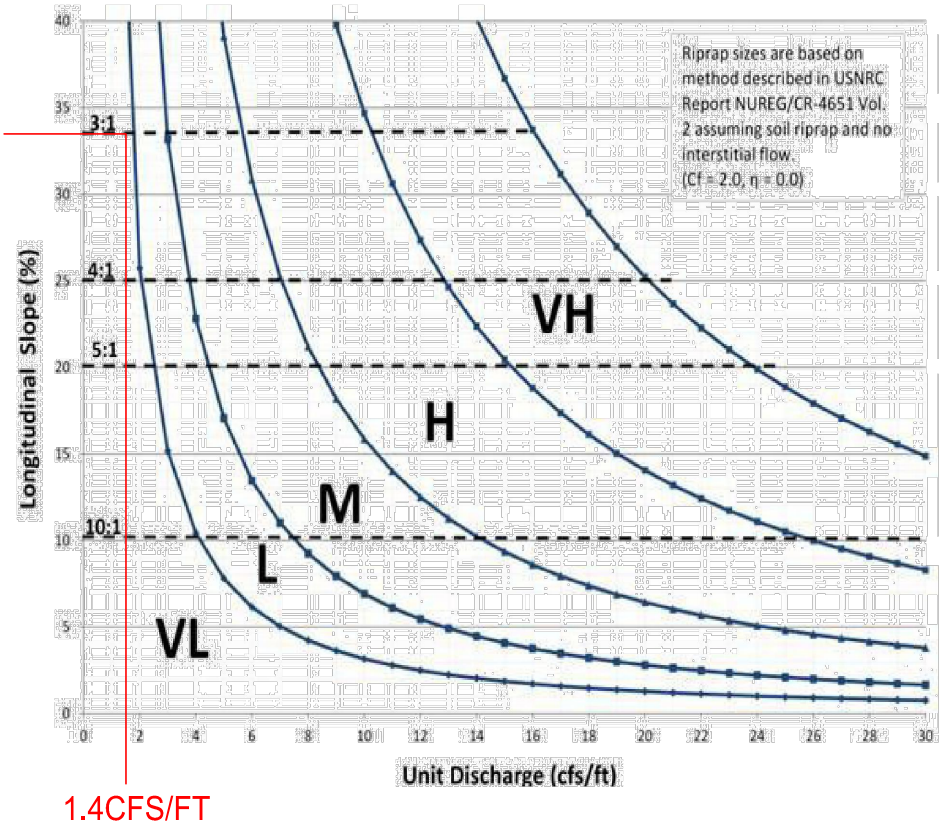


Figure 13-12d. Riprap Types for Emergency Spillway Protection



1.4CFS/FT

USE TYPE VL RIPRAP

POND 5 SPILLWAY

Figure 13-12c. Emergency Spillway Protection

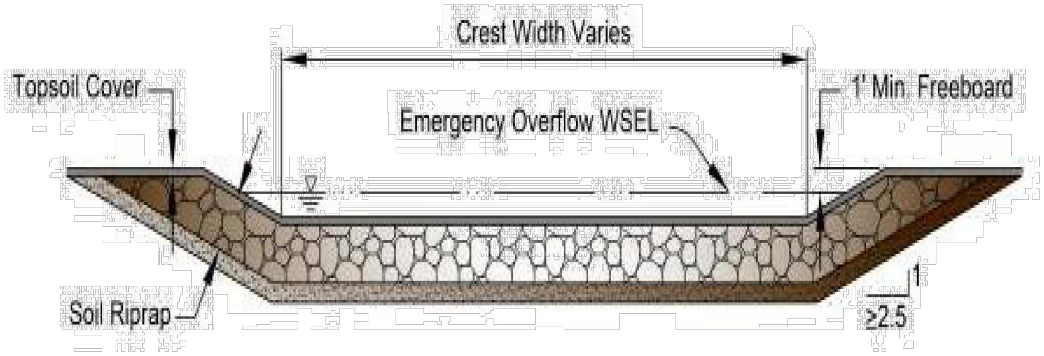
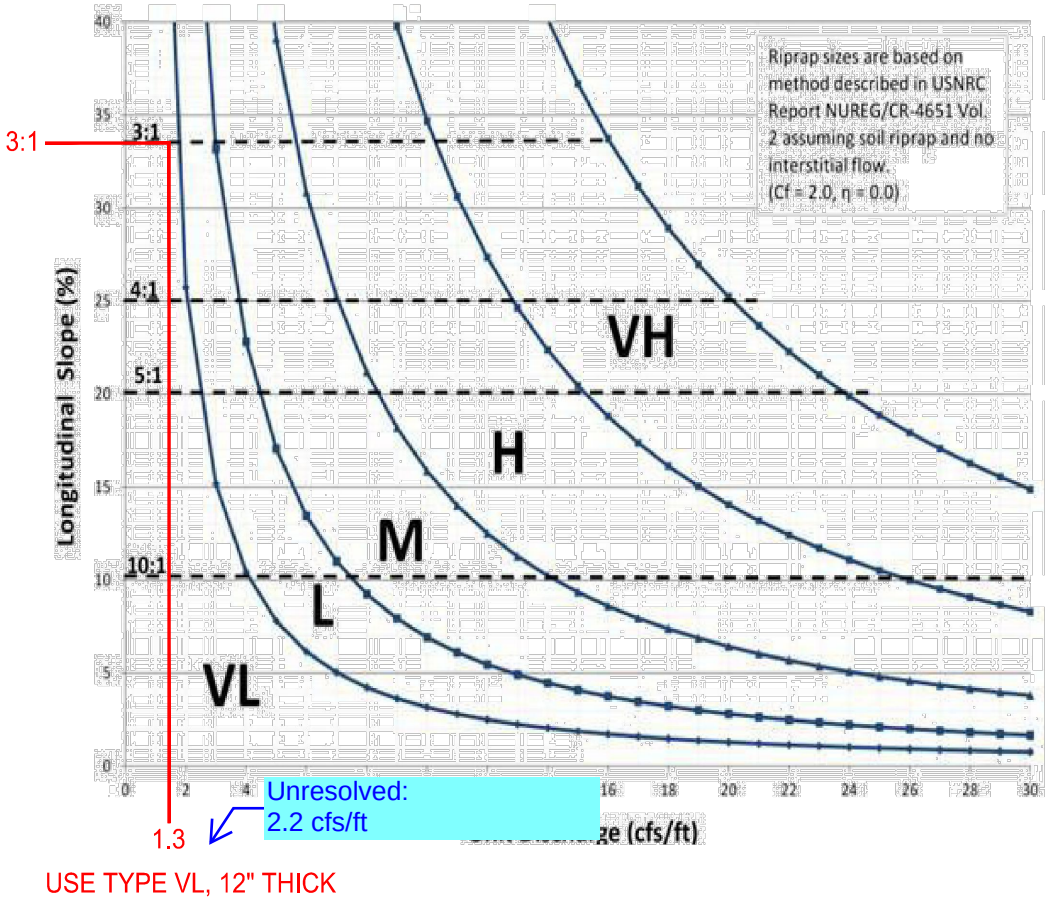


Figure 13-12d. Riprap Types for Emergency Spillway Protection



COLLECTION STRUCTURE SPILLWAY

Figure 13-12c. Emergency Spillway Protection

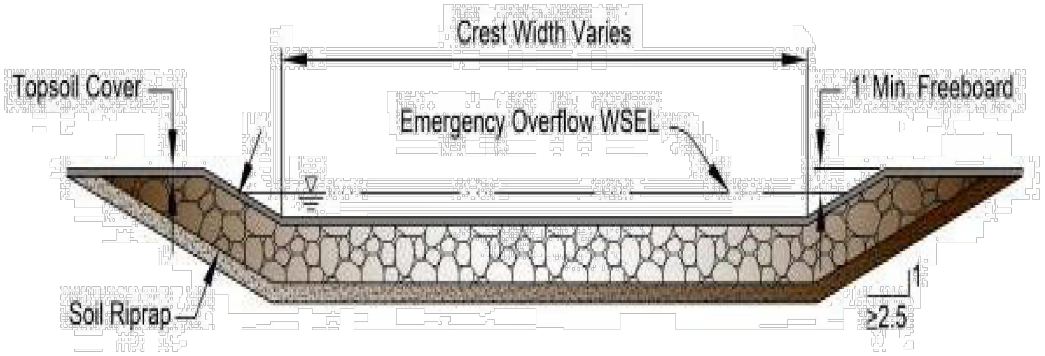
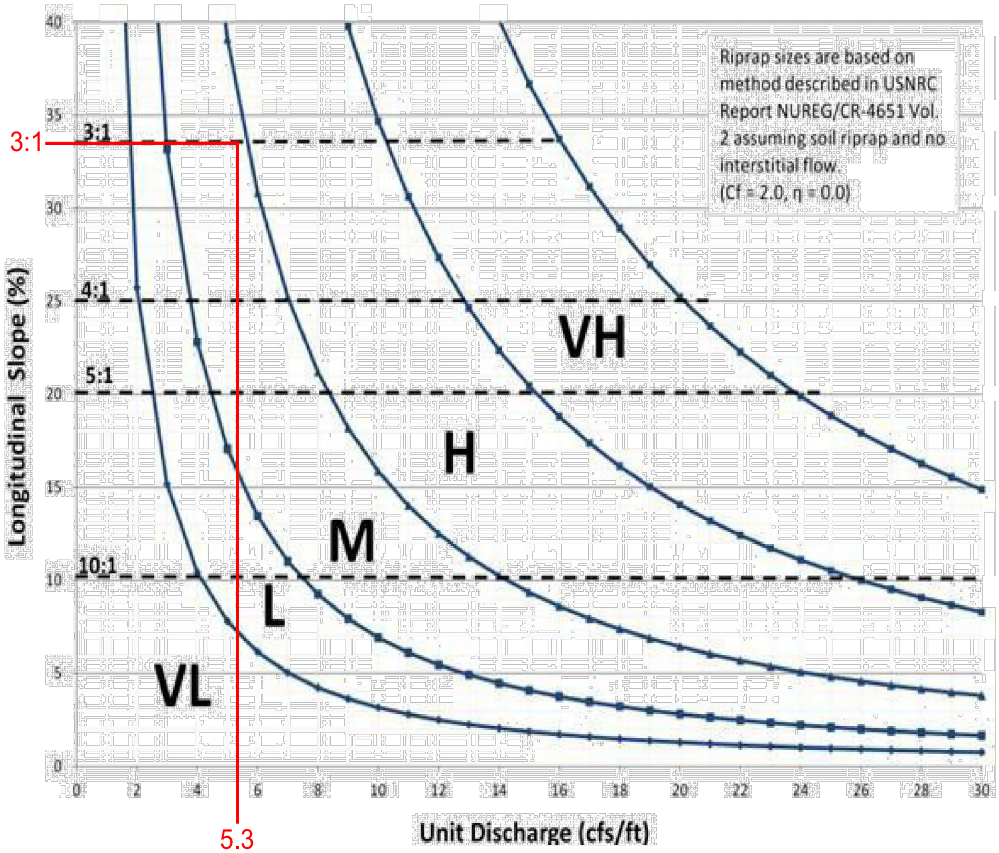


Figure 13-12d. Riprap Types for Emergency Spillway Protection



3:1

5.3

USE TYPE M, 24" THICK

POND 5 SPILLWAY

Figure 13-12c. Emergency Spillway Protection

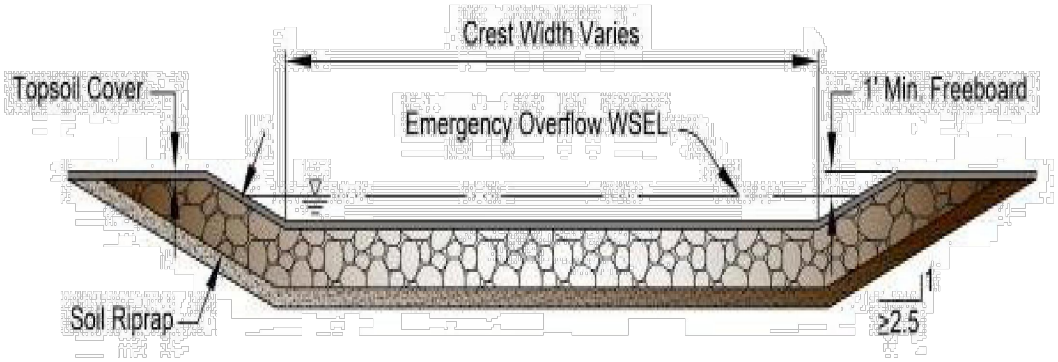
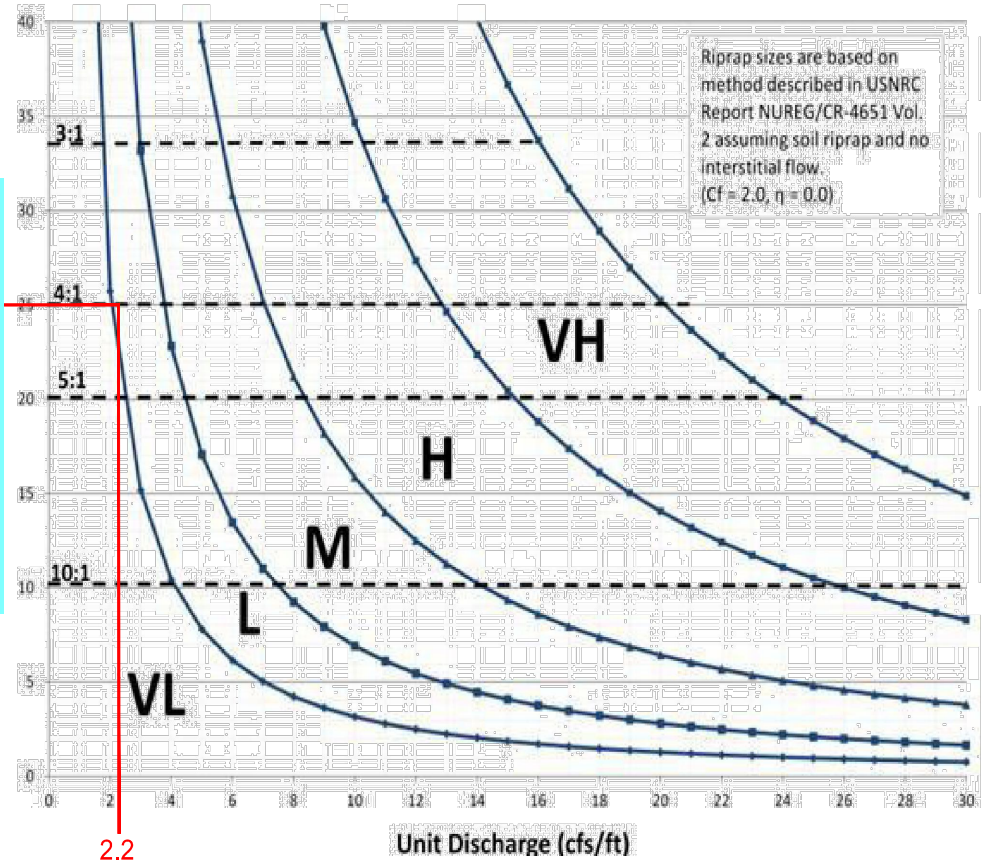


Figure 13-12d. Riprap Types for Emergency Spillway Protection

There is another sheet 2 pages prior for Pond 5 and it has a 3:1 slope. Please determine which of these sheets is correct and delete the other page. If they are both needed, please label as to the difference in the two sheets and place next to each other.



USE TYPE L, 18" THICK

CONDUIT OUTLET RIPRAP EROSION PROTECTION
APRON DESIGN CALCULATIONS

Include apron design for Pipes 41 & 106C

Project: Monument Ridge East
Drainageway:
Client:

CONDUIT DESCRIPTION	Date:	STRUCTURE ID
Proposed 48" RCP - Pipe 121	By: REP	N/A

INPUT (Yellow Cells)

Number of Conduit Units	1	
Total Design Discharge (cfs)	71.2	Q
Unit Conduit		
Width (Box Culvert) (ft)	0.0	W
Height (Box Culvert) (ft)	0.0	H
or		
Diameter (Pipe) (ft)	4.0	D
Unit Design Discharge (cfs)	71.2	Q
Outlet Flow Velocity (ft/s)	13.0	V
Outlet Flow Depth (ft)	1.8	Y
Tailwater Depth (ft)	1.6	Yt
Froude Number Fr=Vo/((g*Do)^0.5)	1.71	Fr
Froude Number Parameter Fp=Q/WH^1.5 (Box) or Q/D^2.5 (Pipe)	2.2	Fp
Expansion Factor[2]	5.5	Ef
Allowable Non-Eroding Velocity in Downstream Channel (ft/s) *(5 ft/sec Non-Cohesive Soils, 7 ft/sec Erosion Resistant Soils)*	5	V

HEC-RAS STATION
N/A

DESIGN STORM
100yr

"NON-COHESIVE" or "EROSION RESISTANT" SOILS
Non-Cohesive

NOTES:
1. Design Methodogy - Urban Drainage and Flood Control District (UDFCD), "Urban Storm Drainage Criteria Manual (USDCM) Volume 2), Jan 2016, Chapter 9

2. Expansion Factor from USDCM2 Figure 9-35 (Pipe) or Figure 9-36 (Box)

3. If outlet velocity (Vo) exceeds recommended value of 15 ft/s, use another type of protection measure.

OUTPUT (Blue Cells)

Area Required of Flow at Allowable Velocity (sf) At=Q/V	14.2	At
Expansion Angle of the Flow (degrees) Θ=Tan^-1(1/(2*Ef))	5.2	Θ
Length of Protection (ft) - Unadjusted Lp=(1/(2*TanΘ))*(At/Yt-W (Box) or D (Pipe))	27	Lp

Length of Protection Adjustments

Froude Number Parameter (Fp) ***Less Than*** *8 (Box) or 6 (Pipe)*

Fp<8.0 (Box) of Fp<6.0 (Pipe)?	Yes	Lp Min. is 3H or 3D and Max. is 10H or 10D
Lp Minimum Criteria Met?	No	Use 3H or 3D Minimum
Lp Maximum Criteria Met?	Yes	No Adjustment Necessary
Lp Minimum (ft)	12	Adjusted Length
Lp Maximum (ft)	0	Not Applicable
Length of Protection Required (ft)	27	Lp Adjusted

Froude Number Parameter (Fp) ***Greater Than*** *8 (Box) or 6 (Pipe)*

Fp>8.0 (Box) of Fp>6.0 (Pipe)?	No	No Adjustment Necessary
Add 1/4H (ft) Box or 1/4D (ft) Pipe	0	Not Applicable
Multiply Whole Number by Which Fp is Greater	0	Not Applicable
Length of Protection Required (ft)	0	No Adjustment Applied

RESULTS (Red Cells)

Length of Protection Required (ft)	**27**	**Lp**
Channel Bottom Width (Minimum) (ft) T=2(Lp*TanΘ)+W or D	**13**	**T**
Riprap Size (Minimum) (in) Circular D50=0.023*Q/(Yt$^{1.2}$*D$^{0.3}$)	**8.1**	D50 (Calculated Mean Rock Size)
Riprap Size (Minimum) (in) Box D50=0.014*H$^{0.5}$*Q/(Yt*W)		
	9	**D50 (Standard Mean Rock Size)**
Riprap Thickness (in) Tr=2*D50	**18**	**Tr**
Riprap Type	**L**	**USDCM Designation**

CONDUIT OUTLET RIPRAP EROSION PROTECTION
APRON DESIGN CALCULATIONS

Project: Monument Ridge East
Drainageway:
Client:

CONDUIT DESCRIPTION	Date: 12/21/2025	STRUCTURE ID
Proposed 78" RCP - Pipe 129A	By: REP	N/A

INPUT (Yellow Cells)

Number of Conduit Units	1	
Total Design Discharge (cfs)	332.4	Q
Unit Conduit		
Width (Box Culvert) (ft)	0.0	W
Height (Box Culvert) (ft)	0.0	H
or		
Diameter (Pipe) (ft)	6.5	D
Unit Design Discharge (cfs)	332.4	Q
Outlet Flow Velocity (ft/s)	12.7	V
Outlet Flow Depth (ft)	4.8	Y
Tailwater Depth (ft)	2.6	Yt
Froude Number Fr=Vo/((g*Do)^0.5)	1.02	Fr
Froude Number Parameter Fp=Q/WH^1.5 (Box) or Q/D^2.5 (Pipe)	3.1	Fp
Expansion Factor[2]	4.4	Ef
Allowable Non-Eroding Velocity in Downstream Channel (ft/s) *(5 ft/sec Non-Cohesive Soils, 7 ft/sec Erosion Resistant Soils)*	5	V

HEC-RAS STATION
N/A

DESIGN STORM
100yr

"NON-COHESIVE" or "EROSION RESISTANT" SOILS
Non-Cohesive

NOTES:
1. Design Methodogy - Urban Drainage and Flood Control District (UDFCD), "Urban Storm Drainage Criteria Manual (USDCM) Volume 2), Jan 2016, Chapter 9

2. Expansion Factor from USDCM2 Figure 9-35 (Pipe) or Figure 9-36 (Box)

3. If outlet velocity (Vo) exceeds recommended value of 15 ft/s, use another type of protection measure.

OUTPUT (Blue Cells)

Area Required of Flow at Allowable Velocity (sf) At=Q/V	66.5	At
Expansion Angle of the Flow (degrees) Θ=Tan^-1(1/(2*Ef))	6.5	Θ
Length of Protection (ft) - Unadjusted Lp=(1/(2*TanΘ))*(At/Yt-W (Box) or D (Pipe))	84	Lp

Length of Protection Adjustments

Froude Number Parameter (Fp) ***Less Than*** *8 (Box) or 6 (Pipe)*

Fp<8.0 (Box) of Fp<6.0 (Pipe)?	Yes	Lp Min. is 3H or 3D and Max. is 10H or 10D
Lp Minimum Criteria Met?	No	Use 3H or 3D Minimum
Lp Maximum Criteria Met?	No	Use 10H or 10D Maximum
Lp Minimum (ft)	19.5	Adjusted Length
Lp Maximum (ft)	65	Adjusted Length
Length of Protection Required (ft)	65	Lp Adjusted

Froude Number Parameter (Fp) ***Greater Than*** *8 (Box) or 6 (Pipe)*

Fp>8.0 (Box) of Fp>6.0 (Pipe)?	No	No Adjustment Necessary
Add 1/4H (ft) Box or 1/4D (ft) Pipe	0	Not Applicable
Multiply Whole Number by Which Fp is Greater	0	Not Applicable
Length of Protection Required (ft)	0	No Adjustment Applied

RESULTS (Red Cells)

Length of Protection Required (ft)	**65**	**Lp**
Channel Bottom Width (Minimum) (ft) T=2(Lp*TanΘ)+W or D	**28**	**T**
Riprap Size (Minimum) (ft) Circular D50=0.023*Q/(Yt$^{1.2}$*D$^{0.3}$)	**17.3**	D50 (Calculated Mean Rock Size)
Riprap Size (Minimum) (ft) Box D50=0.014*H$^{0.5}$*Q/(Yt*W)	**18**	**D50 (Standard Mean Rock Size)**
Riprap Thickness (in) Tr=2*D50	**36**	**Tr**
Riprap Type	**H**	**USDCM Designation**

CONDUIT OUTLET RIPRAP EROSION PROTECTION
APRON DESIGN CALCULATIONS

Project: Monument Ridge East
Drainageway:
Client:

CONDUIT DESCRIPTION	Date: 12/21/2025	STRUCTURE ID
Proposed 18" RCP - Pipe 138	By: REP	N/A

INPUT (Yellow Cells)

Number of Conduit Units	1		HEC-RAS STATION
Total Design Discharge (cfs)	6.5	Q	N/A
Unit Conduit			
Width (Box Culvert) (ft)	0.0	W	DESIGN STORM
Height (Box Culvert) (ft)	0.0	H	100yr
or			
Diameter (Pipe) (ft)	1.5	D	"NON-COHESIVE" or "EROSION RESISTANT" SOILS
Unit Design Discharge (cfs)	6.5	Q	Non-Cohesive
Outlet Flow Velocity (ft/s)	11.8	V	
Outlet Flow Depth (ft)	0.5	Y	
Tailwater Depth (ft)	0.6	Yt	
Froude Number Fr=Vo/((g*Do)^0.5)	2.94	Fr	
Froude Number Parameter Fp=Q/WH^1.5 (Box) or Q/D^2.5 (Pipe)	2.4	Fp	
Expansion Factor[2]	5.2	Ef	
Allowable Non-Eroding Velocity in Downstream Channel (ft/s) *(5 ft/sec Non-Cohesive Soils, 7 ft/sec Erosion Resistant Soils)*	5	V	

NOTES:
1. Design Methodogy - Urban Drainage and Flood Control District (UDFCD), "Urban Storm Drainage Criteria Manual (USDCM) Volume 2), Jan 2016, Chapter 9

2. Expansion Factor from USDCM2 Figure 9-35 (Pipe) or Figure 9-36 (Box)

3. If outlet velocity (Vo) exceeds recommended value of 15 ft/s, use another type of protection measure.

OUTPUT (Blue Cells)

Area Required of Flow at Allowable Velocity (sf) At=Q/V	1.3	At	
Expansion Angle of the Flow (degrees) Θ=Tan^-1(1/(2*Ef))	5.5	Θ	
Length of Protection (ft) - Unadjusted Lp=(1/(2*TanΘ))*(At/Yt-W (Box) or D (Pipe))	3	Lp	

Length of Protection Adjustments

Froude Number Parameter (Fp) ***Less Than*** *8 (Box) or 6 (Pipe)*

Fp<8.0 (Box) of Fp<6.0 (Pipe)?	Yes	Lp Min. is 3H or 3D and Max. is 10H or 10D
Lp Minimum Criteria Met?	No	Use 3H or 3D Minimum
Lp Maximum Criteria Met?	Yes	No Adjustment Necessary
Lp Minimum (ft)	4.5	Adjusted Length
Lp Maximum (ft)	0	Not Applicable
Length of Protection Required (ft)	4.5	Lp Adjusted

Froude Number Parameter (Fp) ***Greater Than*** *8 (Box) or 6 (Pipe)*

Fp>8.0 (Box) of Fp>6.0 (Pipe)?	No	No Adjustment Necessary
Add 1/4H (ft) Box or 1/4D (ft) Pipe	0	Not Applicable
Multiply Whole Number by Which Fp is Greater	0	Not Applicable
Length of Protection Required (ft)	0	No Adjustment Applied

RESULTS (Red Cells)

Length of Protection Required (ft)	5	**Lp**	
Channel Bottom Width (Minimum) (ft) T=2(Lp*TanΘ)+W or D	4	**T**	
Riprap Size (Minimum) (in) Circular $D50=0.023*Q/(Yt^{1.2}*D^{0.3})$	**3.3**	D50 (Calculated Mean Rock Size)	
Riprap Size (Minimum) (in) Box $D50=0.014*H^{0.5}*Q/(Yt*W)$			
	6	**D50 (Standard Mean Rock Size)**	
Riprap Thickness (in) Tr=2*D50	12	**Tr**	
Riprap Type	VL	**USDCM Designation**	

CONDUIT OUTLET RIPRAP EROSION PROTECTION
APRON DESIGN CALCULATIONS

Project: Monument Ridge East
Drainageway:
Client:

CONDUIT DESCRIPTION	Date: 12/21/2025	STRUCTURE ID
Proposed 3-48" RCP - Project Outfall	By: REP	N/A

INPUT (Yellow Cells)

Number of Conduit Units	3	
Total Design Discharge (cfs)	426.6	Q
Unit Conduit		
Width (Box Culvert) (ft)	0.0	W
Height (Box Culvert) (ft)	0.0	H
or		
Diameter (Pipe) (ft)	4.0	D
Unit Design Discharge (cfs)	142.2	Q
Outlet Flow Velocity (ft/s)	13.2	V
Outlet Flow Depth (ft)	3.2	Y
Tailwater Depth (ft)	1.6	Yt
Froude Number Fr=Vo/((g*Do)^0.5)	1.30	Fr
Froude Number Parameter Fp=Q/WH^1.5 (Box) or Q/D^2.5 (Pipe)	4.4	Fp
Expansion Factor[2]	3.5	Ef
Allowable Non-Eroding Velocity in Downstream Channel (ft/s) *(5 ft/sec Non-Cohesive Soils, 7 ft/sec Erosion Resistant Soils)*	5	V

HEC-RAS STATION
N/A

DESIGN STORM
100yr

"NON-COHESIVE" or "EROSION RESISTANT" SOILS
Non-Cohesive

NOTES:
1. Design Methodogy - Urban Drainage and Flood Control District (UDFCD), "Urban Storm Drainage Criteria Manual (USDCM) Volume 2), Jan 2016, Chapter 9

2. Expansion Factor from USDCM2 Figure 9-35 (Pipe) or Figure 9-36 (Box)

3. If outlet velocity (Vo) exceeds recommended value of 15 ft/s, use another type of protection measure.

OUTPUT (Blue Cells)

Area Required of Flow at Allowable Velocity (sf) At=Q/V	28.4	At
Expansion Angle of the Flow (degrees) Θ=Tan^-1(1/(2*Ef))	8.1	Θ
Length of Protection (ft) - Unadjusted Lp=(1/(2*TanΘ))*(At/Yt-W (Box) or D (Pipe))	48	Lp

Length of Protection Adjustments

Froude Number Parameter (Fp) ***Less Than*** *8 (Box) or 6 (Pipe)*

Fp<8.0 (Box) of Fp<6.0 (Pipe)?	Yes	Lp Min. is 3H or 3D and Max. is 10H or 10D
Lp Minimum Criteria Met?	No	Use 3H or 3D Minimum
Lp Maximum Criteria Met?	No	Use 10H or 10D Maximum
Lp Minimum (ft)	12	Adjusted Length
Lp Maximum (ft)	40	Adjusted Length
Length of Protection Required (ft)	40	Lp Adjusted

Froude Number Parameter (Fp) ***Greater Than*** *8 (Box) or 6 (Pipe)*

Fp>8.0 (Box) of Fp>6.0 (Pipe)?	No	No Adjustment Necessary
Add 1/4H (ft) Box or 1/4D (ft) Pipe	0	Not Applicable
Multiply Whole Number by Which Fp is Greater	0	Not Applicable
Length of Protection Required (ft)	0	No Adjustment Applied

RESULTS (Red Cells)

Length of Protection Required (ft)	**40**	**Lp**
Channel Bottom Width (Minimum) (ft) T=2(Lp*TanΘ)+W or D	**28**	**T**
Riprap Size (Minimum) (in) Circular D50=0.023*Q/(Yt$^{1.2}$*D$^{0.3}$)	**15.2**	D50 (Calculated Mean Rock Size)
Riprap Size (Minimum) (in) Box D50=0.014*H$^{0.5}$*Q/(Yt*W)	**18**	**D50 (Standard Mean Rock Size)**
Riprap Thickness (in) Tr=2*D50	**36**	**Tr**
Riprap Type	**H**	**USDCM Designation**

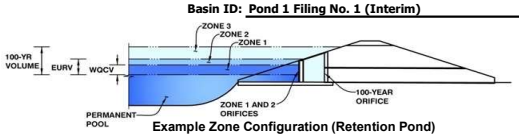
T/2=14' CL Pipe to Edge of Riprap, 3' spacing between 3-48" pipes = 14'x2 sides+1/2(4)x4'+2x3' = 42' wide by 40' long

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: Monument Ridge East

Basin ID: Pond 1 Filing No. 1 (Interim)



Example Zone Configuration (Retention Pond)

Unresolved:
Update to newest version of detention pond spreadsheet (all ponds)

Depth Increment = ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft²)	Optional Override Area (ft²)	Area (acre)	Volume (ft³)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	13,610	0.312		
ISV 7307	--	0.67	--	--	--	13,610	0.312	9,119	0.209
7308	--	1.67	--	--	--	16,624	0.382	24,236	0.556
7309	--	2.67	--	--	--	19,335	0.444	42,215	0.969
7310	--	3.67	--	--	--	22,486	0.516	63,126	1.449
7311	--	4.67	--	--	--	25,629	0.588	87,183	2.001
7312	--	5.67	--	--	--	28,596	0.656	114,296	2.624
7312.55	--	6.22	--	--	--	30,531	0.701	130,556	2.997

On the forebay calc sheets above (PDF pages 233 and 234) this is 100% group C/D. Which is correct? Please QC this and/or discuss the discrepancy in the report text.

Watershed Information

Selected BMP Type =	**EDB**	
Watershed Area =	19.44	acres
Watershed Length =	1,320	ft
Watershed Length to Centroid =	590	ft
Watershed Slope =	0.036	ft/ft
Watershed Imperviousness =	9.41%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides	
Water Quality Capture Volume (WQCV) =	0.103	acre-feet		acre-feet
Excess Urban Runoff Volume (EURV) =	0.171	acre-feet		acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.245	acre-feet	1.19	inches
5-yr Runoff Volume (P1 = 1.5 in.) =	0.554	acre-feet	1.50	inches
10-yr Runoff Volume (P1 = 1.75 in.) =	0.864	acre-feet	1.75	inches
25-yr Runoff Volume (P1 = 2 in.) =	1.422	acre-feet	2.00	inches
50-yr Runoff Volume (P1 = 2.25 in.) =	1.800	acre-feet	2.25	inches
100-yr Runoff Volume (P1 = 2.52 in.) =	2.347	acre-feet	2.52	inches
500-yr Runoff Volume (P1 = 3.14 in.) =	3.340	acre-feet		inches
Approximate 2-yr Detention Volume =	0.109	acre-feet		
Approximate 5-yr Detention Volume =	0.171	acre-feet		
Approximate 10-yr Detention Volume =	0.365	acre-feet		
Approximate 25-yr Detention Volume =	0.515	acre-feet		
Approximate 50-yr Detention Volume =	0.537	acre-feet		
Approximate 100-yr Detention Volume =	0.697	acre-feet		

Define Zones and Basin Geometry

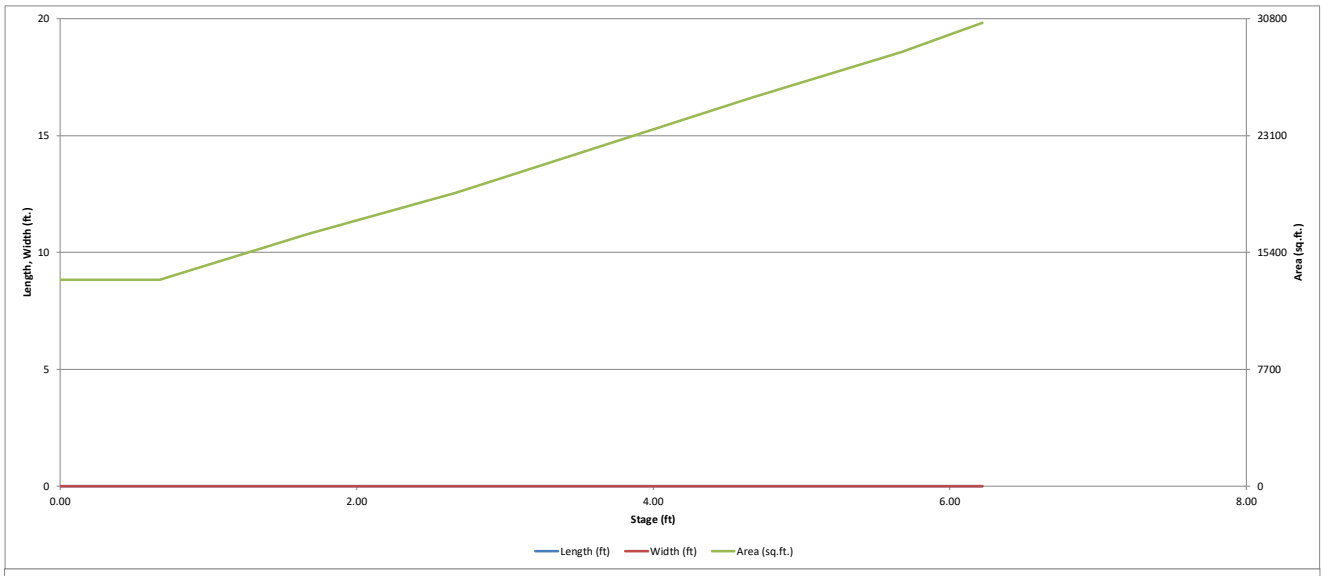
Zone 1 Volume (WQCV) =	0.103	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.068	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.526	acre-feet
Total Detention Basin Volume =	0.697	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

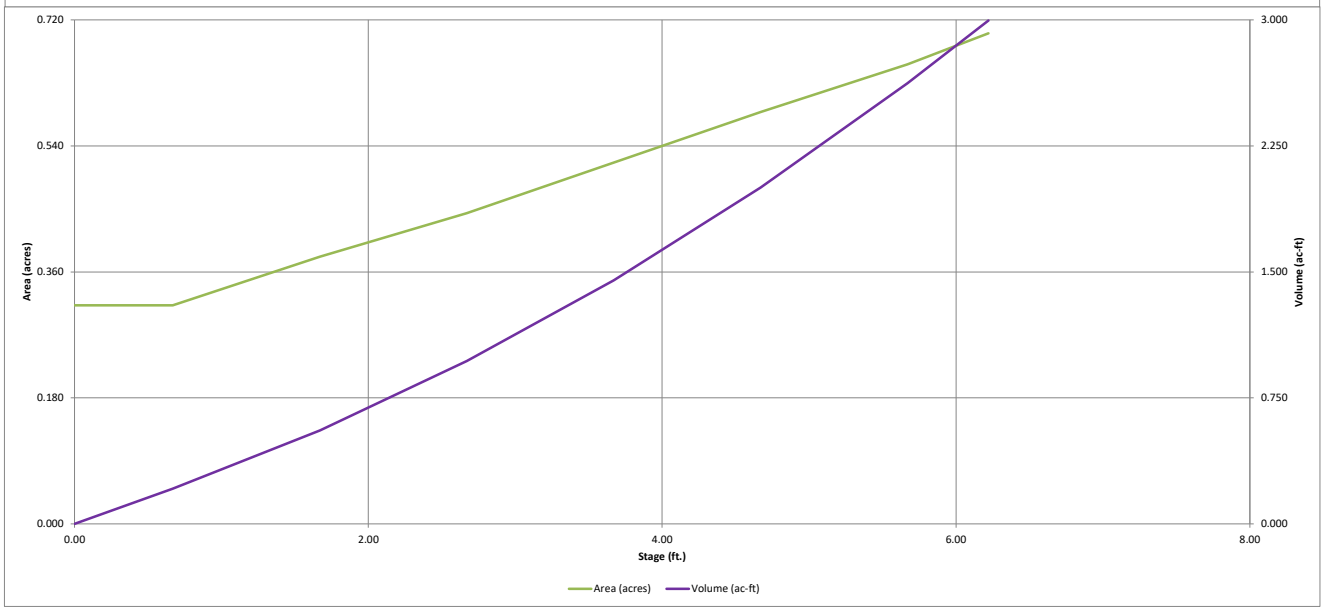
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

Unresolved:
For each pond, provide summary spreadsheet of contributing basins and % impervious, with totals.

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)





✓ = calcs match details in plans

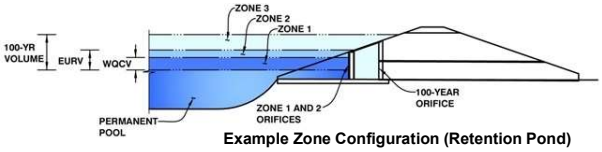
X = calcs do not match details in plans

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East**

Basin ID: **Pond 1 Filing No. 1 (Interim)**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	0.33	0.103	Orifice Plate
Zone 2 (EURV)	0.55	0.068	Orifice Plate
Zone 3 (100-year)	2.03	0.526	Weir&Pipe (Restrict)
Total (all zones)		0.697	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft^2
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft^2
Depth at top of Zone using Orifice Plate =	3.01	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft^2

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
X Stage of Orifice Centroid (ft)	0.00	0.50	0.50	1.00	1.00			
X Orifice Area (sq. inches)	2.10	5.00	5.00	2.00	2.00			

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected				
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A ft^2
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A feet
Vertical Orifice Diameter =	N/A	N/A	inches			

Calculated Parameters for Vertical Orifice

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe)

	Zone 3 Weir	Not Selected				
X Overflow Weir Front Edge Height, Ho =	3.01	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	3.01	N/A feet
X Overflow Weir Front Edge Length =	5.00	N/A	feet	Overflow Weir Slope Length =	5.00	N/A feet
✓ Overflow Weir Grate Slope =	0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	4.38	N/A
X Horiz. Length of Weir Sides =	5.00	N/A	feet	Overflow Grate Open Area w/o Debris =	19.78	N/A ft^2
Overflow Grate Type =	Close Mesh Grate	N/A		Overflow Grate Open Area w/ Debris =	9.89	N/A ft^2
Debris Clogging % =	50%	N/A	%			

Calculated Parameters for Overflow Weir

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected				
X Depth to Invert of Outlet Pipe =	1.50	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	4.52	N/A ft^2
Outlet Pipe Diameter =	30.00	N/A	inches	Outlet Orifice Centroid =	1.16	N/A feet
✓ Restrictor Plate Height Above Pipe Invert =	26.00		inches	Half-Central Angle of Restrictor Plate on Pipe =	2.39	N/A radians

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

User Input: Emergency Spillway (Rectangular or Trapezoidal)

X Spillway Invert Stage=	4.40	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.53	feet
✓ Spillway Crest Length =	60.00	feet	Stage at Top of Freeboard =	5.93	feet
✓ Spillway End Slopes =	4.00	H:V	Basin Area at Top of Freeboard =	0.68	acres
Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	2.80	acre-ft

Calculated Parameters for Spillway

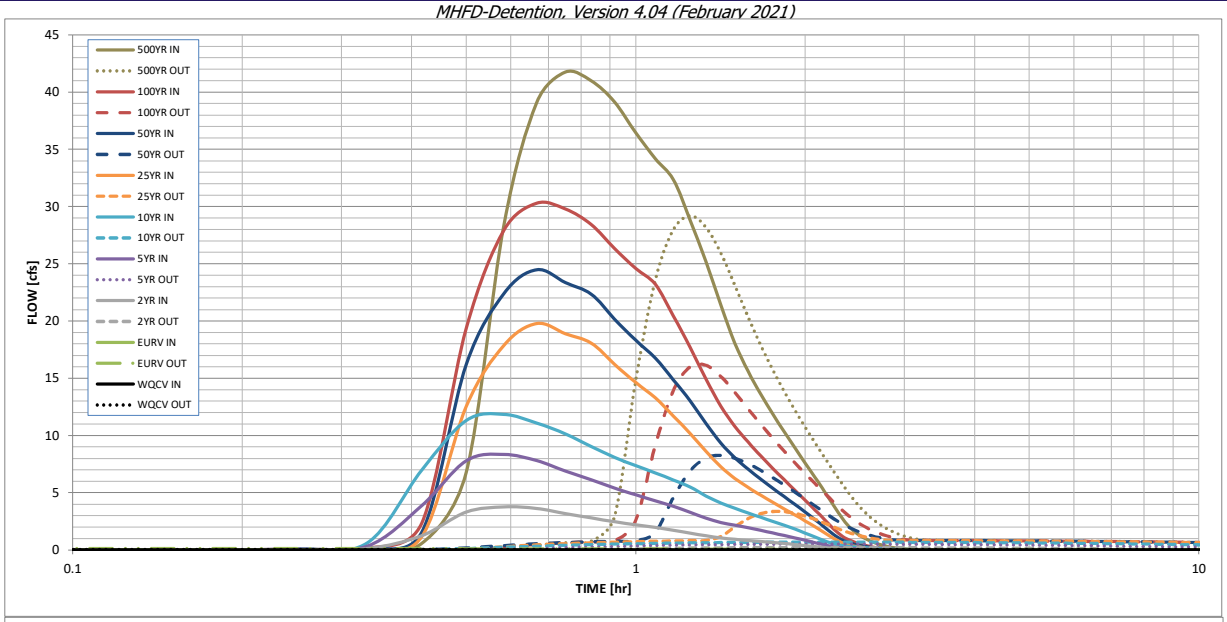
Routed Hydrograph Results

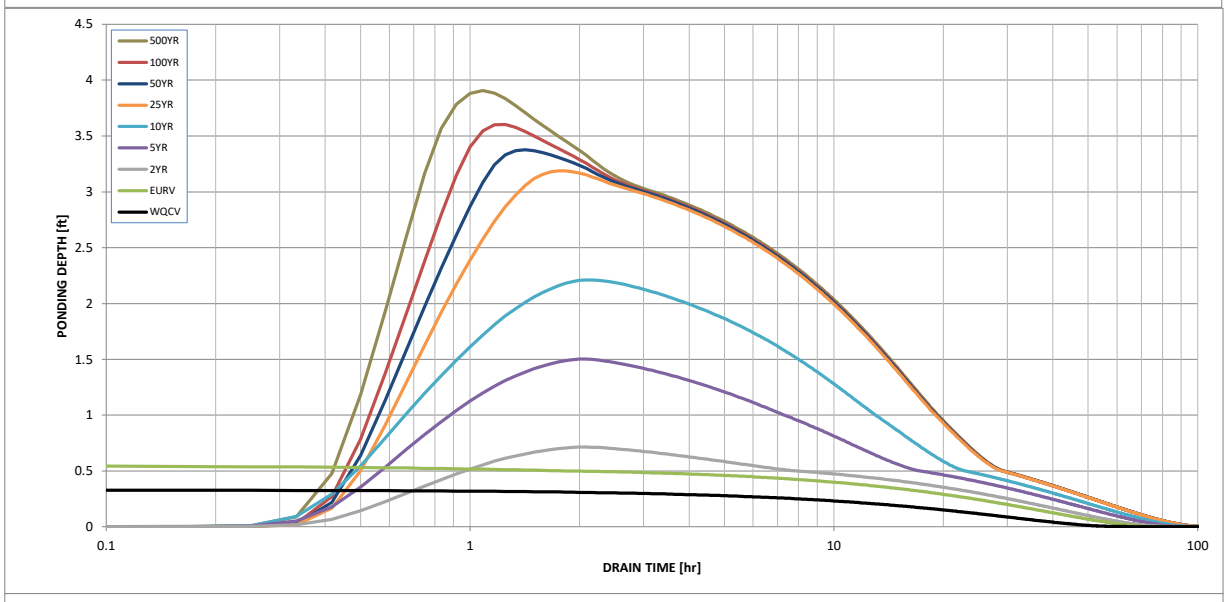
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

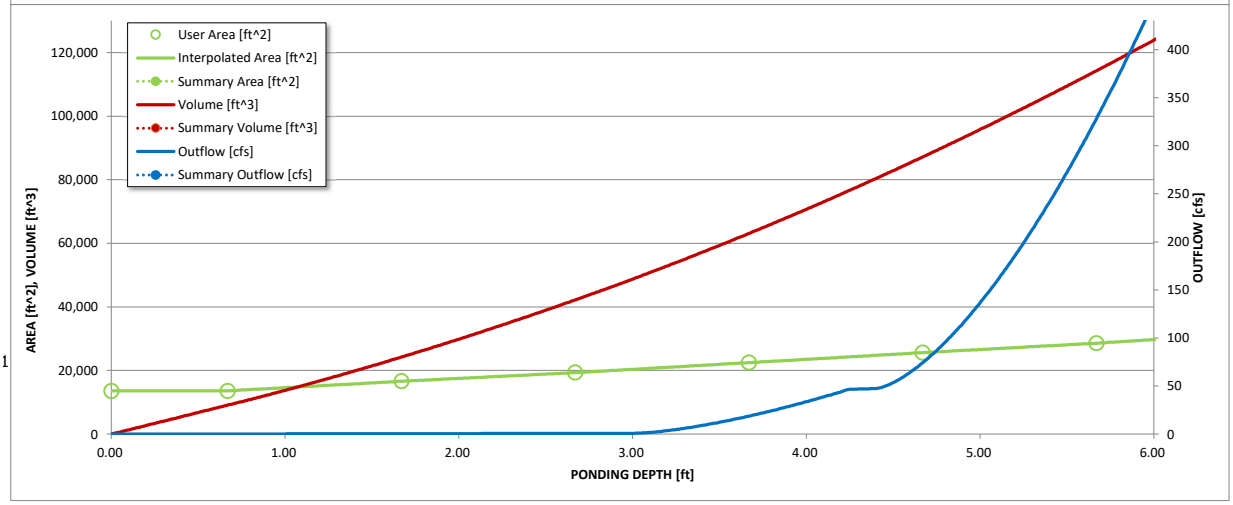
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.103	0.171	0.245	0.554	0.864	1.422	1.800	2.347	3.340
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.245	0.554	0.864	1.422	1.800	2.347	3.340
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	2.5	6.9	10.4	18.4	23.1	28.8	40.2
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.13	0.36	0.54	0.95	1.19	1.48	2.07
Peak Inflow Q (cfs) =	N/A	N/A	3.8	8.3	11.8	19.8	24.5	30.3	41.8
Peak Outflow Q (cfs) =	0.0	0.1	0.2	0.5	0.7	3.4	8.3	16.1	29.2
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.1	0.1	0.2	0.4	0.6	0.7
Structure Controlling Flow =	Plate	Plate	Plate	Plate	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	N/A	N/A	0.1	0.4	0.8	1.4
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	51	64	68	69	68	65	61	54	45
Time to Drain 99% of Inflow Volume (hours) =	**57**	71	75	79	81	82	79	76	70
Maximum Ponding Depth (ft) =	0.33	0.55	0.71	1.50	2.21	3.19	3.38	3.60	3.91
Area at Maximum Ponding Depth (acres) =	0.31	0.31	0.32	0.37	0.42	0.48	0.49	0.51	0.53
Maximum Volume Stored (acre-ft) =	0.103	0.172	0.222	0.492	0.772	1.205	1.298	1.413	1.570

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







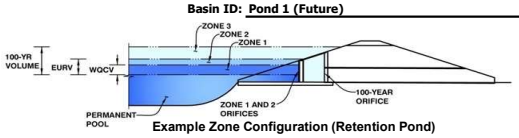
S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East**

Basin ID: **Pond 1 (Future)**



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	**EDB**	
Watershed Area =	25.78	acres
Watershed Length =	1,320	ft
Watershed Length to Centroid =	590	ft
Watershed Slope =	0.036	ft/ft
Watershed Imperviousness =	41.32%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides
Water Quality Capture Volume (WQCV) =	0.394	acre-feet	acre-feet
Excess Urban Runoff Volume (EURV) =	1.122	acre-feet	acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	1.076	acre-feet	1.19 inches
5-yr Runoff Volume (P1 = 1.5 in.) =	1.597	acre-feet	1.50 inches
10-yr Runoff Volume (P1 = 1.75 in.) =	2.064	acre-feet	1.75 inches
25-yr Runoff Volume (P1 = 2 in.) =	2.728	acre-feet	2.00 inches
50-yr Runoff Volume (P1 = 2.25 in.) =	3.247	acre-feet	2.25 inches
100-yr Runoff Volume (P1 = 2.52 in.) =	3.922	acre-feet	2.52 inches
500-yr Runoff Volume (P1 = 3.14 in.) =	5.266	acre-feet	inches
Approximate 2-yr Detention Volume =	0.830	acre-feet	
Approximate 5-yr Detention Volume =	1.156	acre-feet	
Approximate 10-yr Detention Volume =	1.581	acre-feet	
Approximate 25-yr Detention Volume =	1.761	acre-feet	
Approximate 50-yr Detention Volume =	1.847	acre-feet	
Approximate 100-yr Detention Volume =	2.108	acre-feet	

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.394	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.728	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.987	acre-feet
Total Detention Basin Volume =	2.108	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

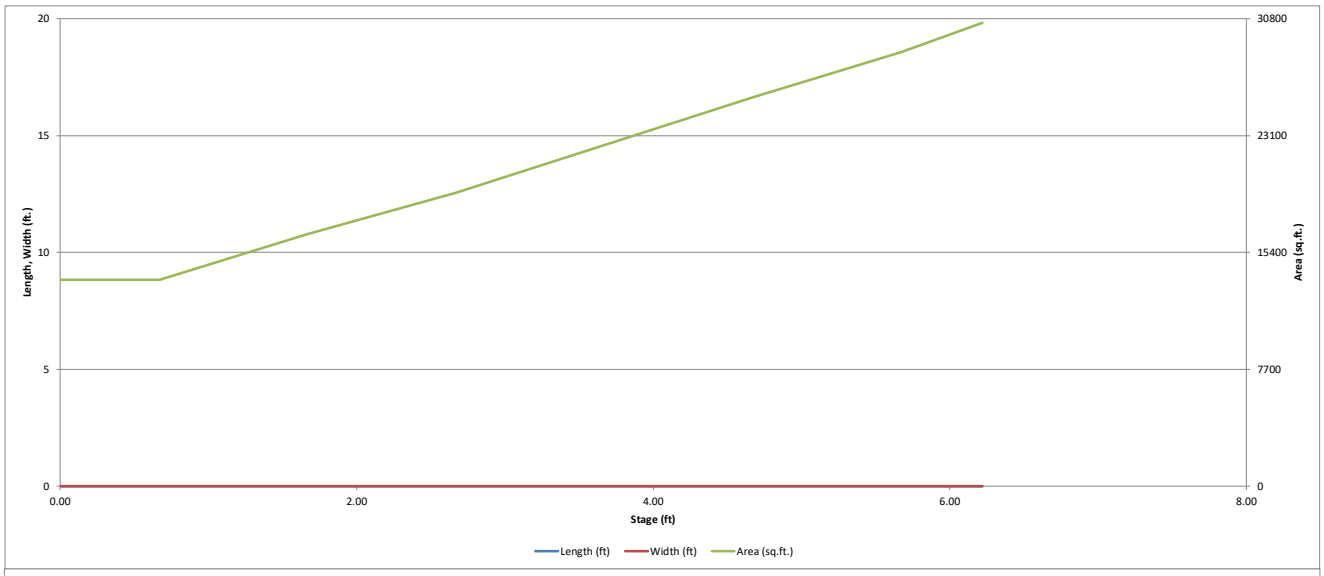
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

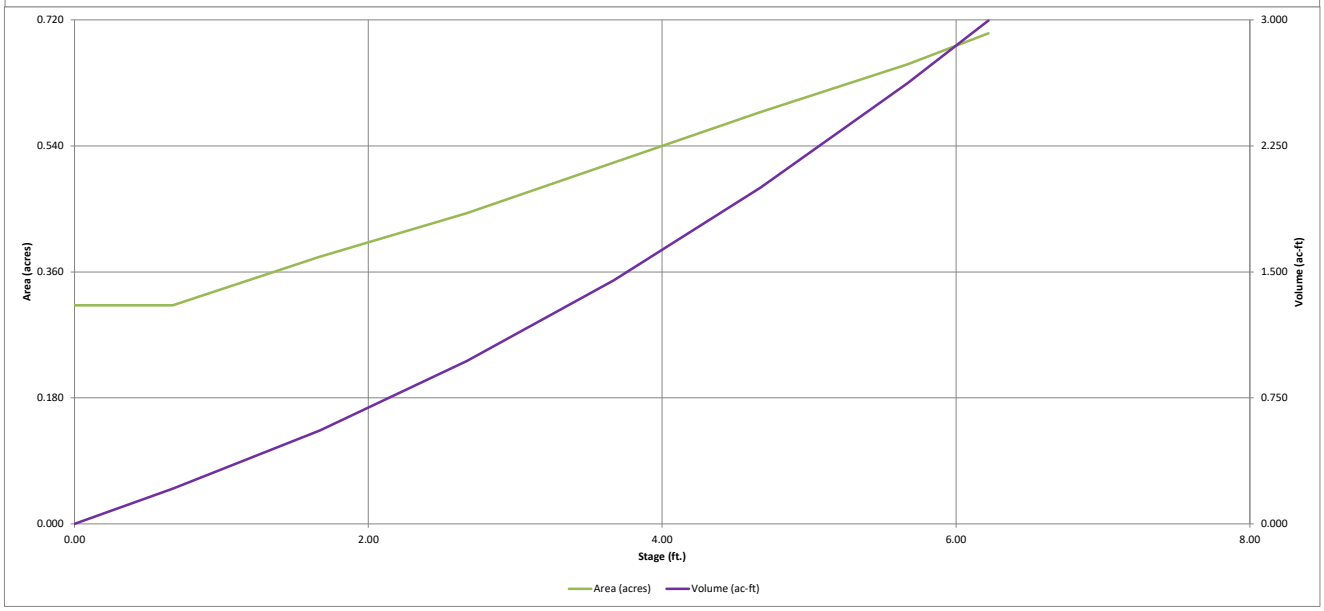
Depth Increment = ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	13,610	0.312		
ISV 7307	--	0.67	--	--	--	13,610	0.312	9,119	0.209
7308	--	1.67	--	--	--	16,624	0.382	24,236	0.556
7309	--	2.67	--	--	--	19,335	0.444	42,215	0.969
7310	--	3.67	--	--	--	22,486	0.516	63,126	1.449
7311	--	4.67	--	--	--	25,629	0.588	87,183	2.001
7312	--	5.67	--	--	--	28,596	0.656	114,296	2.624
7312.55	--	6.22	--	--	--	30,531	0.701	130,556	2.997

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)



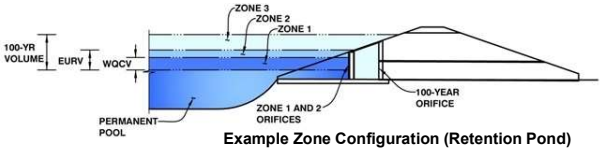


DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East**

Basin ID: **Pond 1 (Future)**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	1.23	0.394	Orifice Plate
Zone 2 (EURV)	3.01	0.728	Orifice Plate
Zone 3 (100-year)	4.85	0.987	Weir&Pipe (Restrict)
Total (all zones)		2.108	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft^2
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft^2
Depth at top of Zone using Orifice Plate =	3.01	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft^2

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.00	1.00	1.50	1.50			
Orifice Area (sq. inches)	5.40	0.30	0.30	0.30	0.30			

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected				Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A	ft^2
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A	feet
Vertical Orifice Diameter =	N/A	N/A	inches				

Calculated Parameters for Vertical Orifice

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe))

	Zone 3 Weir	Not Selected			Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	3.01	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	3.01	N/A	feet
Overflow Weir Front Edge Length =	5.00	N/A	feet	Overflow Weir Slope Length =	5.00	N/A	feet
Overflow Weir Grate Slope =	0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	5.39	N/A	
Horiz. Length of Weir Sides =	5.00	N/A	feet	Overflow Grate Open Area w/o Debris =	19.78	N/A	ft^2
Overflow Grate Type =	Close Mesh Grate	N/A		Overflow Grate Open Area w/ Debris =	9.89	N/A	ft^2
Debris Clogging % =	50%	N/A	%				

Calculated Parameters for Overflow Weir

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected			Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	1.50	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	3.67	N/A	ft^2
Outlet Pipe Diameter =	30.00	N/A	inches	Outlet Orifice Centroid =	0.98	N/A	feet
Restrictor Plate Height Above Pipe Invert =	21.00		inches	Half-Central Angle of Restrictor Plate on Pipe =	1.98	N/A	radians

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage=	4.40	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.53	feet
Spillway Crest Length =	60.00	feet	Stage at Top of Freeboard =	5.93	feet
Spillway End Slopes =	4.00	H:V	Basin Area at Top of Freeboard =	0.68	acres
Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	2.80	acre-ft

Calculated Parameters for Spillway

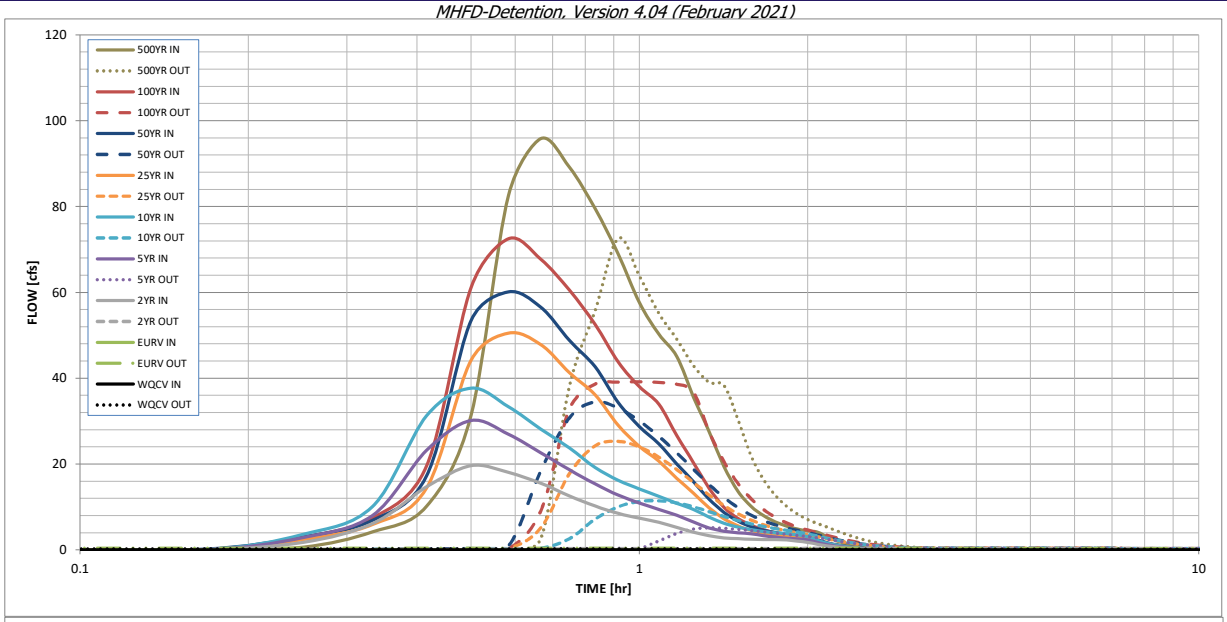
Routed Hydrograph Results

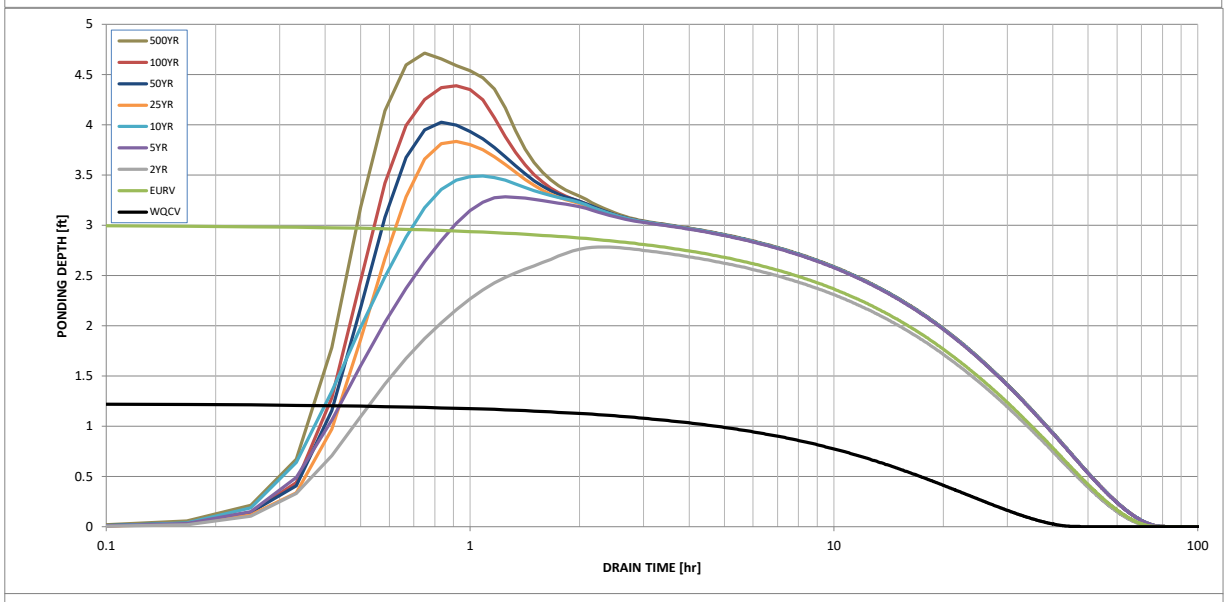
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

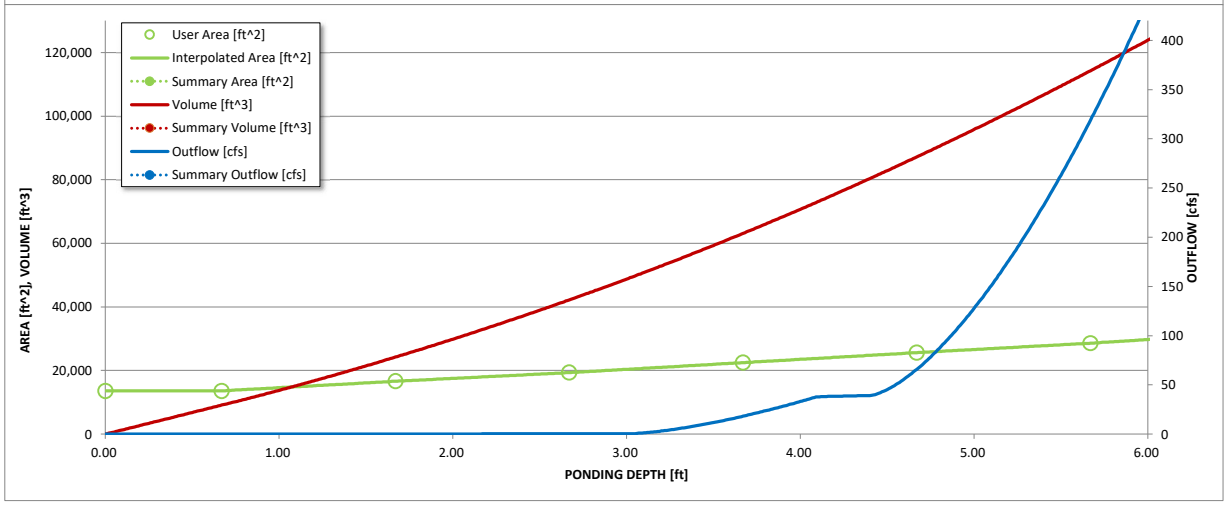
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.394	1.122	1.076	1.597	2.064	2.728	3.247	3.922	5.266
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	1.076	1.597	2.064	2.728	3.247	3.922	5.266
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	3.7	10.2	15.3	26.9	33.7	42.2	58.7
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.14	0.40	0.59	1.04	1.31	1.64	2.28
Peak Inflow Q (cfs) =	N/A	N/A	19.6	30.1	37.7	50.5	60.1	72.5	95.8
Peak Outflow Q (cfs) =	0.2	0.4	0.4	5.1	11.4	25.3	34.5	39.2	72.6
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.5	0.7	0.9	1.0	0.9	1.2
Structure Controlling Flow =	Plate	Overflow Weir 1	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	0.2	0.6	1.2	1.7	2.0	2.0
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	39	63	63	64	62	59	57	55	51
Time to Drain 99% of Inflow Volume (hours) =	**42**	69	69	71	70	68	67	66	64
Maximum Ponding Depth (ft) =	1.23	3.01	2.78	3.28	3.49	3.83	4.03	4.39	4.71
Area at Maximum Ponding Depth (acres) =	0.35	0.47	0.45	0.49	0.50	0.53	0.54	0.57	0.59
Maximum Volume Stored (acre-ft) =	0.395	1.124	1.018	1.253	1.352	1.533	1.634	1.834	2.025

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







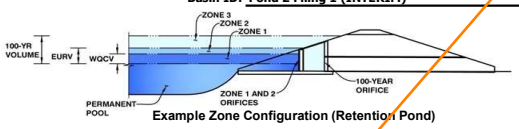
S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN

MHFD-De

Project: Monument Ridge East - Filing No. 1

Basin ID: Pond 2 Filing 1 (INTERIM)



Example Zone Configuration (Retention Pond)

The report text above states that only Basins MO4, DD, EE, and GG are trib to this pond which is 20.2ac (0.74 + 12.75 + 1.81 + 4.9). Please clarify where this extra 2.16ac is coming from. This is where the requested pond summary tables would really clear things up.

Watershed Information

Selected BMP Type =	**EDB**	
Watershed Area =	22.36	acres
Watershed Length =	1,370	ft
Watershed Length to Centroid =	560	ft
Watershed Slope =	0.049	ft/ft
Watershed Imperviousness =	18.35%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	82.0%	percent
Percentage Hydrologic Soil Groups C/D =	18.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides
Water Quality Capture Volume (WQCV) =	0.203	acre-feet	acre-feet
Excess Urban Runoff Volume (EURV) =	0.396	acre-feet	acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.480	acre-feet	1.19 inches
5-yr Runoff Volume (P1 = 1.5 in.) =	0.876	acre-feet	1.50 inches
10-yr Runoff Volume (P1 = 1.75 in.) =	1.273	acre-feet	1.75 inches
25-yr Runoff Volume (P1 = 2 in.) =	1.880	acre-feet	2.00 inches
50-yr Runoff Volume (P1 = 2.25 in.) =	2.324	acre-feet	2.25 inches
100-yr Runoff Volume (P1 = 2.52 in.) =	2.940	acre-feet	2.52 inches
500-yr Runoff Volume (P1 = 3.14 in.) =	4.096	acre-feet	inches
Approximate 2-yr Detention Volume =	0.280	acre-feet	
Approximate 5-yr Detention Volume =	0.440	acre-feet	
Approximate 10-yr Detention Volume =	0.684	acre-feet	
Approximate 25-yr Detention Volume =	0.848	acre-feet	
Approximate 50-yr Detention Volume =	0.894	acre-feet	
Approximate 100-yr Detention Volume =	1.117	acre-feet	

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.203	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.194	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.721	acre-feet
Total Detention Basin Volume =	1.117	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

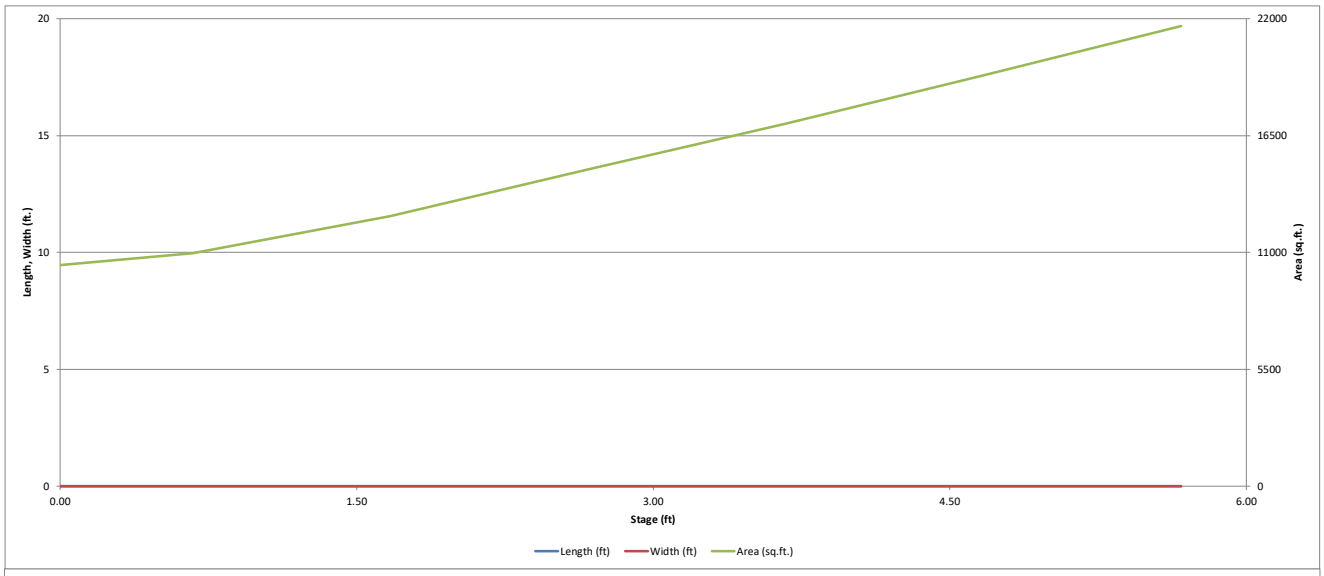
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

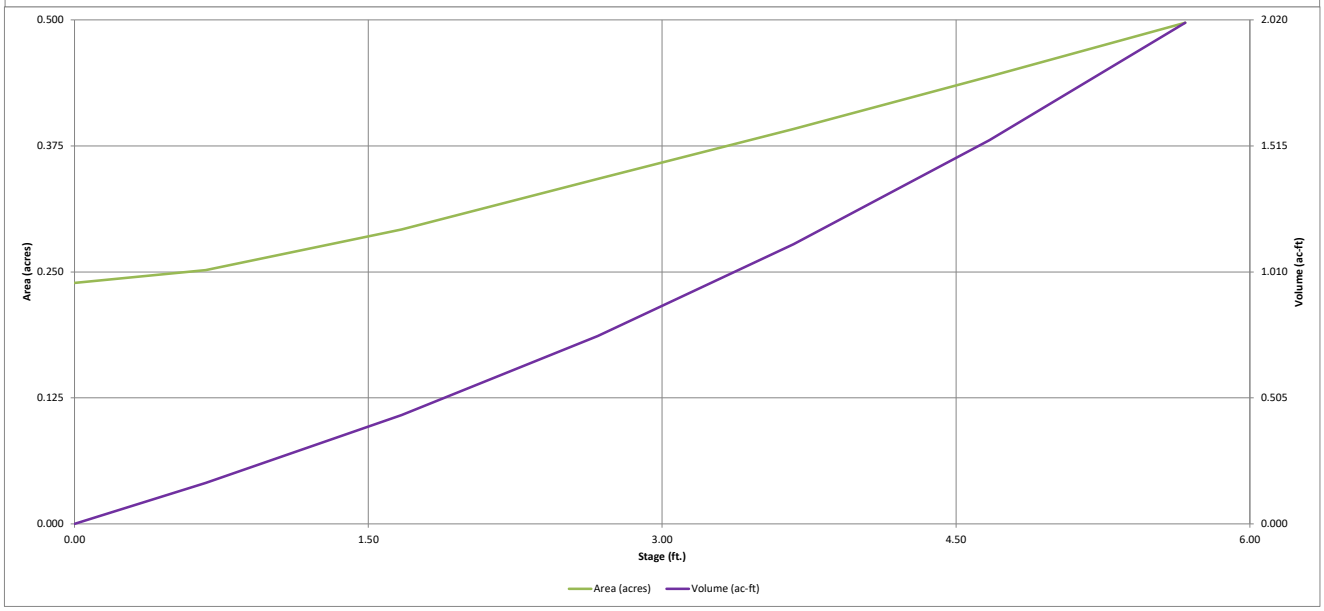
Depth Increment = ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	10,410	0.239		
ISV 7274	--	0.67	--	--	--	10,963	0.252	7,160	0.164
7275	--	1.67	--	--	--	12,719	0.292	19,001	0.436
7276	--	2.67	--	--	--	14,905	0.342	32,813	0.753
7277	--	3.67	--	--	--	17,066	0.392	48,798	1.120
7278	--	4.67	--	--	--	19,340	0.444	67,001	1.538
7279	--	5.67	--	--	--	21,660	0.497	87,501	2.009

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)





✓ = calcs match details in plans

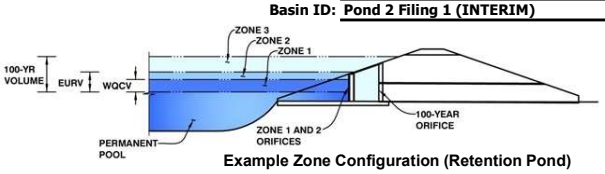
X = calcs do not match details in plans

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East - Filing No. 1**

Basin ID: **Pond 2 Filing 1 (INTERIM)**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	0.82	0.203	Orifice Plate
Zone 2 (EURV)	1.54	0.194	Orifice Plate
Zone 3 (100-year)	3.67	0.721	Weir&Pipe (Restrict)
Total (all zones)		1.117	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth = ft (distance below the filtration media surface)

Underdrain Orifice Diameter = inches

Calculated Parameters for Underdrain

Underdrain Orifice Area = ft²

Underdrain Orifice Centroid = feet

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft²
Depth at top of Zone using Orifice Plate =	2.60	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft²

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
X Stage of Orifice Centroid (ft)	0.00	0.50	1.50					
✓ Orifice Area (sq. inches)	3.10	0.12	6.00					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =	N/A	N/A	inches

Calculated Parameters for Vertical Orifice

	Not Selected	Not Selected	
Vertical Orifice Area =	N/A	N/A	ft²
Vertical Orifice Centroid =	N/A	N/A	feet

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe)

	Zone 3 Weir	Not Selected	
✓ Overflow Weir Front Edge Height, Ho =	2.60	N/A	ft (relative to basin bottom at Stage = 0 ft)
✓ Overflow Weir Front Edge Length =	5.00	N/A	feet
✓ Overflow Weir Grate Slope =	0.00	N/A	H:V
X Horiz. Length of Weir Sides =	5.00	N/A	feet
Overflow Grate Type =	Close Mesh Grate	N/A	
Debris Clogging % =	50%	N/A	%

Calculated Parameters for Overflow Weir

	Zone 3 Weir	Not Selected	
Height of Grate Upper Edge, H_t =	2.60	N/A	feet
Overflow Weir Slope Length =	5.00	N/A	feet
Grate Open Area / 100-yr Orifice Area =	5.60	N/A	
Overflow Grate Open Area w/o Debris =	19.78	N/A	ft²
Overflow Grate Open Area w/ Debris =	9.89	N/A	ft²

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected	
✓ Depth to Invert of Outlet Pipe =	2.17	N/A	ft (distance below basin bottom at Stage = 0 ft)
✓ Outlet Pipe Diameter =	36.00	N/A	inches
✓ Restrictor Plate Height Above Pipe Invert =	18.00		inches

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

	Zone 3 Restrictor	Not Selected	
Outlet Orifice Area =	3.53	N/A	ft²
Outlet Orifice Centroid =	0.86	N/A	feet
Half-Central Angle of Restrictor Plate on Pipe =	1.57	N/A	radians

User Input: Emergency Spillway (Rectangular or Trapezoidal)

✓ Spillway Invert Stage=	4.00	ft (relative to basin bottom at Stage = 0 ft)
✓ Spillway Crest Length =	35.00	feet
✓ Spillway End Slopes =	4.00	H:V
✓ Freeboard above Max Water Surface =	1.00	feet

Calculated Parameters for Spillway

Spillway Design Flow Depth=	0.40	feet
Stage at Top of Freeboard =	5.40	feet
Basin Area at Top of Freeboard =	0.48	acres
Basin Volume at Top of Freeboard =	1.88	acre-ft

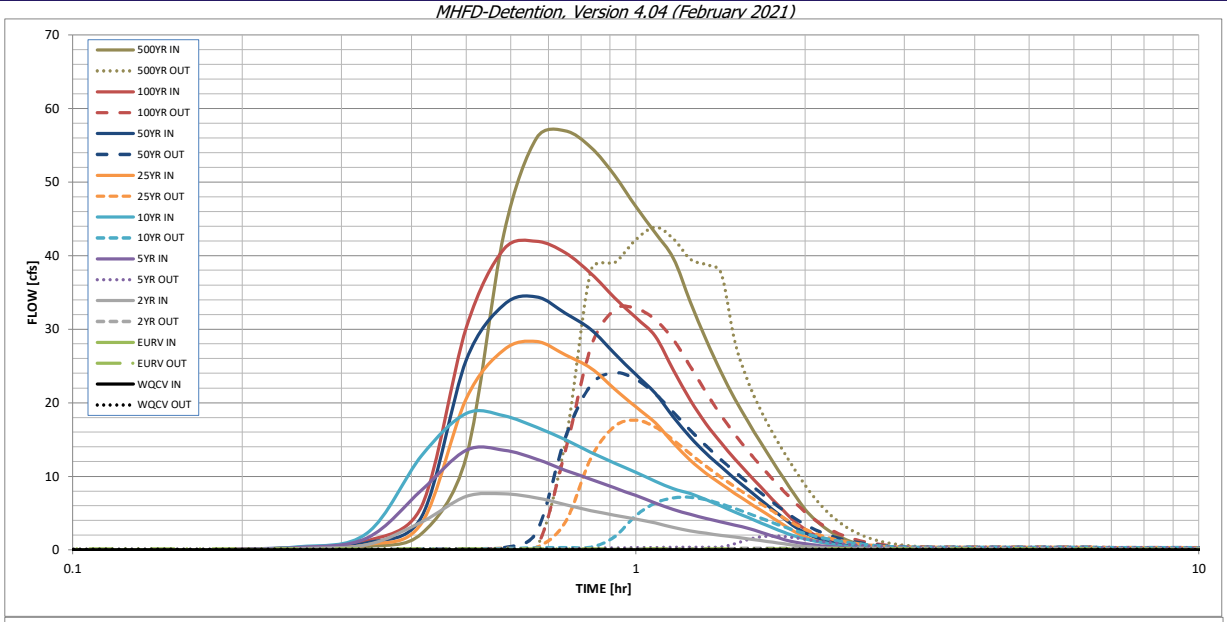
Routed Hydrograph Results

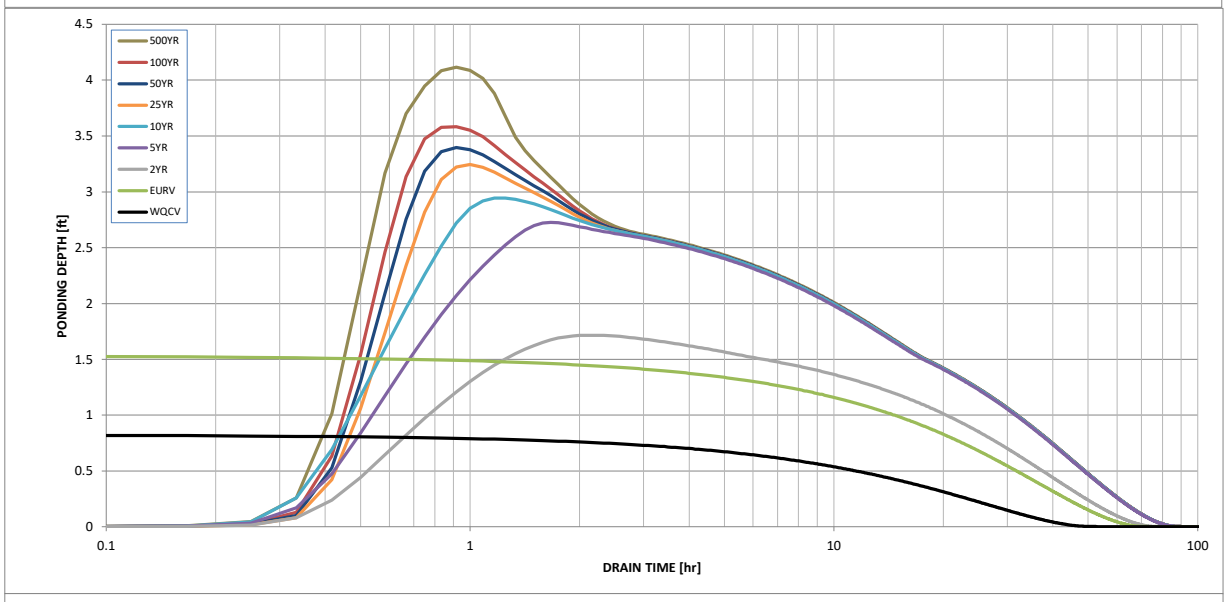
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

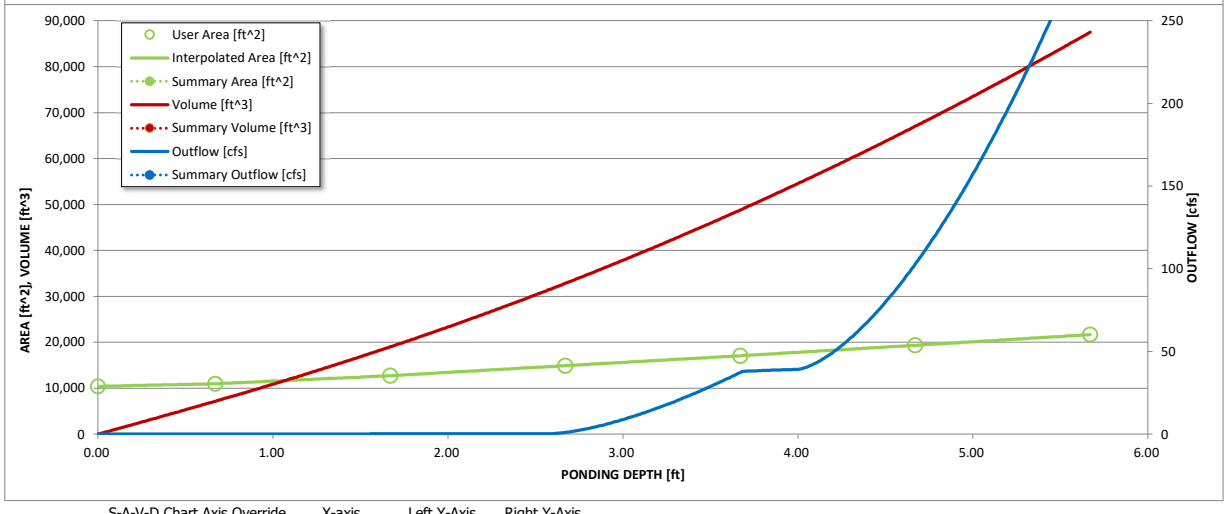
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.203	0.396	0.480	0.876	1.273	1.880	2.324	2.940	4.096
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.480	0.876	1.273	1.880	2.324	2.940	4.096
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	3.7	9.4	14.1	24.1	30.0	37.4	52.0
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.17	0.42	0.63	1.08	1.34	1.67	2.33
Peak Inflow Q (cfs) =	N/A	N/A	7.6	13.6	18.5	28.3	34.4	41.9	56.9
Peak Outflow Q (cfs) =	0.1	0.2	0.2	1.9	7.2	17.6	24.1	32.8	43.9
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.2	0.5	0.7	0.8	0.9	0.8
Structure Controlling Flow =	Plate	Plate	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	0.1	0.3	0.9	1.2	1.6	2.0
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	43	59	64	70	67	62	59	55	49
Time to Drain 99% of Inflow Volume (hours) =	**46**	65	70	78	76	73	72	69	66
Maximum Ponding Depth (ft) =	0.83	1.54	1.72	2.73	2.94	3.24	3.40	3.58	4.12
Area at Maximum Ponding Depth (acres) =	0.26	0.29	0.29	0.34	0.36	0.37	0.38	0.39	0.41
Maximum Volume Stored (acre-ft) =	0.205	0.399	0.448	0.770	0.847	0.956	1.013	1.085	1.298

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







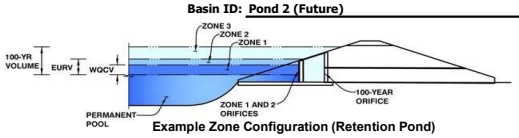
S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East**

Basin ID: **Pond 2 (Future)**



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	**EDB**	
Watershed Area =	14.41	acres
Watershed Length =	1,370	ft
Watershed Length to Centroid =	560	ft
Watershed Slope =	0.049	ft/ft
Watershed Imperviousness =	48.33%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	82.0%	percent
Percentage Hydrologic Soil Groups C/D =	18.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides
Water Quality Capture Volume (WQCV) =	0.242	acre-feet	acre-feet
Excess Urban Runoff Volume (EURV) =	0.727	acre-feet	acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.706	acre-feet	1.19 inches
5-yr Runoff Volume (P1 = 1.5 in.) =	1.013	acre-feet	1.50 inches
10-yr Runoff Volume (P1 = 1.75 in.) =	1.288	acre-feet	1.75 inches
25-yr Runoff Volume (P1 = 2 in.) =	1.646	acre-feet	2.00 inches
50-yr Runoff Volume (P1 = 2.25 in.) =	1.942	acre-feet	2.25 inches
100-yr Runoff Volume (P1 = 2.52 in.) =	2.315	acre-feet	2.52 inches
500-yr Runoff Volume (P1 = 3.14 in.) =	3.075	acre-feet	inches
Approximate 2-yr Detention Volume =	0.562	acre-feet	
Approximate 5-yr Detention Volume =	0.786	acre-feet	
Approximate 10-yr Detention Volume =	1.016	acre-feet	
Approximate 25-yr Detention Volume =	1.113	acre-feet	
Approximate 50-yr Detention Volume =	1.163	acre-feet	
Approximate 100-yr Detention Volume =	1.308	acre-feet	

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.242	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.485	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.581	acre-feet
Total Detention Basin Volume =	1.308	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

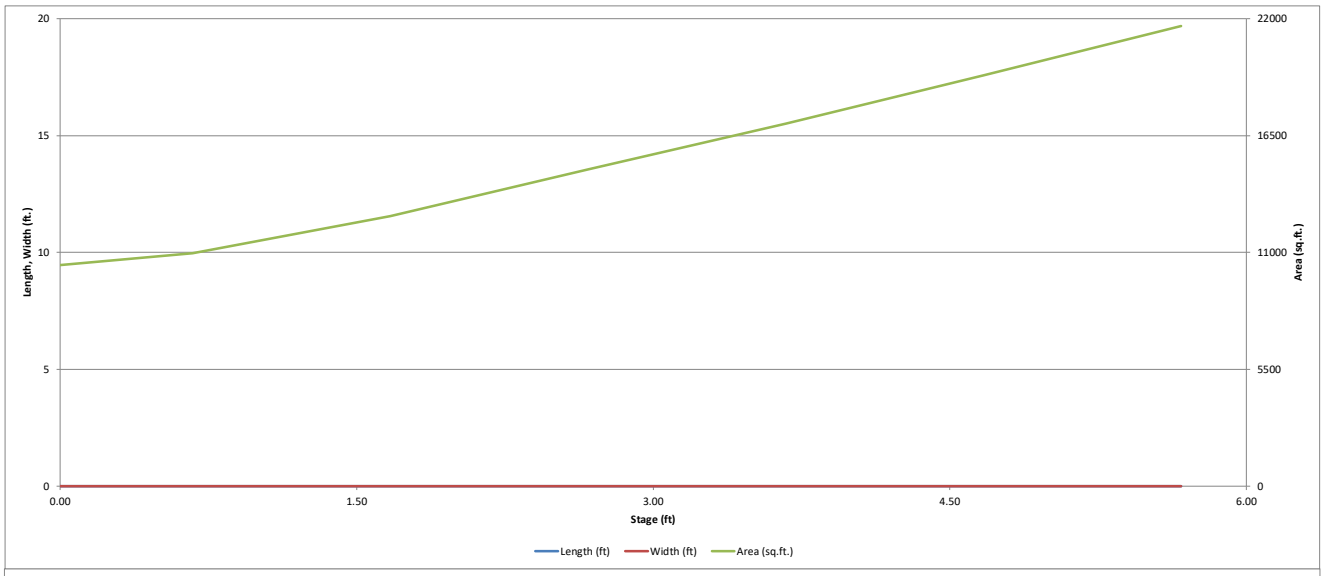
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

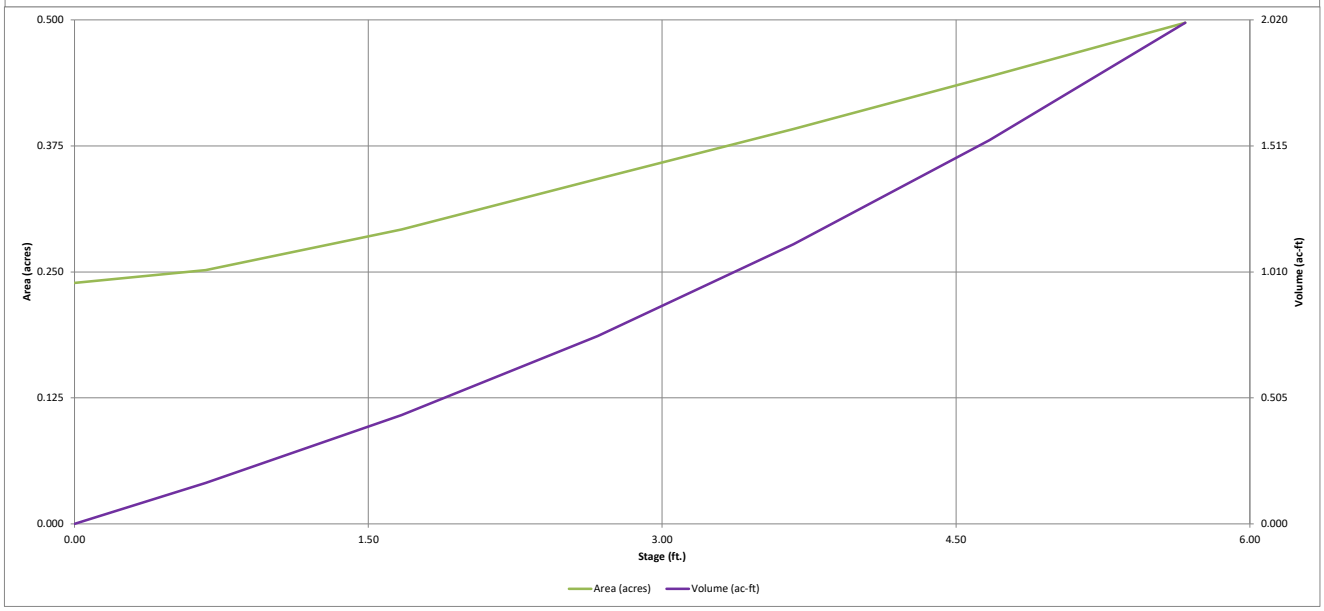
Depth Increment = ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	10,410	0.239		
ISV 7274	--	0.67	--	--	--	10,963	0.252	7,160	0.164
7275	--	1.67	--	--	--	12,719	0.292	19,001	0.436
7276	--	2.67	--	--	--	14,905	0.342	32,813	0.753
7277	--	3.67	--	--	--	17,066	0.392	48,798	1.120
7278	--	4.67	--	--	--	19,340	0.444	67,001	1.538
7279	--	5.67	--	--	--	21,660	0.497	87,501	2.009

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)



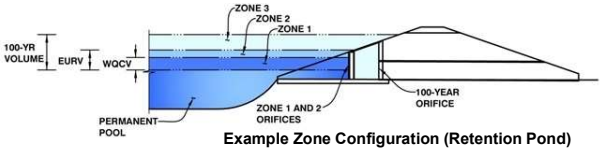


DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East**

Basin ID: **Pond 2 (Future)**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	0.98	0.242	Orifice Plate
Zone 2 (EURV)	2.60	0.485	Orifice Plate
Zone 3 (100-year)	4.14	0.581	Weir&Pipe (Restrict)
Total (all zones)		1.308	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth = ft (distance below the filtration media surface)

Underdrain Orifice Diameter = inches

Calculated Parameters for Underdrain

Underdrain Orifice Area = ft^2

Underdrain Orifice Centroid = feet

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice = 0.00 ft (relative to basin bottom at Stage = 0 ft)

Depth at top of Zone using Orifice Plate = 2.60 ft (relative to basin bottom at Stage = 0 ft)

Orifice Plate: Orifice Vertical Spacing = N/A inches

Orifice Plate: Orifice Area per Row = N/A inches

Calculated Parameters for Plate

WQ Orifice Area per Row = N/A ft^2

Elliptical Half-Width = N/A feet

Elliptical Slot Centroid = N/A feet

Elliptical Slot Area = N/A ft^2

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.00	2.00					
Orifice Area (sq. inches)	3.50	1.60	1.60					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =	N/A	N/A	inches

Calculated Parameters for Vertical Orifice

	Not Selected	Not Selected	
Vertical Orifice Area =	N/A	N/A	ft^2
Vertical Orifice Centroid =	N/A	N/A	feet

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe)

	Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	2.60	N/A	ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	5.00	N/A	feet
Overflow Weir Grate Slope =	0.00	N/A	H:V
Horiz. Length of Weir Sides =	5.00	N/A	feet
Overflow Grate Type =	Close Mesh Grate	N/A	
Debris Clogging % =	50%	N/A	%

Calculated Parameters for Overflow Weir

	Zone 3 Weir	Not Selected	
Height of Grate Upper Edge, H_t =	2.60	N/A	feet
Overflow Weir Slope Length =	5.00	N/A	feet
Grate Open Area / 100-yr Orifice Area =	12.59	N/A	
Overflow Grate Open Area w/o Debris =	19.78	N/A	ft^2
Overflow Grate Open Area w/ Debris =	9.89	N/A	ft^2

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	2.17	N/A	ft (distance below basin bottom at Stage = 0 ft)
Outlet Pipe Diameter =	24.00	N/A	inches
Restrictor Plate Height Above Pipe Invert =	12.00		inches

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

	Zone 3 Restrictor	Not Selected	
Outlet Orifice Area =	1.57	N/A	ft^2
Outlet Orifice Centroid =	0.58	N/A	feet
Half-Central Angle of Restrictor Plate on Pipe =	1.57	N/A	radians

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage= 4.00 ft (relative to basin bottom at Stage = 0 ft)

Spillway Crest Length = 35.00 feet

Spillway End Slopes = 4.00 H:V

Freeboard above Max Water Surface = 1.00 feet

Calculated Parameters for Spillway

Spillway Design Flow Depth= 0.51 feet

Stage at Top of Freeboard = 5.51 feet

Basin Area at Top of Freeboard = 0.49 acres

Basin Volume at Top of Freeboard = 1.93 acre-ft

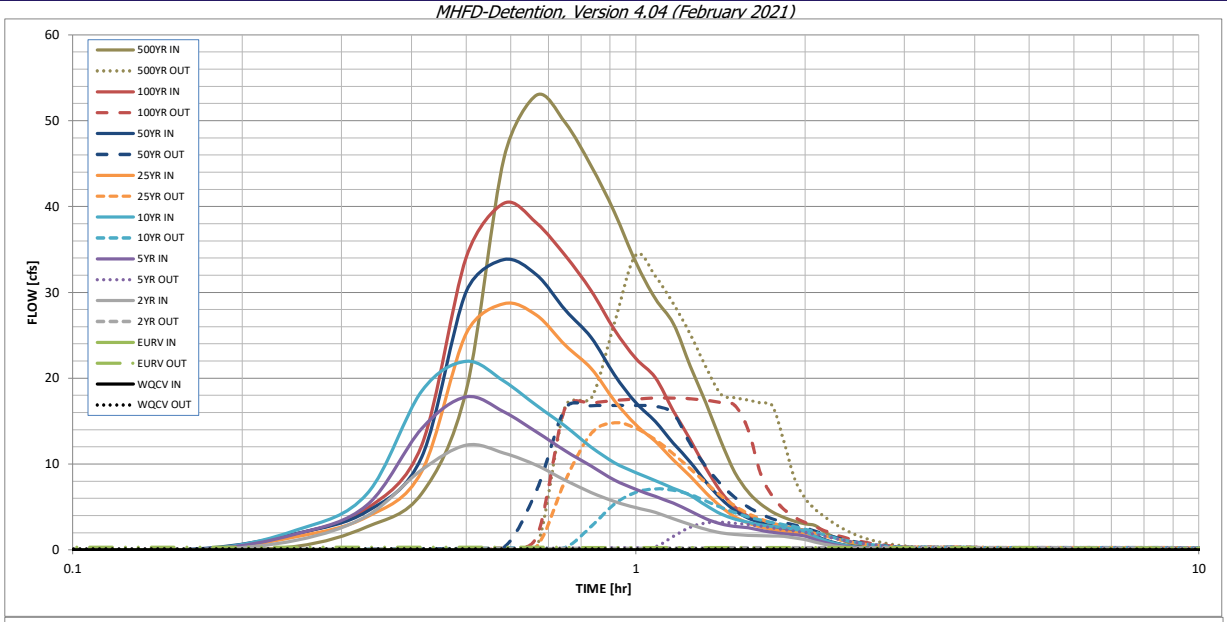
Routed Hydrograph Results

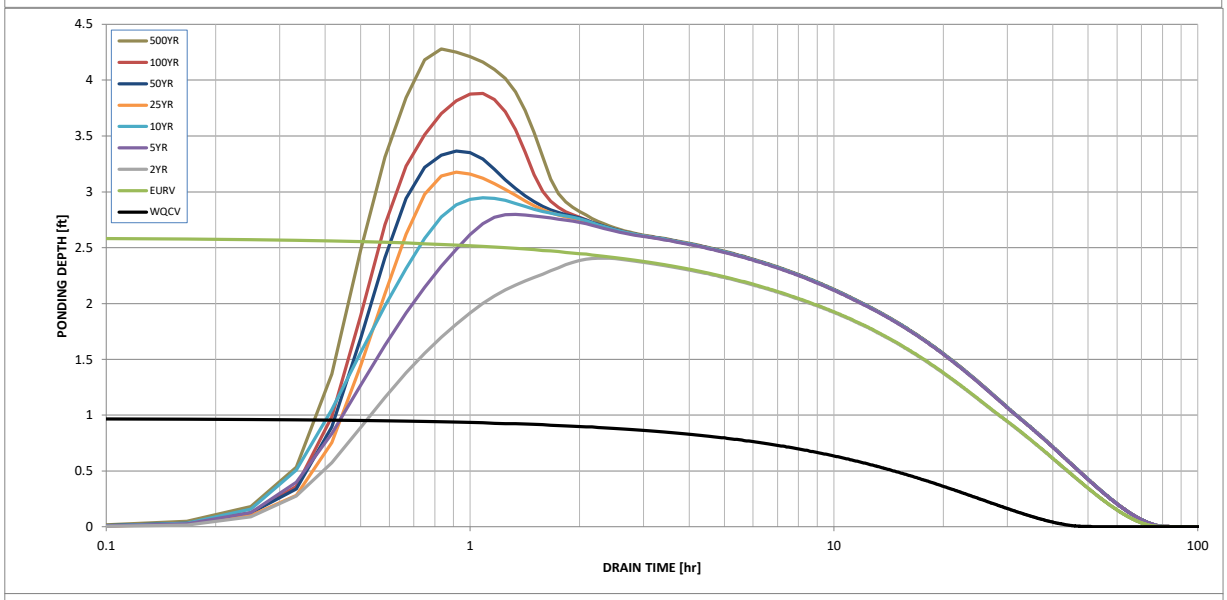
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

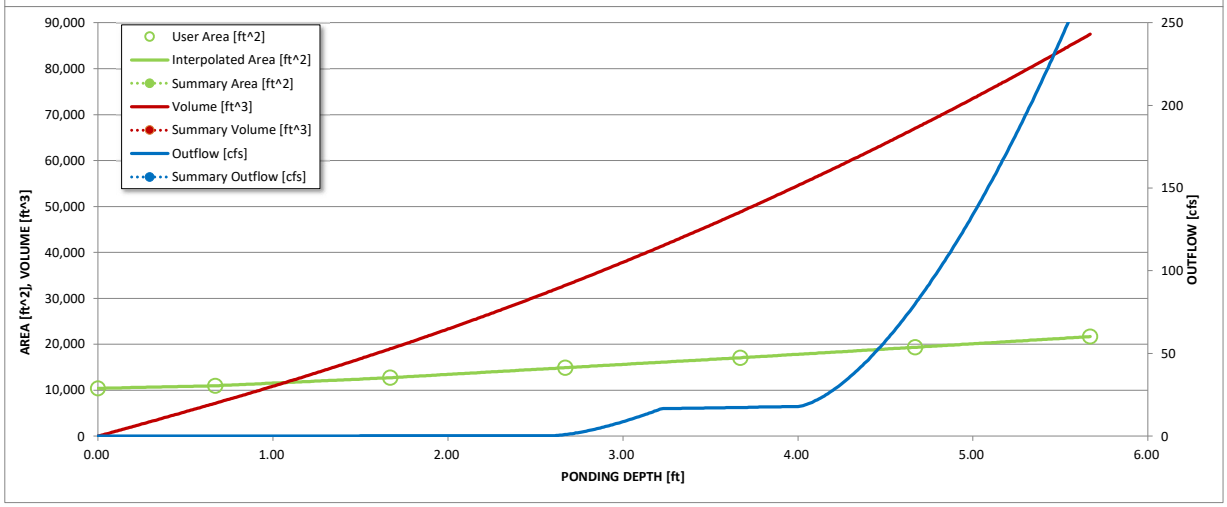
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.242	0.727	0.706	1.013	1.288	1.646	1.942	2.315	3.075
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.706	1.013	1.288	1.646	1.942	2.315	3.075
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	2.0	5.1	7.8	13.3	16.6	20.7	28.9
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.14	0.36	0.54	0.92	1.15	1.44	2.00
Peak Inflow Q (cfs) =	N/A	N/A	12.2	17.8	22.0	28.7	33.8	40.4	53.0
Peak Outflow Q (cfs) =	0.1	0.3	0.3	3.2	7.1	14.8	16.8	17.7	34.3
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.6	0.9	1.1	1.0	0.9	1.2
Structure Controlling Flow =	Plate	Overflow Weir 1	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	0.2	0.3	0.7	0.8	0.9	0.9
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	41	64	65	65	63	60	58	56	52
Time to Drain 99% of Inflow Volume (hours) =	**45**	71	71	72	71	70	69	67	65
Maximum Ponding Depth (ft) =	0.98	2.60	2.40	2.80	2.95	3.17	3.36	3.88	4.28
Area at Maximum Ponding Depth (acres) =	0.26	0.34	0.33	0.35	0.36	0.37	0.38	0.40	0.42
Maximum Volume Stored (acre-ft) =	0.244	0.729	0.663	0.795	0.847	0.931	1.001	1.204	1.369

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







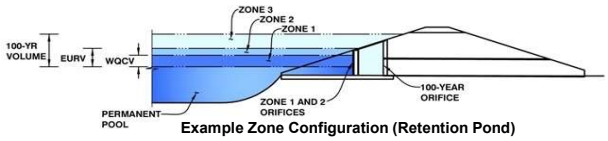
S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East - Early Grading Plan**

Basin ID: **Pond 4 Filing 1 (Interim)**



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	**EDB**		**Note: L / W Ratio < 1**
Watershed Area =	23.20	acres	**L / W Ratio = 1**
Watershed Length =	1,005	ft	
Watershed Length to Centroid =	490	ft	
Watershed Slope =	0.045	ft/ft	
Watershed Imperviousness =	35.84%	percent	
Percentage Hydrologic Soil Group A =	0.0%	percent	
Percentage Hydrologic Soil Group B =	56.0%	percent	
Percentage Hydrologic Soil Groups C/D =	44.0%	percent	
Target WQCV Drain Time =	40.0	hours	
Location for 1-hr Rainfall Depths =	User Input		

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides	
Water Quality Capture Volume (WQCV) =	0.326	acre-feet		acre-feet
Excess Urban Runoff Volume (EURV) =	0.822	acre-feet		acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.877	acre-feet	1.19	inches
5-yr Runoff Volume (P1 = 1.5 in.) =	1.348	acre-feet	1.50	inches
10-yr Runoff Volume (P1 = 1.75 in.) =	1.782	acre-feet	1.75	inches
25-yr Runoff Volume (P1 = 2 in.) =	2.353	acre-feet	2.00	inches
50-yr Runoff Volume (P1 = 2.25 in.) =	2.818	acre-feet	2.25	inches
100-yr Runoff Volume (P1 = 2.52 in.) =	3.419	acre-feet	2.52	inches
500-yr Runoff Volume (P1 = 3.14 in.) =	4.617	acre-feet		inches
Approximate 2-yr Detention Volume =	0.645	acre-feet		
Approximate 5-yr Detention Volume =	0.966	acre-feet		
Approximate 10-yr Detention Volume =	1.237	acre-feet		
Approximate 25-yr Detention Volume =	1.389	acre-feet		
Approximate 50-yr Detention Volume =	1.455	acre-feet		
Approximate 100-yr Detention Volume =	1.709	acre-feet		

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.326	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.496	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.887	acre-feet
Total Detention Basin Volume =	1.709	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

Depth Increment = ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	3,275	0.075		
ISV 7262	--	0.67	--	--	--	3,275	0.075	2,194	0.050
7263	--	1.67	--	--	--	7,262	0.167	7,463	0.171
7264	--	2.67	--	--	--	8,942	0.205	15,565	0.357
7265	--	3.67	--	--	--	12,109	0.278	26,090	0.599
7266	--	4.67	--	--	--	17,543	0.403	40,916	0.939
7267	--	5.67	--	--	--	23,582	0.541	61,479	1.411
7268	--	6.67	--	--	--	28,562	0.656	87,551	2.010
7268.7	--	7.37	--	--	--	37,113	0.852	110,537	2.538

✓ = calcs match details in plans

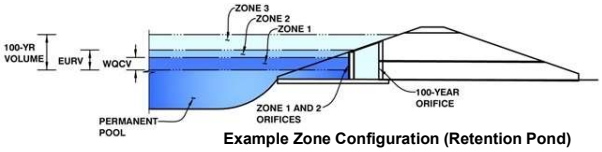
X = calcs do not match details in plans

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East - Early Grading Plan**

Basin ID: **Pond 4 Filing 1 (Interim)**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	2.52	0.326	Orifice Plate
Zone 2 (EURV)	4.37	0.496	Orifice Plate
Zone 3 (100-year)	6.20	0.887	Weir&Pipe (Restrict)
Total (all zones)		1.709	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft^2
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft^2
Depth at top of Zone using Orifice Plate =	4.63	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft^2

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
X Stage of Orifice Centroid (ft)	0.00	1.50	2.50	3.00	3.50			
X Orifice Area (sq. inches)	2.20	1.00	1.00	1.00	1.00			

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected				
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A ft^2
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A feet
Vertical Orifice Diameter =	N/A	N/A	inches			

Calculated Parameters for Vertical Orifice

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe)

	Zone 3 Weir	Not Selected				
✓ Overflow Weir Front Edge Height, Ho =	4.63	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	4.63	N/A feet
X Overflow Weir Front Edge Length =	5.00	N/A	feet	Overflow Weir Slope Length =	5.00	N/A feet
✓ Overflow Weir Grate Slope =	0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	5.60	N/A
X Horiz. Length of Weir Sides =	5.00	N/A	feet	Overflow Grate Open Area w/o Debris =	19.78	N/A ft^2
Overflow Grate Type =	Close Mesh Grate	N/A		Overflow Grate Open Area w/ Debris =	9.89	N/A ft^2
Debris Clogging % =	50%	N/A	%			

Calculated Parameters for Overflow Weir

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected				
✓ Depth to Invert of Outlet Pipe =	1.00	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	3.53	N/A ft^2
X Outlet Pipe Diameter =	36.00	N/A	inches	Outlet Orifice Centroid =	0.86	N/A feet
X Restrictor Plate Height Above Pipe Invert =	18.00		inches	Half-Central Angle of Restrictor Plate on Pipe =	1.57	N/A radians

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

User Input: Emergency Spillway (Rectangular or Trapezoidal)

✓ Spillway Invert Stage=	5.85	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.57	feet
✓ Spillway Crest Length =	50.00	feet	Stage at Top of Freeboard =	7.42	feet
✓ Spillway End Slopes =	4.00	H:V	Basin Area at Top of Freeboard =	0.85	acres
✓ Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	2.54	acre-ft

Calculated Parameters for Spillway

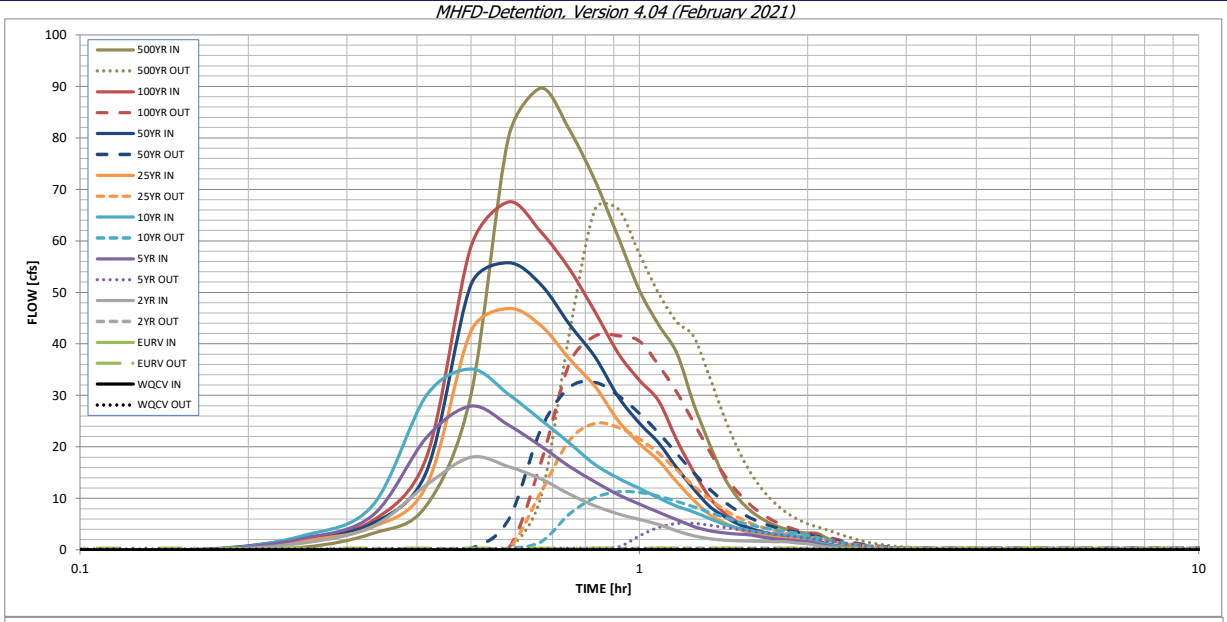
Routed Hydrograph Results

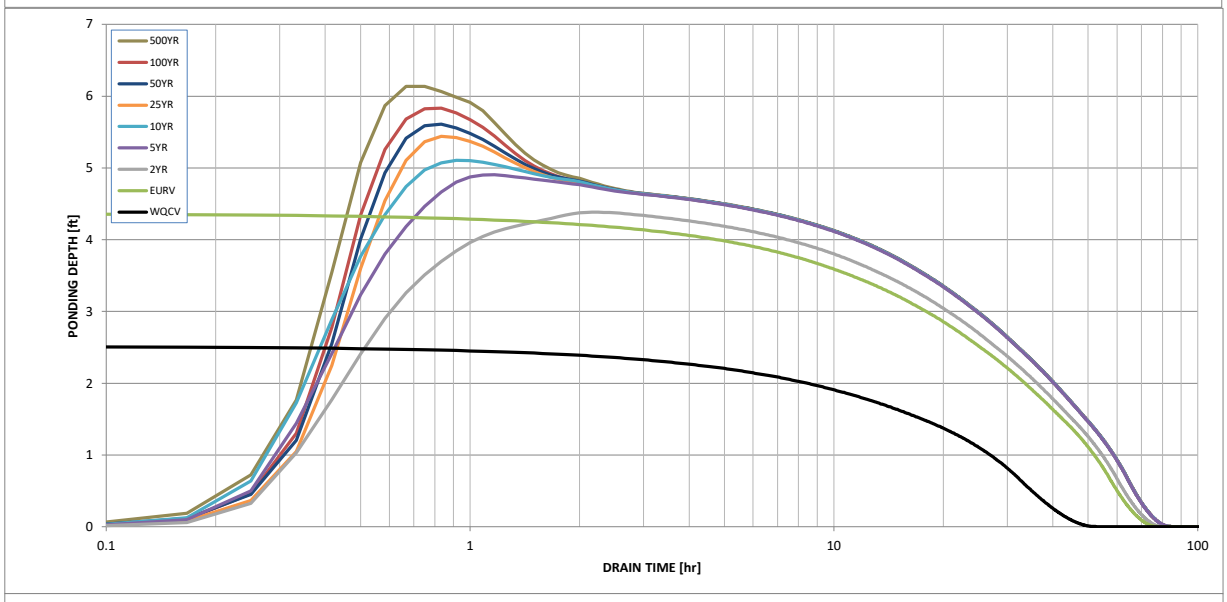
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

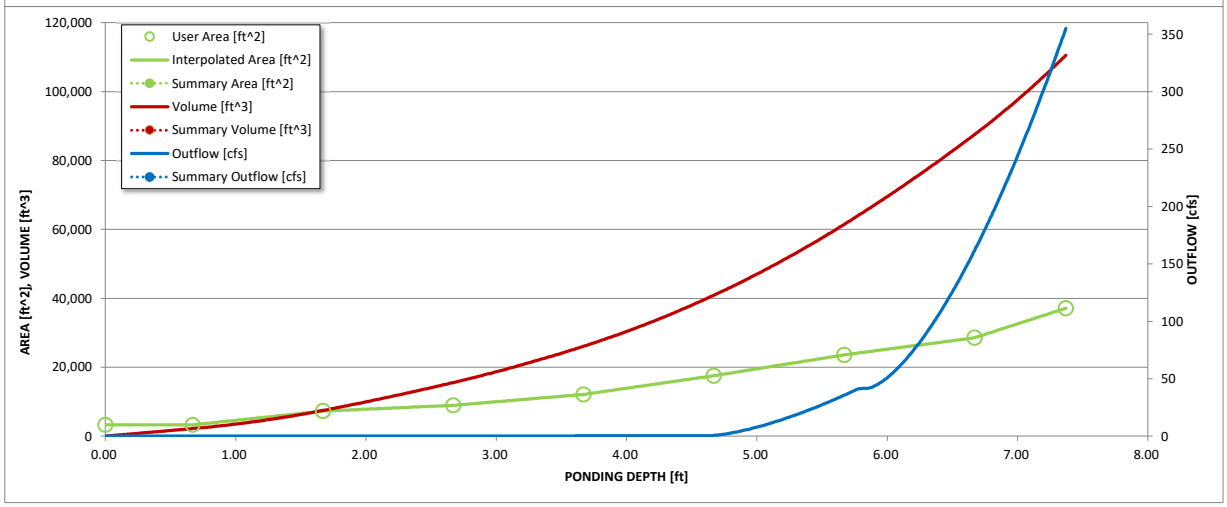
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.326	0.822	0.877	1.348	1.782	2.353	2.818	3.419	4.617
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.877	1.348	1.782	2.353	2.818	3.419	4.617
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	5.5	12.5	18.4	29.4	36.2	44.9	62.4
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.24	0.54	0.79	1.27	1.56	1.94	2.69
Peak Inflow Q (cfs) =	N/A	N/A	18.0	27.9	35.1	46.8	55.8	67.6	89.7
Peak Outflow Q (cfs) =	0.2	0.3	0.3	5.1	11.3	24.6	32.5	41.6	66.2
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.4	0.6	0.8	0.9	0.9	1.1
Structure Controlling Flow =	Plate	Plate	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	0.2	0.6	1.2	1.6	2.1	2.1
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	44	64	66	66	64	60	58	55	50
Time to Drain 99% of Inflow Volume (hours) =	**47**	69	72	74	72	71	69	68	65
Maximum Ponding Depth (ft) =	2.52	4.37	4.38	4.90	5.11	5.44	5.61	5.83	6.14
Area at Maximum Ponding Depth (acres) =	0.20	0.37	0.37	0.43	0.46	0.51	0.53	0.56	0.59
Maximum Volume Stored (acre-ft) =	0.327	0.824	0.828	1.036	1.125	1.285	1.374	1.499	1.672

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename: _____

Inflow Hydrographs

The user can override the calculated inflow hydrographs from this workbook with inflow hydrographs developed in a separate program.

	SOURCE	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP
Time Interval	TIME	WQCV [cfs]	EURV [cfs]	2 Year [cfs]	5 Year [cfs]	10 Year [cfs]	25 Year [cfs]	50 Year [cfs]	100 Year [cfs]	500 Year [cfs]
5.00 min	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.02	0.50
	0:15:00	0.00	0.00	1.33	2.19	2.72	1.83	2.27	2.24	3.16
	0:20:00	0.00	0.00	4.55	6.68	8.61	4.41	5.12	5.65	8.64
	0:25:00	0.00	0.00	12.65	21.84	30.00	12.48	15.26	18.06	30.13
	0:30:00	0.00	0.00	18.00	27.91	35.10	42.47	51.51	58.91	80.03
	0:35:00	0.00	0.00	16.18	24.26	30.24	46.84	55.77	67.58	89.65
	0:40:00	0.00	0.00	13.79	20.17	25.25	43.60	51.55	61.77	81.52
	0:45:00	0.00	0.00	10.82	16.20	20.72	37.04	43.78	54.51	71.64
	0:50:00	0.00	0.00	8.52	13.19	16.54	31.71	37.42	46.19	60.70
	0:55:00	0.00	0.00	6.97	10.71	13.91	25.08	29.74	38.17	50.44
	1:00:00	0.00	0.00	5.89	8.89	11.92	20.66	24.64	32.94	43.62
	1:05:00	0.00	0.00	4.93	7.29	10.10	17.30	20.72	28.87	38.21
	1:10:00	0.00	0.00	3.70	5.86	8.46	13.16	15.90	21.31	28.45
	1:15:00	0.00	0.00	2.73	4.54	7.37	9.71	11.89	15.23	20.74
	1:20:00	0.00	0.00	2.17	3.72	6.12	6.92	8.51	10.29	14.20
	1:25:00	0.00	0.00	1.91	3.30	5.00	5.31	6.54	7.24	10.09
	1:30:00	0.00	0.00	1.77	3.04	4.24	4.08	5.03	5.37	7.54
	1:35:00	0.00	0.00	1.70	2.87	3.71	3.29	4.05	4.17	5.88
	1:40:00	0.00	0.00	1.64	2.44	3.34	2.78	3.42	3.36	4.75
	1:45:00	0.00	0.00	1.60	2.14	3.09	2.45	3.01	2.81	3.99
	1:50:00	0.00	0.00	1.57	1.92	2.90	2.23	2.73	2.46	3.50
	1:55:00	0.00	0.00	1.34	1.75	2.63	2.10	2.57	2.31	3.28
	2:00:00	0.00	0.00	1.17	1.59	2.25	2.03	2.47	2.26	3.19
	2:05:00	0.00	0.00	0.83	1.12	1.56	1.42	1.72	1.59	2.23
	2:10:00	0.00	0.00	0.58	0.77	1.08	0.98	1.19	1.10	1.54
	2:15:00	0.00	0.00	0.39	0.52	0.74	0.67	0.81	0.76	1.06
	2:20:00	0.00	0.00	0.26	0.33	0.49	0.45	0.54	0.50	0.70
	2:25:00	0.00	0.00	0.17	0.21	0.31	0.29	0.35	0.33	0.45
	2:30:00	0.00	0.00	0.10	0.14	0.19	0.19	0.22	0.21	0.29
	2:35:00	0.00	0.00	0.05	0.08	0.10	0.10	0.12	0.11	0.16
	2:40:00	0.00	0.00	0.02	0.03	0.04	0.05	0.05	0.05	0.07
	2:45:00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	2:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Summary Stage-Area-Volume-Discharge Relationships

The user can create a summary S-A-V-D by entering the desired stage increments and the remainder of the table will populate automatically.
The user should graphically compare the summary S-A-V-D table to the full S-A-V-D table in the chart to confirm it captures all key transition points.

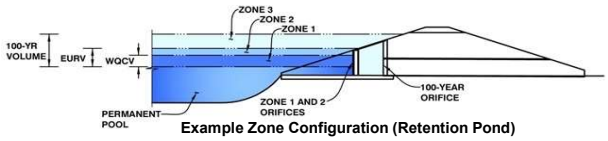
Stage - Storage Description	Stage [ft]	Area [ft^2]	Area [acres]	Volume [ft^3]	Volume [ac-ft]	Total Outflow [cfs]

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East - Early Grading Plan**

Basin ID: **Pond 4 (Future)**



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	**EDB**	
Watershed Area =	21.18	acres
Watershed Length =	1,005	ft
Watershed Length to Centroid =	490	ft
Watershed Slope =	0.045	ft/ft
Watershed Imperviousness =	43.35%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	56.0%	percent
Percentage Hydrologic Soil Groups C/D =	44.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths =	User Input	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides	
Water Quality Capture Volume (WQCV) =	0.333	acre-feet		acre-feet
Excess Urban Runoff Volume (EURV) =	0.921	acre-feet		acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.943	acre-feet	1.19	inches
5-yr Runoff Volume (P1 = 1.5 in.) =	1.386	acre-feet	1.50	inches
10-yr Runoff Volume (P1 = 1.75 in.) =	1.787	acre-feet	1.75	inches
25-yr Runoff Volume (P1 = 2 in.) =	2.297	acre-feet	2.00	inches
50-yr Runoff Volume (P1 = 2.25 in.) =	2.725	acre-feet	2.25	inches
100-yr Runoff Volume (P1 = 2.52 in.) =	3.266	acre-feet	2.52	inches
500-yr Runoff Volume (P1 = 3.14 in.) =	4.364	acre-feet		inches
Approximate 2-yr Detention Volume =	0.735	acre-feet		
Approximate 5-yr Detention Volume =	1.069	acre-feet		
Approximate 10-yr Detention Volume =	1.340	acre-feet		
Approximate 25-yr Detention Volume =	1.477	acre-feet		
Approximate 50-yr Detention Volume =	1.542	acre-feet		
Approximate 100-yr Detention Volume =	1.768	acre-feet		

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.333	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.588	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.847	acre-feet
Total Detention Basin Volume =	1.768	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

Depth Increment = ft

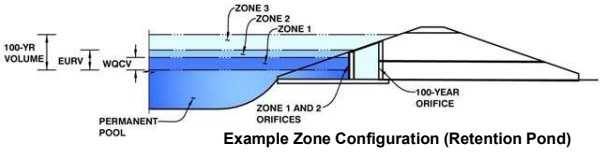
Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	3,275	0.075		
ISV 7262	--	0.67	--	--	--	3,275	0.075	2,194	0.050
7263	--	1.67	--	--	--	7,262	0.167	7,463	0.171
7264	--	2.67	--	--	--	8,942	0.205	15,565	0.357
7265	--	3.67	--	--	--	12,109	0.278	26,090	0.599
7266	--	4.67	--	--	--	17,543	0.403	40,916	0.939
7267	--	5.67	--	--	--	23,582	0.541	61,479	1.411
7268	--	6.67	--	--	--	28,562	0.656	87,551	2.010
7268.7	--	7.37	--	--	--	37,113	0.852	110,537	2.538

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: Monument Ridge East - Early Grading Plan

Basin ID: Pond 4 (Future)



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	2.55	0.333	Orifice Plate
Zone 2 (EURV)	4.63	0.588	Orifice Plate
Zone 3 (100-year)	6.29	0.847	Weir&Pipe (Restrict)
Total (all zones)		1.768	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft^2
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft^2
Depth at top of Zone using Orifice Plate =	4.63	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft^2

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.50	2.50	3.00	3.50			
Orifice Area (sq. inches)	2.10	1.30	1.30	1.30	1.30			

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected			Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A	ft^2
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A	feet
Vertical Orifice Diameter =	N/A	N/A	inches				

Calculated Parameters for Vertical Orifice

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe))

	Zone 3 Weir	Not Selected			Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	4.63	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	4.63	N/A	feet
Overflow Weir Front Edge Length =	5.00	N/A	feet	Overflow Weir Slope Length =	5.00	N/A	feet
Overflow Weir Grate Slope =	0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	6.26	N/A	
Horiz. Length of Weir Sides =	5.00	N/A	feet	Overflow Grate Open Area w/o Debris =	19.78	N/A	ft^2
Overflow Grate Type =	Close Mesh Grate	N/A		Overflow Grate Open Area w/ Debris =	9.89	N/A	ft^2
Debris Clogging % =	50%	N/A	%				

Calculated Parameters for Overflow Weir

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected			Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	1.00	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	3.16	N/A	ft^2
Outlet Pipe Diameter =	36.00	N/A	inches	Outlet Orifice Centroid =	0.80	N/A	feet
Restrictor Plate Height Above Pipe Invert =	16.50		inches	Half-Central Angle of Restrictor Plate on Pipe =	1.49	N/A	radians

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage=	5.85	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.57	feet
Spillway Crest Length =	50.00	feet	Stage at Top of Freeboard =	7.42	feet
Spillway End Slopes =	4.00	H:V	Basin Area at Top of Freeboard =	0.85	acres
Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	2.54	acre-ft

Calculated Parameters for Spillway

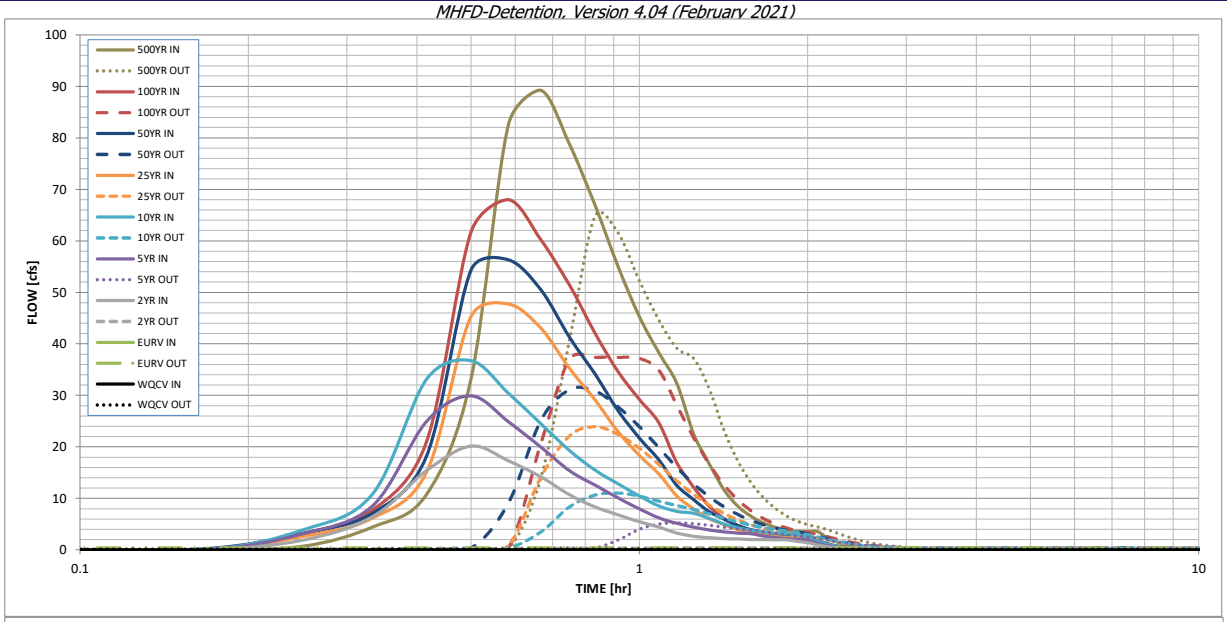
Routed Hydrograph Results

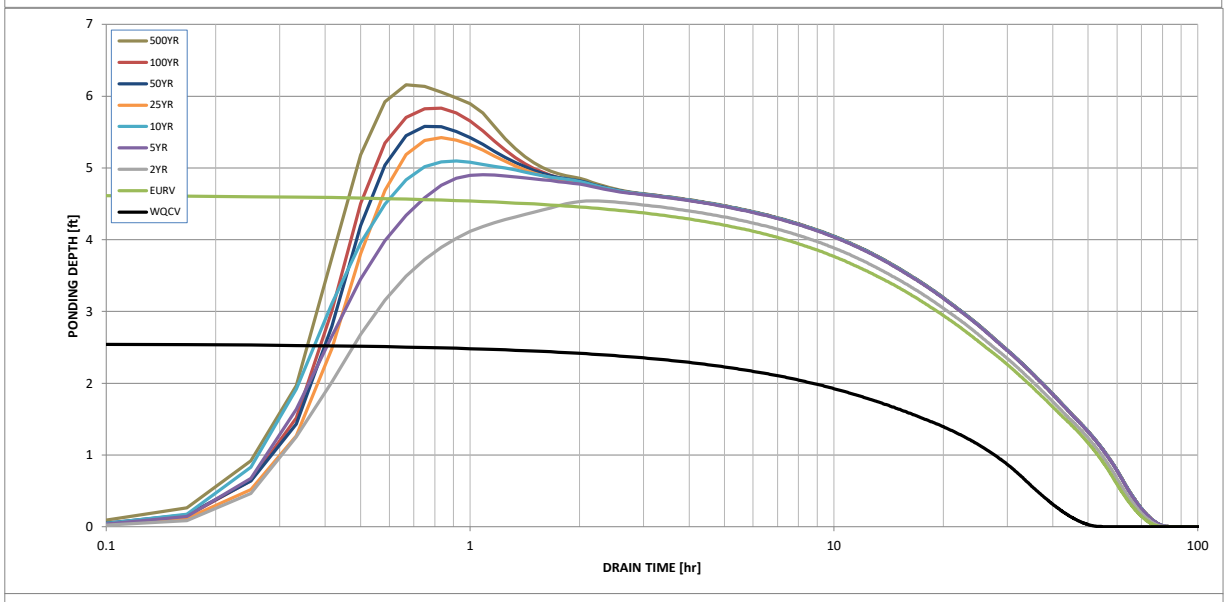
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

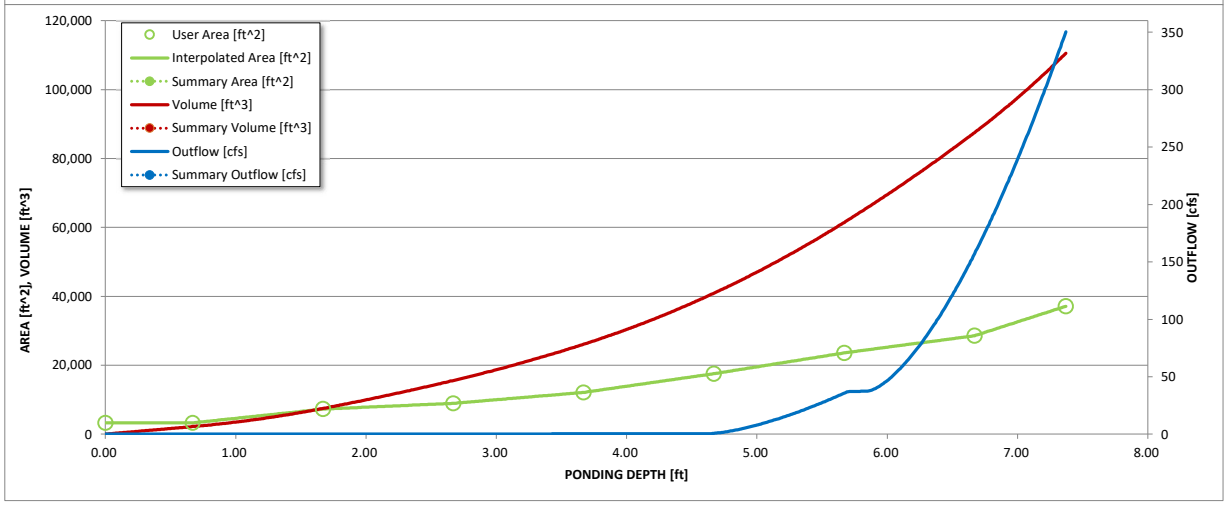
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.333	0.921	0.943	1.386	1.787	2.297	2.725	3.266	4.364
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.943	1.386	1.787	2.297	2.725	3.266	4.364
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	4.9	11.0	16.2	26.0	32.1	39.8	55.3
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.23	0.52	0.76	1.23	1.52	1.88	2.61
Peak Inflow Q (cfs) =	N/A	N/A	20.1	29.9	36.8	47.8	56.3	68.0	89.3
Peak Outflow Q (cfs) =	0.2	0.4	0.4	5.3	11.0	23.9	31.1	37.4	64.8
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.5	0.7	0.9	1.0	0.9	1.2
Structure Controlling Flow =	Plate	Overflow Weir 1	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	N/A	N/A	0.2	0.5	1.2	1.6	1.9	1.9
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	45	64	65	64	61	58	56	53	48
Time to Drain 99% of Inflow Volume (hours) =	**49**	71	72	72	71	69	68	66	63
Maximum Ponding Depth (ft) =	2.56	4.63	4.54	4.91	5.10	5.42	5.58	5.83	6.16
Area at Maximum Ponding Depth (acres) =	0.20	0.40	0.39	0.43	0.46	0.51	0.53	0.56	0.60
Maximum Volume Stored (acre-ft) =	0.335	0.923	0.888	1.036	1.121	1.280	1.358	1.499	1.690

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename: _____

Inflow Hydrographs

The user can override the calculated inflow hydrographs from this workbook with inflow hydrographs developed in a separate program.

	SOURCE	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP
Time Interval	TIME	WQCV [cfs]	EURV [cfs]	2 Year [cfs]	5 Year [cfs]	10 Year [cfs]	25 Year [cfs]	50 Year [cfs]	100 Year [cfs]	500 Year [cfs]
5.00 min	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.02	0.70
	0:15:00	0.00	0.00	1.91	3.13	3.88	2.61	3.21	3.18	4.44
	0:20:00	0.00	0.00	6.43	8.56	10.80	6.15	7.13	7.70	10.79
	0:25:00	0.00	0.00	15.40	24.96	33.15	15.10	18.20	21.01	33.19
	0:30:00	0.00	0.00	20.15	29.87	36.76	45.33	54.32	61.70	82.57
	0:35:00	0.00	0.00	17.29	24.87	30.43	47.76	56.33	67.99	89.26
	0:40:00	0.00	0.00	14.21	19.97	24.51	43.05	50.51	60.23	78.73
	0:45:00	0.00	0.00	10.68	15.37	19.31	35.23	41.30	51.38	66.89
	0:50:00	0.00	0.00	8.31	12.56	15.48	29.12	34.12	42.05	54.94
	0:55:00	0.00	0.00	6.78	10.07	12.80	22.91	26.98	34.57	45.30
	1:00:00	0.00	0.00	5.47	7.96	10.48	18.36	21.71	29.22	38.29
	1:05:00	0.00	0.00	4.40	6.22	8.51	14.76	17.50	24.70	32.34
	1:10:00	0.00	0.00	3.26	5.15	7.46	10.44	12.53	16.93	22.57
	1:15:00	0.00	0.00	2.65	4.43	7.10	7.98	9.76	12.21	16.73
	1:20:00	0.00	0.00	2.35	3.86	6.12	6.07	7.40	8.48	11.69
	1:25:00	0.00	0.00	2.19	3.50	5.02	4.92	5.97	6.11	8.45
	1:30:00	0.00	0.00	2.10	3.27	4.30	3.90	4.72	4.71	6.53
	1:35:00	0.00	0.00	2.03	3.14	3.80	3.26	3.93	3.77	5.21
	1:40:00	0.00	0.00	1.99	2.69	3.48	2.86	3.43	3.16	4.38
	1:45:00	0.00	0.00	1.96	2.38	3.26	2.59	3.10	2.78	3.85
	1:50:00	0.00	0.00	1.95	2.18	3.10	2.45	2.92	2.64	3.64
	1:55:00	0.00	0.00	1.63	2.04	2.86	2.36	2.81	2.58	3.55
	2:00:00	0.00	0.00	1.41	1.89	2.50	2.32	2.76	2.57	3.54
	2:05:00	0.00	0.00	0.94	1.25	1.66	1.54	1.83	1.72	2.36
	2:10:00	0.00	0.00	0.61	0.81	1.08	1.01	1.20	1.13	1.54
	2:15:00	0.00	0.00	0.39	0.51	0.69	0.65	0.77	0.72	0.99
	2:20:00	0.00	0.00	0.24	0.31	0.42	0.40	0.47	0.44	0.60
	2:25:00	0.00	0.00	0.14	0.19	0.25	0.25	0.29	0.27	0.37
	2:30:00	0.00	0.00	0.07	0.10	0.13	0.13	0.16	0.14	0.19
	2:35:00	0.00	0.00	0.03	0.04	0.05	0.05	0.06	0.06	0.07
	2:40:00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	2:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Summary Stage-Area-Volume-Discharge Relationships

The user can create a summary S-A-V-D by entering the desired stage increments and the remainder of the table will populate automatically.
The user should graphically compare the summary S-A-V-D table to the full S-A-V-D table in the chart to confirm it captures all key transition points.

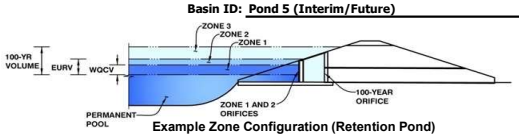
Stage - Storage Description	Stage [ft]	Area [ft^2]	Area [acres]	Volume [ft^3]	Volume [ac-ft]	Total Outflow [cfs]

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East - Early Grading Plan**

Basin ID: **Pond 5 (Interim/Future)**



Example Zone Configuration (Retention Pond)

Watershed Information

Selected BMP Type =	**EDB**		**Note: L / W Ratio < 1**
Watershed Area =	3.21	acres	**L / W Ratio = 0.83**
Watershed Length =	340	ft	
Watershed Length to Centroid =	160	ft	
Watershed Slope =	0.028	ft/ft	
Watershed Imperviousness =	48.40%	percent	
Percentage Hydrologic Soil Group A =	0.0%	percent	
Percentage Hydrologic Soil Group B =	100.0%	percent	
Percentage Hydrologic Soil Groups C/D =	0.0%	percent	
Target WQCV Drain Time =	40.0	hours	
Location for 1-hr Rainfall Depths =	User Input		

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

			Optional User Overrides
Water Quality Capture Volume (WQCV) =	0.054	acre-feet	acre-feet
Excess Urban Runoff Volume (EURV) =	0.166	acre-feet	acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.146	acre-feet	1.19 inches
5-yr Runoff Volume (P1 = 1.5 in.) =	0.210	acre-feet	1.50 inches
10-yr Runoff Volume (P1 = 1.75 in.) =	0.266	acre-feet	1.75 inches
25-yr Runoff Volume (P1 = 2 in.) =	0.343	acre-feet	2.00 inches
50-yr Runoff Volume (P1 = 2.25 in.) =	0.404	acre-feet	2.25 inches
100-yr Runoff Volume (P1 = 2.52 in.) =	0.483	acre-feet	2.52 inches
500-yr Runoff Volume (P1 = 3.14 in.) =	0.641	acre-feet	inches
Approximate 2-yr Detention Volume =	0.125	acre-feet	
Approximate 5-yr Detention Volume =	0.171	acre-feet	
Approximate 10-yr Detention Volume =	0.228	acre-feet	
Approximate 25-yr Detention Volume =	0.250	acre-feet	
Approximate 50-yr Detention Volume =	0.262	acre-feet	
Approximate 100-yr Detention Volume =	0.293	acre-feet	

Define Zones and Basin Geometry

Zone 1 Volume (WQCV) =	0.054	acre-feet
Zone 2 Volume (EURV - Zone 1) =	0.112	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	0.128	acre-feet
Total Detention Basin Volume =	0.293	acre-feet
Initial Surcharge Volume (ISV) =	user	ft^3
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H_{total}) =	user	ft
Depth of Trickle Channel (H_{TC}) =	user	ft
Slope of Trickle Channel (S_{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S_{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

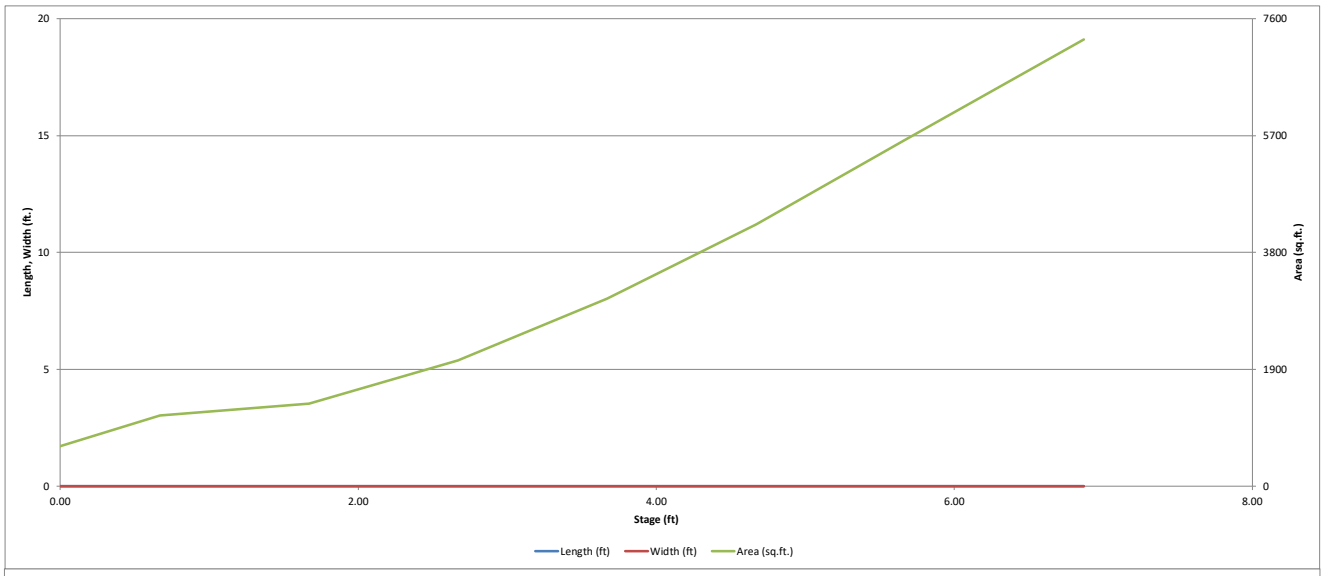
Initial Surcharge Area (A_{ISV}) =	user	ft^2
Surcharge Volume Length (L_{ISV}) =	user	ft
Surcharge Volume Width (W_{ISV}) =	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor (L_{FLOOR}) =	user	ft
Width of Basin Floor (W_{FLOOR}) =	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft^2
Volume of Basin Floor (V_{FLOOR}) =	user	ft^3
Depth of Main Basin (H_{MAIN}) =	user	ft
Length of Main Basin (L_{MAIN}) =	user	ft
Width of Main Basin (W_{MAIN}) =	user	ft
Area of Main Basin (A_{MAIN}) =	user	ft^2
Volume of Main Basin (V_{MAIN}) =	user	ft^3
Calculated Total Basin Volume (V_{total}) =	**user**	acre-feet

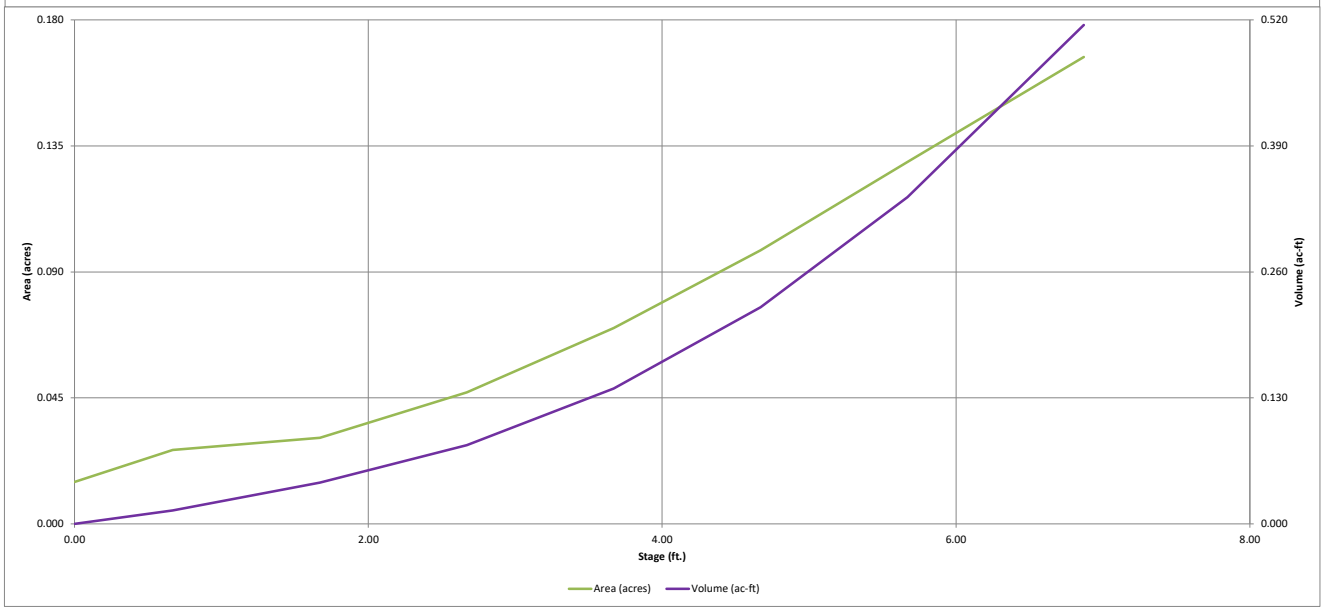
Depth Increment = ft

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft^2)	Optional Override Area (ft^2)	Area (acre)	Volume (ft^3)	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	650	0.015		
ISV 7270	--	0.67	--	--	--	1,151	0.026	603	0.014
7271	--	1.67	--	--	--	1,340	0.031	1,849	0.042
7272	--	2.67	--	--	--	2,044	0.047	3,541	0.081
7273	--	3.67	--	--	--	3,047	0.070	6,086	0.140
7274	--	4.67	--	--	--	4,256	0.098	9,738	0.224
7275	--	5.67	--	--	--	5,630	0.129	14,681	0.337
7276.2	--	6.87	--	--	--	7,263	0.167	22,417	0.515

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.04 (February 2021)





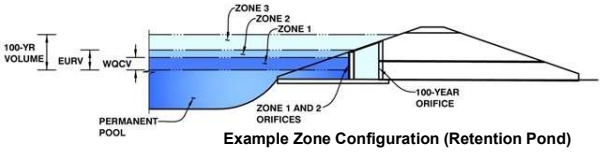
Please QC the details for this pond compared to the calcs in the FDR like I did for the other 3 ponds. There were many discrepancies with the other pond details vs calcs.

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Project: **Monument Ridge East - Early Grading Plan**

Basin ID: **Pond 5 (Interim/Future)**



Example Zone Configuration (Retention Pond)

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	2.02	0.054	Orifice Plate
Zone 2 (EURV)	4.02	0.112	Orifice Plate
Zone 3 (100-year)	5.32	0.128	Weir&Pipe (Restrict)
Total (all zones)		0.293	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)	Underdrain Orifice Area =	N/A	ft^2
Underdrain Orifice Diameter =	N/A	inches	Underdrain Orifice Centroid =	N/A	feet

Calculated Parameters for Underdrain

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)	WQ Orifice Area per Row =	N/A	ft^2
Depth at top of Zone using Orifice Plate =	4.02	ft (relative to basin bottom at Stage = 0 ft)	Elliptical Half-Width =	N/A	feet
Orifice Plate: Orifice Vertical Spacing =	N/A	inches	Elliptical Slot Centroid =	N/A	feet
Orifice Plate: Orifice Area per Row =	N/A	inches	Elliptical Slot Area =	N/A	ft^2

Calculated Parameters for Plate

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.00	2.00	3.00				
Orifice Area (sq. inches)	0.42	0.28	0.28	0.28				

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected				Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Area =	N/A	N/A	ft^2
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)	Vertical Orifice Centroid =	N/A	N/A	feet
Vertical Orifice Diameter =	N/A	N/A	inches				

Calculated Parameters for Vertical Orifice

User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir (and No Outlet Pipe))

	Zone 3 Weir	Not Selected				Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	4.02	N/A	ft (relative to basin bottom at Stage = 0 ft)	Height of Grate Upper Edge, H_t =	4.02	N/A	feet
Overflow Weir Front Edge Length =	5.00	N/A	feet	Overflow Weir Slope Length =	5.00	N/A	feet
Overflow Weir Grate Slope =	0.00	N/A	H:V	Grate Open Area / 100-yr Orifice Area =	45.52	N/A	
Horiz. Length of Weir Sides =	5.00	N/A	feet	Overflow Grate Open Area w/o Debris =	19.78	N/A	ft^2
Overflow Grate Type =	Close Mesh Grate	N/A		Overflow Grate Open Area w/ Debris =	9.89	N/A	ft^2
Debris Clogging % =	50%	N/A	%				

Calculated Parameters for Overflow Weir

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 3 Restrictor	Not Selected				Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	2.50	N/A	ft (distance below basin bottom at Stage = 0 ft)	Outlet Orifice Area =	0.43	N/A	ft^2
Outlet Pipe Diameter =	18.00	N/A	inches	Outlet Orifice Centroid =	0.26	N/A	feet
Restrictor Plate Height Above Pipe Invert =	5.30		inches	Half-Central Angle of Restrictor Plate on Pipe =	1.15	N/A	radians

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage=	4.70	ft (relative to basin bottom at Stage = 0 ft)	Spillway Design Flow Depth=	0.64	feet
Spillway Crest Length =	5.00	feet	Stage at Top of Freeboard =	6.34	feet
Spillway End Slopes =	4.00	H:V	Basin Area at Top of Freeboard =	0.15	acres
Freeboard above Max Water Surface =	1.00	feet	Basin Volume at Top of Freeboard =	0.43	acre-ft

Calculated Parameters for Spillway

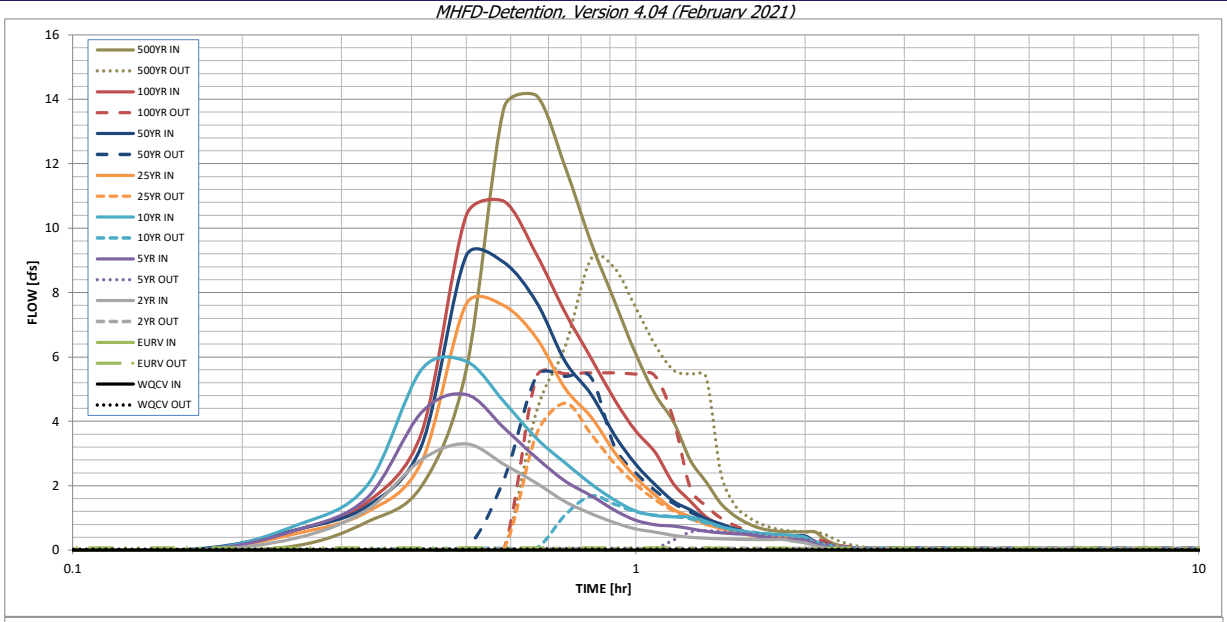
Routed Hydrograph Results

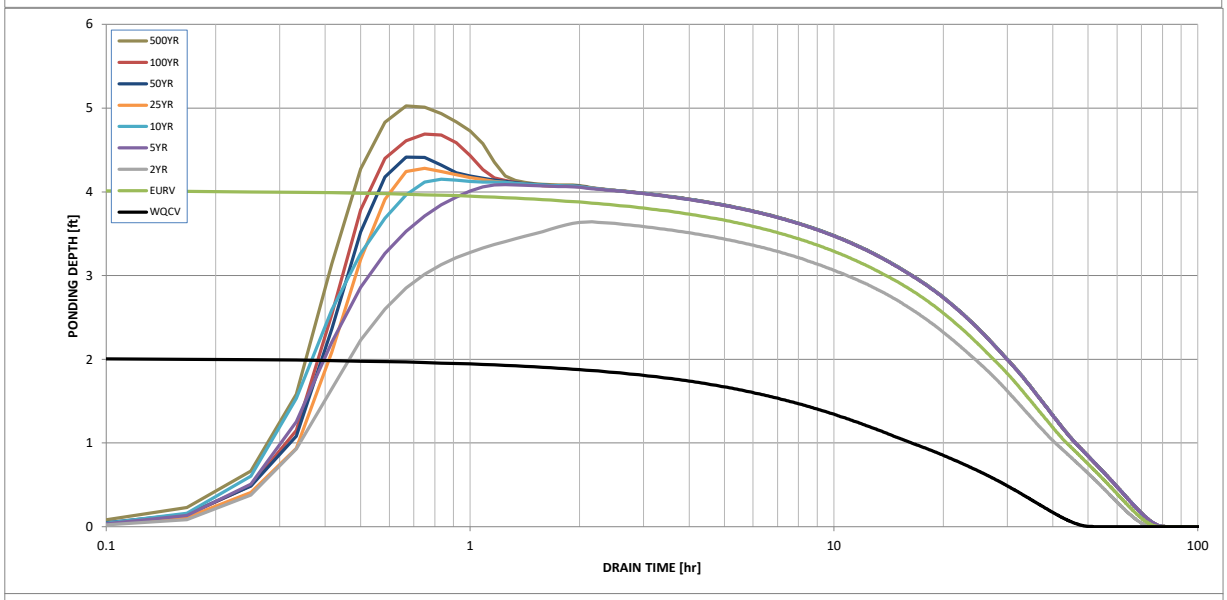
The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

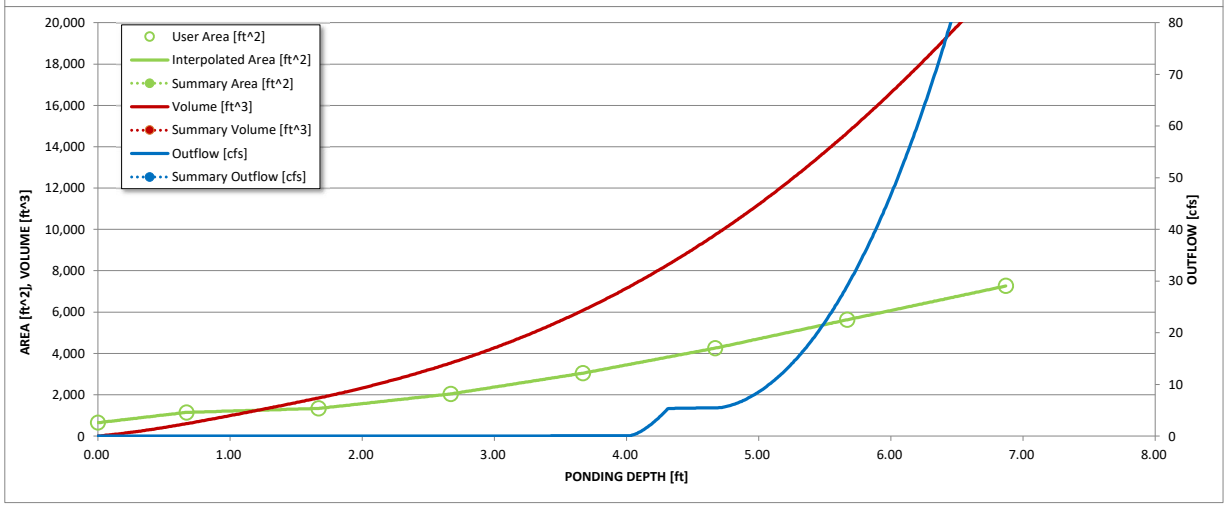
Design Storm Return Period =	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	0.054	0.166	0.146	0.210	0.266	0.343	0.404	0.483	0.641
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.146	0.210	0.266	0.343	0.404	0.483	0.641
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.6	1.5	2.3	3.9	4.8	6.1	8.5
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.17	0.47	0.72	1.21	1.50	1.89	2.63
Peak Inflow Q (cfs) =	N/A	N/A	3.3	4.8	5.9	7.6	9.1	10.8	14.1
Peak Outflow Q (cfs) =	0.0	0.1	0.1	0.6	1.7	4.6	5.4	5.5	9.1
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.4	0.7	1.2	1.1	0.9	1.1
Structure Controlling Flow =	Plate	Overflow Weir 1	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	0.00	N/A	0.0	0.1	0.2	0.3	0.3	0.3
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	43	63	61	64	62	59	57	54	49
Time to Drain 99% of Inflow Volume (hours) =	**46**	70	68	71	70	69	67	66	64
Maximum Ponding Depth (ft) =	2.02	4.03	3.64	4.08	4.15	4.28	4.41	4.69	5.03
Area at Maximum Ponding Depth (acres) =	0.04	0.08	0.07	0.08	0.08	0.09	0.09	0.10	0.11
Maximum Volume Stored (acre-ft) =	0.054	0.167	0.138	0.171	0.176	0.188	0.199	0.226	0.260

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)







S-A-V-D Chart Axis Override	X-axis	Left Y-Axis	Right Y-Axis
minimum bound			
maximum bound			

DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename: _____

Inflow Hydrographs

The user can override the calculated inflow hydrographs from this workbook with inflow hydrographs developed in a separate program.

	SOURCE	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP
Time Interval	TIME	WQCV [cfs]	EURV [cfs]	2 Year [cfs]	5 Year [cfs]	10 Year [cfs]	25 Year [cfs]	50 Year [cfs]	100 Year [cfs]	500 Year [cfs]
5.00 min	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.14
	0:15:00	0.00	0.00	0.38	0.62	0.77	0.52	0.64	0.63	0.87
	0:20:00	0.00	0.00	1.26	1.62	2.01	1.19	1.37	1.48	1.99
	0:25:00	0.00	0.00	2.81	4.28	5.62	2.75	3.26	3.66	5.61
	0:30:00	0.00	0.00	3.30	4.83	5.86	7.64	9.14	10.39	13.74
	0:35:00	0.00	0.00	2.67	3.80	4.61	7.59	8.93	10.84	14.11
	0:40:00	0.00	0.00	2.08	2.86	3.47	6.58	7.69	9.18	11.88
	0:45:00	0.00	0.00	1.50	2.14	2.70	5.01	5.85	7.36	9.55
	0:50:00	0.00	0.00	1.14	1.69	2.05	4.14	4.84	5.96	7.74
	0:55:00	0.00	0.00	0.85	1.24	1.56	3.05	3.58	4.68	6.09
	1:00:00	0.00	0.00	0.66	0.93	1.21	2.26	2.67	3.70	4.83
	1:05:00	0.00	0.00	0.56	0.79	1.08	1.70	2.03	3.03	4.00
	1:10:00	0.00	0.00	0.46	0.74	1.04	1.27	1.53	2.06	2.79
	1:15:00	0.00	0.00	0.40	0.67	1.03	1.03	1.26	1.53	2.12
	1:20:00	0.00	0.00	0.37	0.59	0.89	0.81	0.97	1.04	1.44
	1:25:00	0.00	0.00	0.35	0.54	0.73	0.68	0.82	0.77	1.07
	1:30:00	0.00	0.00	0.34	0.51	0.62	0.55	0.65	0.60	0.82
	1:35:00	0.00	0.00	0.33	0.49	0.56	0.48	0.56	0.49	0.68
	1:40:00	0.00	0.00	0.33	0.42	0.52	0.43	0.50	0.44	0.60
	1:45:00	0.00	0.00	0.33	0.37	0.49	0.41	0.47	0.42	0.58
	1:50:00	0.00	0.00	0.33	0.34	0.48	0.39	0.45	0.42	0.57
	1:55:00	0.00	0.00	0.27	0.33	0.45	0.39	0.44	0.42	0.57
	2:00:00	0.00	0.00	0.23	0.30	0.40	0.39	0.44	0.42	0.57
	2:05:00	0.00	0.00	0.14	0.18	0.24	0.23	0.27	0.25	0.34
	2:10:00	0.00	0.00	0.08	0.11	0.14	0.14	0.16	0.15	0.21
	2:15:00	0.00	0.00	0.04	0.06	0.08	0.08	0.09	0.09	0.12
	2:20:00	0.00	0.00	0.02	0.03	0.04	0.05	0.05	0.05	0.07
	2:25:00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.03
	2:30:00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
	2:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.04 (February 2021)

Summary Stage-Area-Volume-Discharge Relationships

The user can create a summary S-A-V-D by entering the desired stage increments and the remainder of the table will populate automatically.
The user should graphically compare the summary S-A-V-D table to the full S-A-V-D table in the chart to confirm it captures all key transition points.

Stage - Storage Description	Stage [ft]	Area [ft^2]	Area [acres]	Volume [ft^3]	Volume [ac-ft]	Total Outflow [cfs]

None of your values for pond cost estimates are consistent. This value is $655k, the values from the next 4 pages added up at $786k, and the value for PCMs on the FAE Form is $700k. Please revise to make all of these values consistent or write up an explanation as to why they are not.

This may be an error in excel, because if you add these two values together, you get the exact value ($700,313) inputted in the FAE Form.

STORMWATER INFRASTRUCTURE - COST ESTIMATE

5/10/2026

Item Description	Quantity	Unit	Unit Price	Extended Price
Permanent Control Measure - Earthwork				
5,001-20,000; $30,000 min	6,968	Cubic Yards	$ 6.50	$ 45,292.00
Permanent Control Measure - Features				
Aggregate Base (135#/CF)	788	Tons	$ 45.00	$ 35,460.00
Forebay (Concrete)	7	Each	$ 4,000.00	$ 28,000.00
Outlet Structure (w/micropool)	4	Each	$ 15,000.00	$ 60,000.00
Retaining Wall	4,358	Square Foot	$ 55.00	$ 239,690.00
Soil Riprap	355	Cubic Yards	$ 102.00	$ 36,210.00
Trickle Channel	558	Linear Foot	$ 83.00	$ 46,314.00
18" Pipe	44	Linear Foot	$ 111.00	$ 4,884.00
24" Pipe	112	Linear Foot	$ 161.00	$ 18,032.00
30" Pipe	366	Linear Foot	$ 167.00	$ 61,122.00
36" Pipe	72	Linear Foot	$ 191.00	$ 13,752.00
42" Pipe	120	Linear Foot	$ 275.00	$ 33,000.00
Manhole, Type 1	1	Each	$ 18,950.00	$ 18,950.00
Manhole, Type 2	1	Each	$ 9,315.00	$ 9,315.00
Pipe End Section	2	Each	$ 2,500.00	$ 5,000.00
		PCM (Earthwork and Features) sub-total		$ 655,021.00
(Refer to individual pond estimates for breakdown)				
System Features				
18" Pipe	357	Linear Foot	$ 111.00	$ 39,627.00
24" Pipe	773	Linear Foot	$ 161.00	$ 124,453.00
30" Pipe	948	Linear Foot	$ 167.00	$ 158,316.00
36" Pipe	945	Linear Foot	$ 191.00	$ 180,495.00
42" Pipe	402	Linear Foot	$ 275.00	$ 110,550.00
48" Pipe	142	Linear Foot	$ 349.00	$ 49,558.00
54" Pipe	1,205	Linear Foot	$ 465.00	$ 560,325.00
78" Pipe	600	Linear Foot	$ 728.00	$ 436,800.00
Pipe End Section	10	Each	$ 3,500.00	$ 35,000.00
Curb Inlet (Type D-10-R) L=4'	2	Each	$ 6,500.00	$ 13,000.00
Curb Inlet (Type D-10-R) L=8'	2	Each	$ 11,500.00	$ 23,000.00
Curb Inlet (Type D-10-R) L=10'	1	Each	$ 12,500.00	$ 12,500.00
Curb Inlet (Type D-10-R) L=12'	7	Each	$ 14,000.00	$ 98,000.00
Curb Inlet (Type D-10-R) L=16'	3	Each	$ 16,250.00	$ 48,750.00
Manhole, Type 1	12	Each	$ 18,950.00	$ 227,400.00
Manhole, Type 2	19	Each	$ 9,315.00	$ 176,985.00
Rip Rap, d50 size from 6" to 24"	587	Tons	$ 102.00	$ 59,874.00
Drainage Channel Lining, Concrete - Collection Structure	38	Cubic Yards	$ 815.00	$ 30,970.00
Grated Inlet (Triple CDOT Type D) - Collection Structure	1	Each	$ 35,000.00	$ 35,000.00
			System Features Sub-total	$ 2,658,629.00
			Total	**$ 3,313,650.00**
			20% Contingency	**$ 662,730.00**
			GRAND TOTAL	**$ 3,976,380.00**

Per my note in the upper right corner, this $655k value appears to not include the $45k in earthwork like I think you intended.

Similar to my comment on the upper left corner of the previous page, did you mean for the earthwork to be included in the total on all of the individual pond cost sheets?

STORMWATER INFRASTRUCTURE - COST ESTIMATE
POND FACILITY NO. 1

5/6/2026

Item Description	Quantity	Unit	Unit Price	Extended Price
Permanent Control Measure - Earthwork				
5,000-20,000 (unit price per PCM total)	2,275	Cubic Yards	$ 6.50	$ 14,787.50
Permanent Control Measure - Features				
Aggregate Base (135#/CF)	406	Tons	$ 45.00	$ 18,270.00
Forebay (Concrete)	2	Each	$ 4,000.00	$ 8,000.00
Outlet Structure (w/micropool)	1	Each	$ 15,000.00	$ 15,000.00
Retaining Wall	3,670	Square Foot	$ 55.00	$ 201,850.00
Soil Riprap	155	Cubic Yards	$ 102.00	$ 15,810.00
Trickle Channel	134	Linear Foot	$ 83.00	$ 11,122.00
System Features				
24" Pipe	52	Linear Foot	$ 161.00	$ 8,372.00
30" Pipe	14	Linear Foot	$ 167.00	$ 2,338.00
42" Pipe	65	Linear Foot	$ 275.00	$ 17,875.00
Manhole, Type 1	1	Each	$ 18,950.00	$ 18,950.00
Manhole, Type 2	1	Each	$ 9,315.00	$ 9,315.00
			Sub-total	**$ 341,689.50**
			20% Contingency	**$ 68,337.90**
			TOTAL	**$ 410,027.40**

STORMWATER INFRASTRUCTURE - COST ESTIMATE
POND FACILITY NO. 2

12/29/2025

Item Description	Quantity	Unit	Unit Price	Extended Price
Permanent Control Measure - Earthwork				
5,000 to 20,000 (Unit price from PCM total)	1,884	Cubic Yards	$ 6.50	$ 12,246.00
Permanent Control Measure - Features				
Aggregate Base (135#/CF)	382	Tons	$ 45.00	$ 17,190.00
Forebay (Concrete)	1	Each	$ 4,000.00	$ 4,000.00
Outlet Structure (w/micropool)	1	Each	$ 15,000.00	$ 15,000.00
Soil Riprap	63	Cubic Yards	$ 102.00	$ 6,426.00
Trickle Channel	147	Linear Foot	$ 83.00	$ 12,201.00
System Features				
24" Pipe	35	Linear Foot	$ 161.00	$ 5,635.00
42" Pipe	55	Linear Foot	$ 275.00	$ 15,125.00
			Sub-total	**$ 87,823.00**
			20% Contingency	**$ 17,564.60**
			TOTAL	**$ 105,387.60**

STORMWATER INFRASTRUCTURE - COST ESTIMATE
POND FACILITY NO. 4

5/10/2026

Item Description	Quantity	Unit	Unit Price	Extended Price
Permanent Control Measure - Earthwork				
5,000 to 20,000 (unit price from PCM total)	2,419	Cubic Yards	$ 6.50	$ 15,723.50
Permanent Control Measure - Features				
Forebay (Concrete)	3	Each	$ 4,000.00	$ 12,000.00
Outlet Structure (w/micropool)	1	Each	$ 15,000.00	$ 15,000.00
Soil Riprap	106	Cubic Yards	$ 102.00	$ 10,812.00
Trickle Channel	254	Linear Foot	$ 83.00	$ 21,082.00
System Features				
18" Pipe	22	Linear Foot	$ 111.00	$ 2,442.00
30" Pipe	352	Linear Foot	$ 167.00	$ 58,784.00
36" Pipe	72	Linear Foot	$ 191.00	$ 13,752.00
Pipe End Section	2	Each	$ 2,500.00	$ 5,000.00
			Sub-total	**$ 154,595.50**
			20% Contingency	**$ 30,919.10**
			TOTAL	**$ 185,514.60**

STORMWATER INFRASTRUCTURE - COST ESTIMATE
POND FACILITY NO. 5

5/6/2026

Item Description	Quantity	Unit	Unit Price	Extended Price
Permanent Control Measure - Earthwork				
5,000 to 20,000 (Unit price per PCM total)	390	Cubic Yards	$ 6.50	$ 2,535.00
Permanent Control Measure - Features				
Forebay (Concrete)	1	Each	$ 4,000.00	$ 4,000.00
Outlet Structure (w/micropool)	1	Each	$ 15,000.00	$ 15,000.00
Retaining Wall	688	Square Foot	$ 55.00	$ 37,840.00
Soil Riprap	31	Cubic Yards	$ 102.00	$ 3,162.00
Trickle Channel	23	Linear Foot	$ 83.00	$ 1,909.00
System Features				
18" Pipe	22	Linear Foot	$ 111.00	$ 2,442.00
24" Pipe	25	Linear Foot	$ 161.00	$ 4,025.00
			Sub-total	**$ 70,913.00**
			20% Contingency	**$ 14,182.60**
			TOTAL	**$ 85,095.60**

```
[TITLE]
;;Project Title/Notes
MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         DYNWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           05/03/2026
START_TIME           00:00:00
REPORT_START_DATE    05/03/2026
REPORT_START_TIME    00:00:00
END_DATE             05/03/2026
END_TIME             06:00:00
SWEEP_START          1/1
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:15:00
WET_STEP             00:05:00
DRY_STEP             01:00:00
ROUTING_STEP         0:00:20
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
MAX_TRIALS           0
HEAD_TOLERANCE       0
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
CONSTANT         0.0
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
```

```
;;-------------- --------- ------ ------ ----------
RG               CUMULATIVE 0:05     1.0      TIMESERIES 100-YEAR

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope
  CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- --------
-------- -------- ----------------
E1               RG               BALD_MTN_DETENTION 31.89    4.7      1587     2.81
    0
E2               RG               BALD_MTN_DETENTION 1.36     59.0     399      5.68
    0
E3               RG               BALD_MTN_DETENTION 60.16    39.4     1928     4.89
    0
E4               RG               EX-WETLAND       65.57    30.4     2121     5.52
  0
E5               RG               EX-WETLAND       17.47    34.4     1800     0.93
  0
E6               RG               EX-WETLAND       1.38     57.9     243      8.20
  0
E7               RG               EX-WETLAND       41.48    5.5      1887     2.93
  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo
PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ----------
----------
E1               0.01       0.1        0.05       0.05       25         OUTLET
E2               0.01       0.1        0.05       0.05       25         OUTLET
E3               0.01       0.1        0.05       0.05       25         OUTLET
E4               0.01       0.1        0.05       0.05       25         OUTLET
E5               0.01       0.1        0.05       0.05       25         OUTLET
E6               0.01       0.1        0.05       0.05       25         OUTLET
E7               0.01       0.1        0.05       0.05       25         OUTLET

[INFILTRATION]
;;Subcatchment   Param1     Param2     Param3     Param4     Param5
;;-------------- ---------- ---------- ---------- ---------- ----------
E1               4.5        .6         6.48       7          0
E2               4.5        .6         6.48       7          0
E3               4.5        .6         6.48       7          0
E4               4.5        .6         6.48       7          0
E5               4.5        .6         6.48       7          0
E6               3.0        0.5        6.48       7          0
E7               3.0        0.5        6.48       7          0

[JUNCTIONS]
;;Name           Elevation  MaxDepth   InitDepth  SurDepth   Aponded
;;-------------- ---------- ---------- ---------- ---------- ----------
```

```
2                7289.3     5.7        0          0          0
3                7289       9          0          0          0

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
SITE_OUTFALL     7254.51    FREE                        NO
CTY_LN_RD_OVERTOPPING 0          FREE                        NO


[STORAGE]
;;Name           Elev.    MaxDepth   InitDepth  Shape      Curve Type/Params
   SurDepth  Fevap    Psi      Ksat     IMD
;;-------------- -------- ---------- ----------- ----------
---------------------------- --------- --------          -------- --------
BALD_MTN_DETENTION 7291     5.7        0          FUNCTIONAL 0          0
10000    0         0
EX-WETLAND       7256.98  8.44       0          FUNCTIONAL 0          0
10000    0         0

[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset
OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ----------
---------- ---------- ----------
CNTY_LN_CULV     EX-WETLAND       SITE_OUTFALL     189.79     .013       0
0          0          0
1                BALD_MTN_DETENTION 2                14         .013       0
 .8         0          0
2                2                3                22         .013       0
0          0          0
3                3                EX-WETLAND       485        .013       0
0          0          0

[ORIFICES]
;;Name           From Node        To Node          Type         Offset     Qcoeff
 Gated    CloseTime
;;-------------- ---------------- ---------------- ------------ ----------
---------- -------- ----------
BLD_MTN_GRATE    BALD_MTN_DETENTION 2                BOTTOM       5          0.65
   NO       0

[WEIRS]
;;Name           From Node        To Node          Type         CrestHt    Qcoeff
 Gated    EndCon   EndCoeff   Surcharge  RoadWidth  RoadSurf   Coeff. Curve
;;-------------- ---------------- ---------------- ------------ ----------
---------- -------- -------- ---------- ---------- ---------- ----------
----------------
CTY_LN_RD        EX-WETLAND       CTY_LN_RD_OVERTOPPING ROADWAY      6.44       3.33
      NO       0        0          YES        0          PAVED
```

```
[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4
Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ----------
---------- ----------
CNTY_LN_CULV     CIRCULAR     4                0          0          0          1

1                CIRCULAR     3                0          0          0          1

2                CIRCULAR     4.5              0          0          0          1

3                TRIANGULAR   3                200        0          0          1

BLD_MTN_GRATE    RECT_CLOSED  4                7          0          0
CTY_LN_RD        RECT_OPEN    2                200        20         20

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BALD_MTN_DET     Storage    0          2000
BALD_MTN_DET                1          21089
BALD_MTN_DET                3          197908
BALD_MTN_DET                5          487608
BALD_MTN_DET                5.7        634609
;
EX_WETLAND       Storage    0          2055
EX_WETLAND                  2          11240
EX_WETLAND                  4          29650
EX_WETLAND                  6          48392
EX_WETLAND                  7          58009

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
EURV                        0          0
EURV                        0:05       0.015
EURV                        0:10       0.049
EURV                        0:15       0.085
EURV                        0:20       0.128
EURV                        0:25       0.192
EURV                        0:30       0.276
EURV                        0:35       0.450
EURV                        0:40       0.762
EURV                        0:45       0.882
EURV                        0:50       0.954
EURV                        0:55       1.000
EURV                        1:00       1.040
EURV                        1:05       1.074
EURV                        1:10       1.089
```

```
EURV                    1:15        1.102
EURV                    1:20        1.114
EURV                    1:25        1.126
EURV                    1:30        1.137
EURV                    1:35        1.147
EURV                    1:40        1.158
EURV                    1:45        1.167
EURV                    1:50        1.177
EURV                    1:55        1.187
EURV                    2:00        1.197
;
WQCV                    0           0
WQCV                    0:05        0.006
WQCV                    0:10        0.020
WQCV                    0:15        0.034
WQCV                    0:20        0.052
WQCV                    0:25        0.077
WQCV                    0:30        0.111
WQCV                    0:35        0.181
WQCV                    0:40        0.306
WQCV                    0:45        0.354
WQCV                    0:50        0.384
WQCV                    0:55        0.402
WQCV                    1:00        0.418
WQCV                    1:05        0.432
WQCV                    1:10        0.438
WQCV                    1:15        0.443
WQCV                    1:20        0.448
WQCV                    1:25        0.452
WQCV                    1:30        0.457
WQCV                    1:35        0.461
WQCV                    1:40        0.465
WQCV                    1:45        0.469
WQCV                    1:50        0.473
WQCV                    1:55        0.477
WQCV                    2:00        0.481
;
2-YEAR                  0           0
2-YEAR                  0:05        0.017
2-YEAR                  0:10        0.055
2-YEAR                  0:15        0.094
2-YEAR                  0:20        0.143
2-YEAR                  0:25        0.213
2-YEAR                  0:30        0.307
2-YEAR                  0:35        0.501
2-YEAR                  0:40        0.847
2-YEAR                  0:45        0.981
2-YEAR                  0:50        1.061
2-YEAR                  0:55        1.113
2-YEAR                  1:00        1.157
```

```
2-YEAR                  1:05        1.195
2-YEAR                  1:10        1.211
2-YEAR                  1:15        1.226
2-YEAR                  1:20        1.239
2-YEAR                  1:25        1.252
2-YEAR                  1:30        1.265
2-YEAR                  1:35        1.276
2-YEAR                  1:40        1.288
2-YEAR                  1:45        1.298
2-YEAR                  1:50        1.309
2-YEAR                  1:55        1.320
2-YEAR                  2:00        1.332
;
5-YEAR                  0           0
5-YEAR                  0:05        0.021
5-YEAR                  0:10        0.069
5-YEAR                  0:15        0.119
5-YEAR                  0:20        0.180
5-YEAR                  0:25        0.269
5-YEAR                  0:30        0.387
5-YEAR                  0:35        0.632
5-YEAR                  0:40        1.068
5-YEAR                  0:45        1.236
5-YEAR                  0:50        1.338
5-YEAR                  0:55        1.403
5-YEAR                  1:00        1.458
5-YEAR                  1:05        1.506
5-YEAR                  1:10        1.527
5-YEAR                  1:15        1.545
5-YEAR                  1:20        1.562
5-YEAR                  1:25        1.578
5-YEAR                  1:30        1.595
5-YEAR                  1:35        1.608
5-YEAR                  1:40        1.623
5-YEAR                  1:45        1.637
5-YEAR                  1:50        1.650
5-YEAR                  1:55        1.664
5-YEAR                  2:00        1.679
;
10-YEAR                 0           0
10-YEAR                 0:05        0.025
10-YEAR                 0:10        0.081
10-YEAR                 0:15        0.138
10-YEAR                 0:20        0.210
10-YEAR                 0:25        0.313
10-YEAR                 0:30        0.452
10-YEAR                 0:35        0.737
10-YEAR                 0:40        1.246
10-YEAR                 0:45        1.442
10-YEAR                 0:50        1.561
```

```
10-YEAR                 0:55       1.636
10-YEAR                 1:00       1.701
10-YEAR                 1:05       1.757
10-YEAR                 1:10       1.782
10-YEAR                 1:15       1.803
10-YEAR                 1:20       1.822
10-YEAR                 1:25       1.841
10-YEAR                 1:30       1.860
10-YEAR                 1:35       1.876
10-YEAR                 1:40       1.894
10-YEAR                 1:45       1.909
10-YEAR                 1:50       1.925
10-YEAR                 1:55       1.941
10-YEAR                 2:00       1.958
;
25-YEAR                 0          0
25-YEAR                 0:05       0.028
25-YEAR                 0:10       0.092
25-YEAR                 0:15       0.158
25-YEAR                 0:20       0.240
25-YEAR                 0:25       0.358
25-YEAR                 0:30       0.516
25-YEAR                 0:35       0.842
25-YEAR                 0:40       1.424
25-YEAR                 0:45       1.648
25-YEAR                 0:50       1.784
25-YEAR                 0:55       1.870
25-YEAR                 1:00       1.944
25-YEAR                 1:05       2.008
25-YEAR                 1:10       2.036
25-YEAR                 1:15       2.060
25-YEAR                 1:20       2.082
25-YEAR                 1:25       2.104
25-YEAR                 1:30       2.126
25-YEAR                 1:35       2.144
25-YEAR                 1:40       2.164
25-YEAR                 1:45       2.182
25-YEAR                 1:50       2.200
25-YEAR                 1:55       2.218
25-YEAR                 2:00       2.238
;
50-YEAR                 0          0
50-YEAR                 0:05       0.032
50-YEAR                 0:10       0.104
50-YEAR                 0:15       0.178
50-YEAR                 0:20       0.270
50-YEAR                 0:25       0.403
50-YEAR                 0:30       0.581
50-YEAR                 0:35       0.947
50-YEAR                 0:40       1.602
```

```
50-YEAR                 0:45       1.854
50-YEAR                 0:50       2.007
50-YEAR                 0:55       2.104
50-YEAR                 1:00       2.187
50-YEAR                 1:05       2.259
50-YEAR                 1:10       2.291
50-YEAR                 1:15       2.318
50-YEAR                 1:20       2.342
50-YEAR                 1:25       2.367
50-YEAR                 1:30       2.392
50-YEAR                 1:35       2.412
50-YEAR                 1:40       2.435
50-YEAR                 1:45       2.455
50-YEAR                 1:50       2.475
50-YEAR                 1:55       2.495
50-YEAR                 2:00       2.518
;
100-YEAR                0          0
100-YEAR                0:05       0.035
100-YEAR                0:10       0.116
100-YEAR                0:15       0.199
100-YEAR                0:20       0.302
100-YEAR                0:25       0.451
100-YEAR                0:30       0.650
100-YEAR                0:35       1.061
100-YEAR                0:40       1.794
100-YEAR                0:45       2.076
100-YEAR                0:50       2.248
100-YEAR                0:55       2.356
100-YEAR                1:00       2.449
100-YEAR                1:05       2.530
100-YEAR                1:10       2.565
100-YEAR                1:15       2.596
100-YEAR                1:20       2.623
100-YEAR                1:25       2.651
100-YEAR                1:30       2.679
100-YEAR                1:35       2.701
100-YEAR                1:40       2.727
100-YEAR                1:45       2.749
100-YEAR                1:50       2.772
100-YEAR                1:55       2.795
100-YEAR                2:00       2.820

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]
```

```
[MAP]
DIMENSIONS -2000.000 0.000 12000.000 10000.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
2                5352.419           6443.925
3                5359.033           6498.252
SITE_OUTFALL     5750.324           9113.481
CTY_LN_RD_OVERTOPPING 5828.137           9108.088
BALD_MTN_DETENTION 5355.853           6369.066
EX-WETLAND       5765.495           8824.043

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
CNTY_LN_CULV     5738.373           8939.630
CNTY_LN_CULV     5743.379           9042.745
BLD_MTN_GRATE    5389.857           6414.458
BLD_MTN_GRATE    5389.385           6439.024
CTY_LN_RD        5812.547           8937.547
CTY_LN_RD        5815.854           9034.392

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
E1               4460.476           6522.363
E1               4254.710           6530.819
E1               4060.219           6474.445
E1               3986.933           6446.258
E1               3730.430           6122.106
E1               3707.880           5938.890
E1               3640.231           5538.633
E1               3614.863           5501.989
E1               3541.576           5439.978
E1               3383.729           5406.153
E1               3347.085           5022.808
E1               3285.074           4707.113
E1               3423.191           4602.820
E1               3471.109           4532.353
E1               3397.822           3920.692
E1               3451.378           3886.868
E1               3428.828           3703.651
E1               3473.927           3576.809
E1               3555.670           3517.616
E1               3896.734           3371.043
E1               3930.559           3328.763
E1               4029.214           3297.757
```

E1	4127.868	3303.394
E1	4201.155	3373.862
E1	4229.342	3452.786
E1	4271.623	3483.792
E1	4285.716	3542.985
E1	4367.459	3638.821
E1	4429.471	3720.564
E1	4499.938	3678.283
E1	4573.225	3785.394
E1	4708.523	4072.903
E1	4739.529	4225.113
E1	4821.272	4532.353
E1	4894.558	4867.779
E1	4877.646	5096.095
E1	4821.272	5327.229
E1	4564.769	6226.398
E1	4539.400	6474.445
E2	2866.118	5335.112
E2	3106.592	5475.388
E2	3162.703	5323.088
E2	3150.679	5210.867
E2	3058.498	5058.566
E2	2721.833	4870.195
E2	2589.573	4894.242
E2	2693.778	5026.503
E2	2737.865	5118.685
E2	2789.968	5258.962
E3	8068.427	3537.347
E3	7995.141	3526.072
E3	7913.398	3542.985
E3	7871.118	3545.803
E3	7854.205	3492.248
E3	7780.919	3483.792
E3	7701.995	3483.792
E3	7648.439	3526.072
E3	7572.334	3588.084
E3	7499.048	3548.622
E3	7372.206	3655.733
E3	7315.831	3779.757
E3	7132.615	3948.879
E3	6811.282	3909.417
E3	6752.089	3819.218
E3	6670.346	3810.762
E3	6605.516	3757.207
E3	6427.937	3757.207
E3	6425.118	3703.651
E3	6270.089	3562.716
E3	6241.902	3486.610
E3	6089.692	3452.786
E3	5993.856	3489.429

E3	5864.195	3458.423
E3	5858.557	3430.236
E3	5768.359	3413.324
E3	5709.166	3351.312
E3	5638.698	3371.043
E3	5475.213	3340.037
E3	5396.289	3354.131
E3	5207.435	3368.225
E3	5105.961	3278.026
E3	4973.482	3317.488
E3	4894.558	3303.394
E3	4736.710	3393.593
E3	4604.231	3593.722
E3	4499.938	3664.189
E3	4587.318	3768.482
E3	4700.067	4002.435
E3	4742.348	4143.370
E3	4815.634	4478.797
E3	4903.014	4732.481
E3	4897.377	5076.364
E3	4826.909	5346.960
E3	4669.061	5899.428
E3	4578.862	6246.129
E3	4553.494	6477.264
E3	4660.605	6392.702
E3	4824.090	6426.527
E3	5136.967	6468.807
E3	5348.371	6449.076
E3	5404.745	6468.807
E3	5542.862	6468.807
E3	5593.599	6440.620
E3	5596.417	6415.252
E3	5599.236	6313.778
E3	5726.078	6223.580
E3	6292.639	6186.936
E3	6301.095	5983.989
E3	6382.838	5809.229
E3	6529.411	5690.843
E3	6585.785	5592.188
E3	6833.832	5462.527
E3	6932.487	5217.299
E3	7039.598	5087.639
E3	7239.726	5003.077
E3	7346.837	4881.873
E3	7344.018	4704.294
E3	7442.673	4583.089
E3	7487.773	4428.060
E3	7535.691	4309.674
E3	7623.071	4244.844
E3	7840.112	4022.166

E3	7969.772	3988.341
E3	8068.427	3799.487
E3	8043.059	3745.932
E3	8065.609	3667.008
E3	8186.813	3571.172
E4	9886.043	5226.390
E4	9352.991	5426.785
E4	8948.193	5887.694
E4	8787.876	6144.200
E4	8631.568	6224.359
E4	8563.434	6328.564
E4	8318.951	6565.031
E4	8190.698	6633.165
E4	8138.596	6641.181
E4	7966.256	6629.157
E4	7713.758	6677.252
E4	7473.283	6665.228
E4	7409.157	6729.355
E4	6996.342	6765.426
E4	6944.240	6613.125
E4	6844.042	6440.786
E4	6787.931	6408.722
E4	6627.615	6348.604
E4	6619.599	6160.232
E4	6579.520	6120.153
E4	6515.394	6100.114
E4	6427.220	6064.042
E4	6439.243	5931.781
E4	6399.164	5807.536
E4	6555.473	5683.291
E4	6603.568	5607.141
E4	6848.050	5466.864
E4	6948.248	5218.374
E4	7064.477	5090.121
E4	7240.825	5021.987
E4	7361.062	4885.718
E4	7365.070	4713.378
E4	7445.228	4601.157
E4	7477.291	4488.935
E4	7521.378	4412.785
E4	7549.433	4308.580
E4	7641.615	4256.477
E4	7854.034	4028.026
E4	7978.279	3999.971
E4	8030.382	3907.789
E4	8078.477	3787.552
E4	8054.430	3739.457
E4	8070.461	3671.323
E4	8182.683	3579.141
E4	8270.856	3571.125

E4	8330.975	3426.840
E4	8415.141	3450.888
E4	8695.695	3551.085
E4	9072.438	3739.457
E4	9268.825	3747.473
E4	9340.967	3819.615
E4	9381.046	3907.789
E4	9505.292	3983.939
E4	9573.426	3979.931
E4	9685.647	3947.868
E4	9781.837	3923.821
E4	9821.916	3963.900
E4	9882.035	4068.105
E4	9894.058	4164.295
E4	9874.019	4272.508
E4	9902.074	4484.927
E4	10318.896	4557.070
E4	10342.944	4737.425
E4	10427.110	4977.900
E4	10451.157	5230.398
E5	7886.587	6654.875
E5	7739.937	6688.532
E5	7485.103	6678.916
E5	7441.829	6739.019
E5	7006.687	6777.484
E5	6961.009	6717.382
E5	6924.947	6609.197
E5	6814.359	6445.718
E5	6622.031	6359.171
E5	6595.585	6169.247
E5	6564.332	6135.589
E5	6453.743	6082.699
E5	6427.298	6063.466
E5	6420.086	5933.645
E5	6398.449	5818.248
E5	6316.710	5962.494
E5	6311.902	6181.267
E5	6273.436	6193.288
E5	6251.799	6231.753
E5	6208.525	6275.027
E5	6177.272	6318.301
E5	6138.806	6366.383
E5	6143.614	6455.335
E5	6150.827	6527.458
E5	6133.998	6582.752
E5	6117.169	6664.491
E5	6095.532	6729.402
E5	6069.087	6813.546
E5	6057.067	6859.224
E5	6033.026	6902.497

E5	6071.491	6921.730
E5	6090.724	6952.983
E5	6071.491	6993.853
E5	6073.896	7041.935
E5	6088.320	7092.421
E5	6124.382	7164.544
E5	6146.019	7212.626
E5	6136.402	7248.688
E5	6146.019	7306.386
E5	6162.847	7380.913
E5	6220.546	7539.584
E5	6283.052	7590.070
E5	6302.285	7640.556
E5	6321.518	7638.152
E5	6400.853	7703.063
E5	6540.291	8219.945
E5	6643.667	8085.315
E5	6730.215	8022.808
E5	6872.057	7763.165
E5	7028.324	7698.255
E5	7271.138	7517.947
E5	7405.767	7496.310
E5	7487.507	7227.051
E5	7624.541	7190.989
E5	7881.779	6938.559
E5	7922.649	6758.251
E5	7973.135	6633.238
E6	6646.072	8094.931
E6	6547.503	8241.581
E6	6564.332	8364.191
E6	6569.140	8756.059
E6	6571.544	8921.942
E6	6655.688	8994.065
E6	6819.167	8991.661
E6	6710.982	8905.113
E6	6713.386	8794.525
E6	6742.236	8638.258
E6	6735.023	8506.033
E6	6751.852	8441.122
E6	6754.256	8260.814
E6	6718.195	8188.691
E6	6706.174	8126.185
E6	6725.407	8049.253
E7	6554.716	8931.558
E7	6525.866	8236.773
E7	6381.620	7712.679
E7	6278.244	7652.577
E7	6179.676	7477.077
E7	6066.683	7121.271
E7	6013.793	6885.669

```
E7               6073.896           6741.423
E7               6136.402           6525.054
E7               6136.402           6392.828
E7               6059.471           6366.383
E7               5999.368           6356.767
E7               5939.266           6356.767
E7               5785.403           6371.191
E7               5684.431           6416.869
E7               5508.932           6479.376
E7               5347.857           6469.759
E7               5230.056           6474.567
E7               4963.201           6457.739
E7               4686.729           6404.849
E7               4475.169           6532.266
E7               4256.395           6537.074
E7               4061.663           6479.376
E7               4090.512           6642.855
E7               4189.081           6818.354
E7               4261.204           6955.388
E7               4246.779           7046.743
E7               4217.930           7142.907
E7               4205.909           7275.133
E7               4244.375           7354.468
E7               4362.176           7436.208
E7               4508.826           7582.858
E7               4585.757           7717.488
E7               4696.346           8015.596
E7               4905.503           8426.697
E7               4982.434           8506.033
E7               5004.071           8662.299
E7               4919.927           8801.737
E7               4996.858           8789.716
E7               5141.104           8789.716
E7               5222.844           8881.072
E7               5266.118           8986.853
E7               6636.455           8989.257

;;Storage Node   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
BALD_MTN_DETENTION 5409.412           6404.654
BALD_MTN_DETENTION 5397.394           6326.533
BALD_MTN_DETENTION 5305.251           6334.546
BALD_MTN_DETENTION 5309.258           6408.660
EX-WETLAND       5838.498           8868.999
EX-WETLAND       5806.434           8768.801
EX-WETLAND       5706.237           8772.809
EX-WETLAND       5710.245           8877.014

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
```

```
;;-------------- ------------------ ------------------
RG               4616.839           9666.575


[BACKDROP]
FILE       "D1.jpg"
DIMENSIONS -2000.000 0.000 12000.000 10000.000
```

MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS - Q100

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 05/03/2026 00:00:00
Ending Date 05/03/2026 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
Total Precipitation	51.538	2.820
Evaporation Loss	0.000	0.000
Infiltration Loss	22.920	1.254
Surface Runoff	28.741	1.573
Final Storage	0.175	0.010
Continuity Error (%)	-0.578	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	28.739	9.365

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	28.603	9.321
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.026	0.008
Continuity Error (%)	0.386	

****
Time-Step Critical Elements
****
Link 1 (90.44%)
Link 2 (9.45%)

****
Highest Flow Instability Indexes
****
Link 2 (6)
Link 1 (4)
Link 3 (3)
Link CNTY_LN_CULV (1)

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	1.06 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.12
% of Steps Not Converging	:	1.66
Time Step Frequencies	:	
20.000 - 9.564 sec	:	0.10 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	14.94 %
2.187 - 1.046 sec	:	15.31 %
1.046 - 0.500 sec	:	69.65 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
E1	2.82	0.00	0.00	1.69	0.13	1.01	1.14	0.98	63.22	0.403
E2	2.82	0.00	0.00	0.60	1.65	0.57	2.22	0.08	11.27	0.789
E3	2.82	0.00	0.00	1.04	1.10	0.68	1.78	2.91	281.12	0.632
E4	2.82	0.00	0.00	1.20	0.86	0.77	1.63	2.89	265.01	0.576
E5	2.82	0.00	0.00	1.10	0.96	0.76	1.73	0.82	82.26	0.613
E6	2.82	0.00	0.00	0.51	1.62	0.69	2.31	0.09	11.50	0.819
E7	2.82	0.00	0.00	1.42	0.15	1.25	1.41	1.59	98.91	0.499

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
2	JUNCTION	1.17	4.56	7293.86	0 00:49	3.99
3	JUNCTION	0.29	0.75	7289.75	0 00:48	0.69
SITE_OUTFALL	OUTFALL	1.98	4.00	7258.51	0 00:45	4.00
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
BALD_MTN_DETENTION	STORAGE	1.04	5.17	7296.17	0 00:48	4.16
EX-WETLAND	STORAGE	2.63	7.05	7264.03	0 00:51	6.82

```
  ********************
  Node Inflow Summary
  ********************


------------------------------------------------------------------------------
-------------
                                  Maximum  Maximum                    Lateral
Total        Flow
                                  Lateral    Total  Time of Max      Inflow
Inflow     Balance
                                   Inflow   Inflow   Occurrence      Volume
Volume       Error
  Node                 Type           CFS      CFS  days hr:min    10^6 gal    10^6
gal     Percent

------------------------------------------------------------------------------
-------------
  2                    JUNCTION      0.00   283.99     0  00:48           0
3.98       0.014
  3                    JUNCTION      0.00   308.14     0  00:49           0
3.97      -0.320
  SITE_OUTFALL         OUTFALL       0.00   244.89     0  00:51           0
7.59       0.000
  CTY_LN_RD_OVERTOPPING OUTFALL       0.00   314.66     0  00:51           0
1.73       0.000
  BALD_MTN_DETENTION   STORAGE     355.62   355.62     0  00:45        3.98
3.98       0.001
  EX-WETLAND           STORAGE     457.68   690.34     0  00:45        5.39
9.37       0.523


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************
```

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
BALD_MTN_DETENTION	10.366	18.2	0.0	0.0	51.662	90.6	0 00:48	283.99
EX-WETLAND	26.333	31.2	0.0	0.0	70.466	83.5	0 00:51	559.53

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	99.83	96.58	244.89	7.592
CTY_LN_RD_OVERTOPPING	15.41	146.79	314.66	1.728
System	57.62	243.37	559.53	9.320

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
CNTY_LN_CULV	CONDUIT	244.89	0 00:51	19.49	1.49	1.00
1	CONDUIT	279.06	0 00:48	39.48	1.65	1.00
2	CONDUIT	308.14	0 00:49	32.73	1.34	0.58
3	CONDUIT	283.13	0 00:48	2.42	0.02	0.62
BLD_MTN_GRATE	ORIFICE	4.95	0 00:48			
CTY_LN_RD	WEIR	314.66	0 00:51			0.30

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
CNTY_LN_CULV	1.00	0.02	0.00	0.00	0.16	0.83	0.00	0.00	0.43	0.00
1	1.00	0.02	0.00	0.00	0.03	0.00	0.00	0.96	0.00	0.00
2	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.34	0.00
3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CNTY_LN_CULV	0.71	0.87	0.71	0.97	0.71
1	0.27	0.27	0.32	0.31	0.27
2	0.01	0.01	0.01	0.18	0.01
3	0.01	0.01	1.04	0.01	0.01

Analysis begun on: Fri May 8 19:17:53 2026
Analysis ended on: Fri May 8 19:17:53 2026
Total elapsed time: < 1 sec

MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS - Q50

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

```
****************
Analysis Options
****************
Flow Units ..............  CFS
Process Models:
  Rainfall/Runoff ........  YES
  RDII ...................  NO
  Snowmelt ...............  NO
  Groundwater ............  NO
  Flow Routing ...........  YES
  Ponding Allowed ........  NO
  Water Quality ..........  NO
Infiltration Method ......  HORTON
Flow Routing Method ......  DYNWAVE
Surcharge Method .........  EXTRAN
Starting Date ............  05/03/2026 00:00:00
Ending Date ..............  05/03/2026 06:00:00
Antecedent Dry Days ......  0.0
Report Time Step .........  00:15:00
Wet Time Step ............  00:05:00
Dry Time Step ............  01:00:00
Routing Time Step ........  20.00 sec
Variable Time Step .......  YES
Maximum Trials ...........  8
Number of Threads ........  1
Head Tolerance ...........  0.005000 ft
```

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	46.019	2.518
Evaporation Loss	0.000	0.000
Infiltration Loss	22.270	1.219
Surface Runoff	23.807	1.303
Final Storage	0.175	0.010
Continuity Error (%)	-0.508	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	23.806	7.758

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	23.676	7.715
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.025	0.008
Continuity Error (%)	0.437	

****
Time-Step Critical Elements
****
Link 1 (93.35%)
Link 2 (6.55%)

****
Highest Flow Instability Indexes
****
Link 2 (2)
Link 1 (1)
Link CNTY_LN_CULV (1)

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	1.08 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.01
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	0.10 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	15.32 %
2.187 - 1.046 sec	:	15.75 %
1.046 - 0.500 sec	:	68.84 %

Subcatchment Runoff Summary

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff 10^6 gal	Total Peak Runoff CFS	Runoff Coeff
E1	2.52	0.00	0.00	1.64	0.12	0.77	0.88	0.77	48.69	0.351
E2	2.52	0.00	0.00	0.58	1.47	0.47	1.94	0.07	9.91	0.772
E3	2.52	0.00	0.00	1.01	0.99	0.52	1.51	2.46	238.95	0.599
E4	2.52	0.00	0.00	1.17	0.76	0.59	1.35	2.40	222.58	0.536
E5	2.52	0.00	0.00	1.07	0.86	0.60	1.46	0.69	69.19	0.578
E6	2.52	0.00	0.00	0.50	1.45	0.58	2.02	0.08	10.15	0.804
E7	2.52	0.00	0.00	1.38	0.14	1.01	1.14	1.29	78.93	0.454

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
2	JUNCTION	1.04	3.94	7293.24	0 00:47	3.32
3	JUNCTION	0.27	0.70	7289.70	0 00:48	0.64
SITE_OUTFALL	OUTFALL	1.90	4.00	7258.51	0 00:47	4.00
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
BALD_MTN_DETENTION	STORAGE	0.89	4.07	7295.07	0 00:47	3.47
EX-WETLAND	STORAGE	2.46	6.84	7263.82	0 00:54	6.73

Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
2	JUNCTION	0.00	241.35	0 00:47	0	3.3	-0.000
3	JUNCTION	0.00	241.35	0 00:47	0	3.3	-0.380
SITE_OUTFALL	OUTFALL	0.00	240.20	0 00:54	0	7	0.000
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	167.01	0 00:54	0	0.716	0.000
BALD_MTN_DETENTION	STORAGE	297.55	297.55	0 00:45	3.3	3.3	0.001
EX-WETLAND	STORAGE	380.84	582.21	0 00:46	4.46	7.77	0.608

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
Storage Unit	1000 ft	Full	Loss	Loss	1000 ft	Full	days hr:min	CFS
BALD_MTN_DETENTION	8.854	15.5	0.0	0.0	40.734	71.5	0 00:47	241.35
EX-WETLAND	24.558	29.1	0.0	0.0	68.377	81.0	0 00:54	407.21

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	99.83	90.23	240.20	6.999
CTY_LN_RD_OVERTOPPING	11.71	81.60	167.01	0.716
System	55.77	171.83	407.21	7.715

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
CNTY_LN_CULV	CONDUIT	240.20	0 00:54	19.11	1.47	1.00
1	CONDUIT	241.35	0 00:47	34.14	1.43	1.00
2	CONDUIT	241.35	0 00:47	30.42	1.05	0.52
3	CONDUIT	241.11	0 00:48	2.11	0.02	0.62
BLD_MTN_GRATE	ORIFICE	0.00	0 00:00			
CTY_LN_RD	WEIR	167.01	0 00:54			0.20

****

Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
CNTY_LN_CULV	1.00	0.02	0.00	0.00	0.14	0.84	0.00	0.00	0.44	0.00
1	1.00	0.02	0.00	0.00	0.01	0.00	0.00	0.97	0.00	0.00
2	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.34	0.00
3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CNTY_LN_CULV	0.62	0.79	0.62	0.89	0.62
1	0.18	0.18	0.23	0.23	0.18
2	0.01	0.01	0.01	0.08	0.01
3	0.01	0.01	0.95	0.01	0.01

Analysis begun on: Fri May 8 19:21:28 2026
Analysis ended on: Fri May 8 19:21:28 2026
Total elapsed time: < 1 sec

MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS - Q25

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 05/03/2026 00:00:00
Ending Date 05/03/2026 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	40.901	2.238
Evaporation Loss	0.000	0.000
Infiltration Loss	21.491	1.176
Surface Runoff	19.433	1.063
Final Storage	0.175	0.010
Continuity Error (%)	-0.481	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	19.432	6.332

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	19.321	6.296
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.025	0.008
Continuity Error (%)	0.441	

****
Time-Step Critical Elements
****
Link 1 (96.32%)
Link 2 (3.57%)

****
Highest Flow Instability Indexes
****
Link 2 (2)
Link CNTY_LN_CULV (1)
Link 1 (1)

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	1.10 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.01
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	0.11 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	15.78 %
2.187 - 1.046 sec	:	16.25 %
1.046 - 0.500 sec	:	67.86 %

****
Subcatchment Runoff Summary
****

Subcatchment	Precip in	Runon in	Evap in	Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
E1	2.24	0.00	0.00	1.58	0.10	0.56	0.66	0.57	37.00	0.297
E2	2.24	0.00	0.00	0.56	1.31	0.37	1.68	0.06	8.60	0.752
E3	2.24	0.00	0.00	0.97	0.87	0.39	1.26	2.06	202.17	0.563
E4	2.24	0.00	0.00	1.13	0.67	0.44	1.11	1.98	186.22	0.496
E5	2.24	0.00	0.00	1.03	0.76	0.45	1.21	0.57	57.86	0.541
E6	2.24	0.00	0.00	0.48	1.28	0.48	1.76	0.07	8.87	0.786
E7	2.24	0.00	0.00	1.34	0.12	0.78	0.90	1.02	61.83	0.404

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
2	JUNCTION	0.93	3.28	7292.58	0 00:47	2.88
3	JUNCTION	0.25	0.66	7289.66	0 00:48	0.61
SITE_OUTFALL	OUTFALL	1.79	4.00	7258.51	0 00:49	4.00
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
BALD_MTN_DETENTION	STORAGE	0.77	3.39	7294.39	0 00:47	2.81
EX-WETLAND	STORAGE	2.22	6.49	7263.47	0 01:00	6.49

****

Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
2	JUNCTION	0.00	202.34	0 00:47	0	2.69	0.000
3	JUNCTION	0.00	202.34	0 00:47	0	2.69	-0.477
SITE_OUTFALL	OUTFALL	0.00	232.17	0 01:00	0	6.29	0.000
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	7.09	0 01:00	0	0.0101	0.000
BALD_MTN_DETENTION	STORAGE	247.77	247.77	0 00:45	2.7	2.7	-0.000
EX-WETLAND	STORAGE	314.78	482.70	0 00:45	3.63	6.34	0.655

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence	Outflow
Storage Unit	1000 ft	Full	Loss	Loss	1000 ft	Full	days hr:min	CFS
BALD_MTN_DETENTION	7.708	13.5	0.0	0.0	33.888	59.5	0 00:47	202.34
EX-WETLAND	22.236	26.3	0.0	0.0	64.884	76.9	0 01:00	239.26

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	99.82	82.28	232.17	6.285
CTY_LN_RD_OVERTOPPING	3.33	4.13	7.09	0.010
System	51.57	86.41	239.26	6.295

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
CNTY_LN_CULV	CONDUIT	232.17	0 01:00	18.48	1.42	1.00
1	CONDUIT	202.34	0 00:47	28.63	1.20	1.00
2	CONDUIT	202.34	0 00:47	30.28	0.88	0.44
3	CONDUIT	201.51	0 00:48	1.81	0.02	0.61
BLD_MTN_GRATE	ORIFICE	0.00	0 00:00			
CTY_LN_RD	WEIR	7.09	0 01:00			0.02

****

Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
CNTY_LN_CULV	1.00	0.02	0.00	0.00	0.13	0.86	0.00	0.00	0.44	0.00
1	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
2	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.34	0.00
3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Upstream	Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CNTY_LN_CULV	0.51	0.69	0.51	0.80	0.51
1	0.10	0.10	0.15	0.15	0.10
3	0.01	0.01	0.86	0.01	0.01

Analysis begun on: Fri May 8 19:22:00 2026
Analysis ended on: Fri May 8 19:22:00 2026
Total elapsed time: < 1 sec

MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS - Q10

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 05/03/2026 00:00:00
Ending Date 05/03/2026 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	35.784	1.958
Evaporation Loss	0.000	0.000
Infiltration Loss	20.507	1.122
Surface Runoff	15.261	0.835
Final Storage	0.174	0.010
Continuity Error (%)	-0.444	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	15.260	4.973

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	15.193	4.951
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.025	0.008
Continuity Error (%)	0.278	

****
Time-Step Critical Elements
****
Link 1 (99.88%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.13 sec
Average Time Step	:	1.13 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.01
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	0.11 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	16.40 %
2.187 - 1.046 sec	:	16.87 %
1.046 - 0.500 sec	:	66.62 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
E1	1.96	0.00	0.00	1.50	0.09	0.37	0.46	0.40	26.82	0.235
E2	1.96	0.00	0.00	0.54	1.14	0.28	1.42	0.05	7.26	0.725
E3	1.96	0.00	0.00	0.93	0.76	0.26	1.02	1.67	167.53	0.523
E4	1.96	0.00	0.00	1.07	0.59	0.29	0.88	1.57	152.44	0.450
E5	1.96	0.00	0.00	0.98	0.67	0.31	0.97	0.46	47.28	0.497
E6	1.96	0.00	0.00	0.46	1.12	0.38	1.50	0.06	7.57	0.766
E7	1.96	0.00	0.00	1.28	0.11	0.57	0.68	0.76	46.68	0.346

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
2	JUNCTION	0.82	2.88	7292.18	0 00:46	2.76
3	JUNCTION	0.23	0.62	7289.62	0 00:47	0.59
SITE_OUTFALL	OUTFALL	1.57	4.00	7258.51	0 00:57	3.84
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
BALD_MTN_DETENTION	STORAGE	0.65	2.56	7293.56	0 00:47	2.33
EX-WETLAND	STORAGE	1.72	5.04	7262.02	0 00:58	5.03

****
Node Inflow Summary
****

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------------------------------------------------------------------------------
-------------
                                 Maximum  Maximum                  Lateral
Total        Flow
                                 Lateral    Total  Time of Max      Inflow
Inflow     Balance
                                  Inflow   Inflow   Occurrence      Volume
Volume       Error
  Node                 Type           CFS      CFS  days hr:min    10^6 gal    10^6
gal     Percent

------------------------------------------------------------------------------
-------------
  2                    JUNCTION      0.00   170.07     0  00:47           0
2.12      -0.001
  3                    JUNCTION      0.00   169.59     0  00:46           0
2.12      -0.580
  SITE_OUTFALL         OUTFALL       0.00   197.88     0  00:58           0
4.95       0.000
  CTY_LN_RD_OVERTOPPING OUTFALL       0.00     0.00     0  00:00           0
  0       0.000 gal
  BALD_MTN_DETENTION   STORAGE     201.61   201.61     0  00:45        2.12
2.12       0.001
  EX-WETLAND           STORAGE     253.98   404.68     0  00:45        2.85
4.98       0.537


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


------------------------------------------------------------------------------
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                         Average    Avg   Evap  Exfil     Maximum    Max    Time of
```

Storage Unit	Max Occurrence hr:min	Maximum Outflow CFS	Volume 1000 ft	Pcnt Full	Pcnt Loss	Pcnt Loss	Volume 1000 ft	Pcnt Full	Maximum days
BALD_MTN_DETENTION	00:47	170.07	6.513	11.4	0.0	0.0	25.625	45.0	0
EX-WETLAND	00:58	197.88	17.226	20.4	0.0	0.0	50.367	59.7	0

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	99.80	66.06	197.88	4.950
CTY_LN_RD_OVERTOPPING	0.00	0.00	0.00	0.000
System	49.90	66.06	197.88	4.950

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
CNTY_LN_CULV	CONDUIT	197.88	0	00:58	15.82	1.21	1.00
1	CONDUIT	170.07	0	00:47	27.32	1.00	0.93
2	CONDUIT	169.59	0	00:46	29.83	0.74	0.39
3	CONDUIT	168.98	0	00:47	1.55	0.01	0.60
BLD_MTN_GRATE	ORIFICE	0.00	0	00:00			
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
CNTY_LN_CULV	1.00	0.02	0.00	0.00	0.09	0.89	0.00	0.00	0.45	0.00
1	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
2	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.33	0.00
3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CNTY_LN_CULV	0.03	0.46	0.03	0.59	0.03
1	0.01	0.01	0.01	0.01	0.01
3	0.01	0.01	0.66	0.01	0.01

Analysis begun on: Fri May 8 19:22:40 2026
Analysis ended on: Fri May 8 19:22:40 2026
Total elapsed time: < 1 sec

MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS - Q5

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 05/03/2026 00:00:00
Ending Date 05/03/2026 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	30.685	1.679
Evaporation Loss	0.000	0.000
Infiltration Loss	19.300	1.056
Surface Runoff	11.332	0.620
Final Storage	0.174	0.010
Continuity Error (%)	-0.396	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	11.331	3.693

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	11.294	3.680
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.025	0.008
Continuity Error (%)	0.105	

****
Time-Step Critical Elements
****
Link 1 (99.87%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	1.18 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	0.12 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	17.20 %
2.187 - 1.046 sec	:	17.65 %
1.046 - 0.500 sec	:	65.04 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff 10^6 gal	Total Runoff CFS	Peak Runoff Coeff
E1	1.68	0.00	0.00	1.40	0.08	0.20	0.28	0.24	17.93	0.165
E2	1.68	0.00	0.00	0.51	0.97	0.19	1.16	0.04	5.88	0.691
E3	1.68	0.00	0.00	0.87	0.65	0.15	0.80	1.30	134.79	0.475
E4	1.68	0.00	0.00	1.01	0.50	0.16	0.67	1.18	120.91	0.396
E5	1.68	0.00	0.00	0.93	0.57	0.18	0.75	0.35	37.37	0.444
E6	1.68	0.00	0.00	0.44	0.96	0.28	1.24	0.05	6.24	0.737
E7	1.68	0.00	0.00	1.22	0.09	0.37	0.46	0.52	32.95	0.276

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
2	JUNCTION	0.71	2.54	7291.84	0 00:46	2.41
3	JUNCTION	0.21	0.57	7289.57	0 00:47	0.54
SITE_OUTFALL	OUTFALL	1.30	3.75	7258.26	0 00:55	3.73
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
BALD_MTN_DETENTION	STORAGE	0.56	2.08	7293.08	0 00:46	1.97
EX-WETLAND	STORAGE	1.30	3.78	7260.76	0 00:54	3.64

****
Node Inflow Summary
****

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------------------------------------------------------------------------------
-------------
                                 Maximum  Maximum                  Lateral
Total        Flow
                                 Lateral    Total  Time of Max      Inflow
Inflow     Balance
                                  Inflow   Inflow   Occurrence      Volume
Volume       Error
  Node                 Type           CFS      CFS  days hr:min    10^6 gal    10^6
gal     Percent

------------------------------------------------------------------------------
-------------
  2                    JUNCTION      0.00   140.01     0  00:46           0
1.58       0.000
  3                    JUNCTION      0.00   140.01     0  00:46           0
1.58      -0.698
  SITE_OUTFALL         OUTFALL       0.00   177.14     0  00:55           0
3.68       0.000
  CTY_LN_RD_OVERTOPPING OUTFALL       0.00     0.00     0  00:00           0
  0       0.000 gal
  BALD_MTN_DETENTION   STORAGE     158.61   158.61     0  00:45        1.59
1.59       0.000
  EX-WETLAND           STORAGE     197.47   318.20     0  00:45        2.11
3.7        0.418


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


------------------------------------------------------------------------------
------------
                         Average    Avg   Evap  Exfil     Maximum    Max    Time of
```

Storage Unit	Max Volume 1000 ft	Pcnt Full	Pcnt Loss	Pcnt Loss	Maximum Volume 1000 ft	Pcnt Full	Occurrence days	Occurrence hr:min	Outflow CFS
BALD_MTN_DETENTION	5.555	9.7	0.0	0.0	20.822	36.5	0	00:46	140.01
EX-WETLAND	12.956	15.4	0.0	0.0	37.821	44.8	0	00:54	177.14

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	99.78	50.14	177.14	3.680
CTY_LN_RD_OVERTOPPING	0.00	0.00	0.00	0.000
System	49.89	50.14	177.14	3.680

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	Time of Max Occurrence hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
CNTY_LN_CULV	CONDUIT	177.14	0	00:55	14.86	1.08	0.94
1	CONDUIT	140.01	0	00:46	26.75	0.83	0.69
2	CONDUIT	140.01	0	00:46	28.75	0.61	0.35
3	CONDUIT	139.03	0	00:47	1.51	0.01	0.60
BLD_MTN_GRATE	ORIFICE	0.00	0	00:00			
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
CNTY_LN_CULV	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.47	0.00
1	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
2	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.32	0.00
3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
CNTY_LN_CULV	0.01	0.01	0.01	0.28	0.01
3	0.01	0.01	0.39	0.01	0.01

Analysis begun on: Fri May 8 19:23:11 2026
Analysis ended on: Fri May 8 19:23:11 2026
Total elapsed time: < 1 sec

MONUMENT RIDGE EAST FILING NO. 1 PREDEVELOPMENT CONDITIONS - Q2

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 05/03/2026 00:00:00
Ending Date 05/03/2026 06:00:00
Antecedent Dry Days 0.0
Report Time Step 00:15:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	24.343	1.332
Evaporation Loss	0.000	0.000
Infiltration Loss	17.080	0.935
Surface Runoff	7.172	0.392
Final Storage	0.174	0.010
Continuity Error (%)	-0.341	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	7.171	2.337

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	7.146	2.329
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.025	0.008
Continuity Error (%)	0.001	

****
Time-Step Critical Elements
****
Link 1 (99.87%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	1.25 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	0.13 %
9.564 - 4.573 sec	:	0.04 %
4.573 - 2.187 sec	:	18.60 %
2.187 - 1.046 sec	:	18.98 %
1.046 - 0.500 sec	:	62.24 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
E1	1.33	0.00	0.00	1.23	0.06	0.05	0.11	0.09	9.23	0.080
E2	1.33	0.00	0.00	0.48	0.77	0.08	0.85	0.03	4.07	0.635
E3	1.33	0.00	0.00	0.77	0.51	0.04	0.55	0.90	97.77	0.413
E4	1.33	0.00	0.00	0.89	0.40	0.04	0.44	0.78	85.98	0.327
E5	1.33	0.00	0.00	0.83	0.45	0.05	0.49	0.23	26.37	0.371
E6	1.33	0.00	0.00	0.40	0.75	0.16	0.92	0.03	4.58	0.689
E7	1.33	0.00	0.00	1.09	0.07	0.17	0.24	0.27	19.69	0.180

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
2	JUNCTION	0.57	2.06	7291.36	0 00:46	1.97
3	JUNCTION	0.18	0.50	7289.50	0 00:46	0.48
SITE_OUTFALL	OUTFALL	0.95	2.82	7257.33	0 00:51	2.49
CTY_LN_RD_OVERTOPPING	OUTFALL	0.00	0.00	0.00	0 00:00	0.00
BALD_MTN_DETENTION	STORAGE	0.44	1.64	7292.64	0 00:46	1.58
EX-WETLAND	STORAGE	0.96	2.82	7259.80	0 00:51	2.49

****
Node Inflow Summary
****

```
------------------------------------------------------------------------------
-------------
                                 Maximum  Maximum                  Lateral
Total        Flow
                                 Lateral    Total  Time of Max      Inflow
Inflow     Balance
                                  Inflow   Inflow   Occurrence      Volume
Volume       Error
  Node                 Type           CFS      CFS  days hr:min    10^6 gal    10^6
gal     Percent

------------------------------------------------------------------------------
-------------
  2                    JUNCTION      0.00    98.38     0  00:46           0
1.02       0.000
  3                    JUNCTION      0.00    98.38     0  00:46           0
1.02      -0.850
  SITE_OUTFALL         OUTFALL       0.00   138.62     0  00:51           0
2.33       0.000
  CTY_LN_RD_OVERTOPPING OUTFALL       0.00     0.00     0  00:00           0
  0       0.000 gal
  BALD_MTN_DETENTION   STORAGE     111.07   111.07     0  00:45        1.02
1.02       0.000
  EX-WETLAND           STORAGE     136.62   221.70     0  00:45        1.32
2.34       0.393


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


------------------------------------------------------------------------------
------------
                         Average    Avg   Evap  Exfil     Maximum    Max    Time of
```

Storage Unit	Max Volume 1000 ft	Pcnt Full	Pcnt Loss	Pcnt Loss	Maximum Volume 1000 ft	Pcnt Full	Occurrence days	Outflow hr:min	Outflow CFS
BALD_MTN_DETENTION	4.437	7.8	0.0	0.0	16.433	28.8	0	00:46	98.38
EX-WETLAND	9.595	11.4	0.0	0.0	28.238	33.5	0	00:51	138.62

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	99.73	32.33	138.62	2.328
CTY_LN_RD_OVERTOPPING	0.00	0.00	0.00	0.000
System	49.86	32.33	138.62	2.328

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
CNTY_LN_CULV	CONDUIT	138.62	0	00:51	14.62	0.85	0.71
1	CONDUIT	98.38	0	00:46	24.83	0.58	0.55
2	CONDUIT	98.38	0	00:46	26.46	0.43	0.28
3	CONDUIT	97.47	0	00:46	1.49	0.01	0.55
BLD_MTN_GRATE	ORIFICE	0.00	0	00:00			
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

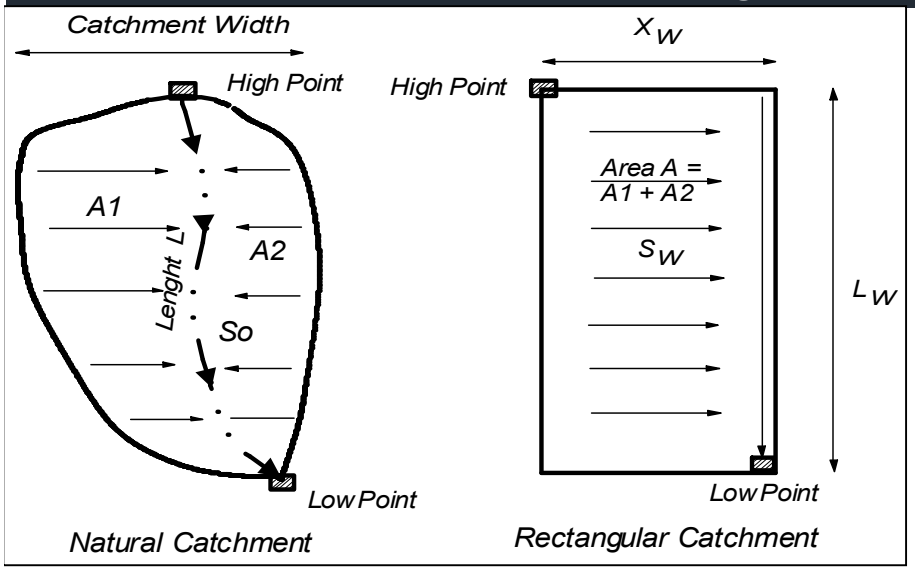
Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
CNTY_LN_CULV	1.00	0.02	0.00	0.00	0.01	0.98	0.00	0.00	0.47	0.00
1	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
2	1.00	0.02	0.00	0.00	0.01	0.97	0.00	0.00	0.31	0.00
3	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.98	0.00

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Fri May 8 19:23:49 2026
Analysis ended on: Fri May 8 19:23:49 2026
Total elapsed time: < 1 sec

Convert Natural Catchment to a Rectangular Shape



Subcatchment Center	Z=0.5
Side Collector	Z=1
Skewed Location	0.5<Z<1

Dimensionless Variables

$$Y = \frac{L}{L_w}; \qquad X = \frac{A}{L^2}$$

$$Y = (1.5 - Z)(2.286X - 0.286X^2)$$

$$\frac{Lw}{L} = (1.5 - Z)[2.286(\frac{A}{L^2}) - 0.286(\frac{A}{L^2})^2]$$

$$S_o/S_w = A/(LL_w) + L_w/L$$

$$X_w = A/L_w$$

Subarea ID	Area acre	A1 acre	A2 acre	L ft	High Pt Elev. ft	Low Pt Elev. ft	Z=Am/A	X=A/L²	Y=Lw/L	Lw ft	Xw ft	So %	So/Sw	Sw %
E1	31.89	9.56	22.33	1,472	375.6	306.3	0.70	0.64	1.08	1,587	875	4.71	1.67	2.81
E2	1.36	0.69	0.67	311	390.6	359.5	0.51	0.61	1.28	399	148	10.00	1.76	5.68
E3	60.16	22.38	37.78	2,576	450.6	289.9	0.63	0.39	0.75	1,928	1,359	6.24	1.28	4.89
E4	65.57	21.21	44.36	2,374	501.6	310.2	0.68	0.51	0.89	2,121	1,346	8.06	1.46	5.52
E5	17.47	8.18	9.29	795	310.2	289.6	0.53	1.20	2.26	1,800	423	2.59	2.80	0.93
E6	1.38	0.67	0.71	544	310.2	270.0	0.51	0.20	0.45	243	248	7.39	0.90	8.20
E7	41.48	19.90	21.58	2,026	339.1	255.7	0.52	0.44	0.93	1,887	957	4.12	1.40	2.93

```
[TITLE]
;;Project Title/Notes
MONUMENT RIDGE EAST FILING NO. 1 - PREDEVELOPMENT CONDITIONS FOR INTERIM POND
TRIBUTARY AREAS

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         DYNWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           04/16/2026
START_TIME           00:00:00
REPORT_START_DATE    04/16/2026
REPORT_START_TIME    00:00:00
END_DATE             04/26/2026
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:05:00
WET_STEP             00:05:00
DRY_STEP             00:05:00
ROUTING_STEP         0:00:30
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.566
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
CONSTANT         0.0
DRY_ONLY         NO

[RAINGAGES]
```

```
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
RG               CUMULATIVE 0:05     1.0      TIMESERIES 100-YEAR

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope
  CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- --------
-------- -------- ----------------
AA               RG               POND_1B          15.16    2.9      1007     3.07
  0
BB               RG               POND_1B          2.74     0        358      4.96
  0
CC               RG               pond_1b          1.03     100      312      1.54
  0
DD               RG               POND_1B          12.75    13.10    785      2.60
  0
EE               RG               POND_2           1.81     32.6     242      4.26
  0
FF               RG               POND_2           0.8      0.0      142      4.70
  0
GG               RG               POND_2           4.9      10.82    870      2.28
  0
HH               RG               POND_4B          8.56     26.75    1243     2.39
  0
II               RG               POND_4B          .9       25.56    267      4.86
  0
MD2              RG               POND_4B          12.16    46.09    593      3.22
  0
MD5              RG               POND_4B          1.58     12.03    241      0.49
  0
ME               RG               POND_5           3.21     48.40    539      2.77
  0
MO2              RG               POND_1B          .51      70.59    257      5.63
  0
MO3              RG               POND_1B          1.36     58.97    326      5.63
  0
MO4              RG               POND_1B          .74      68.92    201      2.16
  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo
PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ----------
----------
AA               0.013      0.1        0.05       0.05       25         OUTLET
BB               0.013      0.1        0.05       0.05       25         OUTLET
CC               0.013      0.1        0.05       0.05       25         OUTLET
DD               0.013      0.1        0.05       0.05       25         OUTLET
EE               0.013      0.1        0.05       0.05       25         OUTLET
```

```
FF               0.013      0.1        0.05       0.05       25         OUTLET
GG               0.013      0.1        0.05       0.05       25         OUTLET
HH               0.013      0.1        0.05       0.05       25         OUTLET
II               0.013      0.1        0.05       0.05       25         OUTLET
MD2              0.013      0.1        0.05       0.05       25         OUTLET
MD5              0.013      0.1        0.05       0.05       25         OUTLET
ME               0.013      0.1        0.05       0.05       25         OUTLET
MO2              0.013      0.1        0.05       0.05       25         OUTLET
MO3              0.013      0.1        0.05       0.05       25         OUTLET
MO4              0.013      0.1        0.05       0.05       25         OUTLET

[INFILTRATION]
;;Subcatchment   Param1     Param2     Param3     Param4     Param5
;;-------------- ---------- ---------- ---------- ---------- ----------
AA               4.5        .6         6.48       7          0
BB               4.5        .6         6.48       7          0
CC               4.5        .6         6.48       7          0
DD               4.5        .6         6.48       7          0
EE               4.5        .6         6.48       7          0
FF               3.0        0.5        4          7          0
GG               3.0        0.5        4          7          0
HH               3.0        0.5        4          7          0
II               4.5        .6         6.48       7          0
MD2              4.5        .6         6.48       7          0
MD5              3.0        0.5        6.48       7          0
ME               3.0        0.5        6.48       7          0
MO2              4.5        .6         6.48       7          0
MO3              4.5        .6         6.48       7          0
MO4              4.5        .6         6.48       7          0

[JUNCTIONS]
;;Name           Elevation  MaxDepth   InitDepth  SurDepth   Aponded
;;-------------- ---------- ---------- ---------- ---------- ----------
1                7298.36    6.24       0          0          0
;5+42.79
2                7297.32    6.54       0          0          0
;3+47
3                7286.57    12.71      0          0          0
;10+19.62
4                7305.11    6.93       0          0          0
;10+75.93
;DP X4
5                7305.93    5.25       0          0          0
;11+34.93
6                7306.71    4.75       0          0          0
38               7263.03    14.98      0          0          0
;2+77.41
46               7263.99    13.87      0          0          0
;1+20.17
47               7262.97    9.67       0          0          0
```

```
48              7300.73    3.84       0          0          0
;3+90.64
59              7266.16    15.6       0          0          0
;1+42.24
63              7308.96    8.73       0          0          0

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
POND_5          7269.33    FREE                        NO
;DOWNSTREAM PORTION OF POND 4
POND_4B         7261.33    FREE                        NO
POND_2          7273.33    FREE                        NO
;DOWNSTREAM PORTION OF POND 1.
POND_1B         7306.33    FREE                        NO

[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset
OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ----------
---------- ---------- ----------
C1              4                2                466.5      .013       0
1.84       0          0
L22             46               47               153.24     .013       0
.25        0          0
L23             59               46               109.24     .013       0
1          0          0
L32             5                4                56.31      .013       0
.25        0          0
;11+34.93 TO 10+81.93
;FLOWS DIRECTED TO INLET WHERE TOTAL COMBINED
;FLOW WOULD DISCHARGE DOWNSTREAM.
L33             6                5                53         .013       0
.25        0          0
L34             1                2                20.2       .013       0
.5         0          0
L35             48               1                22.58      .013       0
1.5        0          0
L45             63               POND_1B          36.24      .013       0
2.09       0          0
L53             2                3                189.79     .013       0
6.04       0          0

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4
Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ----------
---------- ----------
C1              CIRCULAR     2                0          0          0          1
```

```
L22              CIRCULAR     6.5              0          0          0          1

L23              CIRCULAR     6.5              0          0          0          1

L32              CIRCULAR     2                0          0          0          1

L33              CIRCULAR     2                0          0          0          1

L34              CIRCULAR     3                0          0          0          1

L35              CIRCULAR     1.5              0          0          0          1

L45              CIRCULAR     1                0          0          0          1

L53              CIRCULAR     3.5              0          0          0          1


[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BALD_MTN_DET     Storage    0          2000
BALD_MTN_DET                1          21089
BALD_MTN_DET                3          197908
BALD_MTN_DET                5          487608
BALD_MTN_DET                5.7        634609
;
EX_WETLAND       Storage    0          2055
EX_WETLAND                  2          11240
EX_WETLAND                  4          29650
EX_WETLAND                  6          48392
EX_WETLAND                  7          58009
;
POND_2_PH2       Storage    0.00       10410
POND_2_PH2                  0.67       10963
POND_2_PH2                  1.67       12719
POND_2_PH2                  2.67       14905
POND_2_PH2                  3.67       17066
POND_2_PH2                  4.67       19340
POND_2_PH2                  5.67       21660
;
POND_5           Storage    0.00       650
POND_5                      0.67       1151
POND_5                      1.67       1340
POND_5                      2.67       2044
POND_5                      3.67       3047
POND_5                      4.67       4256
POND_5                      5.67       5630
POND_5                      6.87       7263
;
POND_1B          Storage    0.00       25
```

```
POND_1B                    0.67       12785
POND_1B                    1.67       15418
POND_1B                    2.67       17783
POND_1B                    3.67       20628
POND_1B                    4.67       23592
POND_1B                    5.57       26769
POND_1B                    5.67       30859
POND_1B                    6.17       32440
POND_1B                    6.67       33242
POND_1B                    7.77       35689
;
POND_1A          Storage   0          106
POND_1A                    2          3052
POND_1A                    4          5574
POND_1A                    6          8745
;
POND_4A-STG-AREA Storage   0          3686
POND_4A-STG-AREA           2          7254
POND_4A-STG-AREA           4          12135
;
POND_4B_STG-AREA Storage   0          2287
POND_4B_STG-AREA           2          5235
POND_4B_STG-AREA           4          9272
POND_4B_STG-AREA           6          14318

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
EURV                       0          0
EURV                       0:05       0.015
EURV                       0:10       0.049
EURV                       0:15       0.085
EURV                       0:20       0.128
EURV                       0:25       0.192
EURV                       0:30       0.276
EURV                       0:35       0.450
EURV                       0:40       0.762
EURV                       0:45       0.882
EURV                       0:50       0.954
EURV                       0:55       1.000
EURV                       1:00       1.040
EURV                       1:05       1.074
EURV                       1:10       1.089
EURV                       1:15       1.102
EURV                       1:20       1.114
EURV                       1:25       1.126
EURV                       1:30       1.137
EURV                       1:35       1.147
EURV                       1:40       1.158
EURV                       1:45       1.167
```

```
EURV                    1:50        1.177
EURV                    1:55        1.187
EURV                    2:00        1.197
;
WQCV                    0           0
WQCV                    0:05        0.006
WQCV                    0:10        0.020
WQCV                    0:15        0.034
WQCV                    0:20        0.052
WQCV                    0:25        0.077
WQCV                    0:30        0.111
WQCV                    0:35        0.181
WQCV                    0:40        0.306
WQCV                    0:45        0.354
WQCV                    0:50        0.384
WQCV                    0:55        0.402
WQCV                    1:00        0.418
WQCV                    1:05        0.432
WQCV                    1:10        0.438
WQCV                    1:15        0.443
WQCV                    1:20        0.448
WQCV                    1:25        0.452
WQCV                    1:30        0.457
WQCV                    1:35        0.461
WQCV                    1:40        0.465
WQCV                    1:45        0.469
WQCV                    1:50        0.473
WQCV                    1:55        0.477
WQCV                    2:00        0.481
;
2-YEAR                  0           0
2-YEAR                  0:05        0.017
2-YEAR                  0:10        0.055
2-YEAR                  0:15        0.094
2-YEAR                  0:20        0.143
2-YEAR                  0:25        0.213
2-YEAR                  0:30        0.307
2-YEAR                  0:35        0.501
2-YEAR                  0:40        0.847
2-YEAR                  0:45        0.981
2-YEAR                  0:50        1.061
2-YEAR                  0:55        1.113
2-YEAR                  1:00        1.157
2-YEAR                  1:05        1.195
2-YEAR                  1:10        1.211
2-YEAR                  1:15        1.226
2-YEAR                  1:20        1.239
2-YEAR                  1:25        1.252
2-YEAR                  1:30        1.265
2-YEAR                  1:35        1.276
```

```
2-YEAR                  1:40        1.288
2-YEAR                  1:45        1.298
2-YEAR                  1:50        1.309
2-YEAR                  1:55        1.320
2-YEAR                  2:00        1.332
;
5-YEAR                  0           0
5-YEAR                  0:05        0.021
5-YEAR                  0:10        0.069
5-YEAR                  0:15        0.119
5-YEAR                  0:20        0.180
5-YEAR                  0:25        0.269
5-YEAR                  0:30        0.387
5-YEAR                  0:35        0.632
5-YEAR                  0:40        1.068
5-YEAR                  0:45        1.236
5-YEAR                  0:50        1.338
5-YEAR                  0:55        1.403
5-YEAR                  1:00        1.458
5-YEAR                  1:05        1.506
5-YEAR                  1:10        1.527
5-YEAR                  1:15        1.545
5-YEAR                  1:20        1.562
5-YEAR                  1:25        1.578
5-YEAR                  1:30        1.595
5-YEAR                  1:35        1.608
5-YEAR                  1:40        1.623
5-YEAR                  1:45        1.637
5-YEAR                  1:50        1.650
5-YEAR                  1:55        1.664
5-YEAR                  2:00        1.679
;
10-YEAR                 0           0
10-YEAR                 0:05        0.025
10-YEAR                 0:10        0.081
10-YEAR                 0:15        0.138
10-YEAR                 0:20        0.210
10-YEAR                 0:25        0.313
10-YEAR                 0:30        0.452
10-YEAR                 0:35        0.737
10-YEAR                 0:40        1.246
10-YEAR                 0:45        1.442
10-YEAR                 0:50        1.561
10-YEAR                 0:55        1.636
10-YEAR                 1:00        1.701
10-YEAR                 1:05        1.757
10-YEAR                 1:10        1.782
10-YEAR                 1:15        1.803
10-YEAR                 1:20        1.822
10-YEAR                 1:25        1.841
```

```
10-YEAR                 1:30       1.860
10-YEAR                 1:35       1.876
10-YEAR                 1:40       1.894
10-YEAR                 1:45       1.909
10-YEAR                 1:50       1.925
10-YEAR                 1:55       1.941
10-YEAR                 2:00       1.958
;
25-YEAR                 0          0
25-YEAR                 0:05       0.028
25-YEAR                 0:10       0.092
25-YEAR                 0:15       0.158
25-YEAR                 0:20       0.240
25-YEAR                 0:25       0.358
25-YEAR                 0:30       0.516
25-YEAR                 0:35       0.842
25-YEAR                 0:40       1.424
25-YEAR                 0:45       1.648
25-YEAR                 0:50       1.784
25-YEAR                 0:55       1.870
25-YEAR                 1:00       1.944
25-YEAR                 1:05       2.008
25-YEAR                 1:10       2.036
25-YEAR                 1:15       2.060
25-YEAR                 1:20       2.082
25-YEAR                 1:25       2.104
25-YEAR                 1:30       2.126
25-YEAR                 1:35       2.144
25-YEAR                 1:40       2.164
25-YEAR                 1:45       2.182
25-YEAR                 1:50       2.200
25-YEAR                 1:55       2.218
25-YEAR                 2:00       2.238
;
50-YEAR                 0          0
50-YEAR                 0:05       0.032
50-YEAR                 0:10       0.104
50-YEAR                 0:15       0.178
50-YEAR                 0:20       0.270
50-YEAR                 0:25       0.403
50-YEAR                 0:30       0.581
50-YEAR                 0:35       0.947
50-YEAR                 0:40       1.602
50-YEAR                 0:45       1.854
50-YEAR                 0:50       2.007
50-YEAR                 0:55       2.104
50-YEAR                 1:00       2.187
50-YEAR                 1:05       2.259
50-YEAR                 1:10       2.291
50-YEAR                 1:15       2.318
```

```
50-YEAR                 1:20       2.342
50-YEAR                 1:25       2.367
50-YEAR                 1:30       2.392
50-YEAR                 1:35       2.412
50-YEAR                 1:40       2.435
50-YEAR                 1:45       2.455
50-YEAR                 1:50       2.475
50-YEAR                 1:55       2.495
50-YEAR                 2:00       2.518
;
100-YEAR                0          0
100-YEAR                0:05       0.035
100-YEAR                0:10       0.116
100-YEAR                0:15       0.199
100-YEAR                0:20       0.302
100-YEAR                0:25       0.451
100-YEAR                0:30       0.650
100-YEAR                0:35       1.061
100-YEAR                0:40       1.794
100-YEAR                0:45       2.076
100-YEAR                0:50       2.248
100-YEAR                0:55       2.356
100-YEAR                1:00       2.449
100-YEAR                1:05       2.530
100-YEAR                1:10       2.565
100-YEAR                1:15       2.596
100-YEAR                1:20       2.623
100-YEAR                1:25       2.651
100-YEAR                1:30       2.679
100-YEAR                1:35       2.701
100-YEAR                1:40       2.727
100-YEAR                1:45       2.749
100-YEAR                1:50       2.772
100-YEAR                1:55       2.795
100-YEAR                2:00       2.820

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS -3385.997 -417.011 12727.273 10000.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
```

```
;;-------------- ------------------ ------------------
1                3699.964           5436.557
2                3747.016           5405.523
3                3979.276           5790.953
4                3509.709           4384.396
5                3565.848           4274.778
6                3697.975           4274.255
38               4336.752           8366.798
46               5534.618           7884.368
47               5284.519           7972.486
48               3725.993           5487.614
59               5783.936           7804.947
63               3546.723           3439.873
POND_5           5382.723           7816.748
POND_4B          4718.373           8286.223
POND_2           4083.549           6449.663
POND_1B          3535.829           3621.008

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
C1               3510.753           4619.645
C1               3547.794           4893.951
C1               3619.874           5129.214
L45              3532.904           3512.565

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
AA               3541.685           1548.643
AA               3594.767           1758.968
AA               3647.849           1969.293
AA               3479.589           1995.333
AA               3273.270           2127.537
AA               3283.285           2966.834
AA               3369.418           3225.233
AA               3721.963           3297.344
AA               3693.920           3439.564
AA               3591.762           3391.490
AA               3459.558           3351.428
AA               3277.276           3359.440
AA               3199.155           3351.428
AA               3041.912           3287.329
AA               2884.669           3223.230
AA               2391.908           2996.880
AA               2183.586           2980.855
AA               2031.351           2902.735
AA               1956.732           2254.905
AA               1868.058           1390.807
AA               1925.932           1307.871
```

AA	1906.445	984.931
AA	2761.122	522.793
AA	2936.511	572.904
AA	3120.253	926.468
AA	3323.482	1143.617
BB	3743.997	3276.797
BB	3743.040	3264.895
BB	3766.704	3229.399
BB	3797.327	3122.216
BB	3817.079	2930.410
BB	3812.639	2771.437
BB	3648.589	2017.416
BB	3492.348	2021.422
BB	3288.032	2157.633
BB	3300.051	3002.939
BB	3367.577	3233.749
BB	3487.711	3250.768
BB	3606.844	3288.810
BB	3696.945	3284.806
CC	3519.172	4181.413
CC	3692.365	3469.618
CC	3595.257	3415.558
CC	3463.109	3381.520
CC	3278.904	3387.527
CC	3381.018	4190.423
CC	3508.160	4190.423
DD	3457.478	5130.244
DD	3450.718	5135.753
DD	3443.957	5141.261
DD	3430.436	5152.278
DD	3403.394	5174.312
DD	3245.150	5194.343
DD	2704.314	5210.368
DD	2614.175	5198.349
DD	2618.181	5116.222
DD	2688.289	5106.207
DD	2732.357	5028.086
DD	2622.187	4849.811
DD	2341.754	4653.507
DD	2137.438	3018.982
DD	2409.859	3033.004
DD	2830.509	3223.298
DD	2992.760	3309.431
DD	3191.066	3381.542
DD	3271.190	3391.558
DD	3367.338	4198.805
DD	3509.558	4206.817
DD	3708.244	3489.750
DD	3816.748	3084.945
DD	3837.615	2771.951

DD	3706.157	2156.396
DD	3599.739	1693.165
DD	3503.754	1451.117
DD	3382.730	1200.722
DD	3272.139	1071.351
DD	3349.344	994.146
DD	3466.195	1181.942
DD	3599.739	1386.431
DD	3666.511	1572.141
DD	3802.142	2075.018
DD	3952.379	2640.494
DD	3971.159	2895.062
DD	3933.599	3091.205
DD	3868.914	3367.683
DD	3804.229	3644.161
DD	3836.571	3764.142
DD	3868.914	3884.123
DD	3804.229	4128.258
DD	3762.496	4307.708
DD	3758.323	4620.702
DD	3499.581	4649.914
DD	3501.546	4777.699
DD	3485.521	5072.154
EE	3235.134	5675.086
EE	3305.242	5637.027
EE	3597.694	5602.974
EE	3777.973	5502.820
EE	3643.765	5436.717
EE	3485.521	5442.727
EE	3437.447	5346.578
EE	3309.249	5294.498
EE	3132.976	5300.507
EE	2684.283	5256.439
EE	2616.178	5210.368
EE	2624.190	5284.482
EE	2501.914	5487.672
EE	2423.963	5541.960
EE	2586.825	5644.966
EE	2714.329	5699.123
EE	2988.753	5699.123
EE	3060.865	5719.154
EE	3181.050	5717.151
FF	2691.247	5245.429
FF	3121.092	5289.248
FF	3306.802	5287.161
FF	3419.480	5324.721
FF	3452.866	5347.673
FF	3496.685	5429.052
FF	3571.803	5429.052
FF	3657.355	5422.792

FF	3728.300	5458.265
FF	3674.048	5387.319
FF	3646.922	5310.114
FF	3613.536	5218.303
FF	3553.024	5026.333
FF	3509.205	4861.490
FF	3496.685	5053.459
FF	3469.559	5143.184
FF	3415.307	5182.830
FF	3231.683	5205.783
FF	2639.082	5203.696
GG	4285.043	6595.690
GG	4221.012	6272.750
GG	4162.157	6138.765
GG	3999.044	5856.070
GG	3947.008	5774.514
GG	3779.393	5516.336
GG	3613.719	5612.990
GG	3287.215	5653.052
GG	3205.088	5717.151
GG	3064.871	5735.178
GG	3034.825	5891.420
GG	3000.772	6033.640
GG	3006.781	6165.844
GG	3052.852	6268.002
GG	3225.745	6402.205
GG	3373.295	6542.795
GG	3504.141	6747.416
GG	3632.204	6750.200
GG	3824.297	6750.200
GG	4280.867	6611.002
HH	3669.875	5341.414
HH	3744.616	5492.725
HH	3747.142	5465.873
HH	3793.154	5508.384
HH	4144.645	6081.726
HH	4227.202	6269.355
HH	4303.811	6613.277
HH	3847.241	6752.475
HH	3518.733	6752.475
HH	3680.203	7181.206
HH	3908.488	7676.751
HH	4036.550	7821.517
HH	4092.230	7877.197
HH	4255.456	7973.245
HH	4437.358	7978.978
HH	4513.976	7927.899
HH	4597.369	7926.336
HH	4593.343	6696.796
HH	4777.085	6568.733

HH	4484.689	5565.801
HH	4334.521	5492.719
HH	4248.132	5510.827
HH	4155.321	5480.706
HH	4091.249	5390.605
HH	3987.870	5360.856
HH	4006.892	5276.762
HH	3933.810	5249.732
HH	3808.265	4954.034
HH	3762.253	4628.039
HH	3504.245	4651.425
HH	3498.235	4697.497
HH	3504.245	4749.577
HH	3512.257	4807.667
HH	3607.276	5174.483
II	4541.503	8397.400
II	4413.806	8376.031
II	4354.909	8364.564
II	4243.031	8287.666
II	4066.787	8288.708
II	4093.901	8231.351
II	4110.587	8095.778
II	4075.129	7879.905
II	4253.114	7980.623
II	4442.485	7984.185
II	4515.539	7938.845
II	4597.272	7936.130
II	4592.581	8402.612
MD2	5145.841	4656.062
MD2	5083.745	4700.130
MD2	5045.687	4740.192
MD2	4995.609	4776.248
MD2	4953.544	4822.319
MD2	4963.560	4940.502
MD2	4883.436	5024.632
MD2	4755.835	5012.317
MD2	4709.044	5011.077
MD2	4690.159	5123.293
MD2	4174.533	5152.787
MD2	4041.441	5209.826
MD2	4001.079	5357.522
MD2	4090.166	5385.362
MD2	4150.021	5481.408
MD2	4236.324	5507.160
MD2	4328.195	5486.976
MD2	4491.057	5566.319
MD2	4796.499	6593.166
MD2	4608.289	6737.327
MD2	4608.289	6964.581
MD2	4897.612	6942.556

MD2	4962.685	7201.846
MD2	5619.419	7011.633
MD2	5672.481	6905.599
MD2	5835.094	6767.503
MD2	5929.158	6682.445
MD2	5913.147	6600.388
MD2	5871.118	6548.352
MD2	5812.578	6459.791
MD2	5777.554	6361.724
MD2	5754.038	6274.163
MD2	5719.014	6166.589
MD2	5718.013	6078.028
MD2	5692.996	6007.980
MD2	5637.958	5905.409
MD2	5610.439	5800.837
MD2	5637.457	5687.759
MD2	5572.913	5610.206
MD2	5714.010	5128.374
MD2	5710.714	4880.409
MD2	5864.952	4640.038
MD5	4701.941	8457.687
MD5	4854.214	8429.794
MD5	4833.191	8281.628
MD5	4824.181	8148.479
MD5	4749.293	7935.428
MD5	4717.261	7716.776
MD5	4740.936	7578.900
MD5	4725.617	7435.453
MD5	4796.150	7182.400
MD5	4916.284	7070.275
MD5	4890.255	6949.140
MD5	4742.821	6971.053
MD5	4606.669	6981.065
MD5	4603.665	7935.130
MD5	4600.662	8398.648
MD5	4619.953	8455.823
ME	5203.064	8011.949
ME	5385.268	7949.880
ME	5425.313	7963.895
ME	5502.399	7932.861
ME	5547.449	7867.788
ME	5811.744	7798.711
ME	5851.789	7835.752
ME	5939.888	7828.744
ME	6067.030	7721.625
ME	6210.190	7579.466
ME	6265.251	7472.346
ME	6243.662	7343.669
ME	6085.485	7369.698
ME	5999.389	7339.665

```
ME               5864.688           7305.483
ME               5667.123           7223.446
ME               5617.067           7029.229
ME               4969.343           7216.438
ME               5182.041           7989.924
MO2              2012.062           2847.317
MO2              1953.998           2286.691
MO2              1754.775           2370.785
MO2              1759.781           2499.929
MO2              1834.865           2907.384
MO2              1941.984           2916.394
MO2              2013.064           2897.373
MO3              1336.303           2994.154
MO3              1138.641           2884.187
MO3              907.572            2803.452
MO3              720.516            2805.548
MO3              888.703            3000.767
MO3              966.036            3228.007
MO3              1147.993           3442.260
MO3              1433.742           3577.394
MO3              1528.418           3412.226
MO3              1530.420           3240.034
MO3              1360.230           3018.787
MO4              1883.352           3482.739
MO4              1883.352           3482.739
MO4              1883.352           3482.739
MO4              1855.512           3229.399
MO4              1861.080           3118.040
MO4              1838.808           2927.339
MO4              1946.990           2926.405
MO4              2021.158           2910.635
MO4              2089.365           3502.227
MO4              2007.238           3499.443
MO4              1880.568           3482.739

[SYMBOLS]
;;Gage            X-Coord            Y-Coord
;;--------------- ------------------ ------------------
RG               3640.165           9398.557

[LABELS]
;;X-Coord          Y-Coord            Label
4433.120           6809.212           "D1F" "" "Arial" 10 0 0


[BACKDROP]
FILE       "C:\Users\jts56\OneDrive - Matrix Design Group\Documents\+Matrix
Projects\Monument\2024.04.12 SWMM Modeling items\SWMM
2026.04.12\FINAL\0_INTERIM\BASIN LAYOUT-INTERIM.jpg"
DIMENSIONS -3008.536 -417.011 12446.009 9582.989
```

```
[PROFILES]
;;Name           Links
;;-------------- ----------
"EAST BYPASS     " BLD_MTN_OF L29 L28 L27 L26
"EAST BYPASS     " L24 L23 L22 29 L53-L54
```

EX CONDITIONS FOR INTERIM/PHASE I CONDITIONS POND ANALYSIS - Q100

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	16.029	2.820
Evaporation Loss	0.000	0.000
Infiltration Loss	7.093	1.248
Surface Runoff	8.996	1.583
Final Storage	0.049	0.009
Continuity Error (%)	-0.680	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	8.996	2.931

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	8.996	2.931
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	29.50 sec
Average Time Step	:	30.00 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	100.00 %
13.228 - 5.833 sec	:	0.00 %
5.833 - 2.572 sec	:	0.00 %
2.572 - 1.134 sec	:	0.00 %
1.134 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	2.82	0.00	0.00	1.66	0.08	1.09	1.17	0.48	35.32	0.415
BB	2.82	0.00	0.00	1.58	0.00	1.27	1.27	0.09	11.06	0.449
CC	2.82	0.00	0.00	0.00	2.80	0.00	2.80	0.08	9.06	0.994
DD	2.82	0.00	0.00	1.50	0.37	0.97	1.33	0.46	37.55	0.473
EE	2.82	0.00	0.00	1.04	0.91	0.88	1.79	0.09	11.20	0.636
FF	2.82	0.00	0.00	1.50	0.00	1.35	1.35	0.03	3.92	0.480
GG	2.82	0.00	0.00	1.35	0.30	1.18	1.49	0.20	23.42	0.527
HH	2.82	0.00	0.00	1.11	0.75	0.97	1.72	0.40	47.46	0.611
II	2.82	0.00	0.00	1.11	0.72	1.02	1.73	0.04	6.46	0.615
MD2	2.82	0.00	0.00	0.89	1.29	0.64	1.93	0.64	65.56	0.684
MD5	2.82	0.00	0.00	1.25	0.34	1.24	1.58	0.07	5.47	0.560
ME	2.82	0.00	0.00	0.65	1.36	0.82	2.18	0.19	24.21	0.773
MO2	2.82	0.00	0.00	0.43	1.98	0.41	2.39	0.03	4.36	0.847
MO3	2.82	0.00	0.00	0.60	1.65	0.57	2.22	0.08	11.16	0.788
MO4	2.82	0.00	0.00	0.46	1.93	0.43	2.36	0.05	6.16	0.837

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.00	0.00	7298.36	0 00:00	0.00
2	JUNCTION	0.00	0.00	7297.32	0 00:00	0.00
3	JUNCTION	0.00	0.00	7286.57	0 00:00	0.00
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
38	JUNCTION	0.00	0.00	7263.03	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
48	JUNCTION	0.00	0.00	7300.73	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
2	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
3	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
5	JUNCTION	0.00	0.00	0 00:00	0	0	0.000

```
 6                  JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 38                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 46                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 47                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 48                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 59                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 63                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 POND_5             OUTFALL      24.21    24.21     0  00:45        0.19
0.19       0.000
 POND_4B            OUTFALL     124.94   124.94     0  00:45        1.15
1.15       0.000
 POND_2             OUTFALL      38.54    38.54     0  00:45       0.315
0.315       0.000
 POND_1B            OUTFALL     114.67   114.67     0  00:45        1.28
1.28       0.000


  **********************
  Node Surcharge Summary
  **********************

  Surcharging occurs when water rises above the top of the highest conduit.
  -------------------------------------------------------------------------
                                          Max. Height   Min. Depth
                                Hours     Above Crown    Below Rim
  Node                Type    Surcharged         Feet         Feet
  -------------------------------------------------------------------------
  38                  JUNCTION    240.00         0.000       14.980


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  ************************
  Outfall Loading Summary
  ************************

  ---------------------------------------------------------
                        Flow       Avg       Max       Total
```

Outfall Node	Freq Pcnt	Flow CFS	Flow CFS	Volume 10^6 gal
POND_5	1.50	1.96	24.21	0.190
POND_4B	3.13	5.67	124.94	1.147
POND_2	1.21	4.04	38.54	0.315
POND_1B	1.83	10.79	114.67	1.279
System	1.92	22.46	302.36	2.931

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L34	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L35	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L45	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L53	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L32   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L35   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L45   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 19:02:12 2026
  Analysis ended on: Thu May 7 19:02:12 2026
  Total elapsed time: < 1 sec

EX CONDITIONS FOR INTERIM/PHASE I CONDITIONS POND ANALYSIS - Q50

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	14.313	2.518
Evaporation Loss	0.000	0.000
Infiltration Loss	6.891	1.212
Surface Runoff	7.470	1.314
Final Storage	0.049	0.009
Continuity Error (%)	-0.683	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	7.470	2.434

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	7.470	2.434
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	29.50 sec
Average Time Step	:	30.00 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	100.00 %
13.228 - 5.833 sec	:	0.00 %
5.833 - 2.572 sec	:	0.00 %
2.572 - 1.134 sec	:	0.00 %
1.134 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	2.52	0.00	0.00	1.61	0.07	0.84	0.91	0.38	27.05	0.363
BB	2.52	0.00	0.00	1.53	0.00	1.01	1.01	0.07	8.55	0.400
CC	2.52	0.00	0.00	0.00	2.50	0.00	2.50	0.07	8.08	0.993
DD	2.52	0.00	0.00	1.45	0.33	0.75	1.07	0.37	30.11	0.426
EE	2.52	0.00	0.00	1.01	0.81	0.71	1.52	0.07	9.38	0.603
FF	2.52	0.00	0.00	1.45	0.00	1.09	1.09	0.02	3.14	0.434
GG	2.52	0.00	0.00	1.31	0.27	0.95	1.22	0.16	19.01	0.485
HH	2.52	0.00	0.00	1.08	0.67	0.78	1.45	0.34	39.64	0.576
II	2.52	0.00	0.00	1.08	0.64	0.83	1.47	0.04	5.48	0.583
MD2	2.52	0.00	0.00	0.87	1.15	0.50	1.65	0.54	55.82	0.655
MD5	2.52	0.00	0.00	1.22	0.30	1.01	1.31	0.06	4.47	0.519
ME	2.52	0.00	0.00	0.63	1.21	0.69	1.90	0.17	21.04	0.753
MO2	2.52	0.00	0.00	0.41	1.76	0.34	2.11	0.03	3.87	0.837
MO3	2.52	0.00	0.00	0.59	1.47	0.47	1.94	0.07	9.78	0.770
MO4	2.52	0.00	0.00	0.44	1.72	0.35	2.07	0.04	5.42	0.824

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.00	0.00	7298.36	0 00:00	0.00
2	JUNCTION	0.00	0.00	7297.32	0 00:00	0.00
3	JUNCTION	0.00	0.00	7286.57	0 00:00	0.00
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
38	JUNCTION	0.00	0.00	7263.03	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
48	JUNCTION	0.00	0.00	7300.73	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
2	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
3	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
5	JUNCTION	0.00	0.00	0 00:00	0	0	0.000

```
 6                  JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 38                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 46                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 47                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 48                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 59                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 63                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 POND_5             OUTFALL      21.04    21.04     0  00:45       0.165
0.165       0.000
 POND_4B            OUTFALL     105.40   105.40     0  00:45       0.973
0.973       0.000
 POND_2             OUTFALL      31.53    31.53     0  00:45       0.261
0.261       0.000
 POND_1B            OUTFALL      92.67    92.67     0  00:45        1.03
1.03       0.000


  **********************
  Node Surcharge Summary
  **********************

  Surcharging occurs when water rises above the top of the highest conduit.
  -------------------------------------------------------------------------
                                          Max. Height   Min. Depth
                                Hours     Above Crown    Below Rim
  Node                Type    Surcharged         Feet         Feet
  -------------------------------------------------------------------------
  38                  JUNCTION    240.00         0.000       14.980


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  ************************
  Outfall Loading Summary
  ************************

  ---------------------------------------------------------
                        Flow       Avg       Max       Total
```

Outfall Node	Freq Pcnt	Flow CFS	Flow CFS	Volume 10^6 gal
POND_5	1.50	1.71	21.04	0.165
POND_4B	3.12	4.82	105.40	0.973
POND_2	1.20	3.35	31.53	0.261
POND_1B	1.83	8.73	92.67	1.035
System	1.91	18.61	250.64	2.434

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L34	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L35	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L45	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L53	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L32   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L35   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L45   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 19:01:39 2026
  Analysis ended on: Thu May 7 19:01:39 2026
  Total elapsed time: < 1 sec

EX CONDITIONS FOR INTERIM/PHASE I CONDITIONS POND ANALYSIS - Q25

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	12.721	2.238
Evaporation Loss	0.000	0.000
Infiltration Loss	6.657	1.171
Surface Runoff	6.099	1.073
Final Storage	0.049	0.009
Continuity Error (%)	-0.658	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	6.099	1.987

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	6.099	1.987
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	29.50 sec
Average Time Step	:	30.00 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	100.00 %
13.228 - 5.833 sec	:	0.00 %
5.833 - 2.572 sec	:	0.00 %
2.572 - 1.134 sec	:	0.00 %
1.134 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	2.24	0.00	0.00	1.56	0.06	0.62	0.69	0.28	20.36	0.308
BB	2.24	0.00	0.00	1.48	0.00	0.77	0.77	0.06	6.40	0.346
CC	2.24	0.00	0.00	0.00	2.22	0.00	2.22	0.06	7.16	0.991
DD	2.24	0.00	0.00	1.40	0.29	0.55	0.84	0.29	23.95	0.376
EE	2.24	0.00	0.00	0.98	0.72	0.55	1.27	0.06	7.74	0.568
FF	2.24	0.00	0.00	1.41	0.00	0.85	0.85	0.02	2.43	0.382
GG	2.24	0.00	0.00	1.27	0.24	0.74	0.98	0.13	15.02	0.437
HH	2.24	0.00	0.00	1.05	0.59	0.61	1.20	0.28	32.52	0.536
II	2.24	0.00	0.00	1.04	0.57	0.65	1.22	0.03	4.54	0.545
MD2	2.24	0.00	0.00	0.84	1.02	0.37	1.40	0.46	47.25	0.624
MD5	2.24	0.00	0.00	1.19	0.27	0.79	1.06	0.05	3.59	0.473
ME	2.24	0.00	0.00	0.61	1.07	0.56	1.63	0.14	18.05	0.730
MO2	2.24	0.00	0.00	0.40	1.56	0.28	1.84	0.03	3.40	0.823
MO3	2.24	0.00	0.00	0.57	1.31	0.37	1.68	0.06	8.46	0.749
MO4	2.24	0.00	0.00	0.43	1.53	0.28	1.81	0.04	4.72	0.807

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.00	0.00	7298.36	0 00:00	0.00
2	JUNCTION	0.00	0.00	7297.32	0 00:00	0.00
3	JUNCTION	0.00	0.00	7286.57	0 00:00	0.00
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
38	JUNCTION	0.00	0.00	7263.03	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
48	JUNCTION	0.00	0.00	7300.73	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
2	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
3	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
5	JUNCTION	0.00	0.00	0 00:00	0	0	0.000

```
 6                  JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 38                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 46                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 47                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 48                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 59                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 63                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 POND_5             OUTFALL      18.05    18.05     0  00:45       0.142
0.142       0.000
 POND_4B            OUTFALL      87.90    87.90     0  00:45       0.815
0.815       0.000
 POND_2             OUTFALL      25.19    25.19     0  00:45       0.211
0.211       0.000
 POND_1B            OUTFALL      74.11    74.11     0  00:45       0.818
0.818       0.000


  **********************
  Node Surcharge Summary
  **********************

  Surcharging occurs when water rises above the top of the highest conduit.
  ------------------------------------------------------------------------
                                          Max. Height   Min. Depth
                                Hours     Above Crown    Below Rim
  Node                Type    Surcharged         Feet         Feet
  ------------------------------------------------------------------------
  38                  JUNCTION    240.00         0.000       14.980


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  ************************
  Outfall Loading Summary
  ************************

  ---------------------------------------------------------
                        Flow       Avg       Max       Total
```

Outfall Node	Freq Pcnt	Flow CFS	Flow CFS	Volume 10^6 gal
POND_5	1.49	1.47	18.05	0.142
POND_4B	3.12	4.05	87.90	0.815
POND_2	1.20	2.72	25.19	0.211
POND_1B	1.83	6.92	74.11	0.818
System	1.91	15.16	205.26	1.987

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L34	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L35	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L45	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L53	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L32   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L35   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L45   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 19:00:59 2026
  Analysis ended on: Thu May 7 19:00:59 2026
  Total elapsed time: < 1 sec

EX CONDITIONS FOR INTERIM/PHASE I CONDITIONS POND ANALYSIS - Q10

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	11.130	1.958
Evaporation Loss	0.000	0.000
Infiltration Loss	6.370	1.121
Surface Runoff	4.778	0.841
Final Storage	0.049	0.009
Continuity Error (%)	-0.603	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	4.778	1.557

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	4.778	1.557
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	29.50 sec
Average Time Step	:	30.00 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	100.00 %
13.228 - 5.833 sec	:	0.00 %
5.833 - 2.572 sec	:	0.00 %
2.572 - 1.134 sec	:	0.00 %
1.134 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	1.96	0.00	0.00	1.49	0.06	0.42	0.48	0.20	14.23	0.244
BB	1.96	0.00	0.00	1.42	0.00	0.55	0.55	0.04	4.44	0.281
CC	1.96	0.00	0.00	0.00	1.94	0.00	1.94	0.05	6.24	0.988
DD	1.96	0.00	0.00	1.34	0.25	0.37	0.62	0.22	18.44	0.319
EE	1.96	0.00	0.00	0.94	0.63	0.40	1.03	0.05	6.17	0.524
FF	1.96	0.00	0.00	1.35	0.00	0.62	0.62	0.01	1.75	0.318
GG	1.96	0.00	0.00	1.23	0.21	0.53	0.74	0.10	11.29	0.379
HH	1.96	0.00	0.00	1.01	0.52	0.44	0.96	0.22	25.76	0.489
II	1.96	0.00	0.00	1.00	0.50	0.48	0.98	0.02	3.60	0.499
MD2	1.96	0.00	0.00	0.80	0.89	0.26	1.15	0.38	39.12	0.587
MD5	1.96	0.00	0.00	1.14	0.23	0.59	0.82	0.04	2.79	0.420
ME	1.96	0.00	0.00	0.58	0.94	0.44	1.38	0.12	15.08	0.702
MO2	1.96	0.00	0.00	0.38	1.37	0.21	1.57	0.02	2.93	0.803
MO3	1.96	0.00	0.00	0.54	1.14	0.28	1.42	0.05	7.12	0.723
MO4	1.96	0.00	0.00	0.41	1.33	0.21	1.54	0.03	4.00	0.787

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.00	0.00	7298.36	0 00:00	0.00
2	JUNCTION	0.00	0.00	7297.32	0 00:00	0.00
3	JUNCTION	0.00	0.00	7286.57	0 00:00	0.00
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
38	JUNCTION	0.00	0.00	7263.03	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
48	JUNCTION	0.00	0.00	7300.73	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
2	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
3	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
5	JUNCTION	0.00	0.00	0 00:00	0	0	0.000

```
 6                  JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 38                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 46                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 47                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 48                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 59                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 63                 JUNCTION      0.00     0.00     0  00:00           0
0       0.000 gal
 POND_5             OUTFALL      15.08    15.08     0  00:45        0.12
0.12       0.000
 POND_4B            OUTFALL      71.29    71.29     0  00:45       0.661
0.661      0.000
 POND_2             OUTFALL      19.21    19.21     0  00:45       0.163
0.163      0.000
 POND_1B            OUTFALL      57.22    57.22     0  00:45       0.613
0.613      0.000


  **********************
  Node Surcharge Summary
  **********************

  Surcharging occurs when water rises above the top of the highest conduit.
  -------------------------------------------------------------------------
                                          Max. Height   Min. Depth
                                Hours     Above Crown    Below Rim
  Node                Type    Surcharged         Feet         Feet
  -------------------------------------------------------------------------
  38                  JUNCTION    240.00         0.000      14.980


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  ************************
  Outfall Loading Summary
  ************************

  ---------------------------------------------------------
                        Flow       Avg       Max       Total
```

Outfall Node	Freq Pcnt	Flow CFS	Flow CFS	Volume 10^6 gal
POND_5	1.49	1.25	15.08	0.120
POND_4B	3.11	3.29	71.29	0.661
POND_2	1.20	2.10	19.21	0.163
POND_1B	1.82	5.20	57.22	0.613
System	1.91	11.83	162.80	1.557

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L34	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L35	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L45	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L53	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L32   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L35   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L45   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:59:43 2026
  Analysis ended on: Thu May 7 18:59:43 2026
  Total elapsed time: < 1 sec

EX CONDITIONS FOR INTERIM/PHASE I CONDITIONS POND ANALYSIS - Q5

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	9.544	1.679
Evaporation Loss	0.000	0.000
Infiltration Loss	6.020	1.059
Surface Runoff	3.525	0.620
Final Storage	0.049	0.009
Continuity Error (%)	-0.531	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	3.525	1.149

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	3.525	1.149
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	29.50 sec
Average Time Step	:	30.00 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	100.00 %
13.228 - 5.833 sec	:	0.00 %
5.833 - 2.572 sec	:	0.00 %
2.572 - 1.134 sec	:	0.00 %
1.134 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	1.68	0.00	0.00	1.40	0.05	0.24	0.28	0.12	8.84	0.169
BB	1.68	0.00	0.00	1.35	0.00	0.34	0.34	0.02	2.66	0.200
CC	1.68	0.00	0.00	0.00	1.65	0.00	1.65	0.05	5.33	0.985
DD	1.68	0.00	0.00	1.26	0.22	0.21	0.42	0.15	13.48	0.252
EE	1.68	0.00	0.00	0.89	0.54	0.25	0.79	0.04	4.66	0.468
FF	1.68	0.00	0.00	1.28	0.00	0.41	0.41	0.01	1.16	0.243
GG	1.68	0.00	0.00	1.16	0.18	0.34	0.52	0.07	8.02	0.311
HH	1.68	0.00	0.00	0.96	0.44	0.28	0.72	0.17	19.67	0.432
II	1.68	0.00	0.00	0.95	0.42	0.31	0.74	0.02	2.66	0.439
MD2	1.68	0.00	0.00	0.76	0.76	0.15	0.91	0.30	31.41	0.543
MD5	1.68	0.00	0.00	1.09	0.20	0.40	0.60	0.03	2.05	0.355
ME	1.68	0.00	0.00	0.56	0.80	0.32	1.12	0.10	12.09	0.666
MO2	1.68	0.00	0.00	0.36	1.17	0.14	1.30	0.02	2.45	0.776
MO3	1.68	0.00	0.00	0.52	0.97	0.18	1.16	0.04	5.74	0.689
MO4	1.68	0.00	0.00	0.39	1.14	0.14	1.28	0.03	3.28	0.760

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.00	0.00	7298.36	0 00:00	0.00
2	JUNCTION	0.00	0.00	7297.32	0 00:00	0.00
3	JUNCTION	0.00	0.00	7286.57	0 00:00	0.00
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
38	JUNCTION	0.00	0.00	7263.03	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
48	JUNCTION	0.00	0.00	7300.73	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
2	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
3	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
5	JUNCTION	0.00	0.00	0 00:00	0	0	0.000

6		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
38		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
46		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
47		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
48		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
59		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
63		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
POND_5		OUTFALL	12.09	12.09	0	00:45	0.0975	0.0975
0.0975	0.000							
POND_4B		OUTFALL	55.78	55.78	0	00:45	0.513	0.513
0.513	0.000							
POND_2		OUTFALL	13.84	13.84	0	00:45	0.117	0.117
0.117	0.000							
POND_1B		OUTFALL	41.76	41.76	0	00:45	0.421	0.421
0.421	0.000							

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
38	JUNCTION	240.00	0.000	14.980

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

	Flow	Avg	Max	Total

Outfall Node	Freq Pcnt	Flow CFS	Flow CFS	Volume 10^6 gal
POND_5	1.48	1.02	12.09	0.097
POND_4B	3.10	2.56	55.78	0.513
POND_2	1.20	1.51	13.84	0.117
POND_1B	1.82	3.58	41.76	0.421
System	1.90	8.66	123.48	1.149

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L34	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L35	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L45	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L53	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L32   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L35   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L45   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:58:40 2026
  Analysis ended on: Thu May 7 18:58:40 2026
  Total elapsed time: < 1 sec

EX CONDITIONS FOR INTERIM/PHASE I CONDITIONS POND ANALYSIS - Q2

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	7.571	1.332
Evaporation Loss	0.000	0.000
Infiltration Loss	5.397	0.950
Surface Runoff	2.158	0.380
Final Storage	0.049	0.009
Continuity Error (%)	-0.445	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	2.158	0.703

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	2.158	0.703
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	29.50 sec
Average Time Step	:	30.00 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	100.00 %
13.228 - 5.833 sec	:	0.00 %
5.833 - 2.572 sec	:	0.00 %
2.572 - 1.134 sec	:	0.00 %
1.134 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	1.33	0.00	0.00	1.24	0.04	0.06	0.10	0.04	3.78	0.072
BB	1.33	0.00	0.00	1.24	0.00	0.10	0.10	0.01	0.92	0.077
CC	1.33	0.00	0.00	0.00	1.30	0.00	1.30	0.04	4.20	0.979
DD	1.33	0.00	0.00	1.11	0.17	0.05	0.22	0.08	8.35	0.166
EE	1.33	0.00	0.00	0.82	0.42	0.08	0.51	0.02	2.97	0.379
FF	1.33	0.00	0.00	1.18	0.00	0.16	0.16	0.00	0.50	0.123
GG	1.33	0.00	0.00	1.06	0.14	0.13	0.27	0.04	4.45	0.205
HH	1.33	0.00	0.00	0.87	0.35	0.11	0.46	0.11	12.80	0.344
II	1.33	0.00	0.00	0.89	0.33	0.12	0.45	0.01	1.50	0.338
MD2	1.33	0.00	0.00	0.68	0.60	0.04	0.64	0.21	22.64	0.481
MD5	1.33	0.00	0.00	0.99	0.16	0.19	0.35	0.01	1.31	0.260
ME	1.33	0.00	0.00	0.52	0.63	0.18	0.81	0.07	8.60	0.607
MO2	1.33	0.00	0.00	0.34	0.92	0.07	0.98	0.01	1.81	0.739
MO3	1.33	0.00	0.00	0.48	0.77	0.07	0.84	0.03	3.97	0.632
MO4	1.33	0.00	0.00	0.37	0.90	0.06	0.95	0.02	2.36	0.716

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.00	0.00	7298.36	0 00:00	0.00
2	JUNCTION	0.00	0.00	7297.32	0 00:00	0.00
3	JUNCTION	0.00	0.00	7286.57	0 00:00	0.00
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
38	JUNCTION	0.00	0.00	7263.03	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
48	JUNCTION	0.00	0.00	7300.73	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
2	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
3	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000
5	JUNCTION	0.00	0.00	0 00:00	0	0	0.000

6		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
38		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
46		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
47		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
48		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
59		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
63		JUNCTION	0.00	0.00	0	00:00	0	0
0	0.000 gal							
POND_5		OUTFALL	8.60	8.60	0	00:45	0.0705	0.0705
0.000								
POND_4B		OUTFALL	38.25	38.25	0	00:45	0.344	0.344
0.000								
POND_2		OUTFALL	7.92	7.92	0	00:45	0.0647	0.0647
0.000								
POND_1B		OUTFALL	25.30	25.30	0	00:45	0.224	0.224
0.000								

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
38	JUNCTION	240.00	0.000	14.980

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

	Flow	Avg	Max	Total

Outfall Node	Freq Pcnt	Flow CFS	Flow CFS	Volume 10^6 gal
POND_5	1.48	0.74	8.60	0.071
POND_4B	3.09	1.72	38.25	0.344
POND_2	1.19	0.84	7.92	0.065
POND_1B	1.81	1.91	25.30	0.224
System	1.89	5.21	80.07	0.703

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L34	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L35	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L45	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L53	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L32   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L35   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L45   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:57:02 2026
  Analysis ended on: Thu May 7 18:57:02 2026
  Total elapsed time: < 1 sec

```
[TITLE]
;;Project Title/Notes
INTERIM/PHASE I CONDITIONS SWMM MODEL FOR POND ANALYSIS


[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         DYNWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           04/16/2026
START_TIME           00:00:00
REPORT_START_DATE    04/16/2026
REPORT_START_TIME    00:00:00
END_DATE             04/26/2026
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:05:00
WET_STEP             00:05:00
DRY_STEP             00:05:00
ROUTING_STEP         0:00:30
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.566
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
CONSTANT         0.0
DRY_ONLY         NO

[RAINGAGES]
```

```
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
RG               CUMULATIVE 0:05     1.0      TIMESERIES 100-YEAR

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope
  CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- --------
-------- -------- ----------------
AA               RG               POND_1A          15.16    2.9      1007     3.07
  0
BB               RG               POND_1A          2.74     0        358      4.96
  0
CC               RG               pond_1b          1.03     100      312      1.54
  0
DD               RG               POND_1B          12.75    13.10    785      2.60
  0
EE               RG               48               1.81     32.6     242      4.26
  0
FF               RG               1                0.8      0.0      142      4.70
  0
GG               RG               POND_2           4.9      10.82    870      2.28
  0
HH               RG               28               8.56     26.75    1243     2.39
  0
II               RG               F8               .9       25.56    267      4.86
  0
JJ               RG               EX-WETLAND       6.78     16.09    710      3.61
  0
MD2              RG               30               12.16    46.09    593      3.22
  0
MD5              RG               POND_4B          1.58     12.03    241      0.49
  0
ME               RG               F18              3.21     48.40    539      2.77
  0
MO2              RG               POND_1A          .51      70.59    257      5.63
  0
MO3              RG               POND_1B          1.36     58.97    326      5.63
  0
MO4              RG               POND_1B          .74      68.92    201      2.16
  0
MO5              RG               BALD_MTN_DETENTION 60.15    39.41    1736     4.89
    0
MO6              RG               BALD_MTN_DETENTION .63      0.0      161      3.20
    0
MO7A             RG               49               65.57    30.35    2062     5.11
  0
MO7B             RG               49               18.4     33.87    1121     4.02
  0
MO8              RG               EX-WETLAND       1.38     58       176      7.33
```

0

[SUBAREAS]

;;Subcatchment	N-Imperv	N-Perv	S-Imperv	S-Perv	PctZero	RouteTo	PctRouted
AA	0.013	0.1	0.05	0.05	25	OUTLET	
BB	0.013	0.1	0.05	0.05	25	OUTLET	
CC	0.013	0.1	0.05	0.05	25	OUTLET	
DD	0.013	0.1	0.05	0.05	25	OUTLET	
EE	0.013	0.1	0.05	0.05	25	OUTLET	
FF	0.013	0.1	0.05	0.05	25	OUTLET	
GG	0.013	0.1	0.05	0.05	25	OUTLET	
HH	0.013	0.1	0.05	0.05	25	OUTLET	
II	0.013	0.1	0.05	0.05	25	OUTLET	
JJ	0.013	0.1	0.05	0.05	25	OUTLET	
MD2	0.013	0.1	0.05	0.05	25	OUTLET	
MD5	0.013	0.1	0.05	0.05	25	OUTLET	
ME	0.013	0.1	0.05	0.05	25	OUTLET	
MO2	0.013	0.1	0.05	0.05	25	OUTLET	
MO3	0.013	0.1	0.05	0.05	25	OUTLET	
MO4	0.013	0.1	0.05	0.05	25	OUTLET	
MO5	0.013	0.1	0.05	0.05	25	OUTLET	
MO6	0.013	0.1	0.05	0.05	25	OUTLET	
MO7A	0.013	0.1	0.05	0.05	25	OUTLET	
MO7B	0.013	0.1	0.05	0.05	25	OUTLET	
MO8	0.013	0.1	0.05	0.05	25	OUTLET	

[INFILTRATION]

;;Subcatchment	Param1	Param2	Param3	Param4	Param5
AA	4.5	.6	6.48	7	0
BB	4.5	.6	6.48	7	0
CC	4.5	.6	6.48	7	0
DD	4.5	.6	6.48	7	0
EE	4.5	.6	6.48	7	0
FF	3.0	0.5	4	7	0
GG	3.0	0.5	4	7	0
HH	3.0	0.5	4	7	0
II	4.5	.6	6.48	7	0
JJ	3.0	0.5	6.48	7	0
MD2	4.5	.6	6.48	7	0
MD5	3.0	0.5	6.48	7	0
ME	3.0	0.5	6.48	7	0
MO2	4.5	.6	6.48	7	0
MO3	4.5	.6	6.48	7	0
MO4	4.5	.6	6.48	7	0
MO5	4.5	.6	6.48	7	0
MO6	3.0	0.5	6.48	7	0

```
MO7A            4.5         .6          6.48        7           0
MO7B            4.5         .6          6.48        7           0
MO8             4.5         .6          6.48        7           0

[JUNCTIONS]
;;Name          Elevation   MaxDepth    InitDepth   SurDepth    Aponded
;;--------------- ---------- ---------- ---------- ---------- ----------
1               7298.36     6.24        0           0           0
;5+42.79
2               7297.32     6.54        0           0           0
;3+47
3               7286.57     12.71       0           0           0
;10+19.62
4               7305.11     6.93        0           0           0
;10+75.93
;DP X4
5               7305.93     5.25        0           0           0
;11+34.93
6               7306.71     4.75        0           0           0
23              7305.63     6.17        0           0           0
24              7305.15     9.91        0           0           0
;2+27.49
27              7267.94     5.34        0           0           0
;1+70.49
28              7266.38     6.9         0           0           0
;1+70.49
29              7266.56     7.39        0           .58         200
30              7267.58     6.51        0           0           0
31              7272.09     5.96        0           0           0
32              7277.02     5.96        0           0           0
33              7279.33     4.14        0           0           0
34              7278.07     5.42        0           0           0
35              7268.24     5.71        0           0           0
36              7270.3      6.75        0           0           0
37              7266.78     6.77        0           0           0
38              7263.03     14.98       0           0           0
;1+82.72
39              7259.04     7.08        0           0           0
;1+73.51
40              7276.76     12.09       0           0           0
41              7284.4      12.3        0           0           0
42              7283.63     7.99        0           0           0
;16+11.39
43              7281.82     12.18       0           0           0
;12+08.38
44              7276.49     9.39        0           0           0
;7+05.83
45              7267.94     12.9        0           0           0
;2+77.41
46              7263.99     13.87       0           0           0
```

```
;1+20.17
47               7262.97    9.67       0          0          0
48               7300.73    3.84       0          0          0
;1+39.82
49               7270.5     8.5        0          6          1440
;3+90.64
59               7266.16    15.6       0          0          0
;2+10.58
61               7315.51    5.67       0          0          0
;1+74.42
62               7311.98    8.75       0          0          0
;1+42.24
63               7308.96    8.73       0          0          0
64               7271.16    4          0          0          0
F18              7272.70    3.67       0          0          0
F8               7268.64    4.46       0          0          0
pnd_4_Outlet     7260.33    7.12       0          0          0
POND_3FUT        7268.72    4.83       0          0          0
POND_5_OUT       7266.83    2          0          0          0
CNTY_LN_RD       7254.51    9          0          0          0

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
SITE_OUTFALL     7254.51    FREE                        NO
RD_OVERTOP       0          FREE                        NO

[STORAGE]
;;Name           Elev.    MaxDepth   InitDepth  Shape      Curve Type/Params
   SurDepth  Fevap    Psi      Ksat     IMD
;;-------------- -------- ---------- ----------- ----------
---------------------------- --------- --------          -------- --------
EX-WETLAND       7256.98  8.44       0          TABULAR    EX_WETLAND
   0         0
;DOWNSTREAM PORTION OF POND 4
POND_4B          7261.33  5.85       0          TABULAR    POND_4B_STG-AREA
   0         0
;UPSTREAM PORTION OF POND 4
POND_4A          7264.26  5.85       0          TABULAR    POND_4A-STG-AREA
   0         0
POND_5           7269.33  4.7        0          TABULAR    POND_5
   0         0
POND_2           7273.33  4.4        0          TABULAR    POND_2_PH2
   0         0
;DOWNSTREAM PORTION OF POND 1.
POND_1B          7306.33  6.17       0          TABULAR    POND_1B
   0         0
;UPSTREAM PORTION OF POND 1.
POND_1A          7316.0   6          0          TABULAR    POND_1A
   0         0
```

```
;EXISTING POND RECIEVING FLOWS FROM THE DOWNSTREAM PORTION OF PR POND 1
BALD_MTN_DETENTION 7291     5.7        0          TABULAR    BALD_MTN_DET
     0         0

[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset
OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ----------
---------- ---------- ----------
26               POND_1A          POND_1B          89.78      .013       0
7.62       0          0
29               47               EX-WETLAND       32.17      .013       0
5.79       0          0
53               F8               POND_4B          80.56      .013       0
1.87       0          0
54               POND_5_OUT       EX-WETLAND       63.97      .013       0
6.31       0          0
BLD_MTN_OF       BALD_MTN_DETENTION 41               14         .013       0
 4.22       0          0
C1               4                2                466.5      .013       0
1.84       0          0
EX_MISTY_AC_BLVD_PIPE 24              BALD_MTN_DETENTION 82         .013       0
      11.5       0          0
L1               39               EX-WETLAND       56.72      .013       0
.95        0          0
L10              28               POND_4A          64.49      .013       0
1.36       0          0
L11              27               28               53         .013       0
.5         0          0
L12              29               POND_4A          39.92      .013       0
1.73       0          0
L13              30               29               26.02      .013       0
.5         0          0
L14              35               30               6.16       .013       0
.25        0          0
L15              31               30               182.61     .013       0
.25        0          0
L16              32               31               273.78     .013       0
.25        0          0
L17              34               32               6.43       .013       0
.5         0          0
L18              33               32               28.78      .013       0
.5         0          0
L2               pnd_4_Outlet     39               36.4       .013       0
1          0          0
L20              F18              POND_5           45.32      .013       0
1.78       0          0
L22              46               47               153.24     .013       0
.25        0          0
L23              59               46               109.24     .013       0
```

```
1          0          0
L24                45                 59                 306.1      .013       0
.25        0          0
L25                49                 45                 35.27      .013       0
2          0          0
L26                44                 45                 493.46     .013       0
2.5        0          0
L27                43                 44                 399.01     .013       0
.25        0          0
L28                42                 43                 162.73     .013       0
.25        0          0
L29                41                 42                 52.42      .013       0
1          0          0
L3                 38                 39                 194.35     .013       0
1          0          0
L30                40                 POND_2             62.76      .013       0
1.49       0          0
L31                3                  40                 170.49     .013       0
5.21       0          0
L32                5                  4                  56.31      .013       0
.25        0          0
;11+34.93 TO 10+81.93
;FLOWS DIRECTED TO INLET WHERE TOTAL COMBINED
;FLOW WOULD DISCHARGE DOWNSTREAM.
L33                6                  5                  53         .013       0
.25        0          0
L34                1                  2                  20.2       .013       0
.5         0          0
L35                48                 1                  22.58      .013       0
1.5        0          0
L4                 37                 38                 495.19     .013       0
.28        0          0
L44                23                 24                 62.72      .013       0
0.17       0          0
L45                63                 POND_1B            36.24      .013       0
2.09       0          0
L46                62                 63                 16         .013       0
1.32       0          0
L47                61                 62                 44.34      .013       0
1.32       0          0
L5                 POND_3FUT          37                 16         .013       0
1.5        0          0
L53                2                  3                  189.79     .013       0
6.04       0          0
L6                 36                 37                 251.64     .013       0
1          0          0
L7                 64                 36                 56.61      .013       0
.25        0          0
L9                 POND_4A            POND_4B            317        .013       0
1.28       0          0
```

```
58               CNTY_LN_RD       SITE_OUTFALL     10         .013       0
0          0          0

[ORIFICES]
;;Name           From Node        To Node          Type         Offset     Qcoeff
 Gated    CloseTime
;;-------------- ---------------- ---------------- ------------ ----------
---------- -------- ----------
GRATE            BALD_MTN_DETENTION 41               BOTTOM       5          0.65
   NO       0
PND_5_OF_1       POND_5           POND_5_OUT       SIDE         0          0.65
 NO       0
PND_5_OF_2       POND_5           POND_5_OUT       SIDE         1          0.65
 NO       0
PND_5_OF_3       POND_5           POND_5_OUT       SIDE         2          0.65
 NO       0
PND_5_OF_4       POND_5           POND_5_OUT       SIDE         3          0.65
 NO       0
PND_4B_OF_1      POND_4B          pnd_4_Outlet     SIDE         0          0.65
 NO       0
PND_4B_OF_2      POND_4B          pnd_4_Outlet     SIDE         1.5        0.65
 NO       0
PND_4B_OF_3      POND_4B          pnd_4_Outlet     SIDE         2.5        0.65
 NO       0
PND_4B_OF_4      POND_4B          pnd_4_Outlet     SIDE         3          0.65
 NO       0
PND_4B_OF_5      POND_4B          pnd_4_Outlet     SIDE         3.5        0.65
 NO       0
;5X5 GRATE REDUCED BY 50%
PND_4B_GRATE     POND_4B          pnd_4_Outlet     BOTTOM       4.63       0.65
 NO       0
PND_5_GRATE      POND_5           POND_5_OUT       BOTTOM       4.02       0.65
 NO       0
PND_2_OF_1       POND_2           64               SIDE         0          0.65
 NO       0
PND_2_OF_2       POND_2           64               SIDE         1          0.65
 NO       0
PND_2_OF_3       POND_2           64               SIDE         2          0.65
 NO       0
;5'X5' BOX REDUCED BY 50% FOR CLOGGING.
PND_2_GRATE      POND_2           64               BOTTOM       2.6        0.65
 NO       0
PND_1_OF_1       POND_1B          23               SIDE         0          0.65
 NO       0
PND_1_OF_2       POND_1B          23               SIDE         .33        0.65
 NO       0
PND_1_OF_3       POND_1B          23               SIDE         .33        0.65
 NO       0
PND_1_OF_4       POND_1B          23               SIDE         .66        0.65
 NO       0
```

```
PND_1_OF_5       POND_1B          23               SIDE         .66        0.65
 NO       0
PND_1_OF_6       POND_1B          23               SIDE         1          0.65
 NO       0
PND_1_OF_7       POND_1B          23               SIDE         1          0.65
 NO       0
;5X5 GRATE REDUCED BY 50%
PND_1_GRATE      POND_1B          23               BOTTOM       3.93       0.65
 NO       0
CNTY_LN_RD_CULV_1_EX EX-WETLAND       CNTY_LN_RD       SIDE         0          0.65
     NO       0
CNTY_LN_RD_CULV_2 EX-WETLAND       CNTY_LN_RD       SIDE         0          0.65
  NO       0
CNTY_LN_RD_CULV_3 EX-WETLAND       CNTY_LN_RD       SIDE         0          0.65
  NO       0

[WEIRS]
;;Name           From Node        To Node          Type         CrestHt    Qcoeff
 Gated    EndCon   EndCoeff   Surcharge  RoadWidth  RoadSurf   Coeff. Curve
;;-------------- ---------------- ---------------- ------------ ----------
---------- -------- -------- ---------- ---------- ---------- ----------
---------------
CTY_LN_RD        EX-WETLAND       RD_OVERTOP       ROADWAY      6.44       3.33
 NO       0        0          YES        0          PAVED

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4
Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ----------
---------- ----------
26               CIRCULAR     2.5              0          0          0          1

29               CIRCULAR     6.5              0          0          0          1

53               CIRCULAR     1.5              0          0          0          1

54               CIRCULAR     1.5              0          0          0          1

BLD_MTN_OF       CIRCULAR     3                0          0          0          1

C1               CIRCULAR     2                0          0          0          1

EX_MISTY_AC_BLVD_PIPE CIRCULAR     4                0          0          0
1
L1               CIRCULAR     4                0          0          0          1

L10              CIRCULAR     2.5              0          0          0          1

L11              CIRCULAR     2                0          0          0          1
```

L12	CIRCULAR	3	0	0	0	1
L13	CIRCULAR	2.5	0	0	0	1
L14	CIRCULAR	2.5	0	0	0	1
L15	CIRCULAR	2.5	0	0	0	1
L16	CIRCULAR	2.5	0	0	0	1
L17	CIRCULAR	2	0	0	0	1
L18	CIRCULAR	2	0	0	0	1
L2	CIRCULAR	3	0	0	0	1
L20	CIRCULAR	1.5	0	0	0	1
L22	CIRCULAR	6.5	0	0	0	1
L23	CIRCULAR	6.5	0	0	0	1
L24	CIRCULAR	6.5	0	0	0	1
L25	CIRCULAR	4.5	0	0	0	1
L26	CIRCULAR	4	0	0	0	1
L27	CIRCULAR	4	0	0	0	1
L28	CIRCULAR	4	0	0	0	1
L29	CIRCULAR	3	0	0	0	1
L3	CIRCULAR	3	0	0	0	1
L30	CIRCULAR	3.5	0	0	0	1
L31	CIRCULAR	3.5	0	0	0	1
L32	CIRCULAR	2	0	0	0	1
L33	CIRCULAR	2	0	0	0	1
L34	CIRCULAR	3	0	0	0	1
L35	CIRCULAR	1.5	0	0	0	1
L4	CIRCULAR	3	0	0	0	1

```
L44              CIRCULAR     2               0          0          0          1

L45              CIRCULAR     1               0          0          0          1

L46              CIRCULAR     2.5             0          0          0          1

L47              CIRCULAR     2.5             0          0          0          1

L5               CIRCULAR     1.5             0          0          0          1

L53              CIRCULAR     3.5             0          0          0          1

L6               CIRCULAR     3               0          0          0          1

L7               CIRCULAR     3               0          0          0          1

L9               CIRCULAR     2.5             0          0          0          1

58               TRIANGULAR   10              0200       0          0          1

GRATE            RECT_CLOSED  4               7          0          0
PND_5_OF_1       CIRCULAR     .061            0          0          0
PND_5_OF_2       CIRCULAR     .05             0          0          0
PND_5_OF_3       CIRCULAR     .05             0          0          0
PND_5_OF_4       CIRCULAR     .05             0          0          0
PND_4B_OF_1      CIRCULAR     .139            0          0          0
PND_4B_OF_2      CIRCULAR     .094            0          0          0
PND_4B_OF_3      CIRCULAR     .094            0          0          0
PND_4B_OF_4      CIRCULAR     .094            0          0          0
PND_4B_OF_5      CIRCULAR     .094            0          0          0
PND_4B_GRATE     RECT_CLOSED  5               2.5        0          0
PND_5_GRATE      RECT_CLOSED  5               2.5        0          0
PND_2_OF_1       CIRCULAR     .176            0          0          0
PND_2_OF_2       CIRCULAR     .119            0          0          0
PND_2_OF_3       CIRCULAR     .119            0          0          0
PND_2_GRATE      RECT_CLOSED  5               2.5        0          0
PND_1_OF_1       CIRCULAR     .094            0          0          0
PND_1_OF_2       CIRCULAR     .081            0          0          0
PND_1_OF_3       CIRCULAR     .081            0          0          0
PND_1_OF_4       CIRCULAR     .066            0          0          0
PND_1_OF_5       CIRCULAR     .066            0          0          0
PND_1_OF_6       CIRCULAR     .221            0          0          0
PND_1_OF_7       CIRCULAR     .221            0          0          0
PND_1_GRATE      RECT_CLOSED  5               2.5        0          0
CNTY_LN_RD_CULV_1_EX CIRCULAR     4               0          0          0
CNTY_LN_RD_CULV_2 CIRCULAR     4               0          0          0
CNTY_LN_RD_CULV_3 CIRCULAR     4.5             0          0          0
CTY_LN_RD        RECT_OPEN    2               200        20         20

[CURVES]
```

```
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BALD_MTN_DET     Storage    0          2000
BALD_MTN_DET                1          21089
BALD_MTN_DET                3          197908
BALD_MTN_DET                5          487608
BALD_MTN_DET                5.7        634609
;
EX_WETLAND       Storage    0          2055
EX_WETLAND                  2          11240
EX_WETLAND                  4          29650
EX_WETLAND                  6          48392
EX_WETLAND                  7          58009
;
POND_2_PH2       Storage    0.00       10410
POND_2_PH2                  0.67       10963
POND_2_PH2                  1.67       12719
POND_2_PH2                  2.67       14905
POND_2_PH2                  3.67       17066
POND_2_PH2                  4.67       19340
POND_2_PH2                  5.67       21660
;
POND_5           Storage    0.00       650
POND_5                      0.67       1151
POND_5                      1.67       1340
POND_5                      2.67       2044
POND_5                      3.67       3047
POND_5                      4.67       4256
POND_5                      5.67       5630
POND_5                      6.87       7263
;
POND_1B          Storage    0.00       25
POND_1B                     0.67       12785
POND_1B                     1.67       15418
POND_1B                     2.67       17783
POND_1B                     3.67       20628
POND_1B                     4.67       23592
POND_1B                     5.57       26769
POND_1B                     5.67       30859
POND_1B                     6.17       32440
POND_1B                     6.67       33242
POND_1B                     7.77       35689
;
POND_1A          Storage    0          106
POND_1A                     2          3052
POND_1A                     4          5574
POND_1A                     6          8745
;
POND_4A-STG-AREA Storage    0          3686
POND_4A-STG-AREA            2          7254
```

```
POND_4A-STG-AREA            4          12135
;
POND_4B_STG-AREA Storage    0          2287
POND_4B_STG-AREA            2          5235
POND_4B_STG-AREA            4          9272
POND_4B_STG-AREA            6          14318

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
EURV                        0          0
EURV                        0:05       0.015
EURV                        0:10       0.049
EURV                        0:15       0.085
EURV                        0:20       0.128
EURV                        0:25       0.192
EURV                        0:30       0.276
EURV                        0:35       0.450
EURV                        0:40       0.762
EURV                        0:45       0.882
EURV                        0:50       0.954
EURV                        0:55       1.000
EURV                        1:00       1.040
EURV                        1:05       1.074
EURV                        1:10       1.089
EURV                        1:15       1.102
EURV                        1:20       1.114
EURV                        1:25       1.126
EURV                        1:30       1.137
EURV                        1:35       1.147
EURV                        1:40       1.158
EURV                        1:45       1.167
EURV                        1:50       1.177
EURV                        1:55       1.187
EURV                        2:00       1.197
;
WQCV                        0          0
WQCV                        0:05       0.006
WQCV                        0:10       0.020
WQCV                        0:15       0.034
WQCV                        0:20       0.052
WQCV                        0:25       0.077
WQCV                        0:30       0.111
WQCV                        0:35       0.181
WQCV                        0:40       0.306
WQCV                        0:45       0.354
WQCV                        0:50       0.384
WQCV                        0:55       0.402
WQCV                        1:00       0.418
WQCV                        1:05       0.432
```

```
WQCV                    1:10        0.438
WQCV                    1:15        0.443
WQCV                    1:20        0.448
WQCV                    1:25        0.452
WQCV                    1:30        0.457
WQCV                    1:35        0.461
WQCV                    1:40        0.465
WQCV                    1:45        0.469
WQCV                    1:50        0.473
WQCV                    1:55        0.477
WQCV                    2:00        0.481
;
2-YEAR                  0           0
2-YEAR                  0:05        0.017
2-YEAR                  0:10        0.055
2-YEAR                  0:15        0.094
2-YEAR                  0:20        0.143
2-YEAR                  0:25        0.213
2-YEAR                  0:30        0.307
2-YEAR                  0:35        0.501
2-YEAR                  0:40        0.847
2-YEAR                  0:45        0.981
2-YEAR                  0:50        1.061
2-YEAR                  0:55        1.113
2-YEAR                  1:00        1.157
2-YEAR                  1:05        1.195
2-YEAR                  1:10        1.211
2-YEAR                  1:15        1.226
2-YEAR                  1:20        1.239
2-YEAR                  1:25        1.252
2-YEAR                  1:30        1.265
2-YEAR                  1:35        1.276
2-YEAR                  1:40        1.288
2-YEAR                  1:45        1.298
2-YEAR                  1:50        1.309
2-YEAR                  1:55        1.320
2-YEAR                  2:00        1.332
;
5-YEAR                  0           0
5-YEAR                  0:05        0.021
5-YEAR                  0:10        0.069
5-YEAR                  0:15        0.119
5-YEAR                  0:20        0.180
5-YEAR                  0:25        0.269
5-YEAR                  0:30        0.387
5-YEAR                  0:35        0.632
5-YEAR                  0:40        1.068
5-YEAR                  0:45        1.236
5-YEAR                  0:50        1.338
5-YEAR                  0:55        1.403
```

```
5-YEAR                  1:00       1.458
5-YEAR                  1:05       1.506
5-YEAR                  1:10       1.527
5-YEAR                  1:15       1.545
5-YEAR                  1:20       1.562
5-YEAR                  1:25       1.578
5-YEAR                  1:30       1.595
5-YEAR                  1:35       1.608
5-YEAR                  1:40       1.623
5-YEAR                  1:45       1.637
5-YEAR                  1:50       1.650
5-YEAR                  1:55       1.664
5-YEAR                  2:00       1.679
;
10-YEAR                 0          0
10-YEAR                 0:05       0.025
10-YEAR                 0:10       0.081
10-YEAR                 0:15       0.138
10-YEAR                 0:20       0.210
10-YEAR                 0:25       0.313
10-YEAR                 0:30       0.452
10-YEAR                 0:35       0.737
10-YEAR                 0:40       1.246
10-YEAR                 0:45       1.442
10-YEAR                 0:50       1.561
10-YEAR                 0:55       1.636
10-YEAR                 1:00       1.701
10-YEAR                 1:05       1.757
10-YEAR                 1:10       1.782
10-YEAR                 1:15       1.803
10-YEAR                 1:20       1.822
10-YEAR                 1:25       1.841
10-YEAR                 1:30       1.860
10-YEAR                 1:35       1.876
10-YEAR                 1:40       1.894
10-YEAR                 1:45       1.909
10-YEAR                 1:50       1.925
10-YEAR                 1:55       1.941
10-YEAR                 2:00       1.958
;
25-YEAR                 0          0
25-YEAR                 0:05       0.028
25-YEAR                 0:10       0.092
25-YEAR                 0:15       0.158
25-YEAR                 0:20       0.240
25-YEAR                 0:25       0.358
25-YEAR                 0:30       0.516
25-YEAR                 0:35       0.842
25-YEAR                 0:40       1.424
25-YEAR                 0:45       1.648
```

```
25-YEAR                 0:50       1.784
25-YEAR                 0:55       1.870
25-YEAR                 1:00       1.944
25-YEAR                 1:05       2.008
25-YEAR                 1:10       2.036
25-YEAR                 1:15       2.060
25-YEAR                 1:20       2.082
25-YEAR                 1:25       2.104
25-YEAR                 1:30       2.126
25-YEAR                 1:35       2.144
25-YEAR                 1:40       2.164
25-YEAR                 1:45       2.182
25-YEAR                 1:50       2.200
25-YEAR                 1:55       2.218
25-YEAR                 2:00       2.238
;
50-YEAR                 0          0
50-YEAR                 0:05       0.032
50-YEAR                 0:10       0.104
50-YEAR                 0:15       0.178
50-YEAR                 0:20       0.270
50-YEAR                 0:25       0.403
50-YEAR                 0:30       0.581
50-YEAR                 0:35       0.947
50-YEAR                 0:40       1.602
50-YEAR                 0:45       1.854
50-YEAR                 0:50       2.007
50-YEAR                 0:55       2.104
50-YEAR                 1:00       2.187
50-YEAR                 1:05       2.259
50-YEAR                 1:10       2.291
50-YEAR                 1:15       2.318
50-YEAR                 1:20       2.342
50-YEAR                 1:25       2.367
50-YEAR                 1:30       2.392
50-YEAR                 1:35       2.412
50-YEAR                 1:40       2.435
50-YEAR                 1:45       2.455
50-YEAR                 1:50       2.475
50-YEAR                 1:55       2.495
50-YEAR                 2:00       2.518
;
100-YEAR                0          0
100-YEAR                0:05       0.035
100-YEAR                0:10       0.116
100-YEAR                0:15       0.199
100-YEAR                0:20       0.302
100-YEAR                0:25       0.451
100-YEAR                0:30       0.650
100-YEAR                0:35       1.061
```

```
100-YEAR                    0:40       1.794
100-YEAR                    0:45       2.076
100-YEAR                    0:50       2.248
100-YEAR                    0:55       2.356
100-YEAR                    1:00       2.449
100-YEAR                    1:05       2.530
100-YEAR                    1:10       2.565
100-YEAR                    1:15       2.596
100-YEAR                    1:20       2.623
100-YEAR                    1:25       2.651
100-YEAR                    1:30       2.679
100-YEAR                    1:35       2.701
100-YEAR                    1:40       2.727
100-YEAR                    1:45       2.749
100-YEAR                    1:50       2.772
100-YEAR                    1:55       2.795
100-YEAR                    2:00       2.820

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS -3385.997 -417.011 12727.273 10000.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
1                3699.964           5436.557
2                3747.016           5405.523
3                3979.276           5790.953
4                3509.709           4384.396
5                3569.912           4263.467
6                3697.975           4274.255
23               3570.086           3668.917
24               3627.506           3679.705
27               4388.219           7226.495
28               4515.361           7224.493
29               4738.611           6945.181
30               4741.851           6882.363
31               5153.074           6760.975
32               4974.875           6152.295
33               5033.941           6110.248
34               4949.847           6142.284
35               4731.343           6854.344
```

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36                4342.759          6644.874
37                4341.758          7227.525
38                4336.752          8366.798
39                4784.252          8467.911
40                4184.736          6136.172
41                4593.628          5028.195
42                4605.760          5115.294
43                5031.236          5142.325
44                5287.522          6023.309
45                5592.863          7122.537
46                5534.618          7884.368
47                5284.519          7972.486
48                3725.993          5487.614
49                5680.407          7074.913
59                5783.936          7804.947
61                3512.829          3280.346
62                3568.866          3384.287
63                3546.723          3439.873
64                4226.387          6555.946
F18               5338.504          7760.064
F8                4509.129          8371.067
pnd_4_Outlet      4764.175          8371.303
POND_3FUT         4298.912          7229.862
POND_5_OUT        5193.342          7840.153
CNTY_LN_RD        5134.744          8609.633
SITE_OUTFALL      5135.557          8633.843
RD_OVERTOP        5247.434          8639.400
EX-WETLAND        5122.195          8326.019
POND_4B           4709.295          8230.487
POND_4A           4722.593          7225.494
POND_5            5281.161          7862.708
POND_2            4066.757          6524.156
POND_1B           3507.515          3707.155
POND_1A           3540.677          3202.771
BALD_MTN_DETENTION 4527.907           4560.888

[VERTICES]
;;Link           X-Coord           Y-Coord
;;-------------- ------------------ ------------------
26                3474.119          3260.307
26                3460.103          3425.491
26                3517.167          3705.805
29                5287.522          8038.560
53                4688.329          8323.013
54                5177.324          7844.158
54                5051.183          7883.201
54                5122.262          8193.548
BLD_MTN_OF        4587.711          4932.664
C1                3510.753          4619.645
C1                3547.794          4893.951
```

C1	3619.874	5129.214
EX_MISTY_AC_BLVD_PIPE	3839.550	3987.022
L1	4927.719	8462.231
L12	4755.353	7052.203
L20	5241.396	7794.102
L30	4107.827	6259.878
L45	3532.904	3512.565
L9	4693.619	7352.424
L9	4722.458	8084.670
GRATE	4502.751	4832.339
GRATE	4512.693	4956.164
PND_5_OF_1	5269.148	7902.753
PND_5_OF_1	5225.098	7885.734
PND_5_OF_2	5283.163	7917.769
PND_5_OF_2	5219.092	7901.752
PND_5_OF_3	5296.178	7929.783
PND_5_OF_3	5214.086	7914.766
PND_5_OF_4	5311.195	7944.800
PND_5_OF_4	5200.071	7932.786
PND_4B_OF_1	4775.170	8278.562
PND_4B_OF_1	4783.176	8327.095
PND_4B_OF_2	4760.160	8288.068
PND_4B_OF_2	4765.663	8321.591
PND_4B_OF_3	4745.149	8291.070
PND_4B_OF_3	4753.655	8333.099
PND_4B_OF_4	4729.639	8294.072
PND_4B_OF_4	4746.150	8349.610
PND_4B_OF_5	4717.630	8295.573
PND_4B_OF_5	4734.142	8346.108
PND_4B_GRATE	4708.124	8303.078
PND_4B_GRATE	4721.133	8348.109
PND_2_OF_1	4124.582	6503.120
PND_2_OF_1	4196.132	6492.613
PND_2_OF_2	4128.585	6516.129
PND_2_OF_2	4188.126	6507.123
PND_2_OF_3	4125.083	6531.140
PND_2_OF_3	4178.119	6521.633
PND_2_GRATE	4123.081	6544.649
PND_2_GRATE	4173.616	6535.643
PND_1_OF_1	3536.365	3715.191
PND_1_OF_1	3547.618	3663.677
PND_1_OF_2	3532.364	3709.439
PND_1_OF_2	3544.367	3652.424
PND_1_OF_3	3529.614	3699.187
PND_1_OF_3	3542.617	3640.671
PND_1_OF_4	3525.309	3696.421
PND_1_OF_4	3541.063	3627.904
PND_1_OF_5	3520.808	3689.420
PND_1_OF_5	3540.313	3610.149
PND_1_OF_6	3514.556	3690.670

```
PND_1_OF_6       3540.313           3582.892
PND_1_OF_7       3539.563           3561.136
PND_1_GRATE      3523.559           3743.934
PND_1_GRATE      3569.070           3730.930
CNTY_LN_RD_CULV_1_EX 5106.837           8459.178
CNTY_LN_RD_CULV_1_EX 5114.724           8600.533
CNTY_LN_RD_CULV_2 5131.710           8454.324
CNTY_LN_RD_CULV_3 5157.797           8464.031
CNTY_LN_RD_CULV_3 5154.157           8608.420
CTY_LN_RD        5219.211           8459.613
CTY_LN_RD        5223.392           8554.733

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
AA               3541.685           1548.643
AA               3594.767           1758.968
AA               3647.849           1969.293
AA               3479.589           1995.333
AA               3273.270           2127.537
AA               3283.285           2966.834
AA               3369.418           3225.233
AA               3721.963           3297.344
AA               3693.920           3439.564
AA               3591.762           3391.490
AA               3459.558           3351.428
AA               3277.276           3359.440
AA               3199.155           3351.428
AA               3041.912           3287.329
AA               2884.669           3223.230
AA               2391.908           2996.880
AA               2183.586           2980.855
AA               2031.351           2902.735
AA               1956.732           2254.905
AA               1868.058           1390.807
AA               1925.932           1307.871
AA               1906.445           984.931
AA               2761.122           522.793
AA               2936.511           572.904
AA               3120.253           926.468
AA               3323.482           1143.617
BB               3743.997           3276.797
BB               3743.040           3264.895
BB               3766.704           3229.399
BB               3797.327           3122.216
BB               3817.079           2930.410
BB               3812.639           2771.437
BB               3648.589           2017.416
BB               3492.348           2021.422
BB               3288.032           2157.633
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BB	3300.051	3002.939
BB	3367.577	3233.749
BB	3487.711	3250.768
BB	3606.844	3288.810
BB	3696.945	3284.806
CC	3519.172	4181.413
CC	3692.365	3469.618
CC	3595.257	3415.558
CC	3463.109	3381.520
CC	3278.904	3387.527
CC	3381.018	4190.423
CC	3508.160	4190.423
DD	3457.478	5130.244
DD	3450.718	5135.753
DD	3443.957	5141.261
DD	3430.436	5152.278
DD	3403.394	5174.312
DD	3245.150	5194.343
DD	2704.314	5210.368
DD	2614.175	5198.349
DD	2618.181	5116.222
DD	2688.289	5106.207
DD	2732.357	5028.086
DD	2622.187	4849.811
DD	2341.754	4653.507
DD	2137.438	3018.982
DD	2409.859	3033.004
DD	2830.509	3223.298
DD	2992.760	3309.431
DD	3191.066	3381.542
DD	3271.190	3391.558
DD	3367.338	4198.805
DD	3509.558	4206.817
DD	3708.244	3489.750
DD	3816.748	3084.945
DD	3837.615	2771.951
DD	3706.157	2156.396
DD	3599.739	1693.165
DD	3503.754	1451.117
DD	3382.730	1200.722
DD	3272.139	1071.351
DD	3349.344	994.146
DD	3466.195	1181.942
DD	3599.739	1386.431
DD	3666.511	1572.141
DD	3802.142	2075.018
DD	3952.379	2640.494
DD	3971.159	2895.062
DD	3933.599	3091.205
DD	3868.914	3367.683

DD	3804.229	3644.161
DD	3836.571	3764.142
DD	3868.914	3884.123
DD	3804.229	4128.258
DD	3762.496	4307.708
DD	3758.323	4620.702
DD	3499.581	4649.914
DD	3501.546	4777.699
DD	3485.521	5072.154
EE	3235.134	5675.086
EE	3305.242	5637.027
EE	3597.694	5602.974
EE	3777.973	5502.820
EE	3643.765	5436.717
EE	3485.521	5442.727
EE	3437.447	5346.578
EE	3309.249	5294.498
EE	3132.976	5300.507
EE	2684.283	5256.439
EE	2616.178	5210.368
EE	2624.190	5284.482
EE	2501.914	5487.672
EE	2423.963	5541.960
EE	2586.825	5644.966
EE	2714.329	5699.123
EE	2988.753	5699.123
EE	3060.865	5719.154
EE	3181.050	5717.151
FF	2691.247	5245.429
FF	3121.092	5289.248
FF	3306.802	5287.161
FF	3419.480	5324.721
FF	3452.866	5347.673
FF	3496.685	5429.052
FF	3571.803	5429.052
FF	3657.355	5422.792
FF	3728.300	5458.265
FF	3674.048	5387.319
FF	3646.922	5310.114
FF	3613.536	5218.303
FF	3553.024	5026.333
FF	3509.205	4861.490
FF	3496.685	5053.459
FF	3469.559	5143.184
FF	3415.307	5182.830
FF	3231.683	5205.783
FF	2639.082	5203.696
GG	4285.043	6595.690
GG	4221.012	6272.750
GG	4162.157	6138.765

GG	3999.044	5856.070
GG	3947.008	5774.514
GG	3779.393	5516.336
GG	3613.719	5612.990
GG	3287.215	5653.052
GG	3205.088	5717.151
GG	3064.871	5735.178
GG	3034.825	5891.420
GG	3000.772	6033.640
GG	3006.781	6165.844
GG	3052.852	6268.002
GG	3225.745	6402.205
GG	3373.295	6542.795
GG	3504.141	6747.416
GG	3632.204	6750.200
GG	3824.297	6750.200
GG	4280.867	6611.002
HH	3669.875	5341.414
HH	3744.616	5492.725
HH	3747.142	5465.873
HH	3793.154	5508.384
HH	4144.645	6081.726
HH	4227.202	6269.355
HH	4303.811	6613.277
HH	3847.241	6752.475
HH	3518.733	6752.475
HH	3680.203	7181.206
HH	3908.488	7676.751
HH	4036.550	7821.517
HH	4092.230	7877.197
HH	4255.456	7973.245
HH	4437.358	7978.978
HH	4513.976	7927.899
HH	4597.369	7926.336
HH	4593.343	6696.796
HH	4777.085	6568.733
HH	4484.689	5565.801
HH	4334.521	5492.719
HH	4248.132	5510.827
HH	4155.321	5480.706
HH	4091.249	5390.605
HH	3987.870	5360.856
HH	4006.892	5276.762
HH	3933.810	5249.732
HH	3808.265	4954.034
HH	3762.253	4628.039
HH	3504.245	4651.425
HH	3498.235	4697.497
HH	3504.245	4749.577
HH	3512.257	4807.667

HH	3607.276	5174.483
II	4541.503	8397.400
II	4413.806	8376.031
II	4354.909	8364.564
II	4243.031	8287.666
II	4066.787	8288.708
II	4093.901	8231.351
II	4110.587	8095.778
II	4075.129	7879.905
II	4253.114	7980.623
II	4442.485	7984.185
II	4515.539	7938.845
II	4597.272	7936.130
II	4592.581	8402.612
JJ	6221.202	7577.463
JJ	6090.055	7713.616
JJ	6001.957	7782.693
JJ	5941.744	7835.593
JJ	5846.418	7842.960
JJ	5806.739	7808.722
JJ	5564.468	7874.796
JJ	5505.402	7945.875
JJ	5422.309	7972.905
JJ	5388.271	7959.891
JJ	5189.049	8019.958
JJ	4923.292	7083.289
JJ	4802.156	7195.415
JJ	4752.100	7445.694
JJ	4769.119	7589.855
JJ	4742.089	7707.987
JJ	4758.107	7890.191
JJ	4830.188	8151.483
JJ	4865.227	8436.802
JJ	4741.088	8468.837
JJ	4625.959	8476.846
JJ	4590.920	8410.773
JJ	4352.654	8372.730
JJ	4242.531	8294.643
JJ	4062.330	8294.643
JJ	3972.229	8464.833
JJ	3548.756	8564.945
JJ	5016.396	8551.930
JJ	5184.584	8572.954
JJ	6416.420	8571.574
JJ	6304.295	8497.491
JJ	6318.310	8396.378
JJ	6302.292	7622.514
JJ	6269.256	7487.363
MD2	5145.841	4656.062
MD2	5083.745	4700.130

MD2	5045.687	4740.192
MD2	4995.609	4776.248
MD2	4953.544	4822.319
MD2	4963.560	4940.502
MD2	4883.436	5024.632
MD2	4755.835	5012.317
MD2	4709.044	5011.077
MD2	4690.159	5123.293
MD2	4174.533	5152.787
MD2	4041.441	5209.826
MD2	4001.079	5357.522
MD2	4090.166	5385.362
MD2	4150.021	5481.408
MD2	4236.324	5507.160
MD2	4328.195	5486.976
MD2	4491.057	5566.319
MD2	4796.499	6593.166
MD2	4608.289	6737.327
MD2	4608.289	6964.581
MD2	4897.612	6942.556
MD2	4962.685	7201.846
MD2	5619.419	7011.633
MD2	5672.481	6905.599
MD2	5835.094	6767.503
MD2	5929.158	6682.445
MD2	5913.147	6600.388
MD2	5871.118	6548.352
MD2	5812.578	6459.791
MD2	5777.554	6361.724
MD2	5754.038	6274.163
MD2	5719.014	6166.589
MD2	5718.013	6078.028
MD2	5692.996	6007.980
MD2	5637.958	5905.409
MD2	5610.439	5800.837
MD2	5637.457	5687.759
MD2	5572.913	5610.206
MD2	5714.010	5128.374
MD2	5710.714	4880.409
MD2	5864.952	4640.038
MD5	4701.941	8457.687
MD5	4854.214	8429.794
MD5	4833.191	8281.628
MD5	4824.181	8148.479
MD5	4749.293	7935.428
MD5	4717.261	7716.776
MD5	4740.936	7578.900
MD5	4725.617	7435.453
MD5	4796.150	7182.400
MD5	4916.284	7070.275

MD5	4890.255	6949.140
MD5	4742.821	6971.053
MD5	4606.669	6981.065
MD5	4603.665	7935.130
MD5	4600.662	8398.648
MD5	4619.953	8455.823
ME	5203.064	8011.949
ME	5385.268	7949.880
ME	5425.313	7963.895
ME	5502.399	7932.861
ME	5547.449	7867.788
ME	5811.744	7798.711
ME	5851.789	7835.752
ME	5939.888	7828.744
ME	6067.030	7721.625
ME	6210.190	7579.466
ME	6265.251	7472.346
ME	6243.662	7343.669
ME	6085.485	7369.698
ME	5999.389	7339.665
ME	5864.688	7305.483
ME	5667.123	7223.446
ME	5617.067	7029.229
ME	4969.343	7216.438
ME	5182.041	7989.924
MO2	2012.062	2847.317
MO2	1953.998	2286.691
MO2	1754.775	2370.785
MO2	1759.781	2499.929
MO2	1834.865	2907.384
MO2	1941.984	2916.394
MO2	2013.064	2897.373
MO3	1336.303	2994.154
MO3	1138.641	2884.187
MO3	907.572	2803.452
MO3	720.516	2805.548
MO3	888.703	3000.767
MO3	966.036	3228.007
MO3	1147.993	3442.260
MO3	1433.742	3577.394
MO3	1528.418	3412.226
MO3	1530.420	3240.034
MO3	1360.230	3018.787
MO4	1883.352	3482.739
MO4	1883.352	3482.739
MO4	1883.352	3482.739
MO4	1855.512	3229.399
MO4	1861.080	3118.040
MO4	1838.808	2927.339
MO4	1946.990	2926.405

MO4	2021.158	2910.635
MO4	2089.365	3502.227
MO4	2007.238	3499.443
MO4	1880.568	3482.739
MO5	8576.361	933.760
MO5	8597.385	947.775
MO5	8521.300	993.827
MO5	8496.272	1019.856
MO5	8451.221	1050.890
MO5	8422.189	1063.905
MO5	8402.166	1121.970
MO5	8405.170	1179.034
MO5	8420.636	1245.748
MO5	8290.435	1520.172
MO5	8118.168	1550.218
MO5	7693.512	1956.846
MO5	7433.110	2553.769
MO5	7423.095	2766.097
MO5	7255.011	2956.570
MO5	6982.183	3028.953
MO5	6832.182	3218.796
MO5	6679.946	3595.378
MO5	6358.565	3779.082
MO5	6215.405	3947.270
MO5	6071.244	4082.421
MO5	5948.107	4326.694
MO5	5930.087	4607.007
MO5	5882.033	4627.029
MO5	5334.400	4632.716
MO5	5097.135	4642.727
MO5	4927.617	4799.555
MO5	4933.953	4935.053
MO5	4871.938	5005.568
MO5	4262.202	4989.114
MO5	3818.912	4939.388
MO5	3766.873	4620.647
MO5	3780.645	4248.486
MO5	3873.087	3875.776
MO5	3812.575	3629.554
MO5	3975.501	2956.570
MO5	3964.365	2616.927
MO5	3635.857	1430.958
MO5	3361.630	992.555
MO5	3555.764	831.944
MO5	3683.352	822.438
MO5	3721.378	693.849
MO5	3996.067	549.750
MO5	4072.620	580.771
MO5	4250.243	509.222
MO5	4404.232	645.880

MO5	4787.113	609.791
MO5	5110.836	632.807
MO5	5278.952	734.377
MO5	5502.105	803.925
MO5	5681.229	765.398
MO5	5857.851	808.428
MO5	5890.869	907.572
MO5	6115.028	1120.643
MO5	6121.532	1194.694
MO5	6378.710	1211.206
MO5	6551.328	1285.757
MO5	6676.415	1406.840
MO5	7135.231	1454.373
MO5	7382.401	1215.709
MO5	7397.912	1135.153
MO5	7631.073	907.496
MO5	7730.416	975.807
MO5	7862.564	835.650
MO5	7984.700	801.612
MO5	8098.828	829.643
MO5	8181.920	913.737
MO5	8248.995	873.693
MO5	8372.133	864.682
MO6	4627.471	5120.885
MO6	4173.685	5145.941
MO6	4034.486	5201.620
MO6	4012.709	5253.827
MO6	3945.399	5247.555
MO6	3825.920	4952.402
MO6	4263.409	5000.456
MO6	4700.478	5004.549
MO6	4681.456	5112.670
MO7A	11762.690	2978.331
MO7A	11775.204	3127.498
MO7A	11787.718	3276.664
MO7A	11768.697	3280.669
MO7A	11716.639	3279.668
MO7A	11411.298	3291.681
MO7A	10976.812	3258.644
MO7A	10248.999	3532.950
MO7A	9675.358	4189.684
MO7A	9421.074	4584.125
MO7A	9233.865	4669.220
MO7A	9107.724	4848.420
MO7A	8929.525	5002.592
MO7A	8810.392	5131.737
MO7A	8579.187	5271.292
MO7A	8289.988	5241.272
MO7A	7934.243	5312.821
MO7A	7592.007	5300.813

MO7A	7521.458	5388.873
MO7A	6925.548	5416.893
MO7A	6829.482	5190.737
MO7A	6679.378	4952.573
MO7A	6415.696	4840.495
MO7A	6358.657	4531.783
MO7A	6139.006	4457.231
MO7A	6131.000	4243.584
MO7A	6091.973	4080.472
MO7A	6191.537	3986.637
MO7A	6366.002	3782.797
MO7A	6692.650	3596.882
MO7A	6854.120	3207.127
MO7A	6982.183	3045.657
MO7A	7268.670	2969.321
MO7A	7430.851	2785.115
MO7A	7435.856	2674.491
MO7A	7440.862	2563.868
MO7A	7518.949	2421.709
MO7A	7700.152	1965.199
MO7A	7764.223	1915.143
MO7A	7828.295	1865.087
MO7A	8124.626	1561.748
MO7A	8292.814	1531.715
MO7A	8428.966	1261.413
MO7A	8411.947	1174.315
MO7A	8419.956	1082.213
MO7A	8616.175	948.063
MO7A	8806.388	728.818
MO7A	9271.908	874.981
MO7A	9647.327	1072.201
MO7A	9892.601	1175.317
MO7A	10101.835	1179.321
MO7A	10159.900	1205.350
MO7A	10342.103	1437.610
MO7A	10439.212	1485.663
MO7A	10551.225	1514.477
MO7A	10645.442	1502.682
MO7A	10753.563	1451.625
MO7A	10840.757	1430.958
MO7A	10913.140	1492.205
MO7A	10974.810	1620.814
MO7A	10996.835	1766.978
MO7A	10966.801	1919.148
MO7A	10998.837	2212.475
MO7A	11598.507	2303.577
MO7A	11612.523	2490.786
MO7A	11736.661	2878.219
MO7B	6410.092	7287.728
MO7B	6497.190	7225.658

MO7B	6543.241	7195.625
MO7B	6742.785	6844.645
MO7B	7043.120	6687.469
MO7B	7310.419	6478.235
MO7B	7481.610	6467.223
MO7B	7610.754	6071.781
MO7B	7805.972	6030.735
MO7B	8150.357	5668.331
MO7B	8290.514	5249.863
MO7B	7925.770	5319.611
MO7B	7599.742	5309.930
MO7B	7525.659	5398.029
MO7B	6923.987	5429.063
MO7B	6821.873	5196.804
MO7B	6672.706	4962.542
MO7B	6408.411	4851.418
MO7B	6348.344	4539.069
MO7B	6133.103	4463.985
MO7B	6084.049	4093.571
MO7B	5955.340	4345.320
MO7B	5939.322	4614.621
MO7B	5879.255	4646.656
MO7B	5721.078	4881.919
MO7B	5725.083	5125.191
MO7B	5580.921	5608.731
MO7B	5648.998	5682.814
MO7B	5614.960	5796.941
MO7B	5661.011	5932.092
MO7B	5723.080	6054.229
MO7B	5730.088	6179.369
MO7B	5761.123	6271.472
MO7B	5821.190	6456.678
MO7B	5918.298	6599.838
MO7B	5935.317	6683.932
MO7B	5676.028	6914.190
MO7B	5629.976	7015.303
MO7B	5673.651	7216.958
MO7B	5870.733	7299.490
MO7B	6025.663	7338.785
MO7B	6083.728	7363.813
MO7B	6248.912	7338.785
MO8	6408.411	7297.150
MO8	6253.238	7348.207
MO8	6311.303	7622.514
MO8	6322.315	7827.743
MO8	6323.316	8415.400
MO8	6312.304	8494.488
MO8	6418.422	8564.566
MO8	6457.466	8561.563
MO8	6662.695	8548.548

```
MO8               6523.540           8362.340
MO8               6514.530           8281.250
MO8               6550.570           8078.023
MO8               6552.572           7858.778
MO8               6585.609           7754.661
MO8               6584.608           7443.314
MO8               6540.559           7328.185
MO8               6538.556           7212.055

;;Storage Node   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
EX-WETLAND       5088.505           8308.479
EX-WETLAND       5089.506           8347.523
EX-WETLAND       5160.585           8342.517
EX-WETLAND       5150.574           8304.475
EX-WETLAND       5092.509           8307.478
POND_4B          4734.381           8208.886
POND_4B          4683.324           8207.885
POND_4B          4683.324           8250.933
POND_4B          4735.382           8253.936
POND_4A          4707.845           7268.277
POND_4A          4724.864           7274.284
POND_4A          4736.878           7262.270
POND_4A          4750.401           7215.815
POND_4A          4756.900           7195.195
POND_4A          4732.873           7174.172
POND_4A          4697.834           7205.207
POND_4A          4690.826           7259.267
POND_5           5288.118           7889.561
POND_5           5309.141           7882.553
POND_5           5311.094           7839.076
POND_5           5287.117           7836.501
POND_5           5252.078           7840.506
POND_5           5253.079           7887.558
POND_2           4058.441           6554.774
POND_2           4102.491           6543.761
POND_2           4081.467           6496.709
POND_2           4037.418           6496.709
POND_2           4041.422           6536.753
POND_1B          3531.183           3733.836
POND_1B          3527.178           3685.782
POND_1B          3489.136           3681.778
POND_1B          3481.127           3722.824
POND_1A          3535.187           3235.279
POND_1A          3568.224           3226.269
POND_1A          3571.228           3183.221
POND_1A          3517.167           3170.206
POND_1A          3509.158           3213.254
BALD_MTN_DETENTION 4518.599           4650.047
BALD_MTN_DETENTION 4706.890           4585.948
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BALD_MTN_DETENTION 4538.630           4475.777
BALD_MTN_DETENTION 4384.392           4493.805
BALD_MTN_DETENTION 4448.491           4630.016

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
RG               3640.165           9398.557

[LABELS]
;;X-Coord          Y-Coord            Label
4433.120           6809.212           "D1F" "" "Arial" 10 0 0


[BACKDROP]
FILE       "BASIN LAYOUT-INTERIM.jpg"
DIMENSIONS -3008.536 -417.011 12446.009 9582.989

[PROFILES]
;;Name           Links
;;-------------- ----------
"EAST BYPASS     " BLD_MTN_OF L29 L28 L27 L26
"EAST BYPASS     " L24 L23 L22 29 L53-L54
```

MONUMENT RIDGE EAST F1-INTERIM CONDITIONS SWMM REPORT FILE - Q100

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	51.963	2.820
Evaporation Loss	0.000	0.000
Infiltration Loss	21.431	1.163
Surface Runoff	30.644	1.663
Final Storage	0.211	0.011
Continuity Error (%)	-0.620	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	30.643	9.986
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	30.679	9.997
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.121	

****
Highest Continuity Errors
****
Node 29 (-1.51%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (82.69%)
Link 58 (17.25%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Node SITE_OUTFALL (0.14%)
Node RD_OVERTOP (0.14%)
Node 29 (0.12%)
Node 49 (0.01%)
Node 45 (0.01%)

****
Routing Time Step Summary
****
Minimum Time Step	:	0.50 sec
Average Time Step	:	3.65 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00

```
  Average Iterations per Step :     2.01
  % of Steps Not Converging   :     0.14
  Time Step Frequencies       :
     30.000 - 13.228 sec      :     7.36 %
     13.228 -  5.833 sec      :     9.95 %
      5.833 -  2.572 sec      :    17.61 %
      2.572 -  1.134 sec      :    39.75 %
      1.134 -  0.500 sec      :    25.34 %


  **************************
  Subcatchment Runoff Summary
  **************************


-------------------------------------------------------------------------------------
-----------------------------------------
                             Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                          Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                in         in         in         in         in
 in         in    10^6 gal      CFS

-------------------------------------------------------------------------------------
-----------------------------------------
  AA                          2.82       0.00       0.00       1.66       0.08
1.09       1.17        0.48    35.32   0.415
  BB                          2.82       0.00       0.00       1.58       0.00
1.27       1.27        0.09    11.06   0.449
  CC                          2.82       0.00       0.00       0.00       2.80
0.00       2.80        0.08     9.06   0.994
  DD                          2.82       0.00       0.00       1.50       0.37
0.97       1.33        0.46    37.55   0.473
  EE                          2.82       0.00       0.00       1.04       0.91
0.88       1.79        0.09    11.20   0.636
  FF                          2.82       0.00       0.00       1.50       0.00
1.35       1.35        0.03     3.92   0.480
  GG                          2.82       0.00       0.00       1.35       0.30
1.18       1.49        0.20    23.42   0.527
  HH                          2.82       0.00       0.00       1.11       0.75
0.97       1.72        0.40    47.46   0.611
  II                          2.82       0.00       0.00       1.11       0.72
1.02       1.73        0.04     6.46   0.615
  JJ                          2.82       0.00       0.00       1.11       0.45
1.27       1.72        0.32    34.09   0.611
  MD2                         2.82       0.00       0.00       0.89       1.29
0.64       1.93        0.64    65.56   0.684
  MD5                         2.82       0.00       0.00       1.25       0.34
1.24       1.58        0.07     5.47   0.560
```

```
  ME                       2.82       0.00       0.00       0.65       1.36
0.82       2.18       0.19    24.21   0.773
  MO2                      2.82       0.00       0.00       0.43       1.98
0.41       2.39       0.03     4.36   0.847
  MO3                      2.82       0.00       0.00       0.60       1.65
0.57       2.22       0.08    11.16   0.788
  MO4                      2.82       0.00       0.00       0.46       1.93
0.43       2.36       0.05     6.16   0.837
  MO5                      2.82       0.00       0.00       1.05       1.11
0.66       1.77       2.89   269.70   0.628
  MO6                      2.82       0.00       0.00       1.27       0.00
1.58       1.58       0.03     3.74   0.562
  MO7A                     2.82       0.00       0.00       1.21       0.85
0.76       1.61       2.87   257.42   0.571
  MO7B                     2.82       0.00       0.00       1.08       0.95
0.79       1.74       0.87    90.96   0.618
  MO8                      2.82       0.00       0.00       0.63       1.62
0.57       2.20       0.08    10.83   0.779


  ******************
  Node Depth Summary
  ******************

  ----------------------------------------------------------------------------
                                Average  Maximum  Maximum  Time of Max    Reported
                                  Depth    Depth      HGL   Occurrence   Max Depth
  Node                 Type        Feet     Feet     Feet  days hr:min        Feet
  ----------------------------------------------------------------------------
  1                    JUNCTION    0.01     0.76  7299.12     0  00:45        0.76
  2                    JUNCTION    0.01     0.73  7298.05     0  00:45        0.72
  3                    JUNCTION    0.01     0.72  7287.29     0  00:45        0.70
  4                    JUNCTION    0.00     0.00  7305.11     0  00:00        0.00
  5                    JUNCTION    0.00     0.00  7305.93     0  00:00        0.00
  6                    JUNCTION    0.00     0.00  7306.71     0  00:00        0.00
  23                   JUNCTION    0.21     4.74  7310.37     0  01:02        4.73
  24                   JUNCTION    0.10     1.19  7306.34     0  01:02        1.19
  27                   JUNCTION    0.02     1.63  7269.57     0  00:56        1.60
  28                   JUNCTION    0.08     3.19  7269.57     0  00:56        3.16
  29                   JUNCTION    0.08     7.55  7274.11     0  01:11        2.92
  30                   JUNCTION    0.06     2.70  7270.28     0  00:45        2.68
  31                   JUNCTION    0.00     0.00  7272.09     0  00:00        0.00
  32                   JUNCTION    0.00     0.00  7277.02     0  00:00        0.00
  33                   JUNCTION    0.00     0.00  7279.33     0  00:00        0.00
  34                   JUNCTION    0.00     0.00  7278.07     0  00:00        0.00
  35                   JUNCTION    0.02     2.04  7270.28     0  00:45        2.02
  36                   JUNCTION    0.08     0.59  7270.89     0  01:12        0.58
  37                   JUNCTION    0.09     0.64  7267.42     0  01:13        0.64
  38                   JUNCTION    0.08     0.53  7263.56     0  01:14        0.53
  39                   JUNCTION    0.16     3.69  7262.73     0  00:55        3.68
```

40	JUNCTION	0.01	0.69	7277.45	0	00:45	0.67
41	JUNCTION	0.55	7.02	7291.42	0	00:56	7.01
42	JUNCTION	0.21	4.40	7288.03	0	00:56	4.40
43	JUNCTION	0.19	3.53	7285.35	0	00:56	3.53
44	JUNCTION	0.19	3.64	7280.13	0	00:57	3.62
45	JUNCTION	0.25	12.90	7280.84	0	00:44	6.81
46	JUNCTION	0.25	6.63	7270.62	0	00:45	6.10
47	JUNCTION	0.23	5.85	7268.82	0	00:45	5.66
48	JUNCTION	0.02	0.79	7301.52	0	00:45	0.79
49	JUNCTION	0.10	11.31	7281.81	0	00:44	5.42
59	JUNCTION	0.20	5.43	7271.59	0	00:45	5.39
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.18	2.42	7311.38	0	01:01	2.41
64	JUNCTION	0.08	0.58	7271.74	0	01:11	0.57
F18	JUNCTION	0.10	3.61	7276.31	0	00:45	3.60
F8	JUNCTION	0.01	0.50	7269.14	0	00:45	0.49
pnd_4_Outlet	JUNCTION	0.14	2.45	7262.78	0	00:56	2.44
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.04	1.04	7267.87	0	00:46	0.92
CNTY_LN_RD	JUNCTION	0.26	2.55	7257.06	0	00:55	2.55
SITE_OUTFALL	OUTFALL	0.23	2.53	7257.04	0	00:55	2.53
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.21	5.72	7262.70	0	00:55	5.72
POND_4B	STORAGE	1.95	5.51	7266.84	0	01:00	5.51
POND_4A	STORAGE	0.48	5.22	7269.48	0	00:58	5.20
POND_5	STORAGE	1.55	4.57	7273.90	0	00:46	4.51
POND_2	STORAGE	0.90	2.82	7276.15	0	01:12	2.82
POND_1B	STORAGE	1.24	5.04	7311.37	0	01:02	5.03
POND_1A	STORAGE	0.04	1.67	7317.67	0	00:46	1.61
BALD_MTN_DETENTION	STORAGE	0.10	1.85	7292.85	0	00:56	1.85

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent

```
-------------
  1                    JUNCTION      3.92    15.12     0  00:45      0.0294
0.118      -0.000
  2                    JUNCTION      0.00    15.17     0  00:45           0
0.118      -0.003
  3                    JUNCTION      0.00    15.05     0  00:45           0
0.118      -0.002
  4                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  5                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  6                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                   JUNCTION      0.00    49.88     0  01:02           0
1.28       0.001
  24                   JUNCTION      0.00    49.88     0  01:02           0
1.28      -0.000
  27                   JUNCTION      0.00     1.12     0  00:47           0
0.000744       0.123
  28                   JUNCTION     47.46    47.46     0  00:45         0.4
0.401       0.269
  29                   JUNCTION      0.00    66.47     0  00:45           0
0.638      -1.486
  30                   JUNCTION     65.56    65.56     0  00:45       0.637
0.64       0.039
  31                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                   JUNCTION      0.00     2.47     0  01:16           0
0.00278       1.169
  36                   JUNCTION      0.00     5.60     0  01:12           0
0.315      -0.001
  37                   JUNCTION      0.00     5.60     0  01:12           0
0.315      -0.003
  38                   JUNCTION      0.00     5.57     0  01:13           0
0.315      -0.102
  39                   JUNCTION      0.00    43.65     0  01:09           0
1.48       0.059
  40                   JUNCTION      0.00    15.05     0  00:45           0
0.118       0.121
  41                   JUNCTION      0.00   169.64     0  00:56           0
4.2       0.002
  42                   JUNCTION      0.00   169.64     0  00:56           0
4.2       0.004
  43                   JUNCTION      0.00   169.64     0  00:56           0
```

```
4.2      -0.001
  44                    JUNCTION      0.00   169.64     0  00:56           0
4.2      -0.192
  45                    JUNCTION      0.00   482.68     0  00:45           0
7.94       0.074
  46                    JUNCTION      0.00   496.69     0  00:45           0
7.93       0.003
  47                    JUNCTION      0.00   490.42     0  00:45           0
7.93      -0.000
  48                    JUNCTION     11.20    11.20     0  00:45      0.0881
0.0881      -0.000
  49                    JUNCTION    348.38   348.38     0  00:45        3.74
3.74       0.022
  59                    JUNCTION      0.00   483.87     0  00:44           0
7.93       0.001
  61                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                    JUNCTION      0.00     0.17     0  00:45           0
0.000711       0.024
  64                    JUNCTION      0.00     5.60     0  01:12           0
0.315      -0.000
  F18                   JUNCTION     24.21    24.21     0  00:45        0.19
0.19       0.030
  F8                    JUNCTION      6.46     6.46     0  00:45      0.0424
0.0424       0.028
  pnd_4_Outlet          JUNCTION      0.00    41.20     0  01:00           0
1.16      -0.049
  POND_3FUT             JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  POND_5_OUT            JUNCTION      0.00    20.51     0  00:46           0
0.19      -0.006
  CNTY_LN_RD            JUNCTION      0.00   407.46     0  00:55           0
10       0.000
  SITE_OUTFALL          OUTFALL       0.00   407.46     0  00:55           0
10       0.000
  RD_OVERTOP            OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND            STORAGE      44.93   552.95     0  00:45        0.399
10       0.005
  POND_4B               STORAGE       5.47    45.12     0  00:46      0.0677
1.15      -0.503
  POND_4A               STORAGE       0.00   114.59     0  00:45           0
1.05       0.256
  POND_5                STORAGE       0.00    24.21     0  00:45           0
0.19      -0.107
  POND_2                STORAGE      23.42    37.76     0  00:45       0.198
0.315      -0.069
  POND_1B               STORAGE      63.92   108.00     0  00:45        0.67
```

1.28 0.000
POND_1A STORAGE 50.75 50.75 0 00:45 0.609
0.609 -0.000
BALD_MTN_DETENTION STORAGE 273.44 274.11 0 00:45 2.92
4.2 0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
28	JUNCTION	0.44	0.687	3.713
29	JUNCTION	0.05	4.548	0.000
42	JUNCTION	0.38	0.399	3.591
45	JUNCTION	0.04	6.400	0.000
49	JUNCTION	0.09	6.815	0.000
F18	JUNCTION	0.16	2.115	0.055

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	2.261	0.8	0.0	0.0	119.100	42.7	0 00:55	407.46

```
  POND_4B                  10.187   23.4    0.0    0.0      38.843   89.3       0
01:00      41.20
  POND_4A                   2.714    4.8    0.0    0.0      46.892   82.3       0
00:58      37.47
  POND_5                    2.278   23.1    0.0    0.0       9.326   94.5       0
00:46      20.51
  POND_2                   10.415   16.8    0.0    0.0      35.126   56.8       0
01:12       5.60
  POND_1B                  15.289   13.0    0.0    0.0      85.280   72.5       0
01:02      49.91
  POND_1A                   0.030    0.1    0.0    0.0       2.237    8.6       0
00:46      48.80
  BALD_MTN_DETENTION        1.252    0.1    0.0    0.0      61.741    4.7       0
00:56     169.64


  ************************
  Outfall Loading Summary
  ************************

  ------------------------------------------------------------
                         Flow       Avg       Max       Total
                         Freq      Flow      Flow      Volume
  Outfall Node           Pcnt       CFS       CFS    10^6 gal
  ------------------------------------------------------------
  SITE_OUTFALL          87.92     11.98    407.46       9.997
  RD_OVERTOP             0.00      0.00      0.00       0.000
  ------------------------------------------------------------
  System                43.96     11.98    407.46       9.997


  ********************
  Link Flow Summary
  ********************

  ---------------------------------------------------------------------------------
                                 Maximum  Time of Max   Maximum    Max/    Max/
                                  |Flow|   Occurrence   |Veloc|    Full    Full
  Link                  Type         CFS  days hr:min    ft/sec    Flow   Depth
  ---------------------------------------------------------------------------------
  26                    CONDUIT     48.80     0  00:47     13.99    0.79    0.67
  29                    CONDUIT    490.69     0  00:45     15.70    1.19    0.89
  53                    CONDUIT      6.44     0  00:45      7.10    0.24    0.67
  54                    CONDUIT     20.52     0  00:46     15.64    0.83    0.70
  BLD_MTN_OF            CONDUIT    169.64     0  00:56     39.70    0.61    0.78
  C1                    CONDUIT      0.00     0  00:00      0.00    0.00    0.00
  EX_MISTY_AC_BLVD_PIPE CONDUIT     49.88     0  01:02     15.88    0.19    0.30
  L1                    CONDUIT     45.79     0  01:15     10.11    0.23    0.96
  L10                   CONDUIT     47.13     0  00:45     10.27    1.06    1.00
  L11                   CONDUIT      1.12     0  00:47      0.45    0.03    0.91
```

L12	CONDUIT	67.50	0	00:45	12.81	0.85	1.00
L13	CONDUIT	66.47	0	00:45	13.57	1.15	1.00
L14	CONDUIT	2.47	0	01:16	2.79	0.02	0.90
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.49
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	41.24	0	01:00	8.97	0.69	0.86
L20	CONDUIT	24.21	0	00:45	13.70	1.23	1.00
L22	CONDUIT	490.42	0	00:45	15.30	1.32	0.94
L23	CONDUIT	496.69	0	00:45	17.59	0.92	0.83
L24	CONDUIT	483.87	0	00:44	14.93	1.31	0.94
L25	CONDUIT	348.39	0	00:45	21.91	1.41	1.00
L26	CONDUIT	169.63	0	00:57	14.49	1.07	0.94
L27	CONDUIT	169.64	0	00:56	14.76	1.05	0.91
L28	CONDUIT	169.64	0	00:56	13.66	1.21	0.96
L29	CONDUIT	169.64	0	00:56	24.00	3.84	1.00
L3	CONDUIT	5.57	0	01:14	6.41	0.07	0.47
L30	CONDUIT	15.09	0	00:45	11.24	0.09	0.23
L31	CONDUIT	15.05	0	00:45	10.71	0.09	0.20
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	15.17	0	00:45	10.90	0.14	0.25
L35	CONDUIT	11.21	0	00:45	11.95	0.54	0.53
L4	CONDUIT	5.57	0	01:13	5.05	0.10	0.21
L44	CONDUIT	49.88	0	01:02	15.88	3.14	1.00
L45	CONDUIT	0.17	0	00:45	0.52	0.04	1.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.22
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	15.05	0	00:45	10.39	0.09	0.21
L6	CONDUIT	5.60	0	01:12	5.74	0.08	0.20
L7	CONDUIT	5.60	0	01:12	5.89	0.08	0.19
L9	CONDUIT	37.47	0	00:58	7.63	1.27	1.00
58	CONDUIT	407.46	0	00:55	6.32	0.12	0.25
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:46			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:46			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:46			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:46			1.00
PND_4B_OF_1	ORIFICE	0.18	0	01:39			1.00
PND_4B_OF_2	ORIFICE	0.07	0	01:00			1.00
PND_4B_OF_3	ORIFICE	0.06	0	01:00			1.00
PND_4B_OF_4	ORIFICE	0.06	0	01:00			1.00
PND_4B_OF_5	ORIFICE	0.05	0	01:00			1.00
PND_4B_GRATE	ORIFICE	40.80	0	01:00			
PND_5_GRATE	ORIFICE	20.43	0	00:46			
PND_2_OF_1	ORIFICE	0.21	0	01:12			1.00
PND_2_OF_2	ORIFICE	0.08	0	01:12			1.00
PND_2_OF_3	ORIFICE	0.05	0	01:12			1.00

PND_2_GRATE	ORIFICE	5.27	0	01:12	
PND_1_OF_1	ORIFICE	0.07	0	00:49	1.00
PND_1_OF_2	ORIFICE	0.05	0	01:43	1.00
PND_1_OF_3	ORIFICE	0.05	0	01:43	1.00
PND_1_OF_4	ORIFICE	0.03	0	01:34	1.00
PND_1_OF_5	ORIFICE	0.03	0	01:34	1.00
PND_1_OF_6	ORIFICE	0.37	0	01:26	1.00
PND_1_OF_7	ORIFICE	0.37	0	01:26	1.00
PND_1_GRATE	ORIFICE	49.35	0	01:02	
CNTY_LN_RD_CULV_1_EX	ORIFICE	126.45	0	00:55	1.00
CNTY_LN_RD_CULV_2	ORIFICE	126.45	0	00:55	1.00
CNTY_LN_RD_CULV_3	ORIFICE	154.57	0	00:55	1.00
CTY_LN_RD	WEIR	0.00	0	00:00	0.00

****
Flow Classification Summary
****

Inlet Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.17	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
53	1.00	0.00	0.14	0.00	0.02	0.00	0.00	0.84	1.00	0.00
54	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00
L1	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.03	0.00
L11	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.99	

0.00
  L12 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L13 1.00 0.01 0.00 0.00 0.00 0.00 0.00 0.99 0.00
0.00
  L14 1.00 0.99 0.00 0.00 0.00 0.00 0.00 0.00 0.99
0.00
  L15 1.00 0.99 0.01 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L16 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L17 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L18 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L2 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L20 1.00 0.00 0.04 0.00 0.09 0.00 0.00 0.87 0.11
0.00
  L22 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L23 1.00 0.24 0.00 0.00 0.00 0.00 0.00 0.76 0.00
0.00
  L24 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L25 1.00 0.10 0.00 0.00 0.00 0.00 0.00 0.89 0.00
0.00
  L26 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L27 1.00 0.02 0.00 0.00 0.00 0.00 0.00 0.98 0.00
0.00
  L28 1.00 0.09 0.00 0.00 0.00 0.00 0.00 0.91 0.00
0.00
  L29 1.00 0.00 0.39 0.00 0.00 0.00 0.61 0.00 0.00
0.00
  L3 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L30 1.00 0.56 0.05 0.00 0.03 0.00 0.00 0.36 0.09
0.00
  L31 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L32 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L35 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L4 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00

0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.05	0.00	0.00	0.00	0.95
0.00									
L46	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.09
0.00									
58	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00									

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
29	0.01	0.01	0.01	0.09	0.01
53	0.01	0.01	20.03	0.01	0.01
L1	0.01	0.01	0.37	0.01	0.01
L10	0.44	0.44	0.60	0.02	0.01
L11	0.01	0.01	0.44	0.01	0.01
L12	0.02	0.02	0.36	0.01	0.01
L13	0.02	0.02	0.04	0.04	0.02
L20	0.16	0.16	11.45	0.06	0.06
L22	0.01	0.01	0.01	0.15	0.01
L24	0.01	0.04	0.01	0.15	0.01
L25	0.09	0.09	0.09	0.11	0.09
L26	0.01	0.01	0.04	0.37	0.01
L27	0.01	0.01	0.01	0.33	0.01
L28	0.01	0.38	0.01	0.47	0.01
L29	0.64	0.64	0.87	0.93	0.01
L44	0.39	0.56	0.39	0.68	0.39
L45	3.83	3.83	7.49	0.01	0.01
L9	0.91	0.92	14.08	0.64	0.60

```
Analysis begun on:  Sat May  9 08:47:03 2026
Analysis ended on:  Sat May  9 08:47:08 2026
Total elapsed time: 00:00:05
```

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - Q50

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	46.398	2.518
Evaporation Loss	0.000	0.000
Infiltration Loss	20.817	1.130
Surface Runoff	25.655	1.392
Final Storage	0.211	0.011
Continuity Error (%)	-0.613	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	25.654	8.360
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	25.660	8.362
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.027	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (82.67%)
Link 58 (17.25%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	3.66 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	7.24 %
13.228 - 5.833 sec	:	10.08 %
5.833 - 2.572 sec	:	17.64 %
2.572 - 1.134 sec	:	39.81 %
1.134 - 0.500 sec	:	25.23 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	2.52	0.00	0.00	1.61	0.07	0.84	0.91	0.38	27.05	0.363
BB	2.52	0.00	0.00	1.53	0.00	1.01	1.01	0.07	8.55	0.400
CC	2.52	0.00	0.00	0.00	2.50	0.00	2.50	0.07	8.08	0.993
DD	2.52	0.00	0.00	1.45	0.33	0.75	1.07	0.37	30.11	0.426
EE	2.52	0.00	0.00	1.01	0.81	0.71	1.52	0.07	9.38	0.603
FF	2.52	0.00	0.00	1.45	0.00	1.09	1.09	0.02	3.14	0.434
GG	2.52	0.00	0.00	1.31	0.27	0.95	1.22	0.16	19.01	0.485
HH	2.52	0.00	0.00	1.08	0.67	0.78	1.45	0.34	39.64	0.576
II	2.52	0.00	0.00	1.08	0.64	0.83	1.47	0.04	5.48	0.583
JJ	2.52	0.00	0.00	1.08	0.40	1.05	1.45	0.27	28.26	0.575
MD2	2.52	0.00	0.00	0.87	1.15	0.50	1.65	0.54	55.82	0.655
MD5	2.52	0.00	0.00	1.22	0.30	1.01	1.31	0.06	4.47	0.519
ME	2.52	0.00	0.00	0.63	1.21	0.69	1.90	0.17	21.04	0.753
MO2	2.52	0.00	0.00	0.41	1.76	0.34	2.11	0.03	3.87	0.837
MO3	2.52	0.00	0.00	0.59	1.47	0.47	1.94	0.07	9.78	0.770
MO4	2.52	0.00	0.00	0.44	1.72	0.35	2.07	0.04	5.42	0.824
MO5	2.52	0.00	0.00	1.02	0.99	0.51	1.50	2.44	229.05	0.594

```
  MO6                     2.52        0.00       0.00       1.23       0.00
1.32       1.32        0.02     3.10   0.523
  MO7A                    2.52        0.00       0.00       1.18       0.76
0.58       1.34        2.39   216.27   0.533
  MO7B                    2.52        0.00       0.00       1.05       0.85
0.62       1.47        0.73    76.20   0.583
  MO8                     2.52        0.00       0.00       0.61       1.45
0.47       1.91        0.07     9.41   0.760
```

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.69	7299.05	0 00:45	0.69
2	JUNCTION	0.01	0.67	7297.99	0 00:45	0.66
3	JUNCTION	0.01	0.65	7287.22	0 00:45	0.64
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
23	JUNCTION	0.19	3.46	7309.09	0 01:03	3.44
24	JUNCTION	0.09	1.04	7306.19	0 01:03	1.03
27	JUNCTION	0.01	0.91	7268.85	0 00:57	0.89
28	JUNCTION	0.06	2.47	7268.85	0 00:57	2.45
29	JUNCTION	0.06	2.20	7268.76	0 00:58	2.18
30	JUNCTION	0.04	1.96	7269.54	0 00:45	1.95
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0 00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0 00:00	0.00
35	JUNCTION	0.01	1.30	7269.54	0 00:45	1.29
36	JUNCTION	0.08	0.26	7270.56	0 01:28	0.26
37	JUNCTION	0.09	0.28	7267.06	0 01:30	0.28
38	JUNCTION	0.07	0.23	7263.26	0 01:31	0.23
39	JUNCTION	0.14	2.94	7261.98	0 00:54	2.94
40	JUNCTION	0.01	0.63	7277.39	0 00:45	0.61
41	JUNCTION	0.52	6.24	7290.64	0 00:50	6.23
42	JUNCTION	0.19	4.07	7287.70	0 00:50	4.07
43	JUNCTION	0.17	3.20	7285.02	0 00:49	3.18
44	JUNCTION	0.18	3.26	7279.75	0 00:49	3.26
45	JUNCTION	0.23	5.88	7273.82	0 00:45	5.81
46	JUNCTION	0.23	5.72	7269.71	0 00:45	5.51
47	JUNCTION	0.22	5.51	7268.48	0 00:45	5.00
48	JUNCTION	0.01	0.71	7301.44	0 00:45	0.71
49	JUNCTION	0.09	4.83	7275.33	0 00:44	4.76

59	JUNCTION	0.19	4.57	7270.73	0	00:45	4.45
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.17	2.13	7311.09	0	01:03	2.12
64	JUNCTION	0.08	0.26	7271.42	0	01:27	0.26
F18	JUNCTION	0.09	2.85	7275.55	0	00:45	2.83
F8	JUNCTION	0.01	0.45	7269.09	0	00:45	0.45
pnd_4_Outlet	JUNCTION	0.13	1.82	7262.15	0	00:55	1.81
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.04	0.90	7267.73	0	00:47	0.77
CNTY_LN_RD	JUNCTION	0.25	2.44	7256.95	0	00:54	2.44
SITE_OUTFALL	OUTFALL	0.22	2.42	7256.93	0	00:54	2.42
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.18	5.02	7262.00	0	00:54	5.02
POND_4B	STORAGE	1.94	5.42	7266.75	0	01:01	5.42
POND_4A	STORAGE	0.46	4.53	7268.79	0	00:58	4.51
POND_5	STORAGE	1.55	4.50	7273.83	0	00:47	4.43
POND_2	STORAGE	0.89	2.66	7275.99	0	01:27	2.66
POND_1B	STORAGE	1.23	4.75	7311.08	0	01:03	4.75
POND_1A	STORAGE	0.03	1.42	7317.42	0	00:46	1.38
BALD_MTN_DETENTION	STORAGE	0.10	1.65	7292.65	0	00:49	1.65

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	3.14	12.52	0 00:45	0.0237	0.0984	0.000
2	JUNCTION	0.00	12.56	0 00:45	0	0.0984	-0.003
3	JUNCTION	0.00	12.44	0 00:45	0	0.0984	-0.002
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
5	JUNCTION	0.00	0.00	0 00:00	0		

```
 0       0.000 gal
  6                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                   JUNCTION      0.00    38.00     0  01:03           0
1.03       0.000
  24                   JUNCTION      0.00    38.00     0  01:03           0
1.03      -0.000
  27                   JUNCTION      0.00     0.22     0  00:50           0
0.000378       0.171
  28                   JUNCTION     39.64    39.64     0  00:45       0.337
0.337       0.260
  29                   JUNCTION      0.00    55.47     0  00:45           0
0.544       0.068
  30                   JUNCTION     55.82    55.82     0  00:45       0.544
0.545       0.034
  31                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                   JUNCTION      0.00     0.04     0  00:44           0
0.000129       0.085
  36                   JUNCTION      0.00     1.04     0  01:27           0
0.261      -0.000
  37                   JUNCTION      0.00     1.04     0  01:28           0
0.261      -0.000
  38                   JUNCTION      0.00     1.03     0  01:31           0
0.261      -0.017
  39                   JUNCTION      0.00    35.91     0  01:01           0
1.24       0.032
  40                   JUNCTION      0.00    12.43     0  00:45           0
0.0984       0.104
  41                   JUNCTION      0.00   158.66     0  00:49           0
3.5        0.002
  42                   JUNCTION      0.00   158.66     0  00:49           0
3.5       -0.000
  43                   JUNCTION      0.00   158.26     0  00:49           0
3.5        0.000
  44                   JUNCTION      0.00   158.23     0  00:49           0
3.5       -0.150
  45                   JUNCTION      0.00   416.30     0  00:45           0
6.63       0.052
  46                   JUNCTION      0.00   422.50     0  00:45           0
6.62       0.001
  47                   JUNCTION      0.00   426.64     0  00:45           0
6.62      -0.000
  48                   JUNCTION      9.38     9.38     0  00:45      0.0747
```

0.0747 -0.001
49 JUNCTION 292.46 292.46 0 00:45 3.12
3.12 0.005
59 JUNCTION 0.00 421.06 0 00:45 0
6.62 0.001
61 JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
62 JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
63 JUNCTION 0.00 0.13 0 00:47 0
0.000657 0.011
64 JUNCTION 0.00 1.04 0 01:27 0
0.261 -0.000
F18 JUNCTION 21.04 21.04 0 00:45 0.165
0.165 0.047
F8 JUNCTION 5.48 5.48 0 00:45 0.0358
0.0358 0.051
pnd_4_Outlet JUNCTION 0.00 35.67 0 01:01 0
0.974 -0.055
POND_3FUT JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
POND_5_OUT JUNCTION 0.00 16.46 0 00:47 0
0.165 -0.007
CNTY_LN_RD JUNCTION 0.00 365.76 0 00:54 0
8.36 -0.000
SITE_OUTFALL OUTFALL 0.00 365.76 0 00:54 0
8.36 0.000
RD_OVERTOP OUTFALL 0.00 0.00 0 00:00 0
0 0.000 gal
EX-WETLAND STORAGE 37.68 476.94 0 00:45 0.338
8.37 0.006
POND_4B STORAGE 4.47 42.29 0 00:44 0.056
0.968 -0.599
POND_4A STORAGE 0.00 95.13 0 00:45 0
0.88 0.396
POND_5 STORAGE 0.00 21.03 0 00:45 0
0.165 -0.130
POND_2 STORAGE 19.01 30.88 0 00:45 0.162
0.261 -0.060
POND_1B STORAGE 53.39 87.84 0 00:45 0.554
1.04 0.000
POND_1A STORAGE 39.28 39.28 0 00:45 0.48
0.48 -0.000
BALD_MTN_DETENTION STORAGE 232.15 232.74 0 00:45 2.47
3.5 0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
42	JUNCTION	0.03	0.074	3.916
49	JUNCTION	0.03	0.328	3.672
F18	JUNCTION	0.11	1.346	0.824

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	1.618	0.6	0.0	0.0	89.217	32.0	0 00:54	365.76
POND_4B	10.108	23.2	0.0	0.0	37.791	86.9	0 01:01	35.67
POND_4A	2.476	4.3	0.0	0.0	37.060	65.1	0 00:58	33.38
POND_5	2.269	23.0	0.0	0.0	9.016	91.4	0 00:47	16.46
POND_2	10.284	16.6	0.0	0.0	32.656	52.8	0 01:27	1.04
POND_1B	15.066	12.8	0.0	0.0	78.297	66.5	0 01:03	38.03
POND_1A	0.023	0.1	0.0	0.0	1.631	6.2	0 00:46	38.11
BALD_MTN_DETENTION	0.884	0.1	0.0	0.0	44.065	3.4	0	

00:49 158.66

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	87.89	9.89	365.76	8.361
RD_OVERTOP	0.00	0.00	0.00	0.000
System	43.95	9.89	365.76	8.361

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	38.11	0	00:46	13.27	0.61	0.57
29	CONDUIT	427.29	0	00:45	14.30	1.03	0.84
53	CONDUIT	5.46	0	00:45	7.64	0.20	0.65
54	CONDUIT	16.46	0	00:47	14.97	0.67	0.60
BLD_MTN_OF	CONDUIT	158.66	0	00:49	39.68	0.57	0.61
C1	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	38.00	0	01:04	14.70	0.15	0.26
L1	CONDUIT	60.41	0	01:06	9.60	0.30	0.87
L10	CONDUIT	39.49	0	00:45	10.27	0.89	0.99
L11	CONDUIT	0.31	0	00:45	0.28	0.01	0.72
L12	CONDUIT	55.66	0	00:45	12.22	0.70	0.83
L13	CONDUIT	55.47	0	00:45	13.47	0.96	0.78
L14	CONDUIT	0.04	0	00:44	0.07	0.00	0.60
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.34
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	35.67	0	01:01	8.80	0.60	0.62
L20	CONDUIT	21.03	0	00:45	11.90	1.07	1.00
L22	CONDUIT	426.64	0	00:45	14.11	1.15	0.86
L23	CONDUIT	422.50	0	00:45	17.13	0.78	0.71
L24	CONDUIT	421.06	0	00:45	13.87	1.14	0.87
L25	CONDUIT	292.66	0	00:45	18.40	1.18	1.00

L26	CONDUIT	158.15	0	00:50	14.47	0.99	0.81
L27	CONDUIT	158.23	0	00:49	14.75	0.98	0.80
L28	CONDUIT	158.26	0	00:49	12.94	1.13	0.96
L29	CONDUIT	158.66	0	00:49	22.45	3.59	1.00
L3	CONDUIT	1.03	0	01:31	4.02	0.01	0.34
L30	CONDUIT	12.47	0	00:45	10.63	0.07	0.19
L31	CONDUIT	12.43	0	00:45	10.12	0.08	0.19
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	12.56	0	00:45	10.32	0.12	0.23
L35	CONDUIT	9.39	0	00:45	11.43	0.46	0.47
L4	CONDUIT	1.03	0	01:31	3.06	0.02	0.09
L44	CONDUIT	38.00	0	01:03	12.10	2.39	1.00
L45	CONDUIT	0.13	0	00:47	0.45	0.03	1.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.16
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	12.44	0	00:45	9.83	0.08	0.19
L6	CONDUIT	1.04	0	01:28	3.47	0.02	0.09
L7	CONDUIT	1.04	0	01:27	3.56	0.02	0.09
L9	CONDUIT	33.38	0	00:44	7.06	1.13	1.00
58	CONDUIT	365.76	0	00:54	6.18	0.11	0.24
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:47			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:47			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:47			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:47			1.00
PND_4B_OF_1	ORIFICE	0.18	0	01:32			1.00
PND_4B_OF_2	ORIFICE	0.07	0	01:01			1.00
PND_4B_OF_3	ORIFICE	0.06	0	01:01			1.00
PND_4B_OF_4	ORIFICE	0.06	0	01:01			1.00
PND_4B_OF_5	ORIFICE	0.05	0	01:01			1.00
PND_4B_GRATE	ORIFICE	35.26	0	01:01			
PND_5_GRATE	ORIFICE	16.38	0	00:47			
PND_2_OF_1	ORIFICE	0.20	0	01:27			1.00
PND_2_OF_2	ORIFICE	0.07	0	01:27			1.00
PND_2_OF_3	ORIFICE	0.04	0	01:27			1.00
PND_2_GRATE	ORIFICE	0.72	0	01:27			
PND_1_OF_1	ORIFICE	0.07	0	00:52			1.00
PND_1_OF_2	ORIFICE	0.05	0	01:39			1.00
PND_1_OF_3	ORIFICE	0.05	0	01:39			1.00
PND_1_OF_4	ORIFICE	0.03	0	01:29			1.00
PND_1_OF_5	ORIFICE	0.03	0	01:29			1.00
PND_1_OF_6	ORIFICE	0.37	0	01:22			1.00
PND_1_OF_7	ORIFICE	0.37	0	01:22			1.00
PND_1_GRATE	ORIFICE	37.26	0	01:03			
CNTY_LN_RD_CULV_1_EX	ORIFICE	113.87	0	00:54			1.00
CNTY_LN_RD_CULV_2	ORIFICE	113.87	0	00:54			1.00
CNTY_LN_RD_CULV_3	ORIFICE	138.02	0	00:54			1.00
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.24	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00
53	1.00	0.00	0.14	0.00	0.02	0.00	0.00	0.84	1.00	0.00
54	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.17	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
L1	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.03	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00
L12	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L13	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
L14	1.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00
L15	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L20	1.00	0.00	0.04	0.00	0.09	0.00	0.00	0.87	0.11
0.00									
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L23	1.00	0.25	0.00	0.00	0.00	0.00	0.00	0.75	0.00
0.00									
L24	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L25	1.00	0.10	0.00	0.00	0.00	0.00	0.00	0.90	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L28	1.00	0.10	0.00	0.00	0.00	0.00	0.00	0.90	0.00
0.00									
L29	1.00	0.00	0.36	0.00	0.00	0.00	0.63	0.00	0.00
0.00									
L3	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L30	1.00	0.00	0.05	0.00	0.03	0.00	0.00	0.92	0.09
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.05	0.00	0.00	0.00	0.95
0.00									
L46	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L53	1.00	0.52	0.00	0.00	0.00	0.00	0.00	0.48	0.00
0.00									

L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.09
0.00									
58	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00									

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
29	0.01	0.01	0.01	0.02	0.01
53	0.01	0.01	19.98	0.01	0.01
L1	0.01	0.01	0.09	0.01	0.01
L10	0.01	0.01	0.42	0.01	0.01
L20	0.11	0.11	11.42	0.02	0.02
L22	0.01	0.01	0.01	0.07	0.01
L24	0.01	0.01	0.01	0.07	0.01
L25	0.03	0.03	0.04	0.06	0.03
L28	0.01	0.03	0.01	0.21	0.01
L29	0.52	0.52	0.78	0.84	0.01
L44	0.17	0.42	0.17	0.55	0.17
L45	3.74	3.74	7.42	0.01	0.01
L9	0.77	0.79	14.04	0.46	0.42

Analysis begun on: Sat May 9 08:51:34 2026
Analysis ended on: Sat May 9 08:51:39 2026
Total elapsed time: 00:00:05

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - Q25

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	41.239	2.238
Evaporation Loss	0.000	0.000
Infiltration Loss	20.086	1.090
Surface Runoff	21.184	1.150
Final Storage	0.211	0.011
Continuity Error (%)	-0.587	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	21.183	6.903
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	21.184	6.903
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.008	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (83.05%)
Link 58 (16.89%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	3.68 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	7.91 %
13.228 - 5.833 sec	:	9.05 %
5.833 - 2.572 sec	:	17.81 %
2.572 - 1.134 sec	:	40.04 %
1.134 - 0.500 sec	:	25.20 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	2.24	0.00	0.00	1.56	0.06	0.62	0.69	0.28	20.36	0.308
BB	2.24	0.00	0.00	1.48	0.00	0.77	0.77	0.06	6.40	0.346
CC	2.24	0.00	0.00	0.00	2.22	0.00	2.22	0.06	7.16	0.991
DD	2.24	0.00	0.00	1.40	0.29	0.55	0.84	0.29	23.95	0.376
EE	2.24	0.00	0.00	0.98	0.72	0.55	1.27	0.06	7.74	0.568
FF	2.24	0.00	0.00	1.41	0.00	0.85	0.85	0.02	2.43	0.382
GG	2.24	0.00	0.00	1.27	0.24	0.74	0.98	0.13	15.02	0.437
HH	2.24	0.00	0.00	1.05	0.59	0.61	1.20	0.28	32.52	0.536
II	2.24	0.00	0.00	1.04	0.57	0.65	1.22	0.03	4.54	0.545
JJ	2.24	0.00	0.00	1.05	0.36	0.84	1.20	0.22	23.00	0.535
MD2	2.24	0.00	0.00	0.84	1.02	0.37	1.40	0.46	47.25	0.624
MD5	2.24	0.00	0.00	1.19	0.27	0.79	1.06	0.05	3.59	0.473
ME	2.24	0.00	0.00	0.61	1.07	0.56	1.63	0.14	18.05	0.730
MO2	2.24	0.00	0.00	0.40	1.56	0.28	1.84	0.03	3.40	0.823
MO3	2.24	0.00	0.00	0.57	1.31	0.37	1.68	0.06	8.46	0.749
MO4	2.24	0.00	0.00	0.43	1.53	0.28	1.81	0.04	4.72	0.807
MO5	2.24	0.00	0.00	0.99	0.87	0.38	1.25	2.04	193.63	0.559

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  MO6                       2.24       0.00       0.00       1.19       0.00
1.07       1.07       0.02     2.51   0.479
  MO7A                      2.24       0.00       0.00       1.14       0.67
0.43       1.10       1.96   180.90   0.492
  MO7B                      2.24       0.00       0.00       1.02       0.75
0.47       1.22       0.61    63.37   0.546
  MO8                       2.24       0.00       0.00       0.59       1.29
0.37       1.65       0.06     8.08   0.738


  ******************
  Node Depth Summary
  ******************

  ----------------------------------------------------------------------------
                                Average  Maximum  Maximum  Time of Max    Reported
                                  Depth    Depth      HGL   Occurrence   Max Depth
  Node                  Type       Feet     Feet     Feet  days hr:min        Feet
  ----------------------------------------------------------------------------
  1                     JUNCTION   0.01     0.62  7298.98     0  00:45        0.62
  2                     JUNCTION   0.01     0.60  7297.92     0  00:45        0.59
  3                     JUNCTION   0.01     0.59  7287.16     0  00:45        0.57
  4                     JUNCTION   0.00     0.00  7305.11     0  00:00        0.00
  5                     JUNCTION   0.00     0.00  7305.93     0  00:00        0.00
  6                     JUNCTION   0.00     0.00  7306.71     0  00:00        0.00
  23                    JUNCTION   0.17     2.17  7307.80     0  01:09        2.17
  24                    JUNCTION   0.08     0.83  7305.98     0  01:09        0.83
  27                    JUNCTION   0.00     0.17  7268.11     0  00:57        0.15
  28                    JUNCTION   0.04     1.73  7268.11     0  00:57        1.71
  29                    JUNCTION   0.04     1.67  7268.23     0  00:45        1.66
  30                    JUNCTION   0.04     1.71  7269.29     0  00:45        1.71
  31                    JUNCTION   0.00     0.00  7272.09     0  00:00        0.00
  32                    JUNCTION   0.00     0.00  7277.02     0  00:00        0.00
  33                    JUNCTION   0.00     0.00  7279.33     0  00:00        0.00
  34                    JUNCTION   0.00     0.00  7278.07     0  00:00        0.00
  35                    JUNCTION   0.01     1.05  7269.29     0  00:45        1.05
  36                    JUNCTION   0.07     0.14  7270.44     0  01:41        0.14
  37                    JUNCTION   0.08     0.15  7266.93     0  01:46        0.15
  38                    JUNCTION   0.06     0.13  7263.16     0  01:47        0.13
  39                    JUNCTION   0.12     2.56  7261.60     0  00:58        2.37
  40                    JUNCTION   0.01     0.57  7277.33     0  00:45        0.55
  41                    JUNCTION   0.50     5.57  7289.97     0  00:48        5.52
  42                    JUNCTION   0.18     3.30  7286.93     0  00:49        3.28
  43                    JUNCTION   0.16     2.88  7284.70     0  00:48        2.88
  44                    JUNCTION   0.16     2.93  7279.42     0  00:49        2.93
  45                    JUNCTION   0.22     5.10  7273.04     0  00:45        4.96
  46                    JUNCTION   0.22     5.09  7269.08     0  00:46        4.79
  47                    JUNCTION   0.20     4.66  7267.63     0  00:46        4.35
  48                    JUNCTION   0.01     0.64  7301.37     0  00:45        0.64
  49                    JUNCTION   0.08     3.65  7274.15     0  00:45        3.65
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59	JUNCTION	0.18	3.97	7270.13	0	00:45	3.79
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.16	1.91	7310.87	0	01:09	1.91
64	JUNCTION	0.07	0.14	7271.30	0	01:39	0.14
F18	JUNCTION	0.09	2.15	7274.85	0	00:44	2.09
F8	JUNCTION	0.01	0.41	7269.05	0	00:45	0.41
pnd_4_Outlet	JUNCTION	0.12	1.55	7261.88	0	00:58	1.49
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.04	0.75	7267.58	0	00:48	0.70
CNTY_LN_RD	JUNCTION	0.24	2.32	7256.83	0	00:52	2.31
SITE_OUTFALL	OUTFALL	0.21	2.29	7256.80	0	00:52	2.28
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.16	4.36	7261.34	0	00:52	4.32
POND_4B	STORAGE	1.94	5.33	7266.66	0	01:02	5.33
POND_4A	STORAGE	0.45	3.87	7268.13	0	00:57	3.84
POND_5	STORAGE	1.55	4.41	7273.74	0	00:48	4.38
POND_2	STORAGE	0.75	2.26	7275.59	0	01:39	2.26
POND_1B	STORAGE	1.22	4.53	7310.86	0	01:09	4.53
POND_1A	STORAGE	0.03	1.20	7317.20	0	00:46	1.17
BALD_MTN_DETENTION	STORAGE	0.09	1.52	7292.52	0	00:48	1.51

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	2.43	10.17	0 00:45	0.0186	0.081	0.000
2	JUNCTION	0.00	10.20	0 00:45	0	0.081	-0.003
3	JUNCTION	0.00	10.09	0 00:45	0	0.081	-0.002
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
5	JUNCTION	0.00	0.00	0 00:00	0		

```
 0       0.000 gal
  6                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                   JUNCTION      0.00    24.09     0  01:09           0
0.818      -0.000
  24                   JUNCTION      0.00    24.09     0  01:09           0
0.818      -0.000
  27                   JUNCTION      0.00     0.09     0  00:45           0
5.62e-05       0.733
  28                   JUNCTION     32.52    32.52     0  00:45       0.279
0.279       0.249
  29                   JUNCTION      0.00    47.06     0  00:45           0
0.461       0.085
  30                   JUNCTION     47.25    47.25     0  00:45       0.461
0.461       0.009
  31                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                   JUNCTION      0.00     0.04     0  00:40           0
9.98e-05       0.081
  36                   JUNCTION      0.00     0.28     0  01:39           0
0.211      -0.000
  37                   JUNCTION      0.00     0.28     0  01:41           0
0.211      -0.000
  38                   JUNCTION      0.00     0.28     0  01:46           0
0.211      -0.009
  39                   JUNCTION      0.00    30.22     0  00:59           0
1.03       0.021
  40                   JUNCTION      0.00    10.07     0  00:45           0
0.081       0.086
  41                   JUNCTION      0.00   140.83     0  00:48           0
2.88       0.002
  42                   JUNCTION      0.00   140.83     0  00:48           0
2.88      -0.000
  43                   JUNCTION      0.00   140.64     0  00:48           0
2.88      -0.000
  44                   JUNCTION      0.00   140.76     0  00:49           0
2.88      -0.062
  45                   JUNCTION      0.00   354.67     0  00:45           0
5.45       0.032
  46                   JUNCTION      0.00   354.94     0  00:46           0
5.45       0.002
  47                   JUNCTION      0.00   356.42     0  00:46           0
5.45      -0.000
  48                   JUNCTION      7.74     7.74     0  00:45      0.0624
```

0.0624 -0.001
49 JUNCTION 244.27 244.27 0 00:45 2.57
2.57 -0.000
59 JUNCTION 0.00 354.36 0 00:45 0
5.45 0.001
61 JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
62 JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
63 JUNCTION 0.00 0.09 0 00:48 0
0.000583 0.009
64 JUNCTION 0.00 0.28 0 01:39 0
0.211 -0.000
F18 JUNCTION 18.05 18.05 0 00:45 0.142
0.142 0.060
F8 JUNCTION 4.54 4.54 0 00:45 0.0298
0.0298 0.062
pnd_4_Outlet JUNCTION 0.00 29.75 0 01:02 0
0.816 -0.048
POND_3FUT JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
POND_5_OUT JUNCTION 0.00 12.43 0 00:48 0
0.142 -0.008
CNTY_LN_RD JUNCTION 0.00 319.97 0 00:52 0
6.9 -0.000
SITE_OUTFALL OUTFALL 0.00 319.97 0 00:52 0
6.9 0.000
RD_OVERTOP OUTFALL 0.00 0.00 0 00:00 0
0 0.000 gal
EX-WETLAND STORAGE 31.08 393.69 0 00:46 0.282
6.91 0.007
POND_4B STORAGE 3.59 41.60 0 00:45 0.0454
0.81 -0.728
POND_4A STORAGE 0.00 79.67 0 00:45 0
0.739 0.553
POND_5 STORAGE 0.00 18.05 0 00:45 0
0.142 -0.163
POND_2 STORAGE 15.02 24.65 0 00:45 0.13
0.211 -0.048
POND_1B STORAGE 44.30 70.50 0 00:45 0.452
0.819 0.000
POND_1A STORAGE 29.82 29.82 0 00:45 0.367
0.367 -0.001
BALD_MTN_DETENTION STORAGE 196.14 196.66 0 00:45 2.06
2.88 -0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
F18	JUNCTION	0.08	0.647	1.523

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	1.188	0.4	0.0	0.0	65.426	23.5	0 00:52	319.97
POND_4B	10.072	23.2	0.0	0.0	36.624	84.2	0 01:02	29.75
POND_4A	2.307	4.1	0.0	0.0	28.758	50.5	0 00:57	33.59
POND_5	2.268	23.0	0.0	0.0	8.690	88.1	0 00:48	12.43
POND_2	8.486	13.7	0.0	0.0	26.882	43.5	0 01:39	0.28
POND_1B	14.899	12.7	0.0	0.0	73.040	62.1	0 01:09	24.12
POND_1A	0.018	0.1	0.0	0.0	1.196	4.6	0 00:46	29.05
BALD_MTN_DETENTION	0.685	0.1	0.0	0.0	34.570	2.6	0 00:48	140.83

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	87.32	8.14	319.97	6.903
RD_OVERTOP	0.00	0.00	0.00	0.000
System	43.66	8.14	319.97	6.903

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	29.05	0 00:46	12.42	0.47	0.48
29	CONDUIT	356.53	0 00:46	14.01	0.86	0.72
53	CONDUIT	4.53	0 00:45	7.66	0.17	0.64
54	CONDUIT	12.43	0 00:48	14.01	0.50	0.50
BLD_MTN_OF	CONDUIT	140.83	0 00:48	39.24	0.51	0.51
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	24.10	0 01:09	12.88	0.09	0.21
L1	CONDUIT	55.88	0 00:59	9.21	0.28	0.71
L10	CONDUIT	32.46	0 00:45	9.93	0.73	0.85
L11	CONDUIT	0.09	0 00:45	0.13	0.00	0.35
L12	CONDUIT	47.24	0 00:45	11.79	0.59	0.60
L13	CONDUIT	47.06	0 00:45	13.18	0.81	0.68
L14	CONDUIT	0.04	0 00:40	0.10	0.00	0.50
L15	CONDUIT	0.00	0 00:00	0.00	0.00	0.29
L16	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L2	CONDUIT	30.04	0 00:59	8.51	0.50	0.51
L20	CONDUIT	18.05	0 00:45	10.21	0.92	1.00
L22	CONDUIT	356.42	0 00:46	12.87	0.96	0.78
L23	CONDUIT	354.94	0 00:46	16.89	0.65	0.62
L24	CONDUIT	354.36	0 00:45	12.83	0.96	0.78
L25	CONDUIT	244.50	0 00:45	17.84	0.99	0.81
L26	CONDUIT	140.87	0 00:49	14.30	0.89	0.73
L27	CONDUIT	140.76	0 00:49	14.54	0.87	0.72

L28	CONDUIT	140.64	0	00:48	12.78	1.00	0.85
L29	CONDUIT	140.83	0	00:48	19.92	3.19	1.00
L3	CONDUIT	0.28	0	01:47	2.68	0.00	0.28
L30	CONDUIT	10.10	0	00:45	9.98	0.06	0.16
L31	CONDUIT	10.07	0	00:45	9.51	0.06	0.17
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	10.20	0	00:45	9.72	0.09	0.21
L35	CONDUIT	7.75	0	00:45	10.86	0.38	0.43
L4	CONDUIT	0.28	0	01:46	2.03	0.00	0.05
L44	CONDUIT	24.09	0	01:09	7.89	1.51	0.93
L45	CONDUIT	0.09	0	00:48	0.36	0.02	1.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.12
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	10.09	0	00:45	9.24	0.06	0.17
L6	CONDUIT	0.28	0	01:41	2.30	0.00	0.05
L7	CONDUIT	0.28	0	01:39	2.36	0.00	0.05
L9	CONDUIT	33.59	0	00:45	7.18	1.13	1.00
58	CONDUIT	319.97	0	00:52	6.02	0.10	0.23
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:48			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:48			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:48			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:48			1.00
PND_4B_OF_1	ORIFICE	0.18	0	01:26			1.00
PND_4B_OF_2	ORIFICE	0.07	0	01:02			1.00
PND_4B_OF_3	ORIFICE	0.06	0	01:02			1.00
PND_4B_OF_4	ORIFICE	0.05	0	01:02			1.00
PND_4B_OF_5	ORIFICE	0.05	0	01:02			1.00
PND_4B_GRATE	ORIFICE	29.34	0	01:02			
PND_5_GRATE	ORIFICE	12.35	0	00:48			
PND_2_OF_1	ORIFICE	0.19	0	01:39			1.00
PND_2_OF_2	ORIFICE	0.06	0	01:39			1.00
PND_2_OF_3	ORIFICE	0.03	0	01:39			1.00
PND_2_GRATE	ORIFICE	0.00	0	00:00			
PND_1_OF_1	ORIFICE	0.07	0	00:57			1.00
PND_1_OF_2	ORIFICE	0.05	0	01:34			1.00
PND_1_OF_3	ORIFICE	0.05	0	01:34			1.00
PND_1_OF_4	ORIFICE	0.03	0	01:24			1.00
PND_1_OF_5	ORIFICE	0.03	0	01:24			1.00
PND_1_OF_6	ORIFICE	0.37	0	01:16			1.00
PND_1_OF_7	ORIFICE	0.37	0	01:16			1.00
PND_1_GRATE	ORIFICE	23.17	0	01:09			
CNTY_LN_RD_CULV_1_EX	ORIFICE	100.67	0	00:52			1.00
CNTY_LN_RD_CULV_2	ORIFICE	100.67	0	00:52			1.00
CNTY_LN_RD_CULV_3	ORIFICE	118.63	0	00:52			0.97
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.26	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00
53	1.00	0.00	0.14	0.00	0.02	0.00	0.00	0.84	1.00	0.00
54	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.14	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00
L1	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.03	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L12	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L13	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
L14	1.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L20	1.00	0.00	0.04	0.00	0.09	0.00	0.00	0.87	0.11
0.00									
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L23	1.00	0.27	0.00	0.00	0.00	0.00	0.00	0.73	0.00
0.00									
L24	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L25	1.00	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00
0.00									
L28	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00
0.00									
L29	1.00	0.00	0.47	0.00	0.00	0.00	0.53	0.00	0.00
0.00									
L3	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L30	1.00	0.57	0.03	0.00	0.03	0.00	0.00	0.37	0.06
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.05	0.00	0.00	0.00	0.95
0.00									
L46	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									

L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.09
0.00									
58	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00									

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
53	0.01	0.01	19.96	0.01	0.01
L10	0.01	0.01	0.05	0.01	0.01
L20	0.08	0.08	11.39	0.01	0.01
L29	0.29	0.29	0.68	0.74	0.01
L44	0.01	0.17	0.01	0.36	0.01
L45	3.64	3.64	7.33	0.01	0.01
L9	0.65	0.66	13.99	0.13	0.09

Analysis begun on: Sat May 9 08:52:18 2026
Analysis ended on: Sat May 9 08:52:23 2026
Total elapsed time: 00:00:05

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - Q10

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	36.079	1.958
Evaporation Loss	0.000	0.000
Infiltration Loss	19.177	1.041
Surface Runoff	16.887	0.916
Final Storage	0.211	0.011
Continuity Error (%)	-0.541	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	16.886	5.503
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	16.887	5.503
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.012	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (83.51%)
Link 58 (16.41%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	3.71 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	8.37 %
13.228 - 5.833 sec	:	8.12 %
5.833 - 2.572 sec	:	17.96 %
2.572 - 1.134 sec	:	40.38 %
1.134 - 0.500 sec	:	25.17 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	1.96	0.00	0.00	1.49	0.06	0.42	0.48	0.20	14.23	0.244
BB	1.96	0.00	0.00	1.42	0.00	0.55	0.55	0.04	4.44	0.281
CC	1.96	0.00	0.00	0.00	1.94	0.00	1.94	0.05	6.24	0.988
DD	1.96	0.00	0.00	1.34	0.25	0.37	0.62	0.22	18.44	0.319
EE	1.96	0.00	0.00	0.94	0.63	0.40	1.03	0.05	6.17	0.524
FF	1.96	0.00	0.00	1.35	0.00	0.62	0.62	0.01	1.75	0.318
GG	1.96	0.00	0.00	1.23	0.21	0.53	0.74	0.10	11.29	0.379
HH	1.96	0.00	0.00	1.01	0.52	0.44	0.96	0.22	25.76	0.489
II	1.96	0.00	0.00	1.00	0.50	0.48	0.98	0.02	3.60	0.499
JJ	1.96	0.00	0.00	1.01	0.31	0.64	0.95	0.18	18.05	0.488
MD2	1.96	0.00	0.00	0.80	0.89	0.26	1.15	0.38	39.12	0.587
MD5	1.96	0.00	0.00	1.14	0.23	0.59	0.82	0.04	2.79	0.420
ME	1.96	0.00	0.00	0.58	0.94	0.44	1.38	0.12	15.08	0.702
MO2	1.96	0.00	0.00	0.38	1.37	0.21	1.57	0.02	2.93	0.803
MO3	1.96	0.00	0.00	0.54	1.14	0.28	1.42	0.05	7.12	0.723
MO4	1.96	0.00	0.00	0.41	1.33	0.21	1.54	0.03	4.00	0.787
MO5	1.96	0.00	0.00	0.94	0.76	0.25	1.01	1.66	160.27	0.518

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  MO6                       1.96       0.00       0.00       1.14       0.00
0.84       0.84       0.01     1.93   0.427
  MO7A                      1.96       0.00       0.00       1.08       0.59
0.29       0.87       1.56   148.03   0.446
  MO7B                      1.96       0.00       0.00       0.97       0.66
0.33       0.98       0.49    51.38   0.502
  MO8                       1.96       0.00       0.00       0.56       1.12
0.27       1.39       0.05     6.74   0.711
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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.55	7298.91	0 00:45	0.55
2	JUNCTION	0.01	0.53	7297.85	0 00:45	0.52
3	JUNCTION	0.01	0.52	7287.09	0 00:45	0.51
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
23	JUNCTION	0.15	1.15	7306.78	0 01:17	1.14
24	JUNCTION	0.08	0.54	7305.69	0 01:17	0.54
27	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
28	JUNCTION	0.03	1.37	7267.75	0 00:45	1.37
29	JUNCTION	0.04	1.49	7268.05	0 00:45	1.48
30	JUNCTION	0.03	1.51	7269.09	0 00:45	1.50
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0 00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0 00:00	0.00
35	JUNCTION	0.01	0.85	7269.09	0 00:45	0.84
36	JUNCTION	0.06	0.12	7270.42	0 02:06	0.12
37	JUNCTION	0.07	0.13	7266.91	0 02:07	0.13
38	JUNCTION	0.06	0.11	7263.14	0 02:08	0.11
39	JUNCTION	0.11	1.85	7260.89	0 00:57	1.76
40	JUNCTION	0.01	0.50	7277.26	0 00:45	0.49
41	JUNCTION	0.48	4.96	7289.36	0 00:48	4.88
42	JUNCTION	0.16	2.86	7286.49	0 00:48	2.82
43	JUNCTION	0.15	2.58	7284.40	0 00:48	2.56
44	JUNCTION	0.15	2.62	7279.11	0 00:49	2.61
45	JUNCTION	0.20	4.43	7272.37	0 00:45	4.36
46	JUNCTION	0.20	4.43	7268.42	0 00:45	4.23
47	JUNCTION	0.19	4.09	7267.06	0 00:45	3.88
48	JUNCTION	0.01	0.56	7301.29	0 00:45	0.56
49	JUNCTION	0.07	3.08	7273.58	0 00:45	3.07

59	JUNCTION	0.16	3.45	7269.61	0	00:45	3.36
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.15	1.63	7310.59	0	01:17	1.62
64	JUNCTION	0.06	0.12	7271.28	0	02:05	0.12
F18	JUNCTION	0.09	1.27	7273.97	0	00:46	1.22
F8	JUNCTION	0.01	0.37	7269.01	0	00:45	0.37
pnd_4_Outlet	JUNCTION	0.11	1.28	7261.61	0	01:03	1.28
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.04	0.60	7267.43	0	00:49	0.60
CNTY_LN_RD	JUNCTION	0.23	2.17	7256.68	0	00:50	2.17
SITE_OUTFALL	OUTFALL	0.20	2.15	7256.66	0	00:50	2.15
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.14	3.83	7260.81	0	00:50	3.82
POND_4B	STORAGE	1.94	5.21	7266.54	0	01:03	5.21
POND_4A	STORAGE	0.43	3.18	7267.44	0	00:57	3.16
POND_5	STORAGE	1.55	4.32	7273.65	0	00:49	4.32
POND_2	STORAGE	0.57	1.80	7275.13	0	02:05	1.80
POND_1B	STORAGE	1.21	4.25	7310.58	0	01:17	4.25
POND_1A	STORAGE	0.02	1.00	7317.00	0	00:46	0.97
BALD_MTN_DETENTION	STORAGE	0.09	1.39	7292.39	0	00:48	1.38

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	1.75	7.92	0 00:45	0.0135	0.0639	0.000
2	JUNCTION	0.00	7.95	0 00:45	0	0.0639	-0.003
3	JUNCTION	0.00	7.85	0 00:45	0	0.0639	-0.002
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
5	JUNCTION	0.00	0.00	0 00:00	0		

```
 0       0.000 gal
  6                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                   JUNCTION      0.00    10.16     0  01:17           0
0.613      -0.000
  24                   JUNCTION      0.00    10.16     0  01:17           0
0.613      -0.000
  27                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  28                   JUNCTION     25.76    25.76     0  00:45       0.222
0.222       0.240
  29                   JUNCTION      0.00    39.01     0  00:45           0
0.38       0.078
  30                   JUNCTION     39.12    39.12     0  00:45        0.38
0.38      -0.001
  31                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                   JUNCTION      0.00     0.03     0  00:40           0
7.96e-05       0.090
  36                   JUNCTION      0.00     0.22     0  02:05           0
0.163       0.000
  37                   JUNCTION      0.00     0.22     0  02:06           0
0.163      -0.000
  38                   JUNCTION      0.00     0.22     0  02:07           0
0.163      -0.007
  39                   JUNCTION      0.00    22.80     0  01:03           0
0.826      -0.003
  40                   JUNCTION      0.00     7.83     0  00:45           0
0.0639       0.059
  41                   JUNCTION      0.00   120.99     0  00:48           0
2.28       0.002
  42                   JUNCTION      0.00   120.99     0  00:48           0
2.28      -0.001
  43                   JUNCTION      0.00   121.04     0  00:48           0
2.28      -0.001
  44                   JUNCTION      0.00   121.13     0  00:49           0
2.28      -0.001
  45                   JUNCTION      0.00   294.18     0  00:45           0
4.33      -0.001
  46                   JUNCTION      0.00   296.68     0  00:45           0
4.33      -0.001
  47                   JUNCTION      0.00   298.18     0  00:45           0
4.33      -0.000
  48                   JUNCTION      6.17     6.17     0  00:45      0.0504
```

0.0504 -0.001
49 JUNCTION 199.41 199.41 0 00:45 2.05
2.05 -0.000
59 JUNCTION 0.00 295.50 0 00:45 0
4.33 0.001
61 JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
62 JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
63 JUNCTION 0.00 0.06 0 00:52 0
0.000485 0.004
64 JUNCTION 0.00 0.22 0 02:05 0
0.163 -0.000
F18 JUNCTION 15.08 15.08 0 00:45 0.12
0.12 0.075
F8 JUNCTION 3.60 3.60 0 00:45 0.0239
0.0239 0.084
pnd_4_Outlet JUNCTION 0.00 22.63 0 01:03 0
0.662 -0.025
POND_3FUT JUNCTION 0.00 0.00 0 00:00 0
0 0.000 gal
POND_5_OUT JUNCTION 0.00 8.37 0 00:49 0
0.12 -0.008
CNTY_LN_RD JUNCTION 0.00 270.92 0 00:50 0
5.5 -0.000
SITE_OUTFALL OUTFALL 0.00 270.93 0 00:50 0
5.5 0.000
RD_OVERTOP OUTFALL 0.00 0.00 0 00:00 0
0 0.000 gal
EX-WETLAND STORAGE 24.79 321.57 0 00:45 0.228
5.5 0.008
POND_4B STORAGE 2.79 39.22 0 00:46 0.0353
0.656 -0.909
POND_4A STORAGE 0.00 64.93 0 00:45 0
0.601 0.759
POND_5 STORAGE 0.00 15.05 0 00:45 0
0.12 -0.181
POND_2 STORAGE 11.29 18.78 0 00:45 0.0988
0.163 -0.029
POND_1B STORAGE 35.81 54.59 0 00:45 0.354
0.613 0.000
POND_1A STORAGE 21.41 21.41 0 00:45 0.259
0.259 -0.001
BALD_MTN_DETENTION STORAGE 162.20 162.63 0 00:45 1.67
2.28 -0.000

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Node Surcharge Summary
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No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
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Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	0.871	0.3	0.0	0.0	49.147	17.6	0 00:50	270.92
POND_4B	10.043	23.1	0.0	0.0	35.141	80.8	0 01:03	22.63
POND_4A	2.170	3.8	0.0	0.0	21.155	37.1	0 00:57	33.36
POND_5	2.269	23.0	0.0	0.0	8.332	84.4	0 00:49	8.37
POND_2	6.335	10.2	0.0	0.0	20.673	33.4	0 02:05	0.22
POND_1B	14.678	12.5	0.0	0.0	66.758	56.7	0 01:17	10.18
POND_1A	0.013	0.0	0.0	0.0	0.842	3.2	0 00:46	20.87
BALD_MTN_DETENTION	0.538	0.0	0.0	0.0	26.661	2.0	0 00:48	120.99

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	86.71	6.45	270.93	5.503
RD_OVERTOP	0.00	0.00	0.00	0.000
System	43.36	6.45	270.93	5.503

****
Link Flow Summary
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Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	20.87	0	00:46	11.39	0.34	0.40
29	CONDUIT	298.34	0	00:45	13.57	0.72	0.63
53	CONDUIT	3.59	0	00:45	7.81	0.13	0.62
54	CONDUIT	8.37	0	00:49	12.63	0.34	0.40
BLD_MTN_OF	CONDUIT	120.99	0	00:48	37.76	0.44	0.46
C1	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	10.16	0	01:17	9.97	0.04	0.14
L1	CONDUIT	35.03	0	00:57	9.21	0.17	0.58
L10	CONDUIT	25.78	0	00:45	9.44	0.58	0.55
L11	CONDUIT	0.00	0	00:00	0.00	0.00	0.22
L12	CONDUIT	39.16	0	00:45	11.27	0.49	0.50
L13	CONDUIT	39.01	0	00:45	12.69	0.67	0.60
L14	CONDUIT	0.03	0	00:45	0.13	0.00	0.42
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.25
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	22.63	0	01:03	7.84	0.38	0.43
L20	CONDUIT	15.05	0	00:45	9.75	0.76	0.92
L22	CONDUIT	298.18	0	00:45	12.48	0.80	0.68
L23	CONDUIT	296.68	0	00:45	16.72	0.55	0.53
L24	CONDUIT	295.50	0	00:45	12.45	0.80	0.68
L25	CONDUIT	199.76	0	00:45	17.42	0.81	0.68
L26	CONDUIT	121.21	0	00:49	13.94	0.76	0.65
L27	CONDUIT	121.13	0	00:49	14.15	0.75	0.64
L28	CONDUIT	121.04	0	00:48	12.59	0.86	0.72
L29	CONDUIT	120.99	0	00:48	17.12	2.74	1.00
L3	CONDUIT	0.22	0	02:08	2.50	0.00	0.16
L30	CONDUIT	7.84	0	00:45	9.26	0.04	0.14
L31	CONDUIT	7.83	0	00:45	8.82	0.05	0.15
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00

L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	7.95	0	00:45	9.03	0.07	0.18
L35	CONDUIT	6.18	0	00:45	10.22	0.30	0.38
L4	CONDUIT	0.22	0	02:07	1.89	0.00	0.05
L44	CONDUIT	10.16	0	01:17	5.46	0.64	0.57
L45	CONDUIT	0.06	0	00:52	0.25	0.01	1.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.06
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	7.85	0	00:45	8.57	0.05	0.15
L6	CONDUIT	0.22	0	02:06	2.15	0.00	0.04
L7	CONDUIT	0.22	0	02:05	2.20	0.00	0.04
L9	CONDUIT	33.36	0	00:46	7.25	1.13	1.00
58	CONDUIT	270.93	0	00:50	5.81	0.08	0.22
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:49			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:49			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:49			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:49			1.00
PND_4B_OF_1	ORIFICE	0.18	0	01:18			1.00
PND_4B_OF_2	ORIFICE	0.07	0	01:03			1.00
PND_4B_OF_3	ORIFICE	0.06	0	01:03			1.00
PND_4B_OF_4	ORIFICE	0.05	0	01:03			1.00
PND_4B_OF_5	ORIFICE	0.05	0	01:03			1.00
PND_4B_GRATE	ORIFICE	22.23	0	01:03			
PND_5_GRATE	ORIFICE	8.29	0	00:49			
PND_2_OF_1	ORIFICE	0.17	0	02:05			1.00
PND_2_OF_2	ORIFICE	0.05	0	02:05			1.00
PND_2_OF_3	ORIFICE	0.00	0	00:00			0.00
PND_2_GRATE	ORIFICE	0.00	0	00:00			
PND_1_OF_1	ORIFICE	0.07	0	01:08			1.00
PND_1_OF_2	ORIFICE	0.05	0	01:23			1.00
PND_1_OF_3	ORIFICE	0.05	0	01:23			1.00
PND_1_OF_4	ORIFICE	0.03	0	01:17			1.00
PND_1_OF_5	ORIFICE	0.03	0	01:17			1.00
PND_1_OF_6	ORIFICE	0.35	0	01:17			1.00
PND_1_OF_7	ORIFICE	0.35	0	01:17			1.00
PND_1_GRATE	ORIFICE	9.20	0	01:17			
CNTY_LN_RD_CULV_1_EX	ORIFICE	86.70	0	00:50			0.96
CNTY_LN_RD_CULV_2	ORIFICE	86.70	0	00:50			0.96
CNTY_LN_RD_CULV_3	ORIFICE	97.53	0	00:50			0.85
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

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Flow Classification Summary
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-
                      Adjusted    ---------- Fraction of Time in Flow Class
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                       /Actual         Up    Down  Sub   Sup   Up    Down  Norm
Inlet
  Conduit               Length    Dry  Dry   Dry   Crit  Crit  Crit  Crit  Ltd
Ctrl

-------------------------------------------------------------------------------
-
  26                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  29                     1.00   0.23  0.00  0.00  0.00  0.00  0.00  0.77  0.00
0.00
  53                     1.00   0.00  0.14  0.00  0.02  0.00  0.00  0.84  1.00
0.00
  54                     1.00   0.03  0.00  0.00  0.00  0.00  0.00  0.97  0.00
0.00
  BLD_MTN_OF             1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  C1                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  EX_MISTY_AC_BLVD_PIPE    1.00   0.28  0.00  0.00  0.00  0.00  0.00  0.72  0.00
0.00
  L1                     1.00   0.02  0.00  0.00  0.00  0.00  0.00  0.98  0.00
0.00
  L10                    1.00   0.00  0.00  0.00  0.03  0.00  0.00  0.97  0.03
0.00
  L11                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L12                    1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L13                    1.00   0.01  0.00  0.00  0.00  0.00  0.00  0.99  0.00
0.00
  L14                    1.00   0.99  0.00  0.00  0.00  0.00  0.00  0.00  1.00
0.00
  L15                    1.00   0.99  0.01  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L16                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L17                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L18                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L2                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L20                    1.00   0.00  0.04  0.00  0.09  0.00  0.00  0.87  0.11
0.00
  L22                    1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
```

L23	1.00	0.32	0.00	0.00	0.00	0.00	0.00	0.68	0.00
0.00									
L24	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L25	1.00	0.12	0.00	0.00	0.00	0.00	0.00	0.88	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L28	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00
0.00									
L29	1.00	0.00	0.46	0.00	0.00	0.00	0.54	0.00	0.00
0.00									
L3	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L30	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.97	0.03
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.05	0.00	0.00	0.00	0.95
0.00									
L46	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.09
0.00									
58	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00									

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
53	0.01	0.01	19.90	0.01	0.01
L20	0.01	0.01	11.36	0.01	0.01
L29	0.19	0.19	0.43	0.52	0.01
L45	3.46	3.46	7.19	0.01	0.01
L9	0.50	0.51	13.93	0.07	0.02

Analysis begun on: Sat May 9 08:53:33 2026
Analysis ended on: Sat May 9 08:53:39 2026
Total elapsed time: 00:00:06

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - Q5

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	30.938	1.679
Evaporation Loss	0.000	0.000
Infiltration Loss	18.063	0.980
Surface Runoff	12.814	0.695
Final Storage	0.211	0.011
Continuity Error (%)	-0.486	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	12.814	4.176
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	12.816	4.176
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.023	

****
Highest Continuity Errors
****
Node POND_4B (-1.17%)
Node POND_4A (1.01%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (82.85%)
Link 58 (17.06%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	3.89 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	

```
    30.000 - 13.228 sec      :     9.55 %
    13.228 -  5.833 sec      :     7.59 %
     5.833 -  2.572 sec      :    18.78 %
     2.572 -  1.134 sec      :    42.35 %
     1.134 -  0.500 sec      :    21.73 %


  **************************
  Subcatchment Runoff Summary
  **************************


-------------------------------------------------------------------------------------------
-----------------------------------------
                             Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                          Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                in         in         in         in         in
 in         in    10^6 gal      CFS

-------------------------------------------------------------------------------------------
-----------------------------------------
  AA                         1.68       0.00       0.00       1.40       0.05
0.24       0.28        0.12     8.84   0.169
  BB                         1.68       0.00       0.00       1.35       0.00
0.34       0.34        0.02     2.66   0.200
  CC                         1.68       0.00       0.00       0.00       1.65
0.00       1.65        0.05     5.33   0.985
  DD                         1.68       0.00       0.00       1.26       0.22
0.21       0.42        0.15    13.48   0.252
  EE                         1.68       0.00       0.00       0.89       0.54
0.25       0.79        0.04     4.66   0.468
  FF                         1.68       0.00       0.00       1.28       0.00
0.41       0.41        0.01     1.16   0.243
  GG                         1.68       0.00       0.00       1.16       0.18
0.34       0.52        0.07     8.02   0.311
  HH                         1.68       0.00       0.00       0.96       0.44
0.28       0.72        0.17    19.67   0.432
  II                         1.68       0.00       0.00       0.95       0.42
0.31       0.74        0.02     2.66   0.439
  JJ                         1.68       0.00       0.00       0.97       0.27
0.45       0.72        0.13    13.34   0.426
  MD2                        1.68       0.00       0.00       0.76       0.76
0.15       0.91        0.30    31.41   0.543
  MD5                        1.68       0.00       0.00       1.09       0.20
0.40       0.60        0.03     2.05   0.355
  ME                         1.68       0.00       0.00       0.56       0.80
0.32       1.12        0.10    12.09   0.666
  MO2                        1.68       0.00       0.00       0.36       1.17
```

0.14	1.30	0.02	2.45	0.776				
MO3			1.68	0.00	0.00	0.52	0.97	
0.18	1.16	0.04	5.74	0.689				
MO4			1.68	0.00	0.00	0.39	1.14	
0.14	1.28	0.03	3.28	0.760				
MO5			1.68	0.00	0.00	0.88	0.65	
0.14	0.79	1.29	128.75	0.471				
MO6			1.68	0.00	0.00	1.09	0.00	
0.60	0.60	0.01	1.35	0.359				
MO7A			1.68	0.00	0.00	1.01	0.50	
0.16	0.66	1.17	117.34	0.393				
MO7B			1.68	0.00	0.00	0.92	0.56	
0.19	0.75	0.38	40.15	0.448				
MO8			1.68	0.00	0.00	0.54	0.96	
0.18	1.13	0.04	5.39	0.675				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.47	7298.83	0	00:45	0.47
2	JUNCTION	0.01	0.46	7297.78	0	00:45	0.45
3	JUNCTION	0.01	0.45	7287.02	0	00:45	0.43
4	JUNCTION	0.00	0.00	7305.11	0	00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0	00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0	00:00	0.00
23	JUNCTION	0.13	0.31	7305.94	0	01:40	0.31
24	JUNCTION	0.07	0.17	7305.32	0	01:41	0.17
27	JUNCTION	0.00	0.00	7267.94	0	00:00	0.00
28	JUNCTION	0.02	1.17	7267.55	0	00:45	1.17
29	JUNCTION	0.03	1.31	7267.87	0	00:45	1.31
30	JUNCTION	0.03	1.31	7268.89	0	00:45	1.31
31	JUNCTION	0.00	0.00	7272.09	0	00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0	00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	0.65	7268.89	0	00:45	0.65
36	JUNCTION	0.05	0.11	7270.41	0	02:07	0.11
37	JUNCTION	0.06	0.12	7266.90	0	02:09	0.12
38	JUNCTION	0.05	0.10	7263.13	0	02:10	0.10
39	JUNCTION	0.10	1.26	7260.30	0	00:49	1.26
40	JUNCTION	0.01	0.43	7277.19	0	00:45	0.42
41	JUNCTION	0.45	4.44	7288.84	0	00:47	4.33
42	JUNCTION	0.15	2.52	7286.15	0	00:47	2.45

43	JUNCTION	0.13	2.29	7284.11	0	00:48	2.25
44	JUNCTION	0.14	2.32	7278.81	0	00:48	2.30
45	JUNCTION	0.18	3.84	7271.78	0	00:45	3.79
46	JUNCTION	0.18	3.85	7267.84	0	00:45	3.68
47	JUNCTION	0.17	3.58	7266.55	0	00:45	3.40
48	JUNCTION	0.01	0.49	7301.22	0	00:45	0.49
49	JUNCTION	0.06	2.62	7273.12	0	00:45	2.62
59	JUNCTION	0.15	3.05	7269.21	0	00:45	2.97
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.08	0.94	7309.90	0	01:40	0.94
64	JUNCTION	0.05	0.11	7271.27	0	02:06	0.11
F18	JUNCTION	0.09	0.93	7273.63	0	00:46	0.90
F8	JUNCTION	0.01	0.32	7268.96	0	00:45	0.31
pnd_4_Outlet	JUNCTION	0.11	0.98	7261.31	0	01:05	0.98
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.04	0.45	7267.28	0	00:53	0.43
CNTY_LN_RD	JUNCTION	0.21	2.00	7256.51	0	00:49	2.00
SITE_OUTFALL	OUTFALL	0.18	1.97	7256.48	0	00:49	1.97
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.12	3.32	7260.30	0	00:49	3.32
POND_4B	STORAGE	1.93	5.05	7266.38	0	01:05	5.05
POND_4A	STORAGE	0.42	2.40	7266.66	0	00:59	2.40
POND_5	STORAGE	1.55	4.23	7273.56	0	00:53	4.22
POND_2	STORAGE	0.40	1.33	7274.66	0	02:06	1.33
POND_1B	STORAGE	1.07	3.56	7309.89	0	01:40	3.56
POND_1A	STORAGE	0.02	0.79	7316.79	0	00:46	0.76
BALD_MTN_DETENTION	STORAGE	0.08	1.26	7292.26	0	00:47	1.23

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	1.16	5.82	0 00:45	0.00885	0.0474	0.000

```
  2                   JUNCTION      0.00     5.84     0  00:45           0
0.0474      -0.003
  3                   JUNCTION      0.00     5.75     0  00:45           0
0.0474      -0.002
  4                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  5                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  6                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                  JUNCTION      0.00     0.85     0  01:40           0
0.421       -0.000
  24                  JUNCTION      0.00     0.85     0  01:41           0
0.421       -0.000
  27                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  28                  JUNCTION     19.67    19.67     0  00:45       0.168
0.168        0.209
  29                  JUNCTION      0.00    31.32     0  00:45           0
0.301        0.029
  30                  JUNCTION     31.41    31.41     0  00:45       0.301
0.301       -0.001
  31                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                  JUNCTION      0.00     0.03     0  00:40           0
6.14e-05        0.098
  36                  JUNCTION      0.00     0.17     0  02:06           0
0.117        0.000
  37                  JUNCTION      0.00     0.17     0  02:08           0
0.117       -0.000
  38                  JUNCTION      0.00     0.17     0  02:09           0
0.117       -0.013
  39                  JUNCTION      0.00    13.87     0  01:05           0
0.631       -0.032
  40                  JUNCTION      0.00     5.73     0  00:45           0
0.0474       -0.001
  41                  JUNCTION      0.00   101.24     0  00:47           0
1.72        0.003
  42                  JUNCTION      0.00   101.25     0  00:47           0
1.72       -0.001
  43                  JUNCTION      0.00   101.30     0  00:48           0
1.72       -0.001
  44                  JUNCTION      0.00   101.41     0  00:48           0
1.72       -0.002
```

```
  45                JUNCTION      0.00   238.35     0  00:45           0
3.27      -0.002
  46                JUNCTION      0.00   240.90     0  00:45           0
3.27      -0.001
  47                JUNCTION      0.00   242.61     0  00:46           0
3.27      -0.000
  48                JUNCTION      4.66     4.66     0  00:45      0.0386
0.0386      -0.001
  49                JUNCTION    157.50   157.50     0  00:45        1.55
1.55      -0.000
  59                JUNCTION      0.00   239.81     0  00:45           0
3.27      -0.001
  61                JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                JUNCTION      0.00     0.03     0  00:58           0
0.000349       0.004
  64                JUNCTION      0.00     0.17     0  02:06           0
0.117      -0.000
  F18               JUNCTION     12.09    12.09     0  00:45      0.0975
0.0975       0.104
  F8                JUNCTION      2.66     2.66     0  00:45       0.018
0.018       0.161
  pnd_4_Outlet      JUNCTION      0.00    13.73     0  01:05           0
0.514      -0.003
  POND_3FUT         JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  POND_5_OUT        JUNCTION      0.00     4.77     0  00:53           0
0.0976      -0.010
  CNTY_LN_RD        JUNCTION      0.00   218.78     0  00:49           0
4.18      -0.000
  SITE_OUTFALL      OUTFALL       0.00   218.78     0  00:49           0
4.18       0.000
  RD_OVERTOP        OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND        STORAGE      18.73   260.24     0  00:46       0.174
4.18       0.009
  POND_4B           STORAGE       2.05    35.31     0  00:47      0.0255
0.508      -1.159
  POND_4A           STORAGE       0.00    51.10     0  00:45           0
0.469       1.020
  POND_5            STORAGE       0.00    12.07     0  00:45           0
0.0974      -0.197
  POND_2            STORAGE       8.02    13.48     0  00:45      0.0694
0.117       0.000
  POND_1B           STORAGE      27.82    40.03     0  00:45       0.261
0.421       0.000
  POND_1A           STORAGE      13.94    13.94     0  00:45        0.16
0.16      -0.001
```

```
  BALD_MTN_DETENTION   STORAGE     130.10   130.44     0  00:45         1.3
1.72      -0.000


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


-------------------------------------------------------------------------------
------------
                          Average    Avg   Evap  Exfil     Maximum    Max    Time of
Max    Maximum
                           Volume   Pcnt   Pcnt   Pcnt      Volume   Pcnt
Occurrence    Outflow
  Storage Unit          1000 ft    Full   Loss   Loss    1000 ft    Full    days
hr:min        CFS

-------------------------------------------------------------------------------
------------
  EX-WETLAND               0.640    0.2    0.0    0.0      36.088   12.9       0
00:49     218.78
  POND_4B                  9.973   22.9    0.0    0.0      33.099   76.1       0
01:05      13.73
  POND_4A                  2.071    3.6    0.0    0.0      14.017   24.6       0
00:59      31.52
  POND_5                   2.265   23.0    0.0    0.0       7.971   80.8       0
00:53       4.77
  POND_2                   4.368    7.1    0.0    0.0      14.765   23.9       0
02:06       0.17
  POND_1B                 12.183   10.4    0.0    0.0      52.016   44.2       0
01:40       0.87
  POND_1A                  0.009    0.0    0.0    0.0       0.547    2.1       0
00:46      13.51
  BALD_MTN_DETENTION       0.423    0.0    0.0    0.0      20.003    1.5       0
00:47     101.24
```

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	85.49	5.04	218.78	4.176
RD_OVERTOP	0.00	0.00	0.00	0.000
System	42.74	5.04	218.78	4.176

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	13.51	0 00:46	10.10	0.22	0.32
29	CONDUIT	242.76	0 00:46	12.96	0.59	0.55
53	CONDUIT	2.64	0 00:45	8.45	0.10	0.59
54	CONDUIT	4.77	0 00:53	10.81	0.19	0.30
BLD_MTN_OF	CONDUIT	101.24	0 00:47	36.02	0.37	0.42
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.85	0 01:41	4.69	0.00	0.04
L1	CONDUIT	13.89	0 01:05	8.72	0.07	0.45
L10	CONDUIT	19.67	0 00:45	8.82	0.44	0.47
L11	CONDUIT	0.00	0 00:00	0.00	0.00	0.17
L12	CONDUIT	31.44	0 00:45	10.65	0.39	0.44
L13	CONDUIT	31.32	0 00:45	12.06	0.54	0.52
L14	CONDUIT	0.03	0 00:40	0.10	0.00	0.34
L15	CONDUIT	0.00	0 00:00	0.00	0.00	0.21
L16	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L2	CONDUIT	13.73	0 01:05	6.84	0.23	0.33
L20	CONDUIT	12.07	0 00:45	10.08	0.61	0.81
L22	CONDUIT	242.61	0 00:46	11.97	0.65	0.59
L23	CONDUIT	240.90	0 00:45	15.90	0.44	0.47
L24	CONDUIT	239.81	0 00:45	11.92	0.65	0.59
L25	CONDUIT	157.79	0 00:45	16.59	0.64	0.58
L26	CONDUIT	101.53	0 00:48	13.42	0.64	0.58

L27	CONDUIT	101.41	0	00:48	13.61	0.63	0.57
L28	CONDUIT	101.30	0	00:48	12.18	0.72	0.63
L29	CONDUIT	101.25	0	00:47	14.32	2.29	1.00
L3	CONDUIT	0.17	0	02:10	2.33	0.00	0.05
L30	CONDUIT	5.74	0	00:45	8.44	0.03	0.12
L31	CONDUIT	5.73	0	00:45	8.03	0.03	0.13
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	5.84	0	00:45	8.23	0.05	0.16
L35	CONDUIT	4.67	0	00:45	9.45	0.23	0.32
L4	CONDUIT	0.17	0	02:09	1.77	0.00	0.04
L44	CONDUIT	0.85	0	01:41	2.69	0.05	0.16
L45	CONDUIT	0.03	0	00:58	0.14	0.01	0.97
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	5.75	0	00:45	7.81	0.04	0.13
L6	CONDUIT	0.17	0	02:08	2.01	0.00	0.04
L7	CONDUIT	0.17	0	02:06	2.06	0.00	0.04
L9	CONDUIT	31.52	0	00:47	7.25	1.07	0.98
58	CONDUIT	218.78	0	00:49	5.56	0.07	0.20
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:53			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:53			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:53			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:53			1.00
PND_4B_OF_1	ORIFICE	0.18	0	01:05			1.00
PND_4B_OF_2	ORIFICE	0.07	0	01:05			1.00
PND_4B_OF_3	ORIFICE	0.06	0	01:05			1.00
PND_4B_OF_4	ORIFICE	0.05	0	01:05			1.00
PND_4B_OF_5	ORIFICE	0.04	0	01:05			1.00
PND_4B_GRATE	ORIFICE	13.33	0	01:05			
PND_5_GRATE	ORIFICE	4.69	0	00:53			
PND_2_OF_1	ORIFICE	0.14	0	02:06			1.00
PND_2_OF_2	ORIFICE	0.03	0	02:06			1.00
PND_2_OF_3	ORIFICE	0.00	0	00:00			0.00
PND_2_GRATE	ORIFICE	0.00	0	00:00			
PND_1_OF_1	ORIFICE	0.07	0	01:40			1.00
PND_1_OF_2	ORIFICE	0.05	0	01:40			1.00
PND_1_OF_3	ORIFICE	0.05	0	01:40			1.00
PND_1_OF_4	ORIFICE	0.03	0	01:40			1.00
PND_1_OF_5	ORIFICE	0.03	0	01:40			1.00
PND_1_OF_6	ORIFICE	0.31	0	01:40			1.00
PND_1_OF_7	ORIFICE	0.31	0	01:40			1.00
PND_1_GRATE	ORIFICE	0.00	0	00:00			
CNTY_LN_RD_CULV_1_EX	ORIFICE	70.01	0	00:49			0.83
CNTY_LN_RD_CULV_2	ORIFICE	70.01	0	00:49			0.83
CNTY_LN_RD_CULV_3	ORIFICE	78.76	0	00:49			0.74
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

```
  **************************
  Flow Classification Summary
  **************************


-------------------------------------------------------------------------------
-
                      Adjusted    ---------- Fraction of Time in Flow Class
----------
                       /Actual         Up    Down  Sub   Sup   Up    Down  Norm
Inlet
  Conduit               Length    Dry  Dry   Dry   Crit  Crit  Crit  Crit  Ltd
Ctrl

-------------------------------------------------------------------------------
-
  26                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  29                      1.00   0.24  0.00  0.00  0.00  0.00  0.00  0.76  0.00
0.00
  53                      1.00   0.00  0.14  0.00  0.02  0.00  0.00  0.84  1.00
0.00
  54                      1.00   0.03  0.00  0.00  0.00  0.00  0.00  0.97  0.00
0.00
  BLD_MTN_OF              1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  C1                      1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  EX_MISTY_AC_BLVD_PIPE    1.00   0.25  0.00  0.00  0.00  0.00  0.00  0.75  0.00
0.00
  L1                      1.00   0.04  0.00  0.00  0.00  0.00  0.00  0.96  0.00
0.00
  L10                     1.00   0.00  0.00  0.00  0.03  0.00  0.00  0.97  0.03
0.00
  L11                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L12                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L13                     1.00   0.02  0.00  0.00  0.00  0.00  0.00  0.98  0.00
0.00
  L14                     1.00   0.99  0.00  0.00  0.00  0.00  0.00  0.00  1.00
0.00
  L15                     1.00   0.99  0.01  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L16                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L17                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L18                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
```

0.00

L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L20	1.00	0.00	0.04	0.00	0.09	0.00	0.00	0.87	0.11
0.00									
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L23	1.00	0.30	0.00	0.00	0.00	0.00	0.00	0.70	0.00
0.00									
L24	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L25	1.00	0.13	0.00	0.00	0.00	0.00	0.00	0.87	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00
0.00									
L28	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00
0.00									
L29	1.00	0.00	0.49	0.00	0.00	0.00	0.51	0.00	0.00
0.00									
L3	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L30	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.95	0.02	0.00	0.03	0.00	0.00	0.00	0.96
0.00									
L46	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L53	1.00	0.60	0.00	0.00	0.00	0.00	0.00	0.40	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00

```
0.00
  L7                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L9                     1.00   0.00  0.00  0.00  0.19  0.00  0.00  0.81  0.09
0.00
  58                     1.00   0.00  0.00  0.00  1.00  0.00  0.00  0.00  0.00
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
53	0.01	0.01	19.82	0.01	0.01
L20	0.01	0.01	11.32	0.01	0.01
L29	0.07	0.07	0.32	0.37	0.01
L45	0.01	0.01	4.30	0.01	0.01
L9	0.01	0.01	13.87	0.06	0.01

Analysis begun on: Sat May 9 08:54:15 2026
Analysis ended on: Sat May 9 08:54:20 2026
Total elapsed time: 00:00:05

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - Q2

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	24.544	1.332
Evaporation Loss	0.000	0.000
Infiltration Loss	16.046	0.871
Surface Runoff	8.391	0.455
Final Storage	0.211	0.011
Continuity Error (%)	-0.424	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	8.391	2.734
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	8.391	2.734
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.015	

****
Highest Continuity Errors
****
Node POND_4A (1.25%)
Node POND_4B (-1.22%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (79.12%)
Link 58 (20.74%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.53 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	

```
     30.000 - 13.228 sec      :    12.51 %
     13.228 -  5.833 sec      :     8.37 %
      5.833 -  2.572 sec      :    21.87 %
      2.572 -  1.134 sec      :    47.07 %
      1.134 -  0.500 sec      :    10.19 %


  **************************
  Subcatchment Runoff Summary
  **************************


-------------------------------------------------------------------------------------------
-----------------------------------------
                            Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                         Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                 in         in         in         in         in
 in         in    10^6 gal      CFS

-------------------------------------------------------------------------------------------
-----------------------------------------
  AA                          1.33       0.00       0.00       1.24       0.04
0.06       0.10        0.04     3.78   0.072
  BB                          1.33       0.00       0.00       1.24       0.00
0.10       0.10        0.01     0.92   0.077
  CC                          1.33       0.00       0.00       0.00       1.30
0.00       1.30        0.04     4.20   0.979
  DD                          1.33       0.00       0.00       1.11       0.17
0.05       0.22        0.08     8.35   0.166
  EE                          1.33       0.00       0.00       0.82       0.42
0.08       0.51        0.02     2.97   0.379
  FF                          1.33       0.00       0.00       1.18       0.00
0.16       0.16        0.00     0.50   0.123
  GG                          1.33       0.00       0.00       1.06       0.14
0.13       0.27        0.04     4.45   0.205
  HH                          1.33       0.00       0.00       0.87       0.35
0.11       0.46        0.11    12.80   0.344
  II                          1.33       0.00       0.00       0.89       0.33
0.12       0.45        0.01     1.50   0.338
  JJ                          1.33       0.00       0.00       0.89       0.21
0.23       0.44        0.08     8.42   0.333
  MD2                         1.33       0.00       0.00       0.68       0.60
0.04       0.64        0.21    22.64   0.481
  MD5                         1.33       0.00       0.00       0.99       0.16
0.19       0.35        0.01     1.31   0.260
  ME                          1.33       0.00       0.00       0.52       0.63
0.18       0.81        0.07     8.60   0.607
  MO2                         1.33       0.00       0.00       0.34       0.92
```

0.07	0.98	0.01	1.81	0.739				
MO3			1.33	0.00	0.00	0.48	0.77	
0.07	0.84	0.03	3.97	0.632				
MO4			1.33	0.00	0.00	0.37	0.90	
0.06	0.95	0.02	2.36	0.716				
MO5			1.33	0.00	0.00	0.78	0.51	
0.03	0.55	0.89	93.07	0.411				
MO6			1.33	0.00	0.00	1.01	0.00	
0.33	0.33	0.01	0.73	0.250				
MO7A			1.33	0.00	0.00	0.89	0.40	
0.04	0.43	0.77	83.31	0.325				
MO7B			1.33	0.00	0.00	0.83	0.44	
0.05	0.49	0.25	27.76	0.371				
MO8			1.33	0.00	0.00	0.50	0.76	
0.07	0.82	0.03	3.76	0.617				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.37	7298.73	0 00:45	0.37
2	JUNCTION	0.01	0.36	7297.68	0 00:45	0.35
3	JUNCTION	0.01	0.35	7286.92	0 00:45	0.34
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
23	JUNCTION	0.09	0.26	7305.89	0 02:06	0.26
24	JUNCTION	0.05	0.14	7305.29	0 02:06	0.14
27	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
28	JUNCTION	0.02	0.92	7267.30	0 00:45	0.92
29	JUNCTION	0.03	1.10	7267.66	0 00:45	1.09
30	JUNCTION	0.03	1.09	7268.67	0 00:45	1.08
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0 00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0 00:00	0.00
35	JUNCTION	0.00	0.43	7268.67	0 00:45	0.42
36	JUNCTION	0.04	0.09	7270.39	0 02:09	0.09
37	JUNCTION	0.04	0.10	7266.88	0 02:12	0.10
38	JUNCTION	0.04	0.08	7263.11	0 02:13	0.08
39	JUNCTION	0.08	0.67	7259.71	0 00:48	0.62
40	JUNCTION	0.01	0.34	7277.10	0 00:45	0.32
41	JUNCTION	0.40	3.64	7288.04	0 00:47	3.48
42	JUNCTION	0.12	2.12	7285.75	0 00:47	2.00

43	JUNCTION	0.11	1.95	7283.77	0	00:47	1.87
44	JUNCTION	0.11	1.97	7278.46	0	00:47	1.91
45	JUNCTION	0.15	3.15	7271.09	0	00:45	3.11
46	JUNCTION	0.15	3.16	7267.15	0	00:45	3.03
47	JUNCTION	0.14	2.96	7265.93	0	00:46	2.81
48	JUNCTION	0.01	0.39	7301.12	0	00:45	0.39
49	JUNCTION	0.06	2.13	7272.63	0	00:45	2.12
59	JUNCTION	0.12	2.54	7268.70	0	00:45	2.47
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0	00:00	0.00
64	JUNCTION	0.04	0.09	7271.25	0	02:08	0.09
F18	JUNCTION	0.09	0.75	7273.45	0	01:04	0.73
F8	JUNCTION	0.01	0.24	7268.88	0	00:45	0.24
pnd_4_Outlet	JUNCTION	0.09	0.34	7260.67	0	01:30	0.34
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.03	0.23	7267.06	0	01:06	0.23
CNTY_LN_RD	JUNCTION	0.19	1.77	7256.28	0	00:49	1.77
SITE_OUTFALL	OUTFALL	0.16	1.75	7256.26	0	00:49	1.74
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.10	2.71	7259.69	0	00:49	2.70
POND_4B	STORAGE	1.88	4.71	7266.04	0	01:30	4.71
POND_4A	STORAGE	0.40	1.79	7266.05	0	01:27	1.79
POND_5	STORAGE	1.52	4.10	7273.43	0	01:06	4.10
POND_2	STORAGE	0.20	0.76	7274.09	0	02:08	0.76
POND_1B	STORAGE	0.68	2.20	7308.53	0	02:06	2.20
POND_1A	STORAGE	0.01	0.53	7316.53	0	00:45	0.52
BALD_MTN_DETENTION	STORAGE	0.06	1.09	7292.09	0	00:47	1.03

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.50	3.48	0 00:45	0.00357	0.0284	0.001

```
  2                   JUNCTION      0.00     3.48     0  00:45           0
0.0284      -0.003
  3                   JUNCTION      0.00     3.42     0  00:45           0
0.0284      -0.002
  4                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  5                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  6                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                  JUNCTION      0.00     0.59     0  02:06           0
0.224       -0.000
  24                  JUNCTION      0.00     0.59     0  02:06           0
0.224       -0.000
  27                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  28                  JUNCTION     12.80    12.80     0  00:45       0.106
0.106        0.066
  29                  JUNCTION      0.00    22.57     0  00:45           0
0.212        0.002
  30                  JUNCTION     22.64    22.64     0  00:45       0.212
0.212       -0.002
  31                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                  JUNCTION      0.00     0.02     0  00:40           0
4.01e-05        0.120
  36                  JUNCTION      0.00     0.10     0  02:08           0
0.0646        0.000
  37                  JUNCTION      0.00     0.10     0  02:09           0
0.0646       -0.000
  38                  JUNCTION      0.00     0.10     0  02:12           0
0.0646       -0.017
  39                  JUNCTION      0.00     1.69     0  01:30           0
0.409       -0.011
  40                  JUNCTION      0.00     3.39     0  00:45           0
0.0284       -0.001
  41                  JUNCTION      0.00    77.05     0  00:47           0
1.12        0.005
  42                  JUNCTION      0.00    77.06     0  00:47           0
1.12       -0.002
  43                  JUNCTION      0.00    77.12     0  00:47           0
1.12       -0.002
  44                  JUNCTION      0.00    77.21     0  00:47           0
1.12       -0.003
```

```
  45                 JUNCTION      0.00   172.00     0  00:45           0
2.14      -0.004
  46                 JUNCTION      0.00   174.10     0  00:45           0
2.14      -0.002
  47                 JUNCTION      0.00   175.55     0  00:46           0
2.14      -0.000
  48                 JUNCTION      2.97     2.97     0  00:45      0.0248
0.0248      -0.001
  49                 JUNCTION    111.07   111.07     0  00:45        1.02
1.02      -0.001
  59                 JUNCTION      0.00   173.35     0  00:45           0
2.14      -0.001
  61                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  64                 JUNCTION      0.00     0.10     0  02:08           0
0.0646      -0.000
  F18                JUNCTION      8.60     8.60     0  00:45      0.0705
0.0708       0.146
  F8                 JUNCTION      1.50     1.50     0  00:45       0.011
0.011       0.245
  pnd_4_Outlet       JUNCTION      0.00     1.58     0  01:30           0
0.344      -0.003
  POND_3FUT          JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  POND_5_OUT         JUNCTION      0.00     1.28     0  01:06           0
0.0706      -0.015
  CNTY_LN_RD         JUNCTION      0.00   161.56     0  00:49           0
2.73      -0.000
  SITE_OUTFALL       OUTFALL       0.00   161.57     0  00:49           0
2.73       0.000
  RD_OVERTOP         OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND         STORAGE      12.18   187.00     0  00:46       0.112
2.73       0.002
  POND_4B            STORAGE       1.31    26.43     0  00:48      0.0149
0.34      -1.204
  POND_4A            STORAGE       0.00    35.43     0  00:45           0
0.318       1.266
  POND_5             STORAGE       0.00     8.59     0  00:45           0
0.0707      -0.222
  POND_2             STORAGE       4.45     7.64     0  00:45      0.0363
0.0647       0.000
  POND_1B            STORAGE      18.88    24.59     0  00:45       0.163
0.224       0.001
  POND_1A            STORAGE       6.43     6.43     0  00:45      0.0607
0.0607      -0.001
```

```
  BALD_MTN_DETENTION   STORAGE      93.79    93.94     0  00:45         0.9
1.12      -0.000


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


-------------------------------------------------------------------------------
------------
                          Average    Avg   Evap  Exfil     Maximum    Max    Time of
Max    Maximum
                           Volume   Pcnt   Pcnt   Pcnt      Volume   Pcnt
Occurrence    Outflow
  Storage Unit          1000 ft    Full   Loss   Loss    1000 ft    Full    days
hr:min        CFS

-------------------------------------------------------------------------------
------------
  EX-WETLAND               0.443    0.2    0.0    0.0      23.599    8.5       0
00:49     161.56
  POND_4B                  9.644   22.2    0.0    0.0      29.291   67.3       0
01:30       1.58
  POND_4A                  1.943    3.4    0.0    0.0       9.435   16.6       0
01:27      24.39
  POND_5                   2.216   22.5    0.0    0.0       7.522   76.2       0
01:06       1.28
  POND_2                   2.169    3.5    0.0    0.0       8.102   13.1       0
02:08       0.10
  POND_1B                  6.258    5.3    0.0    0.0      26.896   22.9       0
02:06       0.59
  POND_1A                  0.004    0.0    0.0    0.0       0.264    1.0       0
00:45       6.13
  BALD_MTN_DETENTION       0.322    0.0    0.0    0.0      13.691    1.0       0
00:47      77.05
```

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	82.20	3.81	161.57	2.734
RD_OVERTOP	0.00	0.00	0.00	0.000
System	41.10	3.81	161.57	2.734

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	6.13	0 00:46	8.05	0.10	0.21
29	CONDUIT	175.69	0 00:46	11.96	0.42	0.46
53	CONDUIT	1.49	0 00:45	8.15	0.05	0.56
54	CONDUIT	1.28	0 01:06	7.37	0.05	0.15
BLD_MTN_OF	CONDUIT	77.05	0 00:47	33.46	0.28	0.36
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.59	0 02:06	4.20	0.00	0.04
L1	CONDUIT	1.69	0 01:31	4.86	0.01	0.30
L10	CONDUIT	12.79	0 00:45	7.86	0.29	0.37
L11	CONDUIT	0.00	0 00:00	0.00	0.00	0.11
L12	CONDUIT	22.66	0 00:45	9.75	0.28	0.37
L13	CONDUIT	22.57	0 00:45	11.09	0.39	0.43
L14	CONDUIT	0.02	0 00:45	0.08	0.00	0.25
L15	CONDUIT	0.00	0 00:00	0.00	0.00	0.17
L16	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L2	CONDUIT	1.58	0 01:30	3.63	0.03	0.11
L20	CONDUIT	8.59	0 00:45	10.21	0.44	0.75
L22	CONDUIT	175.55	0 00:46	11.08	0.47	0.48
L23	CONDUIT	174.10	0 00:45	14.58	0.32	0.39
L24	CONDUIT	173.35	0 00:45	11.02	0.47	0.48
L25	CONDUIT	111.26	0 00:45	15.25	0.45	0.47
L26	CONDUIT	77.32	0 00:48	12.57	0.49	0.49

L27	CONDUIT	77.21	0	00:47	12.75	0.48	0.49
L28	CONDUIT	77.12	0	00:47	11.45	0.55	0.53
L29	CONDUIT	77.06	0	00:47	11.07	1.74	0.96
L3	CONDUIT	0.10	0	02:13	1.99	0.00	0.03
L30	CONDUIT	3.39	0	00:45	7.22	0.02	0.10
L31	CONDUIT	3.39	0	00:45	6.89	0.02	0.10
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	3.48	0	00:45	7.07	0.03	0.12
L35	CONDUIT	2.97	0	00:45	8.31	0.14	0.26
L4	CONDUIT	0.10	0	02:12	1.66	0.00	0.03
L44	CONDUIT	0.59	0	02:06	2.42	0.04	0.13
L45	CONDUIT	0.00	0	00:00	0.00	0.00	0.06
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	3.42	0	00:45	6.70	0.02	0.10
L6	CONDUIT	0.10	0	02:09	1.80	0.00	0.03
L7	CONDUIT	0.10	0	02:08	1.84	0.00	0.03
L9	CONDUIT	24.39	0	00:48	6.84	0.82	0.86
58	CONDUIT	161.57	0	00:49	5.23	0.05	0.18
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	01:06			1.00
PND_5_OF_2	ORIFICE	0.02	0	01:06			1.00
PND_5_OF_3	ORIFICE	0.01	0	01:06			1.00
PND_5_OF_4	ORIFICE	0.01	0	01:06			1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:30			1.00
PND_4B_OF_2	ORIFICE	0.06	0	01:30			1.00
PND_4B_OF_3	ORIFICE	0.05	0	01:30			1.00
PND_4B_OF_4	ORIFICE	0.05	0	01:30			1.00
PND_4B_OF_5	ORIFICE	0.04	0	01:30			1.00
PND_4B_GRATE	ORIFICE	1.21	0	01:30			
PND_5_GRATE	ORIFICE	1.21	0	01:06			
PND_2_OF_1	ORIFICE	0.10	0	02:08			1.00
PND_2_OF_2	ORIFICE	0.00	0	00:00			0.00
PND_2_OF_3	ORIFICE	0.00	0	00:00			0.00
PND_2_GRATE	ORIFICE	0.00	0	00:00			
PND_1_OF_1	ORIFICE	0.05	0	02:06			1.00
PND_1_OF_2	ORIFICE	0.04	0	02:06			1.00
PND_1_OF_3	ORIFICE	0.04	0	02:06			1.00
PND_1_OF_4	ORIFICE	0.02	0	02:06			1.00
PND_1_OF_5	ORIFICE	0.02	0	02:06			1.00
PND_1_OF_6	ORIFICE	0.21	0	02:06			1.00
PND_1_OF_7	ORIFICE	0.21	0	02:06			1.00
PND_1_GRATE	ORIFICE	0.00	0	00:00			
CNTY_LN_RD_CULV_1_EX	ORIFICE	51.70	0	00:49			0.68
CNTY_LN_RD_CULV_2	ORIFICE	51.70	0	00:49			0.68
CNTY_LN_RD_CULV_3	ORIFICE	58.16	0	00:49			0.60
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.30	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00
53	1.00	0.00	0.14	0.00	0.02	0.00	0.00	0.84	1.00	0.00
54	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.20	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00
L1	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.03	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L12	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L13	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
L14	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L2 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L20 1.00 0.00 0.04 0.00 0.09 0.00 0.00 0.87 0.11
0.00
  L22 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L23 1.00 0.38 0.00 0.00 0.00 0.00 0.00 0.62 0.00
0.00
  L24 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L25 1.00 0.14 0.00 0.00 0.00 0.00 0.00 0.86 0.00
0.00
  L26 1.00 0.01 0.00 0.00 0.00 0.00 0.00 0.99 0.00
0.00
  L27 1.00 0.01 0.00 0.00 0.00 0.00 0.00 0.99 0.00
0.00
  L28 1.00 0.06 0.00 0.00 0.00 0.00 0.00 0.94 0.00
0.00
  L29 1.00 0.00 0.52 0.00 0.00 0.00 0.48 0.00 0.00
0.00
  L3 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L30 1.00 0.64 0.00 0.00 0.00 0.00 0.00 0.36 0.00
0.00
  L31 1.00 0.64 0.00 0.00 0.00 0.00 0.00 0.36 0.00
0.00
  L32 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L35 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L4 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L44 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L45 1.00 0.99 0.01 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L46 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L47 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L5 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L6 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00

```
0.00
  L7                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L9                     1.00   0.00  0.00  0.00  0.19  0.00  0.00  0.81  0.09
0.00
  58                     1.00   0.00  0.00  0.00  1.00  0.00  0.00  0.00  0.00
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
53	0.01	0.01	19.73	0.01	0.01
L20	0.01	0.01	11.25	0.01	0.01
L29	0.01	0.01	0.19	0.24	0.01
L9	0.01	0.01	13.73	0.01	0.01

Analysis begun on: Sat May 9 08:54:59 2026
Analysis ended on: Sat May 9 08:55:03 2026
Total elapsed time: 00:00:04

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - EURV

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	22.057	1.197
Evaporation Loss	0.000	0.000
Infiltration Loss	14.866	0.807
Surface Runoff	7.066	0.383
Final Storage	0.211	0.011
Continuity Error (%)	-0.389	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	7.065	2.302
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	7.066	2.303
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.017	

****
Highest Continuity Errors
****
Node POND_4A (1.27%)
Node POND_4B (-1.24%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (77.82%)
Link 58 (22.01%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.78 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	

```
     30.000 - 13.228 sec      :    13.55 %
     13.228 -  5.833 sec      :     8.62 %
      5.833 -  2.572 sec      :    23.07 %
      2.572 -  1.134 sec      :    45.72 %
      1.134 -  0.500 sec      :     9.04 %


  **************************
  Subcatchment Runoff Summary
  **************************


-------------------------------------------------------------------------------------------
-----------------------------------------
                            Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                         Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                 in         in         in         in         in
 in         in    10^6 gal      CFS

-------------------------------------------------------------------------------------------
-----------------------------------------
  AA                         1.20       0.00       0.00       1.14       0.03
0.02       0.06        0.02     2.73   0.046
  BB                         1.20       0.00       0.00       1.16       0.00
0.04       0.04        0.00     0.47   0.036
  CC                         1.20       0.00       0.00       0.00       1.17
0.00       1.17        0.03     3.77   0.977
  DD                         1.20       0.00       0.00       1.02       0.15
0.02       0.17        0.06     7.04   0.143
  EE                         1.20       0.00       0.00       0.77       0.38
0.04       0.42        0.02     2.51   0.348
  FF                         1.20       0.00       0.00       1.12       0.00
0.09       0.09        0.00     0.30   0.072
  GG                         1.20       0.00       0.00       1.00       0.13
0.07       0.19        0.03     3.30   0.162
  HH                         1.20       0.00       0.00       0.82       0.31
0.06       0.37        0.09    10.49   0.308
  II                         1.20       0.00       0.00       0.84       0.30
0.06       0.36        0.01     1.18   0.299
  JJ                         1.20       0.00       0.00       0.85       0.19
0.16       0.35        0.06     6.74   0.288
  MD2                        1.20       0.00       0.00       0.63       0.54
0.02       0.55        0.18    19.82   0.463
  MD5                        1.20       0.00       0.00       0.93       0.14
0.12       0.26        0.01     1.06   0.218
  ME                         1.20       0.00       0.00       0.50       0.57
0.13       0.69        0.06     7.32   0.578
  MO2                        1.20       0.00       0.00       0.32       0.82
```

0.04	0.86	0.01	1.56	0.722				
MO3			1.20	0.00	0.00	0.46	0.69	
0.04	0.73	0.03	3.39	0.608				
MO4			1.20	0.00	0.00	0.35	0.80	
0.03	0.83	0.02	2.05	0.697				
MO5			1.20	0.00	0.00	0.71	0.46	
0.01	0.47	0.77	81.49	0.395				
MO6			1.20	0.00	0.00	0.97	0.00	
0.23	0.23	0.00	0.51	0.195				
MO7A			1.20	0.00	0.00	0.82	0.35	
0.01	0.37	0.66	72.76	0.308				
MO7B			1.20	0.00	0.00	0.77	0.40	
0.02	0.42	0.21	24.09	0.348				
MO8			1.20	0.00	0.00	0.47	0.68	
0.03	0.71	0.03	3.24	0.593				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.33	7298.69	0 00:45	0.33
2	JUNCTION	0.01	0.32	7297.64	0 00:45	0.32
3	JUNCTION	0.01	0.31	7286.88	0 00:45	0.31
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
23	JUNCTION	0.08	0.24	7305.87	0 02:06	0.24
24	JUNCTION	0.04	0.13	7305.28	0 02:07	0.13
27	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
28	JUNCTION	0.02	0.83	7267.21	0 00:45	0.83
29	JUNCTION	0.03	1.02	7267.58	0 00:45	1.02
30	JUNCTION	0.03	1.01	7268.59	0 00:45	1.01
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0 00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0 00:00	0.00
35	JUNCTION	0.00	0.35	7268.59	0 00:45	0.35
36	JUNCTION	0.04	0.08	7270.38	0 02:10	0.08
37	JUNCTION	0.04	0.09	7266.87	0 02:12	0.09
38	JUNCTION	0.03	0.08	7263.11	0 02:13	0.08
39	JUNCTION	0.07	0.45	7259.49	0 00:49	0.43
40	JUNCTION	0.01	0.30	7277.06	0 00:45	0.29
41	JUNCTION	0.39	3.42	7287.82	0 00:46	3.28
42	JUNCTION	0.11	1.97	7285.60	0 00:47	1.85

43	JUNCTION	0.10	1.81	7283.63	0	00:47	1.72
44	JUNCTION	0.10	1.84	7278.33	0	00:47	1.77
45	JUNCTION	0.14	2.92	7270.86	0	00:45	2.87
46	JUNCTION	0.14	2.92	7266.91	0	00:45	2.80
47	JUNCTION	0.13	2.74	7265.71	0	00:46	2.60
48	JUNCTION	0.01	0.35	7301.08	0	00:45	0.35
49	JUNCTION	0.05	1.97	7272.47	0	00:45	1.96
59	JUNCTION	0.11	2.36	7268.52	0	00:45	2.30
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0	00:00	0.00
64	JUNCTION	0.03	0.08	7271.24	0	02:08	0.08
F18	JUNCTION	0.08	0.89	7273.59	0	01:13	0.80
F8	JUNCTION	0.01	0.21	7268.85	0	00:45	0.21
pnd_4_Outlet	JUNCTION	0.08	0.17	7260.50	0	02:13	0.17
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.03	0.10	7266.93	0	01:46	0.09
CNTY_LN_RD	JUNCTION	0.18	1.68	7256.19	0	00:49	1.68
SITE_OUTFALL	OUTFALL	0.15	1.66	7256.17	0	00:49	1.65
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.09	2.49	7259.47	0	00:49	2.47
POND_4B	STORAGE	1.75	4.49	7265.82	0	02:13	4.48
POND_4A	STORAGE	0.33	1.56	7265.82	0	00:48	1.55
POND_5	STORAGE	1.50	4.04	7273.37	0	01:46	4.04
POND_2	STORAGE	0.14	0.56	7273.89	0	02:08	0.56
POND_1B	STORAGE	0.59	1.82	7308.15	0	02:06	1.82
POND_1A	STORAGE	0.01	0.46	7316.46	0	00:45	0.45
BALD_MTN_DETENTION	STORAGE	0.06	1.02	7292.02	0	00:47	0.96

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.30	2.80	0 00:45	0.00188	0.0224	0.002

```
  2                   JUNCTION      0.00     2.81     0  00:45           0
0.0224      -0.004
  3                   JUNCTION      0.00     2.75     0  00:45           0
0.0224      -0.001
  4                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  5                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  6                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                  JUNCTION      0.00     0.49     0  02:06           0
0.174       -0.000
  24                  JUNCTION      0.00     0.49     0  02:06           0
0.174       -0.000
  27                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  28                  JUNCTION     10.49    10.49     0  00:45      0.0856
0.0856       0.021
  29                  JUNCTION      0.00    19.76     0  00:45           0
0.183        0.003
  30                  JUNCTION     19.82    19.82     0  00:45       0.183
0.183       -0.002
  31                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                  JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                  JUNCTION      0.00     0.02     0  00:40           0
3.43e-05       0.134
  36                  JUNCTION      0.00     0.09     0  02:08           0
0.0479       -0.000
  37                  JUNCTION      0.00     0.09     0  02:10           0
0.0479        0.002
  38                  JUNCTION      0.00     0.09     0  02:13           0
0.0479       -0.031
  39                  JUNCTION      0.00     0.44     0  02:13           0
0.337       -0.010
  40                  JUNCTION      0.00     2.72     0  00:45           0
0.0224       -0.001
  41                  JUNCTION      0.00    68.16     0  00:47           0
0.95        0.005
  42                  JUNCTION      0.00    68.17     0  00:47           0
0.95       -0.003
  43                  JUNCTION      0.00    68.25     0  00:47           0
0.95       -0.003
  44                  JUNCTION      0.00    68.35     0  00:47           0
0.95       -0.004
```

```
  45                 JUNCTION      0.00   150.10     0  00:45           0
1.82      -0.005
  46                 JUNCTION      0.00   151.85     0  00:45           0
1.82      -0.002
  47                 JUNCTION      0.00   153.15     0  00:46           0
1.82      -0.001
  48                 JUNCTION      2.51     2.51     0  00:45      0.0205
0.0205      -0.001
  49                 JUNCTION     96.85    96.85     0  00:45       0.865
0.865      -0.001
  59                 JUNCTION      0.00   151.18     0  00:45           0
1.82      -0.001
  61                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  64                 JUNCTION      0.00     0.09     0  02:08           0
0.0479      -0.002
  F18                JUNCTION      7.32     7.32     0  00:45      0.0603
0.0653       0.188
  F8                 JUNCTION      1.18     1.18     0  00:45     0.00873
0.00873       0.238
  pnd_4_Outlet       JUNCTION      0.00     0.36     0  02:13           0
0.289      -0.004
  POND_3FUT          JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  POND_5_OUT         JUNCTION      0.00     0.20     0  01:46           0
0.0603      -0.018
  CNTY_LN_RD         JUNCTION      0.00   141.89     0  00:49           0
2.3       -0.000
  SITE_OUTFALL       OUTFALL       0.00   141.89     0  00:49           0
2.3        0.000
  RD_OVERTOP         OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND         STORAGE       9.98   162.53     0  00:46      0.0901
2.3        0.002
  POND_4B            STORAGE       1.06    22.53     0  00:48      0.0112
0.288      -1.228
  POND_4A            STORAGE       0.00    30.29     0  00:45           0
0.272       1.290
  POND_5             STORAGE       0.00     7.31     0  00:45           0
0.0652      -0.250
  POND_2             STORAGE       3.30     5.85     0  00:45      0.0258
0.0481       0.000
  POND_1B            STORAGE      16.25    20.51     0  00:45       0.136
0.174       0.001
  POND_1A            STORAGE       4.76     4.76     0  00:45      0.0381
0.0381      -0.002
```

```
  BALD_MTN_DETENTION   STORAGE      82.00    82.10     0  00:45       0.777
0.95      -0.000


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


-------------------------------------------------------------------------------
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                          Average    Avg   Evap  Exfil     Maximum    Max    Time of
Max    Maximum
                           Volume   Pcnt   Pcnt   Pcnt      Volume   Pcnt
Occurrence    Outflow
  Storage Unit          1000 ft    Full   Loss   Loss    1000 ft    Full    days
hr:min        CFS

-------------------------------------------------------------------------------
------------
  EX-WETLAND               0.384    0.1    0.0    0.0      19.836    7.1       0
00:49     141.93
  POND_4B                  8.664   19.9    0.0    0.0      26.825   61.7       0
02:13       1.75
  POND_4A                  1.547    2.7    0.0    0.0       7.899   13.9       0
00:48      20.98
  POND_5                   2.173   22.0    0.0    0.0       7.293   73.9       0
01:46       1.18
  POND_2                   1.530    2.5    0.0    0.0       5.964    9.6       0
02:08       0.09
  POND_1B                  4.955    4.2    0.0    0.0      20.701   17.6       0
02:06       0.49
  POND_1A                  0.003    0.0    0.0    0.0       0.202    0.8       0
00:45       4.51
  BALD_MTN_DETENTION       0.290    0.0    0.0    0.0      11.939    0.9       0
00:47      68.16
```

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	80.82	3.39	141.89	2.302
RD_OVERTOP	0.00	0.00	0.00	0.000
System	40.41	3.39	141.89	2.302

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	4.51	0 00:45	7.36	0.07	0.18
29	CONDUIT	153.27	0 00:46	11.53	0.37	0.42
53	CONDUIT	1.17	0 00:45	7.71	0.04	0.54
54	CONDUIT	0.20	0 01:46	4.21	0.01	0.06
BLD_MTN_OF	CONDUIT	68.16	0 00:47	32.34	0.25	0.34
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.49	0 02:07	3.97	0.00	0.03
L1	CONDUIT	0.71	0 00:52	3.24	0.00	0.25
L10	CONDUIT	10.48	0 00:45	7.44	0.24	0.33
L11	CONDUIT	0.00	0 00:00	0.00	0.00	0.08
L12	CONDUIT	19.83	0 00:45	9.39	0.25	0.34
L13	CONDUIT	19.76	0 00:45	10.70	0.34	0.40
L14	CONDUIT	0.02	0 00:51	0.09	0.00	0.22
L15	CONDUIT	0.00	0 00:00	0.00	0.00	0.15
L16	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L2	CONDUIT	0.36	0 02:13	2.31	0.01	0.06
L20	CONDUIT	7.31	0 00:45	10.12	0.37	0.80
L22	CONDUIT	153.15	0 00:46	10.70	0.41	0.45
L23	CONDUIT	151.85	0 00:45	14.05	0.28	0.36
L24	CONDUIT	151.18	0 00:45	10.64	0.41	0.45
L25	CONDUIT	97.02	0 00:45	14.71	0.39	0.44
L26	CONDUIT	68.50	0 00:48	12.19	0.43	0.46

L27	CONDUIT	68.35	0	00:47	12.36	0.42	0.45
L28	CONDUIT	68.25	0	00:47	11.11	0.49	0.49
L29	CONDUIT	68.17	0	00:47	9.90	1.54	0.94
L3	CONDUIT	0.09	0	02:13	1.98	0.00	0.02
L30	CONDUIT	2.73	0	00:45	6.73	0.02	0.09
L31	CONDUIT	2.72	0	00:45	6.43	0.02	0.09
L32	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	2.81	0	00:45	6.59	0.03	0.11
L35	CONDUIT	2.51	0	00:45	7.91	0.12	0.24
L4	CONDUIT	0.09	0	02:13	1.66	0.00	0.03
L44	CONDUIT	0.49	0	02:06	2.29	0.03	0.12
L45	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	2.75	0	00:45	6.27	0.02	0.09
L6	CONDUIT	0.09	0	02:10	1.80	0.00	0.03
L7	CONDUIT	0.09	0	02:08	1.84	0.00	0.03
L9	CONDUIT	20.98	0	00:48	6.54	0.71	0.81
58	CONDUIT	141.89	0	00:49	5.09	0.04	0.17
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	01:46			1.00
PND_5_OF_2	ORIFICE	0.02	0	01:46			1.00
PND_5_OF_3	ORIFICE	0.01	0	01:46			1.00
PND_5_OF_4	ORIFICE	0.01	0	01:46			1.00
PND_4B_OF_1	ORIFICE	0.17	0	02:13			1.00
PND_4B_OF_2	ORIFICE	0.06	0	02:13			1.00
PND_4B_OF_3	ORIFICE	0.05	0	02:13			1.00
PND_4B_OF_4	ORIFICE	0.04	0	02:13			1.00
PND_4B_OF_5	ORIFICE	0.04	0	02:13			1.00
PND_4B_GRATE	ORIFICE	0.00	0	00:00			
PND_5_GRATE	ORIFICE	0.13	0	01:46			
PND_2_OF_1	ORIFICE	0.09	0	02:08			1.00
PND_2_OF_2	ORIFICE	0.00	0	00:00			0.00
PND_2_OF_3	ORIFICE	0.00	0	00:00			0.00
PND_2_GRATE	ORIFICE	0.00	0	00:00			
PND_1_OF_1	ORIFICE	0.05	0	02:06			1.00
PND_1_OF_2	ORIFICE	0.03	0	02:06			1.00
PND_1_OF_3	ORIFICE	0.03	0	02:06			1.00
PND_1_OF_4	ORIFICE	0.02	0	02:06			1.00
PND_1_OF_5	ORIFICE	0.02	0	02:06			1.00
PND_1_OF_6	ORIFICE	0.17	0	02:06			1.00
PND_1_OF_7	ORIFICE	0.17	0	02:06			1.00
PND_1_GRATE	ORIFICE	0.00	0	00:00			
CNTY_LN_RD_CULV_1_EX	ORIFICE	45.41	0	00:49			0.62
CNTY_LN_RD_CULV_2	ORIFICE	45.41	0	00:49			0.62
CNTY_LN_RD_CULV_3	ORIFICE	51.08	0	00:49			0.55
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.41	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00
53	1.00	0.00	0.13	0.00	0.02	0.00	0.00	0.85	1.00	0.00
54	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.30	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00
L1	1.00	0.10	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.99	0.01	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L12	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L13	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
L14	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00
  L2 1.00 0.01 0.00 0.00 0.00 0.00 0.00 0.99 0.00
0.00
  L20 1.00 0.00 0.04 0.00 0.09 0.00 0.00 0.87 0.11
0.00
  L22 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L23 1.00 0.38 0.00 0.00 0.00 0.00 0.00 0.62 0.00
0.00
  L24 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L25 1.00 0.15 0.00 0.00 0.00 0.00 0.00 0.85 0.00
0.00
  L26 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L27 1.00 0.04 0.00 0.00 0.00 0.00 0.00 0.96 0.00
0.00
  L28 1.00 0.06 0.00 0.00 0.00 0.00 0.00 0.94 0.00
0.00
  L29 1.00 0.00 0.51 0.00 0.00 0.00 0.49 0.00 0.00
0.00
  L3 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L30 1.00 0.66 0.00 0.00 0.00 0.00 0.00 0.34 0.00
0.00
  L31 1.00 0.66 0.00 0.00 0.00 0.00 0.00 0.34 0.00
0.00
  L32 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L33 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L34 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L35 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L4 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L44 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L45 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L46 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L47 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L5 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L53 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L6 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00

```
0.00
  L7                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L9                     1.00   0.00  0.00  0.00  0.18  0.00  0.00  0.82  0.09
0.00
  58                     1.00   0.00  0.00  0.00  1.00  0.00  0.00  0.00  0.00
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
53	0.01	0.01	17.27	0.01	0.01
L20	0.01	0.01	11.18	0.01	0.01
L29	0.01	0.01	0.15	0.19	0.01
L9	0.01	0.01	11.26	0.01	0.01

Analysis begun on: Sat May 9 08:55:41 2026
Analysis ended on: Sat May 9 08:55:46 2026
Total elapsed time: 00:00:05

MONUMENT RIDGE EAST F1-INTERIM/PH I CONDITIONS SWMM REPORT FILE - WQCV

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 04: minimum elevation drop used for Conduit 58
WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/26/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 30.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	8.863	0.481
Evaporation Loss	0.000	0.000
Infiltration Loss	6.156	0.334
Surface Runoff	2.518	0.137
Final Storage	0.211	0.011
Continuity Error (%)	-0.254	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	2.518	0.821
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	2.518	0.821
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.000
Continuity Error (%)	-0.035	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (70.32%)
Link 58 (29.31%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	6.02 sec
Maximum Time Step	:	30.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
30.000 - 13.228 sec	:	20.17 %
13.228 - 5.833 sec	:	9.51 %
5.833 - 2.572 sec	:	29.24 %
2.572 - 1.134 sec	:	33.81 %
1.134 - 0.500 sec	:	7.27 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
AA	0.48	0.00	0.00	0.47	0.01	0.00	0.01	0.01	0.66	0.027
BB	0.48	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.000
CC	0.48	0.00	0.00	0.00	0.45	0.00	0.45	0.01	1.42	0.931
DD	0.48	0.00	0.00	0.42	0.06	0.00	0.06	0.02	2.46	0.122
EE	0.48	0.00	0.00	0.32	0.15	0.00	0.15	0.01	0.87	0.303
FF	0.48	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.000
GG	0.48	0.00	0.00	0.43	0.05	0.00	0.05	0.01	0.80	0.100
HH	0.48	0.00	0.00	0.35	0.12	0.00	0.12	0.03	3.39	0.249
II	0.48	0.00	0.00	0.36	0.11	0.00	0.11	0.00	0.35	0.237
JJ	0.48	0.00	0.00	0.40	0.07	0.00	0.07	0.01	1.64	0.150
MD2	0.48	0.00	0.00	0.26	0.21	0.00	0.21	0.07	6.75	0.429
MD5	0.48	0.00	0.00	0.42	0.05	0.00	0.05	0.00	0.28	0.112
ME	0.48	0.00	0.00	0.25	0.22	0.00	0.22	0.02	2.25	0.451
MO2	0.48	0.00	0.00	0.14	0.32	0.00	0.32	0.00	0.54	0.655
MO3	0.48	0.00	0.00	0.20	0.26	0.00	0.26	0.01	1.19	0.549
MO4	0.48	0.00	0.00	0.15	0.31	0.00	0.31	0.01	0.74	0.642
MO5	0.48	0.00	0.00	0.29	0.18	0.00	0.18	0.29	27.25	0.366

```
  MO6                     0.48       0.00       0.00       0.48       0.00
0.00       0.00       0.00     0.00   0.000
  MO7A                    0.48       0.00       0.00       0.34       0.14
0.00       0.14       0.24    25.27   0.282
  MO7B                    0.48       0.00       0.00       0.32       0.15
0.00       0.15       0.08     8.56   0.315
  MO8                     0.48       0.00       0.00       0.20       0.26
0.00       0.26       0.01     1.16   0.540
```

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.19	7298.55	0 00:45	0.19
2	JUNCTION	0.01	0.18	7297.50	0 00:45	0.18
3	JUNCTION	0.01	0.18	7286.75	0 00:45	0.17
4	JUNCTION	0.00	0.00	7305.11	0 00:00	0.00
5	JUNCTION	0.00	0.00	7305.93	0 00:00	0.00
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
23	JUNCTION	0.05	0.11	7305.74	0 02:14	0.11
24	JUNCTION	0.03	0.06	7305.21	0 02:14	0.06
27	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
28	JUNCTION	0.01	0.47	7266.85	0 00:45	0.47
29	JUNCTION	0.02	0.59	7267.15	0 00:45	0.59
30	JUNCTION	0.02	0.58	7268.16	0 00:45	0.57
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0 00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0 00:00	0.00
35	JUNCTION	0.00	0.00	7268.24	0 00:00	0.00
36	JUNCTION	0.02	0.06	7270.36	0 02:12	0.06
37	JUNCTION	0.02	0.06	7266.84	0 02:17	0.06
38	JUNCTION	0.02	0.05	7263.08	0 02:19	0.05
39	JUNCTION	0.04	0.10	7259.14	0 02:34	0.10
40	JUNCTION	0.01	0.17	7276.93	0 00:45	0.17
41	JUNCTION	0.32	2.04	7286.44	0 00:47	1.98
42	JUNCTION	0.07	1.09	7284.72	0 00:47	1.06
43	JUNCTION	0.07	1.01	7282.83	0 00:48	1.00
44	JUNCTION	0.07	1.02	7277.51	0 00:48	1.02
45	JUNCTION	0.09	1.61	7269.55	0 00:45	1.58
46	JUNCTION	0.09	1.62	7265.61	0 00:46	1.53
47	JUNCTION	0.08	1.53	7264.50	0 00:46	1.45
48	JUNCTION	0.01	0.21	7300.94	0 00:45	0.21
49	JUNCTION	0.04	1.13	7271.63	0 00:45	1.13

59	JUNCTION	0.07	1.33	7267.49	0	00:45	1.28
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0	00:00	0.00
64	JUNCTION	0.02	0.06	7271.22	0	02:10	0.06
F18	JUNCTION	0.01	0.34	7273.04	0	00:45	0.34
F8	JUNCTION	0.00	0.12	7268.76	0	00:45	0.12
pnd_4_Outlet	JUNCTION	0.05	0.12	7260.45	0	02:42	0.12
POND_3FUT	JUNCTION	0.00	0.00	7268.72	0	00:00	0.00
POND_5_OUT	JUNCTION	0.02	0.04	7266.87	0	02:13	0.04
CNTY_LN_RD	JUNCTION	0.13	1.11	7255.62	0	00:49	1.11
SITE_OUTFALL	OUTFALL	0.10	1.08	7255.59	0	00:49	1.08
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.05	1.21	7258.19	0	00:49	1.21
POND_4B	STORAGE	0.71	2.64	7263.97	0	02:42	2.64
POND_4A	STORAGE	0.04	0.78	7265.04	0	00:49	0.78
POND_5	STORAGE	0.54	2.00	7271.33	0	02:13	2.00
POND_2	STORAGE	0.05	0.16	7273.49	0	02:09	0.16
POND_1B	STORAGE	0.32	0.90	7307.23	0	02:13	0.90
POND_1A	STORAGE	0.01	0.23	7316.23	0	00:45	0.23
BALD_MTN_DETENTION	STORAGE	0.04	0.58	7291.58	0	00:47	0.57

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Flow Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	0.87	0 00:45	0	0.00717	0.008
2	JUNCTION	0.00	0.87	0 00:45	0	0.00717	-0.011
3	JUNCTION	0.00	0.85	0 00:45	0	0.00717	0.004
4	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
5	JUNCTION	0.00	0.00	0 00:00	0		

```
 0       0.000 gal
  6                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                   JUNCTION      0.00     0.09     0  02:13           0
0.0585      -0.000
  24                   JUNCTION      0.00     0.09     0  02:14           0
0.0585      -0.001
  27                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  28                   JUNCTION      3.39     3.39     0  00:45      0.0278
0.0278      -0.004
  29                   JUNCTION      0.00     6.73     0  00:45           0
0.0681       0.010
  30                   JUNCTION      6.75     6.75     0  00:45      0.0681
0.0681      -0.006
  31                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  36                   JUNCTION      0.00     0.03     0  02:10           0
0.0135       0.012
  37                   JUNCTION      0.00     0.03     0  02:12           0
0.0135       0.043
  38                   JUNCTION      0.00     0.03     0  02:17           0
0.0134      -0.161
  39                   JUNCTION      0.00     0.21     0  02:33           0
0.115       -0.051
  40                   JUNCTION      0.00     0.84     0  00:45           0
0.00717      -0.004
  41                   JUNCTION      0.00    22.79     0  00:47           0
0.346        0.012
  42                   JUNCTION      0.00    22.80     0  00:47           0
0.346       -0.007
  43                   JUNCTION      0.00    22.82     0  00:48           0
0.346       -0.003
  44                   JUNCTION      0.00    22.81     0  00:48           0
0.346       -0.006
  45                   JUNCTION      0.00    49.33     0  00:45           0
0.664       -0.006
  46                   JUNCTION      0.00    49.81     0  00:46           0
0.664       -0.002
  47                   JUNCTION      0.00    50.25     0  00:46           0
0.664       -0.002
  48                   JUNCTION      0.87     0.87     0  00:45     0.00717
```

```
0.00717      -0.004
  49                   JUNCTION     33.84    33.84     0  00:45       0.318
0.318      -0.002
  59                   JUNCTION      0.00    49.67     0  00:46           0
0.664      -0.003
  61                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  64                   JUNCTION      0.00     0.03     0  02:09           0
0.0134      -0.071
  F18                  JUNCTION      2.25     2.25     0  00:45      0.0189
0.0189       0.026
  F8                   JUNCTION      0.35     0.35     0  00:45     0.00278
0.00278      -0.051
  pnd_4_Outlet         JUNCTION      0.00     0.18     0  02:42           0
0.101      -0.010
  POND_3FUT            JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  POND_5_OUT           JUNCTION      0.00     0.03     0  02:13           0
0.0189      -0.055
  CNTY_LN_RD           JUNCTION      0.00    48.48     0  00:49           0
0.821      -0.000
  SITE_OUTFALL         OUTFALL       0.00    48.49     0  00:49           0
0.821       0.000
  RD_OVERTOP           OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND           STORAGE       2.80    52.72     0  00:46       0.023
0.821       0.004
  POND_4B              STORAGE       0.28     6.57     0  00:49     0.00231
0.1      -0.853
  POND_4A              STORAGE       0.00    10.12     0  00:45           0
0.0959       0.838
  POND_5               STORAGE       0.00     2.24     0  00:45           0
0.0189      -0.036
  POND_2               STORAGE       0.80     1.58     0  00:45     0.00642
0.0136       0.002
  POND_1B              STORAGE       5.82     6.92     0  00:45      0.0488
0.0585       0.001
  POND_1A              STORAGE       1.21     1.21     0  00:45     0.00968
0.00968      -0.006
  BALD_MTN_DETENTION   STORAGE      27.25    27.30     0  00:45       0.288
0.346      -0.001


  **********************
  Node Surcharge Summary
  **********************
```

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	0.160	0.1	0.0	0.0	5.885	2.1	0 00:49	48.48
POND_4B	2.639	6.1	0.0	0.0	11.298	26.0	0 02:42	0.18
POND_4A	0.150	0.3	0.0	0.0	3.428	6.0	0 00:49	6.28
POND_5	0.566	5.7	0.0	0.0	2.323	23.5	0 02:13	0.03
POND_2	0.478	0.8	0.0	0.0	1.653	2.7	0 02:09	0.03
POND_1B	1.907	1.6	0.0	0.0	7.259	6.2	0 02:13	0.09
POND_1A	0.001	0.0	0.0	0.0	0.066	0.3	0 00:45	1.13
BALD_MTN_DETENTION	0.147	0.0	0.0	0.0	4.427	0.3	0 00:47	22.79

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	72.75	1.55	48.49	0.821
RD_OVERTOP	0.00	0.00	0.00	0.000
System	36.38	1.55	48.49	0.821

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	1.13	0 00:45	4.88	0.02	0.09
29	CONDUIT	50.30	0 00:46	8.44	0.12	0.24
53	CONDUIT	0.34	0 00:45	5.32	0.01	0.26
54	CONDUIT	0.03	0 02:13	2.39	0.00	0.03
BLD_MTN_OF	CONDUIT	22.79	0 00:47	23.60	0.08	0.19
C1	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.09	0 02:14	2.67	0.00	0.01
L1	CONDUIT	0.21	0 02:34	2.57	0.00	0.04
L10	CONDUIT	3.38	0 00:45	5.36	0.08	0.19
L11	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L12	CONDUIT	6.75	0 00:45	6.88	0.08	0.20
L13	CONDUIT	6.73	0 00:45	7.90	0.12	0.23
L14	CONDUIT	0.00	0 00:00	0.00	0.00	0.07
L15	CONDUIT	0.00	0 00:00	0.00	0.00	0.07
L16	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L2	CONDUIT	0.18	0 02:42	1.87	0.00	0.04
L20	CONDUIT	2.24	0 00:45	7.41	0.11	0.23
L22	CONDUIT	50.25	0 00:46	7.83	0.14	0.25
L23	CONDUIT	49.81	0 00:46	10.21	0.09	0.20
L24	CONDUIT	49.67	0 00:46	7.79	0.13	0.25
L25	CONDUIT	33.90	0 00:45	10.96	0.14	0.25
L26	CONDUIT	22.76	0 00:49	8.98	0.14	0.26
L27	CONDUIT	22.81	0 00:48	9.11	0.14	0.25
L28	CONDUIT	22.82	0 00:48	8.23	0.16	0.27
L29	CONDUIT	22.80	0 00:47	5.20	0.52	0.59
L3	CONDUIT	0.03	0 02:19	1.81	0.00	0.01
L30	CONDUIT	0.84	0 00:46	4.67	0.00	0.05
L31	CONDUIT	0.84	0 00:45	4.45	0.01	0.05
L32	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L34	CONDUIT	0.87	0	00:45	4.63	0.01	0.06
L35	CONDUIT	0.87	0	00:45	5.80	0.04	0.14
L4	CONDUIT	0.03	0	02:17	1.48	0.00	0.01
L44	CONDUIT	0.09	0	02:14	1.44	0.01	0.05
L45	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L53	CONDUIT	0.85	0	00:45	4.35	0.01	0.05
L6	CONDUIT	0.03	0	02:12	1.62	0.00	0.01
L7	CONDUIT	0.03	0	02:10	1.67	0.00	0.01
L9	CONDUIT	6.28	0	00:49	4.79	0.21	0.31
58	CONDUIT	48.49	0	00:49	4.06	0.01	0.11
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.02	0	02:13			1.00
PND_5_OF_2	ORIFICE	0.01	0	02:13			1.00
PND_5_OF_3	ORIFICE	0.00	0	00:00			0.00
PND_5_OF_4	ORIFICE	0.00	0	00:00			0.00
PND_4B_OF_1	ORIFICE	0.13	0	02:42			1.00
PND_4B_OF_2	ORIFICE	0.04	0	02:42			1.00
PND_4B_OF_3	ORIFICE	0.01	0	02:42			1.00
PND_4B_OF_4	ORIFICE	0.00	0	00:00			0.00
PND_4B_OF_5	ORIFICE	0.00	0	00:00			0.00
PND_4B_GRATE	ORIFICE	0.00	0	00:00			
PND_5_GRATE	ORIFICE	0.00	0	00:00			
PND_2_OF_1	ORIFICE	0.03	0	02:09			0.90
PND_2_OF_2	ORIFICE	0.00	0	00:00			0.00
PND_2_OF_3	ORIFICE	0.00	0	00:00			0.00
PND_2_GRATE	ORIFICE	0.00	0	00:00			
PND_1_OF_1	ORIFICE	0.03	0	02:13			1.00
PND_1_OF_2	ORIFICE	0.02	0	02:13			1.00
PND_1_OF_3	ORIFICE	0.02	0	02:13			1.00
PND_1_OF_4	ORIFICE	0.01	0	02:13			1.00
PND_1_OF_5	ORIFICE	0.01	0	02:13			1.00
PND_1_OF_6	ORIFICE	0.00	0	00:00			0.00
PND_1_OF_7	ORIFICE	0.00	0	00:00			0.00
PND_1_GRATE	ORIFICE	0.00	0	00:00			
CNTY_LN_RD_CULV_1_EX	ORIFICE	15.52	0	00:49			0.30
CNTY_LN_RD_CULV_2	ORIFICE	15.52	0	00:49			0.30
CNTY_LN_RD_CULV_3	ORIFICE	17.45	0	00:49			0.27
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

```
-
                      Adjusted    ---------- Fraction of Time in Flow Class
----------
                       /Actual         Up    Down  Sub   Sup   Up    Down  Norm
Inlet
  Conduit               Length    Dry  Dry   Dry   Crit  Crit  Crit  Crit  Ltd
Ctrl

-------------------------------------------------------------------------------
-
  26                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  29                     1.00   0.38  0.00  0.00  0.00  0.00  0.00  0.62  0.00
0.00
  53                     1.00   0.00  0.03  0.00  0.02  0.00  0.00  0.95  1.00
0.00
  54                     1.00   0.04  0.00  0.00  0.00  0.00  0.00  0.96  0.00
0.00
  BLD_MTN_OF             1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  C1                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  EX_MISTY_AC_BLVD_PIPE    1.00   0.23  0.00  0.00  0.00  0.00  0.00  0.77  0.00
0.00
  L1                     1.00   0.15  0.00  0.00  0.00  0.00  0.00  0.85  0.00
0.00
  L10                    1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L11                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L12                    1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L13                    1.00   0.03  0.00  0.00  0.00  0.00  0.00  0.97  0.00
0.00
  L14                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L15                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L16                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L17                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L18                    1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L2                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L20                    1.00   0.00  0.00  0.00  0.02  0.00  0.00  0.98  0.02
0.00
  L22                    1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
```

L23	1.00	0.45	0.00	0.00	0.00	0.00	0.00	0.55	0.00
0.00									
L24	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L25	1.00	0.18	0.00	0.00	0.00	0.00	0.00	0.82	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00
0.00									
L28	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00
0.00									
L29	1.00	0.00	0.57	0.00	0.00	0.00	0.43	0.00	0.00
0.00									
L3	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
0.00									
L30	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L4	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L46	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L53	1.00	0.71	0.00	0.00	0.00	0.00	0.00	0.29	0.00
0.00									
L6	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.08
0.00									
58	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
0.00									

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Sat May 9 08:56:21 2026
Analysis ended on: Sat May 9 08:56:24 2026
Total elapsed time: 00:00:03

100-Year; 99%; 120 Hours

Table - Node South_Detention Max Volume(CF)= 118898.2

Table - Node EX-WETLAND

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	38.1	0.03%
0	0:15:00	705.88	0.59%
0	0:20:00	2375.01	2.00%
0	0:25:00	4641.66	3.90%
0	0:30:00	7323.01	6.16%
0	0:35:00	11074.82	9.31%
0	0:40:00	22058.76	18.55%
0	0:45:00	60134.57	50.58%
0	0:50:00	106868	89.88%
0	0:55:00	118898.2	100.00%
0	1:00:00	114616.2	96.40%
0	1:05:00	101111	85.04%
0	1:10:00	85319.64	71.76%
0	1:15:00	66389.88	55.84%
0	1:20:00	45447.16	38.22%
0	1:25:00	29713.93	24.99%
0	1:30:00	19106.42	16.07%
0	1:35:00	13295.36	11.18%
0	1:40:00	9993.57	8.41%
0	1:45:00	7673.17	6.45%
0	1:50:00	5976.06	5.03%
0	1:55:00	4713.82	3.96%
0	2:00:00	3878.16	3.26%
0	2:05:00	3342.7	2.81%
0	2:10:00	2743.14	2.31%
0	2:15:00	1931.21	1.62%
0	2:20:00	1375.41	1.16%
0	2:25:00	1033.52	0.87%
0	2:30:00	811.39	0.68%

5-Year: 97%; 72 Hours

0 Max Volume(CF)= 36083.68

Table - Node EX-WETLAND

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	13.68	0.04%
0	0:15:00	206.5	0.57%
0	0:20:00	854.05	2.37%
0	0:25:00	2024.28	5.61%
0	0:30:00	3656.6	10.13%
0	0:35:00	5782.17	16.02%
0	0:40:00	10399.17	28.82%
0	0:45:00	24443.99	67.74%
0	0:50:00	36083.68	100.00%
0	0:55:00	30787.84	85.32%
0	1:00:00	22635.52	62.73%
0	1:05:00	16005.2	44.36%
0	1:10:00	12154.85	33.69%
0	1:15:00	9333.92	25.87%
0	1:20:00	6634.8	18.39%
0	1:25:00	4706.19	13.04%
0	1:30:00	3449.72	9.56%
0	1:35:00	2664.14	7.38%
0	1:40:00	2165.14	6.00%
0	1:45:00	1836.3	5.09%
0	1:50:00	1679.3	4.65%
0	1:55:00	1584.04	4.39%
0	2:00:00	1518.23	4.21%
0	2:05:00	1498.18	4.15%
0	2:10:00	1385.28	3.84%
0	2:15:00	1105.13	3.06%
0	2:20:00	867.17	2.40%
0	2:25:00	703.05	1.95%
0	2:30:00	587.22	1.63%

EURV 97% 72 Hours

Max Volume(CF)= 19547.59

Table - Node EX-WETLAND

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	8.7	0.04%
0	0:15:00	81.97	0.42%
0	0:20:00	400.99	2.05%
0	0:25:00	1057.52	5.41%
0	0:30:00	2180.73	11.16%
0	0:35:00	3712.51	18.99%
0	0:40:00	6739.46	34.48%
0	0:45:00	14505.57	74.21%
0	0:50:00	19547.59	100.00%
0	0:55:00	14057.64	71.91%
0	1:00:00	8894.73	45.50%
0	1:05:00	5849.38	29.92%
0	1:10:00	4279.06	21.89%
0	1:15:00	3204.12	16.39%
0	1:20:00	2312.73	11.83%
0	1:25:00	1778.02	9.10%
0	1:30:00	1483.8	7.59%
0	1:35:00	1322.97	6.77%
0	1:40:00	1213.31	6.21%
0	1:45:00	1138.82	5.83%
0	1:50:00	1086.78	5.56%
0	1:55:00	1038.86	5.31%
0	2:00:00	1014.92	5.19%
0	2:05:00	1003.41	5.13%
0	2:10:00	930.12	4.76%
0	2:15:00	765.7	3.92%
0	2:20:00	621.34	3.18%
0	2:25:00	515.37	2.64%
0	2:30:00	443.92	2.27%

100-Year; 99%; 120 Hours

Table - Node South_Detention Max Volume(CF)= 61548.16

Table - Node BALD_MTN_DETENTION

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	75.87	0.12%
0	0:15:00	972.55	1.58%
0	0:20:00	2484.56	4.04%
0	0:25:00	3975.57	6.46%
0	0:30:00	5751.76	9.35%
0	0:35:00	7983.64	12.97%
0	0:40:00	15283	24.83%
0	0:45:00	39798.16	64.66%
0	0:50:00	58332.26	94.77%
0	0:55:00	61548.16	100.00%
0	1:00:00	59195.5	96.18%
0	1:05:00	50382.9	81.86%
0	1:10:00	39241	63.76%
0	1:15:00	27617.18	44.87%
0	1:20:00	17372.11	28.23%
0	1:25:00	11057.38	17.97%
0	1:30:00	8204.95	13.33%
0	1:35:00	6610.22	10.74%
0	1:40:00	5411.48	8.79%
0	1:45:00	4518.62	7.34%
0	1:50:00	3820.02	6.21%
0	1:55:00	3256.58	5.29%
0	2:00:00	2833.52	4.60%
0	2:05:00	2546.27	4.14%
0	2:10:00	2039.92	3.31%
0	2:15:00	1509.91	2.45%
0	2:20:00	1162.82	1.89%
0	2:25:00	933.33	1.52%
0	2:30:00	774.71	1.26%
0	2:35:00	666.77	1.08%
0	2:40:00	591.97	0.96%
0	2:45:00	545.36	0.89%
0	2:50:00	514.81	0.84%
0	2:55:00	493.03	0.80%
0	3:00:00	476.67	0.77%
0	3:05:00	463.95	0.75%
0	3:10:00	453.82	0.74%

5-Year: 97%; 72 Hours

0 Max Volume(CF)= 18787.98

Table - Node BALD_MTN_DETENTION

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	34.38	0.18%
0	0:15:00	324.8	1.73%
0	0:20:00	1085.43	5.78%
0	0:25:00	2078.59	11.06%
0	0:30:00	3282.97	17.47%
0	0:35:00	4697.9	25.00%
0	0:40:00	8147.87	43.37%
0	0:45:00	16848.48	89.68%
0	0:50:00	18787.98	100.00%
0	0:55:00	13048.85	69.45%
0	1:00:00	8924.73	47.50%
0	1:05:00	6797.95	36.18%
0	1:10:00	5609.55	29.86%
0	1:15:00	4404.36	23.44%
0	1:20:00	3333.25	17.74%
0	1:25:00	2611.42	13.90%
0	1:30:00	2122.55	11.30%
0	1:35:00	1805.82	9.61%
0	1:40:00	1562.74	8.32%
0	1:45:00	1431.03	7.62%
0	1:50:00	1374.12	7.31%
0	1:55:00	1328.51	7.07%
0	2:00:00	1303.31	6.94%
0	2:05:00	1306.87	6.96%
0	2:10:00	1162.67	6.19%
0	2:15:00	953.61	5.08%
0	2:20:00	797.36	4.24%
0	2:25:00	692.35	3.69%
0	2:30:00	620.24	3.30%
0	2:35:00	566.83	3.02%
0	2:40:00	527.78	2.81%
0	2:45:00	498.94	2.66%
0	2:50:00	477.23	2.54%
0	2:55:00	460.55	2.45%
0	3:00:00	447.47	2.38%
0	3:05:00	437.01	2.33%
0	3:10:00	428.52	2.28%

EURV 97% 72 Hours

Max Volume(CF)= 10806.65

Table - Node BALD_MTN_DETENTION

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	20.14	0.19%
0	0:15:00	152.24	1.41%
0	0:20:00	564.38	5.22%
0	0:25:00	1246.09	11.53%
0	0:30:00	2182.34	20.19%
0	0:35:00	3280.11	30.35%
0	0:40:00	5682.03	52.58%
0	0:45:00	10806.65	100.00%
0	0:50:00	10622.4	98.30%
0	0:55:00	7321.95	67.75%
0	1:00:00	5037.91	46.62%
0	1:05:00	3747.77	34.68%
0	1:10:00	3024.5	27.99%
0	1:15:00	2371.8	21.95%
0	1:20:00	1851.18	17.13%
0	1:25:00	1537.12	14.22%
0	1:30:00	1358.12	12.57%
0	1:35:00	1242.22	11.49%
0	1:40:00	1154.52	10.68%
0	1:45:00	1101.96	10.20%
0	1:50:00	1056.96	9.78%
0	1:55:00	1023.84	9.47%
0	2:00:00	1007.35	9.32%
0	2:05:00	997.87	9.23%
0	2:10:00	894.66	8.28%
0	2:15:00	746.55	6.91%
0	2:20:00	633.55	5.86%
0	2:25:00	549.15	5.08%
0	2:30:00	487.93	4.52%
0	2:35:00	443.7	4.11%
0	2:40:00	411.21	3.81%
0	2:45:00	386.8	3.58%
0	2:50:00	367.81	3.40%
0	2:55:00	352	3.26%
0	3:00:00	338.86	3.14%
0	3:05:00	327.91	3.03%
0	3:10:00	318.72	2.95%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 1A (UPPER PORTION) Max Volume(CF)= 2091.26

Table - Node POND_1A

Elapsed Days	Elapsed Hours	Volume (ft^3)	
0	0:05:00	0	0.00%
0	0:10:00	7.03	0.34%
0	0:15:00	40.92	1.96%
0	0:20:00	50	2.39%
0	0:25:00	57.6	2.75%
0	0:30:00	75.62	3.62%
0	0:35:00	95.97	4.59%
0	0:40:00	440.8	21.08%
0	0:45:00	1972.96	94.34%
0	0:50:00	2091.26	100.00%
0	0:55:00	1672.64	79.98%
0	1:00:00	1259.95	60.25%
0	1:05:00	987.2	47.21%
0	1:10:00	795.49	38.04%
0	1:15:00	577.97	27.64%
0	1:20:00	426.88	20.41%
0	1:25:00	318.79	15.24%
0	1:30:00	243.05	11.62%
0	1:35:00	187.03	8.94%
0	1:40:00	137.69	6.58%
0	1:45:00	104.99	5.02%
0	1:50:00	76.65	3.67%
0	1:55:00	55.41	2.65%
0	2:00:00	38.92	1.86%
0	2:05:00	28.3	1.35%
0	2:10:00	12.92	0.62%
0	2:15:00	5.54	0.26%

5-Year: 97%; 72 Hours

0 Max Volume(CF)= 506.89

Table - Node POND_1A

Elapsed Days	Elapsed Hours	Volume (ft^3)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	4.45	0.88%
0	0:15:00	22.11	4.36%
0	0:20:00	32.83	6.48%
0	0:25:00	38.82	7.66%
0	0:30:00	50.57	9.98%
0	0:35:00	63.46	12.52%
0	0:40:00	115.43	22.77%
0	0:45:00	506.89	100.00%
0	0:50:00	505.78	99.78%
0	0:55:00	437.21	86.25%
0	1:00:00	354.01	69.84%
0	1:05:00	290.33	57.28%
0	1:10:00	239.35	47.22%
0	1:15:00	168.79	33.30%
0	1:20:00	115.22	22.73%
0	1:25:00	76.42	15.08%
0	1:30:00	48.98	9.66%
0	1:35:00	30.4	6.00%
0	1:40:00	17.64	3.48%
0	1:45:00	15.07	2.97%
0	1:50:00	14.87	2.93%
0	1:55:00	14.25	2.81%
0	2:00:00	14.46	2.85%
0	2:05:00	15.09	2.98%
0	2:10:00	9.08	1.79%
0	2:15:00	4.87	0.96%

EURV 97% 72 Hours

Max Volume(CF)= 194.53

Table - Node POND_1A

Elapsed Days	Elapsed Hours	Volume (ft^3)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	3.21	1.65%
0	0:15:00	8.85	4.55%
0	0:20:00	22.63	11.63%
0	0:25:00	29.93	15.39%
0	0:30:00	39.24	20.17%
0	0:35:00	48.95	25.16%
0	0:40:00	82.8	42.56%
0	0:45:00	194.53	100.00%
0	0:50:00	147.66	75.91%
0	0:55:00	104.61	53.78%
0	1:00:00	70.69	36.34%
0	1:05:00	49.72	25.56%
0	1:10:00	34.68	17.83%
0	1:15:00	20.06	10.31%
0	1:20:00	14.82	7.62%
0	1:25:00	13.63	7.01%
0	1:30:00	13.33	6.85%
0	1:35:00	12.85	6.61%
0	1:40:00	12.16	6.25%
0	1:45:00	12.34	6.34%
0	1:50:00	11.65	5.99%
0	1:55:00	11.64	5.98%
0	2:00:00	11.81	6.07%
0	2:05:00	11.84	6.09%
0	2:10:00	7.65	3.93%
0	2:15:00	4.46	2.29%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 1B (LOWER PORTION)

Max Volume(CF)= 84983.41

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft^3)	
0	0:05:00	0	0.00%
0	0:10:00	38.86	0.05%
0	0:15:00	578.87	0.68%
0	0:20:00	1802.68	2.12%
0	0:25:00	3363.76	3.96%
0	0:30:00	5483.56	6.45%
0	0:35:00	8429.98	9.92%
0	0:40:00	15294.08	18.00%
0	0:45:00	36202.94	42.60%
0	0:50:00	65748.19	77.37%
0	0:55:00	80881.84	95.17%
0	1:00:00	84983.41	100.00%
0	1:05:00	84798.08	99.78%
0	1:10:00	82022.48	96.52%
0	1:15:00	78313.48	92.15%
0	1:20:00	74949.5	88.19%
0	1:25:00	72239.8	85.00%
0	1:30:00	70081.77	82.47%
0	1:35:00	68376.8	80.46%
0	1:40:00	66943.23	78.77%
0	1:45:00	65735.68	77.35%
0	1:50:00	64733.27	76.17%
0	1:55:00	63870.34	75.16%
0	2:00:00	63150.21	74.31%
0	2:05:00	62564.32	73.62%
0	2:10:00	61976.71	72.93%
0	2:15:00	61372.69	72.22%
0	2:20:00	60878.6	71.64%
0	2:25:00	60477.07	71.16%
0	2:30:00	60141.69	70.77%
0	2:35:00	59850.42	70.43%
0	2:40:00	59582.64	70.11%
0	2:45:00	59316.88	69.80%
0	2:50:00	59050.23	69.48%
0	2:55:00	58783.09	69.17%
0	3:00:00	58515.87	68.86%
0	3:05:00	58248.75	68.54%
0	3:10:00	57981.74	68.23%
0	3:15:00	57714.93	67.91%
0	3:20:00	57448.5	67.60%
0	3:25:00	57182.51	67.29%
0	3:30:00	56916.88	66.97%
0	3:35:00	56651.66	66.66%
0	3:40:00	56386.97	66.35%
0	3:45:00	56122.81	66.04%
0	3:50:00	55859.12	65.73%
0	3:55:00	55595.91	65.42%
0	4:00:00	55333.28	65.11%
0	4:05:00	55071.23	64.80%
0	4:10:00	54809.69	64.49%
0	4:15:00	54548.68	64.19%
0	4:20:00	54288.28	63.88%
0	4:25:00	54028.48	63.58%
0	4:30:00	53769.22	63.27%
0	4:35:00	53510.52	62.97%
0	4:40:00	53252.43	62.66%
0	4:45:00	52994.96	62.36%
0	4:50:00	52738.05	62.06%
0	4:55:00	52481.71	61.76%
0	5:00:00	52226	61.45%
0	5:05:00	51970.89	61.15%
0	5:10:00	51716.38	60.85%
0	5:15:00	51462.46	60.56%
0	5:20:00	51209.14	60.26%
0	5:25:00	50956.45	59.96%
0	5:30:00	50704.38	59.66%
0	5:35:00	50452.92	59.37%
0	5:40:00	50202.07	59.07%
0	5:45:00	49951.84	58.78%
0	5:50:00	49702.22	58.48%
0	5:55:00	49453.22	58.19%
0	6:00:00	49204.84	57.90%
0	6:05:00	48957.09	57.61%

5-Year: 97%; 72 Hours

Max Volume(CF)= 52015.69

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft^3)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	18.99	0.04%
0	0:15:00	201.91	0.39%
0	0:20:00	751.83	1.45%
0	0:25:00	1633.5	3.14%
0	0:30:00	2869.56	5.52%
0	0:35:00	4599.75	8.84%
0	0:40:00	7665.1	14.74%
0	0:45:00	15532.38	29.86%
0	0:50:00	25787.92	49.58%
0	0:55:00	33036.28	63.51%
0	1:00:00	38592.38	74.19%
0	1:05:00	42867.5	82.41%
0	1:10:00	46296.73	89.01%
0	1:15:00	48778.65	93.78%
0	1:20:00	50283.5	96.67%
0	1:25:00	51189.5	98.41%
0	1:30:00	51691.66	99.38%
0	1:35:00	51937.09	99.85%
0	1:40:00	52015.69	100.00%
0	1:45:00	52015.61	100.00%
0	1:50:00	52013.78	100.00%
0	1:55:00	51999.97	99.97%
0	2:00:00	51981.82	99.93%
0	2:05:00	51974.81	99.92%
0	2:10:00	51899.72	99.78%
0	2:15:00	51715.38	99.42%
0	2:20:00	51497.19	99.00%
0	2:25:00	51265.2	98.56%
0	2:30:00	51026.39	98.10%
0	2:35:00	50783.91	97.63%
0	2:40:00	50539.36	97.16%
0	2:45:00	50293.67	96.69%
0	2:50:00	50047.38	96.22%
0	2:55:00	49800.84	95.74%
0	3:00:00	49554.27	95.27%
0	3:05:00	49307.85	94.79%
0	3:10:00	49061.68	94.32%
0	3:15:00	48815.79	93.85%
0	3:20:00	48570.38	93.38%
0	3:25:00	48325.32	92.91%
0	3:30:00	48080.82	92.44%
0	3:35:00	47836.81	91.97%
0	3:40:00	47593.31	91.50%
0	3:45:00	47350.34	91.03%
0	3:50:00	47107.92	90.56%
0	3:55:00	46866.07	90.10%
0	4:00:00	46624.85	89.64%
0	4:05:00	46384.18	89.17%
0	4:10:00	46144.11	88.71%
0	4:15:00	45904.64	88.25%
0	4:20:00	45665.82	87.79%
0	4:25:00	45427.57	87.33%
0	4:30:00	45189.94	86.88%
0	4:35:00	44952.95	86.42%
0	4:40:00	44716.59	85.97%
0	4:45:00	44480.86	85.51%
0	4:50:00	44245.76	85.06%
0	4:55:00	44011.3	84.61%
0	5:00:00	43777.49	84.16%
0	5:05:00	43544.3	83.71%
0	5:10:00	43311.75	83.27%
0	5:15:00	43079.87	82.82%
0	5:20:00	42848.61	82.38%
0	5:25:00	42618.01	81.93%
0	5:30:00	42388.06	81.49%
0	5:35:00	42158.78	81.05%
0	5:40:00	41930.13	80.61%
0	5:45:00	41702.14	80.17%
0	5:50:00	41474.83	79.74%
0	5:55:00	41248.18	79.30%
0	6:00:00	41022.19	78.87%
0	6:05:00	40796.88	78.43%

EURV 97% 72 Hours

Max Volume(CF)= 20696.1

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft^3)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	11.65	0.06%
0	0:15:00	78.04	0.38%
0	0:20:00	342.2	1.65%
0	0:25:00	901.2	4.35%
0	0:30:00	1758.56	8.50%
0	0:35:00	2977.96	14.39%
0	0:40:00	5107.95	24.68%
0	0:45:00	9567.17	46.23%
0	0:50:00	14238.59	68.80%
0	0:55:00	16676.48	80.58%
0	1:00:00	18146.33	87.68%
0	1:05:00	19070.96	92.15%
0	1:10:00	19723.72	95.30%
0	1:15:00	20099.82	97.12%
0	1:20:00	20258.68	97.89%
0	1:25:00	20356.9	98.36%
0	1:30:00	20432.46	98.73%
0	1:35:00	20495.34	99.03%
0	1:40:00	20542.04	99.26%
0	1:45:00	20582.49	99.45%
0	1:50:00	20616.36	99.61%
0	1:55:00	20640.66	99.73%
0	2:00:00	20667.94	99.86%
0	2:05:00	20696.1	100.00%
0	2:10:00	20676.49	99.91%
0	2:15:00	20585.77	99.47%
0	2:20:00	20470.4	98.91%
0	2:25:00	20344.34	98.30%
0	2:30:00	20212.93	97.67%
0	2:35:00	20078.69	97.02%
0	2:40:00	19942.94	96.36%
0	2:45:00	19806.44	95.70%
0	2:50:00	19669.65	95.04%
0	2:55:00	19532.89	94.38%
0	3:00:00	19396.35	93.72%
0	3:05:00	19260.18	93.06%
0	3:10:00	19124.47	92.41%
0	3:15:00	18989.32	91.75%
0	3:20:00	18854.76	91.10%
0	3:25:00	18720.84	90.46%
0	3:30:00	18587.61	89.81%
0	3:35:00	18455.08	89.17%
0	3:40:00	18323.27	88.53%
0	3:45:00	18192.21	87.90%
0	3:50:00	18061.91	87.27%
0	3:55:00	17932.38	86.65%
0	4:00:00	17803.63	86.02%
0	4:05:00	17675.67	85.41%
0	4:10:00	17548.52	84.79%
0	4:15:00	17422.17	84.18%
0	4:20:00	17296.63	83.57%
0	4:25:00	17171.92	82.97%
0	4:30:00	17048.03	82.37%
0	4:35:00	16924.97	81.78%
0	4:40:00	16802.75	81.19%
0	4:45:00	16681.36	80.60%
0	4:50:00	16560.82	80.02%
0	4:55:00	16441.12	79.44%
0	5:00:00	16322.27	78.87%
0	5:05:00	16204.28	78.30%
0	5:10:00	16087.14	77.73%
0	5:15:00	15970.86	77.17%
0	5:20:00	15855.44	76.61%
0	5:25:00	15740.89	76.06%
0	5:30:00	15627.21	75.51%
0	5:35:00	15514.39	74.96%
0	5:40:00	15402.46	74.42%
0	5:45:00	15291.4	73.89%
0	5:50:00	15181.21	73.35%
0	5:55:00	15071.92	72.82%
0	6:00:00	14963.51	72.30%
0	6:05:00	14855.98	71.78%

WQCV: 40 Hours Minimum

Max Volume(CF)= 7258.2

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft^3)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	2.85	0.04%
0	0:15:00	22.33	0.31%
0	0:20:00	64.62	0.89%
0	0:25:00	125.47	1.73%
0	0:30:00	300.69	4.14%
0	0:35:00	703.38	9.69%
0	0:40:00	1505.62	20.74%
0	0:45:00	3080.79	42.45%
0	0:50:00	4624.47	63.71%
0	0:55:00	5393.66	74.31%
0	1:00:00	5861.69	80.76%
0	1:05:00	6179.26	85.13%
0	1:10:00	6439.24	88.72%
0	1:15:00	6626.73	91.30%
0	1:20:00	6737.66	92.83%
0	1:25:00	6818.66	93.94%
0	1:30:00	6884.15	94.85%
0	1:35:00	6942.34	95.65%
0	1:40:00	6998.16	96.42%
0	1:45:00	7047.46	97.10%
0	1:50:00	7093.79	97.73%
0	1:55:00	7138.72	98.35%
0	2:00:00	7182.94	98.96%
0	2:05:00	7226.75	99.57%
0	2:10:00	7254.89	99.95%
0	2:15:00	7258.2	100.00%
0	2:20:00	7249.91	99.89%
0	2:25:00	7235.59	99.69%
0	2:30:00	7217.76	99.44%
0	2:35:00	7197.73	99.17%
0	2:40:00	7176.25	98.87%
0	2:45:00	7153.77	98.56%
0	2:50:00	7130.58	98.24%
0	2:55:00	7106.88	97.92%
0	3:00:00	7082.8	97.58%
0	3:05:00	7058.44	97.25%
0	3:10:00	7033.87	96.91%
0	3:15:00	7009.14	96.57%
0	3:20:00	6984.29	96.23%
0	3:25:00	6959.36	95.88%
0	3:30:00	6934.37	95.54%
0	3:35:00	6909.33	95.19%
0	3:40:00	6884.26	94.85%
0	3:45:00	6859.19	94.50%
0	3:50:00	6834.1	94.16%
0	3:55:00	6809.01	93.81%
0	4:00:00	6783.94	93.47%
0	4:05:00	6758.88	93.12%
0	4:10:00	6733.85	92.78%
0	4:15:00	6708.84	92.43%
0	4:20:00	6683.87	92.09%
0	4:25:00	6658.93	91.74%
0	4:30:00	6634.02	91.40%
0	4:35:00	6609.16	91.06%
0	4:40:00	6584.34	90.72%
0	4:45:00	6559.56	90.37%
0	4:50:00	6534.82	90.03%
0	4:55:00	6510.13	89.69%
0	5:00:00	6485.49	89.35%
0	5:05:00	6460.89	89.02%
0	5:10:00	6436.35	88.68%
0	5:15:00	6411.86	88.34%
0	5:20:00	6387.42	88.00%
0	5:25:00	6363.03	87.67%
0	5:30:00	6338.69	87.33%
0	5:35:00	6314.41	87.00%
0	5:40:00	6290.18	86.66%
0	5:45:00	6266.01	86.33%
0	5:50:00	6241.89	86.00%
0	5:55:00	6217.83	85.67%
0	6:00:00	6193.82	85.34%
0	6:05:00	6169.87	85.01%

0	6:10:00	48709.99	57.32%	0	6:10:00	40572.24	78.00%	0	6:10:00	14749.35	71.27%	0	6:10:00	6145.98	84.68%
0	6:15:00	48463.48	57.03%	0	6:15:00	40348.25	77.57%	0	6:15:00	14643.62	70.76%	0	6:15:00	6122.14	84.35%
0	6:20:00	48217.64	56.74%	0	6:20:00	40124.93	77.14%	0	6:20:00	14538.78	70.25%	0	6:20:00	6098.37	84.02%
0	6:25:00	47972.41	56.45%	0	6:25:00	39902.29	76.71%	0	6:25:00	14434.84	69.75%	0	6:25:00	6074.65	83.69%
0	6:30:00	47727.8	56.16%	0	6:30:00	39680.32	76.29%	0	6:30:00	14331.81	69.25%	0	6:30:00	6050.99	83.37%
0	6:35:00	47483.84	55.87%	0	6:35:00	39459.02	75.86%	0	6:35:00	14229.68	68.76%	0	6:35:00	6027.39	83.04%
0	6:40:00	47240.52	55.59%	0	6:40:00	39238.39	75.44%	0	6:40:00	14128.46	68.27%	0	6:40:00	6003.85	82.72%
0	6:45:00	46997.82	55.30%	0	6:45:00	39018.45	75.01%	0	6:45:00	14028.16	67.78%	0	6:45:00	5980.37	82.39%
0	6:50:00	46755.76	55.02%	0	6:50:00	38799.17	74.59%	0	6:50:00	13928.77	67.30%	0	6:50:00	5956.95	82.07%
0	6:55:00	46514.35	54.73%	0	6:55:00	38580.57	74.17%	0	6:55:00	13830.3	66.83%	0	6:55:00	5933.58	81.75%
0	7:00:00	46273.57	54.45%	0	7:00:00	38362.66	73.75%	0	7:00:00	13732.76	66.35%	0	7:00:00	5910.28	81.43%
0	7:05:00	46033.43	54.17%	0	7:05:00	38145.41	73.33%	0	7:05:00	13636.14	65.89%	0	7:05:00	5887.04	81.11%
0	7:10:00	45793.93	53.89%	0	7:10:00	37928.85	72.92%	0	7:10:00	13540.45	65.43%	0	7:10:00	5863.86	80.79%
0	7:15:00	45555.08	53.60%	0	7:15:00	37712.98	72.50%	0	7:15:00	13445.7	64.97%	0	7:15:00	5840.75	80.47%
0	7:20:00	45316.87	53.32%	0	7:20:00	37497.79	72.09%	0	7:20:00	13351.88	64.51%	0	7:20:00	5817.69	80.15%
0	7:25:00	45079.3	53.04%	0	7:25:00	37283.27	71.68%	0	7:25:00	13259.01	64.07%	0	7:25:00	5794.7	79.84%
0	7:30:00	44842.39	52.77%	0	7:30:00	37069.45	71.27%	0	7:30:00	13167.08	63.62%	0	7:30:00	5771.77	79.52%
0	7:35:00	44606.11	52.49%	0	7:35:00	36856.3	70.86%	0	7:35:00	13076.1	63.18%	0	7:35:00	5748.9	79.21%
0	7:40:00	44370.49	52.21%	0	7:40:00	36643.85	70.45%	0	7:40:00	12986.08	62.75%	0	7:40:00	5726.09	78.89%
0	7:45:00	44135.51	51.93%	0	7:45:00	36432.09	70.04%	0	7:45:00	12897.01	62.32%	0	7:45:00	5703.35	78.58%
0	7:50:00	43901.19	51.66%	0	7:50:00	36221.01	69.63%	0	7:50:00	12808.91	61.89%	0	7:50:00	5680.67	78.27%
0	7:55:00	43667.52	51.38%	0	7:55:00	36010.63	69.23%	0	7:55:00	12721.77	61.47%	0	7:55:00	5658.05	77.95%
0	8:00:00	43434.5	51.11%	0	8:00:00	35800.93	68.83%	0	8:00:00	12635.61	61.05%	0	8:00:00	5635.5	77.64%
0	8:05:00	43202.13	50.84%	0	8:05:00	35591.93	68.43%	0	8:05:00	12550.42	60.64%	0	8:05:00	5613.01	77.33%
0	8:10:00	42970.42	50.56%	0	8:10:00	35383.61	68.02%	0	8:10:00	12466.21	60.23%	0	8:10:00	5590.59	77.02%
0	8:15:00	42739.37	50.29%	0	8:15:00	35176	67.63%	0	8:15:00	12383	59.83%	0	8:15:00	5568.23	76.72%
0	8:20:00	42508.97	50.02%	0	8:20:00	34969.09	67.23%	0	8:20:00	12300.77	59.44%	0	8:20:00	5545.94	76.41%
0	8:25:00	42279.23	49.75%	0	8:25:00	34762.87	66.83%	0	8:25:00	12219.55	59.04%	0	8:25:00	5523.71	76.10%
0	8:30:00	42050.16	49.48%	0	8:30:00	34557.36	66.44%	0	8:30:00	12139.33	58.66%	0	8:30:00	5501.55	75.80%
0	8:35:00	41821.75	49.21%	0	8:35:00	34352.54	66.04%	0	8:35:00	12060.13	58.27%	0	8:35:00	5479.45	75.49%
0	8:40:00	41594	48.94%	0	8:40:00	34148.32	65.65%	0	8:40:00	11981.94	57.89%	0	8:40:00	5457.42	75.19%
0	8:45:00	41366.93	48.68%	0	8:45:00	33944.79	65.26%	0	8:45:00	11904.78	57.52%	0	8:45:00	5435.46	74.89%
0	8:50:00	41140.52	48.41%	0	8:50:00	33741.96	64.87%	0	8:50:00	11828.65	57.15%	0	8:50:00	5413.56	74.59%
0	8:55:00	40914.79	48.14%	0	8:55:00	33539.84	64.48%	0	8:55:00	11753.56	56.79%	0	8:55:00	5391.73	74.28%
0	9:00:00	40689.72	47.88%	0	9:00:00	33338.43	64.09%	0	9:00:00	11679.66	56.43%	0	9:00:00	5369.97	73.98%
0	9:05:00	40465.33	47.62%	0	9:05:00	33137.73	63.71%	0	9:05:00	11607.23	56.08%	0	9:05:00	5348.28	73.69%
0	9:10:00	40241.61	47.35%	0	9:10:00	32937.74	63.32%	0	9:10:00	11536.24	55.74%	0	9:10:00	5326.66	73.39%
0	9:15:00	40018.56	47.09%	0	9:15:00	32738.46	62.94%	0	9:15:00	11466.66	55.40%	0	9:15:00	5305.1	73.09%
0	9:20:00	39796.18	46.83%	0	9:20:00	32539.9	62.56%	0	9:20:00	11398.44	55.08%	0	9:20:00	5283.62	72.80%
0	9:25:00	39574.48	46.57%	0	9:25:00	32342.06	62.18%	0	9:25:00	11331.54	54.75%	0	9:25:00	5262.2	72.50%
0	9:30:00	39353.46	46.31%	0	9:30:00	32144.93	61.80%	0	9:30:00	11265.93	54.44%	0	9:30:00	5240.86	72.21%
0	9:35:00	39133.12	46.05%	0	9:35:00	31948.52	61.42%	0	9:35:00	11201.56	54.12%	0	9:35:00	5219.58	71.91%
0	9:40:00	38913.45	45.79%	0	9:40:00	31752.84	61.04%	0	9:40:00	11138.4	53.82%	0	9:40:00	5198.38	71.62%
0	9:45:00	38694.46	45.53%	0	9:45:00	31557.87	60.67%	0	9:45:00	11076.41	53.52%	0	9:45:00	5177.25	71.33%
0	9:50:00	38476.15	45.27%	0	9:50:00	31363.62	60.30%	0	9:50:00	11015.57	53.23%	0	9:50:00	5156.19	71.04%
0	9:55:00	38258.52	45.02%	0	9:55:00	31170.1	59.92%	0	9:55:00	10955.84	52.94%	0	9:55:00	5135.21	70.75%
0	10:00:00	38041.57	44.76%	0	10:00:00	30977.3	59.55%	0	10:00:00	10897.18	52.65%	0	10:00:00	5114.3	70.46%
0	10:05:00	37825.3	44.51%	0	10:05:00	30785.23	59.18%	0	10:05:00	10839.58	52.37%	0	10:05:00	5093.46	70.18%
0	10:10:00	37609.72	44.26%	0	10:10:00	30593.88	58.82%	0	10:10:00	10782.99	52.10%	0	10:10:00	5072.7	69.89%
0	10:15:00	37394.83	44.00%	0	10:15:00	30403.26	58.45%	0	10:15:00	10727.39	51.83%	0	10:15:00	5052.01	69.60%
0	10:20:00	37180.62	43.75%	0	10:20:00	30213.37	58.09%	0	10:20:00	10672.75	51.57%	0	10:20:00	5031.4	69.32%
0	10:25:00	36967.09	43.50%	0	10:25:00	30024.21	57.72%	0	10:25:00	10619.04	51.31%	0	10:25:00	5010.87	69.04%
0	10:30:00	36754.26	43.25%	0	10:30:00	29835.78	57.36%	0	10:30:00	10566.25	51.05%	0	10:30:00	4990.43	68.76%
0	10:35:00	36542.11	43.00%	0	10:35:00	29648.09	57.00%	0	10:35:00	10514.34	50.80%	0	10:35:00	4970.08	68.48%
0	10:40:00	36330.65	42.75%	0	10:40:00	29461.12	56.64%	0	10:40:00	10463.29	50.56%	0	10:40:00	4949.84	68.20%
0	10:45:00	36119.88	42.50%	0	10:45:00	29274.89	56.28%	0	10:45:00	10413.07	50.31%	0	10:45:00	4929.7	67.92%
0	10:50:00	35909.81	42.26%	0	10:50:00	29089.4	55.92%	0	10:50:00	10363.66	50.08%	0	10:50:00	4909.65	67.64%
0	10:55:00	35700.42	42.01%	0	10:55:00	28904.64	55.57%	0	10:55:00	10315.05	49.84%	0	10:55:00	4889.7	67.37%
0	11:00:00	35491.73	41.76%	0	11:00:00	28720.63	55.22%	0	11:00:00	10267.2	49.61%	0	11:00:00	4869.84	67.09%
0	11:05:00	35283.74	41.52%	0	11:05:00	28537.35	54.86%	0	11:05:00	10220.1	49.38%	0	11:05:00	4850.07	66.82%
0	11:10:00	35076.44	41.27%	0	11:10:00	28354.81	54.51%	0	11:10:00	10173.73	49.16%	0	11:10:00	4830.4	66.55%
0	11:15:00	34869.84	41.03%	0	11:15:00	28173.01	54.16%	0	11:15:00	10128.06	48.94%	0	11:15:00	4810.81	66.28%
0	11:20:00	34663.94	40.79%	0	11:20:00	27991.96	53.81%	0	11:20:00	10083.08	48.72%	0	11:20:00	4791.32	66.01%
0	11:25:00	34458.75	40.55%	0	11:25:00	27811.65	53.47%	0	11:25:00	10038.77	48.51%	0	11:25:00	4771.91	65.75%
0	11:30:00	34254.21	40.31%	0	11:30:00	27632.08	53.12%	0	11:30:00	9995.11	48.29%	0	11:30:00	4752.6	65.48%
0	11:35:00	34050.3	40.07%	0	11:35:00	27453.26	52.78%	0	11:35:00	9952.08	48.09%	0	11:35:00	4733.36	65.21%
0	11:40:00	33847.1	39.83%	0	11:40:00	27275.19	52.44%	0	11:40:00	9909.67	47.88%	0	11:40:00	4714.21	64.95%
0	11:45:00	33644.59	39.59%	0	11:45:00	27097.87	52.10%	0	11:45:00	9867.85	47.68%	0	11:45:00	4695.15	64.69%
0	11:50:00	33442.8	39.35%	0	11:50:00	26921.29	51.76%	0	11:50:00	9826.62	47.48%	0	11:50:00	4676.17	64.43%
0	11:55:00	33241.71	39.12%	0	11:55:00	26745.47	51.42%	0	11:55:00	9785.95	47.28%	0	11:55:00	4657.27	64.17%
0	12:00:00	33041.34	38.88%	0	12:00:00	26570.39	51.08%	0	12:00:00	9745.83	47.09%	0	12:00:00	4638.44	63.91%
0	12:05:00	32841.68	38.64%	0	12:05:00	26396.07	50.75%	0	12:05:00	9706.24	46.90%	0	12:05:00	4619.7	63.65%
0	12:10:00	32642.74	38.41%	0	12:10:00	26222.51	50.41%	0	12:10:00	9667.17	46.71%	0	12:10:00	4601.04	63.39%
0	12:15:00	32444.52	38.18%	0	12:15:00	26049.7	50.08%	0	12:15:00	9628.61	46.52%	0	12:15:00	4582.45	63.13%
0	12:20:00	32247.01	37.95%	0	12:20:00	25877.64	49.75%	0	12:20:00	9590.54	46.34%	0	12:20:00	4563.93	62.88%
0	12:25:00	32050.21	37.71%	0	12:25:00	25706.34	49.42%	0	12:25:00	9552.94	46.16%	0	12:25:00	4545.49	62.63%
0	12:30:00	31854.14	37.48%	0	12:30:00	25535.79	49.09%	0	12:30:00	9515.81	45.98%	0	12:30:00	4527.12	62.37%
0	12:35:00	31658.79	37.25%	0	12:35:00	25366	48.77%	0	12:35:00	9479.13	45.80%	0	12:35:00	4508.83	62.12%
0	12:40:00	31464.16	37.02%	0	12:40:00	25196.96	48.44%	0	12:40:00	9442.88	45.63%	0	12:40:00	4490.6	61.87%
0	12:45:00	31270.25	36.80%	0	12:45:00	25028.66	48.12%	0	12:45:00	9407.05	45.45%	0	12:45:00	4472.44	61.62%

0	12:50:00	31077.07	36.57%
0	12:55:00	30884.61	36.34%
0	13:00:00	30692.88	36.12%
0	13:05:00	30501.88	35.89%
0	13:10:00	30311.6	35.67%
0	13:15:00	30122.05	35.44%
0	13:20:00	29933.24	35.22%
0	13:25:00	29745.16	35.00%
0	13:30:00	29557.8	34.78%
0	13:35:00	29371.19	34.56%
0	13:40:00	29185.31	34.34%
0	13:45:00	29000.16	34.12%
0	13:50:00	28815.76	33.91%
0	13:55:00	28632.09	33.69%
0	14:00:00	28449.16	33.48%
0	14:05:00	28266.98	33.26%
0	14:10:00	28085.53	33.05%
0	14:15:00	27904.83	32.84%
0	14:20:00	27724.88	32.62%
0	14:25:00	27545.66	32.41%
0	14:30:00	27367.2	32.20%
0	14:35:00	27189.48	31.99%
0	14:40:00	27012.52	31.79%
0	14:45:00	26836.3	31.58%
0	14:50:00	26660.83	31.37%
0	14:55:00	26486.12	31.17%
0	15:00:00	26312.16	30.96%
0	15:05:00	26138.95	30.76%
0	15:10:00	25966.5	30.55%
0	15:15:00	25794.8	30.35%
0	15:20:00	25623.86	30.15%
0	15:25:00	25453.68	29.95%
0	15:30:00	25284.24	29.75%
0	15:35:00	25115.56	29.55%
0	15:40:00	24947.63	29.36%
0	15:45:00	24780.46	29.16%
0	15:50:00	24614.07	28.96%
0	15:55:00	24448.46	28.77%
0	16:00:00	24283.61	28.57%
0	16:05:00	24119.54	28.38%
0	16:10:00	23956.26	28.19%
0	16:15:00	23793.75	28.00%
0	16:20:00	23632.02	27.81%
0	16:25:00	23471.07	27.62%
0	16:30:00	23310.9	27.43%
0	16:35:00	23151.52	27.24%
0	16:40:00	22992.92	27.06%
0	16:45:00	22835.11	26.87%
0	16:50:00	22678.09	26.69%
0	16:55:00	22521.86	26.50%
0	17:00:00	22366.42	26.32%
0	17:05:00	22211.77	26.14%
0	17:10:00	22057.92	25.96%
0	17:15:00	21904.86	25.78%
0	17:20:00	21752.6	25.60%
0	17:25:00	21601.13	25.42%
0	17:30:00	21450.47	25.24%
0	17:35:00	21300.61	25.06%
0	17:40:00	21151.54	24.89%
0	17:45:00	21003.29	24.71%
0	17:50:00	20855.84	24.54%
0	17:55:00	20709.19	24.37%
0	18:00:00	20563.35	24.20%
0	18:05:00	20418.33	24.03%
0	18:10:00	20274.11	23.86%
0	18:15:00	20130.71	23.69%
0	18:20:00	19988.12	23.52%
0	18:25:00	19846.35	23.35%
0	18:30:00	19705.39	23.19%
0	18:35:00	19565.26	23.02%
0	18:40:00	19425.94	22.86%
0	18:45:00	19287.45	22.70%
0	18:50:00	19149.78	22.53%
0	18:55:00	19012.93	22.37%
0	19:00:00	18876.91	22.21%
0	19:05:00	18741.72	22.05%
0	19:10:00	18607.36	21.90%
0	19:15:00	18473.83	21.74%
0	19:20:00	18341.14	21.58%
0	19:25:00	18209.28	21.43%

0	12:50:00	24861.13	47.80%
0	12:55:00	24694.37	47.47%
0	13:00:00	24528.38	47.16%
0	13:05:00	24363.17	46.84%
0	13:10:00	24198.73	46.52%
0	13:15:00	24035.07	46.21%
0	13:20:00	23872.18	45.89%
0	13:25:00	23710.08	45.58%
0	13:30:00	23548.75	45.27%
0	13:35:00	23388.21	44.96%
0	13:40:00	23228.46	44.66%
0	13:45:00	23069.48	44.35%
0	13:50:00	22911.29	44.05%
0	13:55:00	22753.89	43.74%
0	14:00:00	22597.28	43.44%
0	14:05:00	22441.46	43.14%
0	14:10:00	22286.43	42.85%
0	14:15:00	22132.2	42.55%
0	14:20:00	21978.76	42.25%
0	14:25:00	21826.11	41.96%
0	14:30:00	21674.26	41.67%
0	14:35:00	21523.21	41.38%
0	14:40:00	21372.97	41.09%
0	14:45:00	21223.52	40.80%
0	14:50:00	21074.88	40.52%
0	14:55:00	20927.04	40.23%
0	15:00:00	20780	39.95%
0	15:05:00	20633.78	39.67%
0	15:10:00	20488.36	39.39%
0	15:15:00	20343.75	39.11%
0	15:20:00	20199.96	38.83%
0	15:25:00	20056.98	38.56%
0	15:30:00	19914.81	38.29%
0	15:35:00	19773.46	38.01%
0	15:40:00	19632.93	37.74%
0	15:45:00	19493.22	37.48%
0	15:50:00	19354.33	37.21%
0	15:55:00	19216.26	36.94%
0	16:00:00	19079.02	36.68%
0	16:05:00	18942.6	36.42%
0	16:10:00	18807.01	36.16%
0	16:15:00	18672.25	35.90%
0	16:20:00	18538.32	35.64%
0	16:25:00	18405.23	35.38%
0	16:30:00	18272.96	35.13%
0	16:35:00	18141.54	34.88%
0	16:40:00	18010.95	34.63%
0	16:45:00	17881.2	34.38%
0	16:50:00	17752.29	34.13%
0	16:55:00	17624.22	33.88%
0	17:00:00	17497	33.64%
0	17:05:00	17370.63	33.39%
0	17:10:00	17245.1	33.15%
0	17:15:00	17120.43	32.91%
0	17:20:00	16996.61	32.68%
0	17:25:00	16873.64	32.44%
0	17:30:00	16751.53	32.20%
0	17:35:00	16630.28	31.97%
0	17:40:00	16509.89	31.74%
0	17:45:00	16390.36	31.51%
0	17:50:00	16271.7	31.28%
0	17:55:00	16153.9	31.06%
0	18:00:00	16036.98	30.83%
0	18:05:00	15920.92	30.61%
0	18:10:00	15805.74	30.39%
0	18:15:00	15691.43	30.17%
0	18:20:00	15578.01	29.95%
0	18:25:00	15465.46	29.73%
0	18:30:00	15353.79	29.52%
0	18:35:00	15243.02	29.30%
0	18:40:00	15133.12	29.09%
0	18:45:00	15024.12	28.88%
0	18:50:00	14916.01	28.68%
0	18:55:00	14808.8	28.47%
0	19:00:00	14702.49	28.27%
0	19:05:00	14597.07	28.06%
0	19:10:00	14492.56	27.86%
0	19:15:00	14388.95	27.66%
0	19:20:00	14286.25	27.47%
0	19:25:00	14184.47	27.27%

0	12:50:00	9371.64	45.28%
0	12:55:00	9336.62	45.11%
0	13:00:00	9301.99	44.95%
0	13:05:00	9267.74	44.78%
0	13:10:00	9233.84	44.62%
0	13:15:00	9200.29	44.45%
0	13:20:00	9167.09	44.29%
0	13:25:00	9134.21	44.13%
0	13:30:00	9101.64	43.98%
0	13:35:00	9069.38	43.82%
0	13:40:00	9037.41	43.67%
0	13:45:00	9005.72	43.51%
0	13:50:00	8974.3	43.36%
0	13:55:00	8943.14	43.21%
0	14:00:00	8912.22	43.06%
0	14:05:00	8881.54	42.91%
0	14:10:00	8851.08	42.77%
0	14:15:00	8820.82	42.62%
0	14:20:00	8790.77	42.48%
0	14:25:00	8760.89	42.33%
0	14:30:00	8731.18	42.19%
0	14:35:00	8701.62	42.04%
0	14:40:00	8672.19	41.90%
0	14:45:00	8642.85	41.76%
0	14:50:00	8613.57	41.62%
0	14:55:00	8584.35	41.48%
0	15:00:00	8555.18	41.34%
0	15:05:00	8526.07	41.20%
0	15:10:00	8497.01	41.06%
0	15:15:00	8468	40.92%
0	15:20:00	8439.06	40.78%
0	15:25:00	8410.16	40.64%
0	15:30:00	8381.32	40.50%
0	15:35:00	8352.54	40.36%
0	15:40:00	8323.81	40.22%
0	15:45:00	8295.13	40.08%
0	15:50:00	8266.51	39.94%
0	15:55:00	8237.95	39.80%
0	16:00:00	8209.43	39.67%
0	16:05:00	8180.98	39.53%
0	16:10:00	8152.58	39.39%
0	16:15:00	8124.24	39.25%
0	16:20:00	8095.95	39.12%
0	16:25:00	8067.71	38.98%
0	16:30:00	8039.54	38.85%
0	16:35:00	8011.41	38.71%
0	16:40:00	7983.35	38.57%
0	16:45:00	7955.33	38.44%
0	16:50:00	7927.38	38.30%
0	16:55:00	7899.48	38.17%
0	17:00:00	7871.63	38.03%
0	17:05:00	7843.85	37.90%
0	17:10:00	7816.11	37.77%
0	17:15:00	7788.44	37.63%
0	17:20:00	7760.82	37.50%
0	17:25:00	7733.25	37.37%
0	17:30:00	7705.74	37.23%
0	17:35:00	7678.29	37.10%
0	17:40:00	7650.9	36.97%
0	17:45:00	7623.56	36.84%
0	17:50:00	7596.27	36.70%
0	17:55:00	7569.05	36.57%
0	18:00:00	7541.87	36.44%
0	18:05:00	7514.76	36.31%
0	18:10:00	7487.7	36.18%
0	18:15:00	7460.7	36.05%
0	18:20:00	7433.76	35.92%
0	18:25:00	7406.87	35.79%
0	18:30:00	7380.04	35.66%
0	18:35:00	7353.27	35.53%
0	18:40:00	7326.55	35.40%
0	18:45:00	7299.89	35.27%
0	18:50:00	7273.29	35.14%
0	18:55:00	7246.74	35.02%
0	19:00:00	7220.26	34.89%
0	19:05:00	7193.82	34.76%
0	19:10:00	7167.45	34.63%
0	19:15:00	7141.14	34.50%
0	19:20:00	7114.88	34.38%
0	19:25:00	7088.68	34.25%

0	12:50:00	4454.35	61.37%
0	12:55:00	4436.33	61.12%
0	13:00:00	4418.37	60.87%
0	13:05:00	4400.48	60.63%
0	13:10:00	4382.65	60.38%
0	13:15:00	4364.87	60.14%
0	13:20:00	4347.16	59.89%
0	13:25:00	4329.51	59.65%
0	13:30:00	4311.91	59.41%
0	13:35:00	4294.37	59.17%
0	13:40:00	4276.88	58.92%
0	13:45:00	4259.44	58.68%
0	13:50:00	4242.06	58.45%
0	13:55:00	4224.72	58.21%
0	14:00:00	4207.42	57.97%
0	14:05:00	4190.17	57.73%
0	14:10:00	4172.96	57.49%
0	14:15:00	4155.79	57.26%
0	14:20:00	4138.64	57.02%
0	14:25:00	4121.53	56.78%
0	14:30:00	4104.44	56.55%
0	14:35:00	4087.39	56.31%
0	14:40:00	4070.37	56.08%
0	14:45:00	4053.37	55.85%
0	14:50:00	4036.41	55.61%
0	14:55:00	4019.47	55.38%
0	15:00:00	4002.57	55.15%
0	15:05:00	3985.7	54.91%
0	15:10:00	3968.86	54.68%
0	15:15:00	3952.04	54.45%
0	15:20:00	3935.26	54.22%
0	15:25:00	3918.51	53.99%
0	15:30:00	3901.79	53.76%
0	15:35:00	3885.11	53.53%
0	15:40:00	3868.45	53.30%
0	15:45:00	3851.82	53.07%
0	15:50:00	3835.23	52.84%
0	15:55:00	3818.66	52.61%
0	16:00:00	3802.13	52.38%
0	16:05:00	3785.63	52.16%
0	16:10:00	3769.16	51.93%
0	16:15:00	3752.72	51.70%
0	16:20:00	3736.32	51.48%
0	16:25:00	3719.94	51.25%
0	16:30:00	3703.6	51.03%
0	16:35:00	3687.29	50.80%
0	16:40:00	3671.01	50.58%
0	16:45:00	3654.76	50.35%
0	16:50:00	3638.55	50.13%
0	16:55:00	3622.36	49.91%
0	17:00:00	3606.21	49.68%
0	17:05:00	3590.1	49.46%
0	17:10:00	3574.01	49.24%
0	17:15:00	3557.96	49.02%
0	17:20:00	3541.94	48.80%
0	17:25:00	3525.95	48.58%
0	17:30:00	3509.99	48.36%
0	17:35:00	3494.07	48.14%
0	17:40:00	3478.18	47.92%
0	17:45:00	3462.33	47.70%
0	17:50:00	3446.5	47.48%
0	17:55:00	3430.71	47.27%
0	18:00:00	3414.96	47.05%
0	18:05:00	3399.24	46.83%
0	18:10:00	3383.55	46.62%
0	18:15:00	3367.89	46.40%
0	18:20:00	3352.27	46.19%
0	18:25:00	3336.68	45.97%
0	18:30:00	3321.13	45.76%
0	18:35:00	3305.6	45.54%
0	18:40:00	3290.12	45.33%
0	18:45:00	3274.67	45.12%
0	18:50:00	3259.25	44.90%
0	18:55:00	3243.86	44.69%
0	19:00:00	3228.52	44.48%
0	19:05:00	3213.2	44.27%
0	19:10:00	3197.92	44.06%
0	19:15:00	3182.68	43.85%
0	19:20:00	3167.47	43.64%
0	19:25:00	3152.29	43.43%

0	19:30:00	18078.25	21.27%
0	19:35:00	17948.07	21.12%
0	19:40:00	17818.72	20.97%
0	19:45:00	17690.22	20.82%
0	19:50:00	17562.56	20.67%
0	19:55:00	17435.75	20.52%
0	20:00:00	17309.79	20.37%
0	20:05:00	17184.67	20.22%
0	20:10:00	17060.41	20.07%
0	20:15:00	16937	19.93%
0	20:20:00	16814.44	19.79%
0	20:25:00	16692.75	19.64%
0	20:30:00	16571.91	19.50%
0	20:35:00	16451.94	19.36%
0	20:40:00	16332.83	19.22%
0	20:45:00	16214.58	19.08%
0	20:50:00	16097.21	18.94%
0	20:55:00	15980.7	18.80%
0	21:00:00	15865.07	18.67%
0	21:05:00	15750.31	18.53%
0	21:10:00	15636.43	18.40%
0	21:15:00	15523.42	18.27%
0	21:20:00	15411.3	18.13%
0	21:25:00	15300.07	18.00%
0	21:30:00	15189.71	17.87%
0	21:35:00	15080.25	17.74%
0	21:40:00	14971.68	17.62%
0	21:45:00	14864.01	17.49%
0	21:50:00	14757.23	17.36%
0	21:55:00	14651.35	17.24%
0	22:00:00	14546.37	17.12%
0	22:05:00	14442.29	16.99%
0	22:10:00	14339.13	16.87%
0	22:15:00	14236.87	16.75%
0	22:20:00	14135.52	16.63%
0	22:25:00	14035.1	16.52%
0	22:30:00	13935.59	16.40%
0	22:35:00	13837	16.28%
0	22:40:00	13739.34	16.17%
0	22:45:00	13642.61	16.05%
0	22:50:00	13546.82	15.94%
0	22:55:00	13451.95	15.83%
0	23:00:00	13358.03	15.72%
0	23:05:00	13265.05	15.61%
0	23:10:00	13173.02	15.50%
0	23:15:00	13081.94	15.39%
0	23:20:00	12991.82	15.29%
0	23:25:00	12902.65	15.18%
0	23:30:00	12814.45	15.08%
0	23:35:00	12727.22	14.98%
0	23:40:00	12640.96	14.87%
0	23:45:00	12555.68	14.77%
0	23:50:00	12471.38	14.68%
0	23:55:00	12388.08	14.58%
0	0:00:00	12305.76	14.48%
1	0:05:00	12224.45	14.38%
1	0:10:00	12144.14	14.29%
1	0:15:00	12064.85	14.20%
1	0:20:00	11986.58	14.10%
1	0:25:00	11909.33	14.01%
1	0:30:00	11833.12	13.92%
1	0:35:00	11757.95	13.84%
1	0:40:00	11683.94	13.75%
1	0:45:00	11611.4	13.66%
1	0:50:00	11540.31	13.58%
1	0:55:00	11470.63	13.50%
1	1:00:00	11402.31	13.42%
1	1:05:00	11335.32	13.34%
1	1:10:00	11269.61	13.26%
1	1:15:00	11205.16	13.19%
1	1:20:00	11141.91	13.11%
1	1:25:00	11079.84	13.04%
1	1:30:00	11018.92	12.97%
1	1:35:00	10959.11	12.90%
1	1:40:00	10900.38	12.83%
1	1:45:00	10842.71	12.76%
1	1:50:00	10786.05	12.69%
1	1:55:00	10730.38	12.63%
1	2:00:00	10675.67	12.56%
1	2:05:00	10621.91	12.50%

0	19:30:00	14083.6	27.08%
0	19:35:00	13983.65	26.88%
0	19:40:00	13884.62	26.69%
0	19:45:00	13786.51	26.50%
0	19:50:00	13689.33	26.32%
0	19:55:00	13593.08	26.13%
0	20:00:00	13497.76	25.95%
0	20:05:00	13403.39	25.77%
0	20:10:00	13309.95	25.59%
0	20:15:00	13217.46	25.41%
0	20:20:00	13125.92	25.23%
0	20:25:00	13035.33	25.06%
0	20:30:00	12945.7	24.89%
0	20:35:00	12857.04	24.72%
0	20:40:00	12769.33	24.55%
0	20:45:00	12682.6	24.38%
0	20:50:00	12596.85	24.22%
0	20:55:00	12512.08	24.05%
0	21:00:00	12428.29	23.89%
0	21:05:00	12345.5	23.73%
0	21:10:00	12263.7	23.58%
0	21:15:00	12182.91	23.42%
0	21:20:00	12103.12	23.27%
0	21:25:00	12024.35	23.12%
0	21:30:00	11946.61	22.97%
0	21:35:00	11869.9	22.82%
0	21:40:00	11794.22	22.67%
0	21:45:00	11719.6	22.53%
0	21:50:00	11646.35	22.39%
0	21:55:00	11574.56	22.25%
0	22:00:00	11504.21	22.12%
0	22:05:00	11435.23	21.98%
0	22:10:00	11367.6	21.85%
0	22:15:00	11301.28	21.73%
0	22:20:00	11236.22	21.60%
0	22:25:00	11172.39	21.48%
0	22:30:00	11109.76	21.36%
0	22:35:00	11048.29	21.24%
0	22:40:00	10987.95	21.12%
0	22:45:00	10928.7	21.01%
0	22:50:00	10870.51	20.90%
0	22:55:00	10813.37	20.79%
0	23:00:00	10757.22	20.68%
0	23:05:00	10702.05	20.57%
0	23:10:00	10647.84	20.47%
0	23:15:00	10594.54	20.37%
0	23:20:00	10542.15	20.27%
0	23:25:00	10490.62	20.17%
0	23:30:00	10439.95	20.07%
0	23:35:00	10390.1	19.97%
0	23:40:00	10341.05	19.88%
0	23:45:00	10292.78	19.79%
0	23:50:00	10245.27	19.70%
0	23:55:00	10198.5	19.61%
0	0:00:00	10152.45	19.52%
1	0:05:00	10107.09	19.43%
1	0:10:00	10062.42	19.34%
1	0:15:00	10018.4	19.26%
1	0:20:00	9975.02	19.18%
1	0:25:00	9932.27	19.09%
1	0:30:00	9890.13	19.01%
1	0:35:00	9848.58	18.93%
1	0:40:00	9807.6	18.86%
1	0:45:00	9767.18	18.78%
1	0:50:00	9727.3	18.70%
1	0:55:00	9687.95	18.63%
1	1:00:00	9649.11	18.55%
1	1:05:00	9610.77	18.48%
1	1:10:00	9572.92	18.40%
1	1:15:00	9535.53	18.33%
1	1:20:00	9498.6	18.26%
1	1:25:00	9462.12	18.19%
1	1:30:00	9426.06	18.12%
1	1:35:00	9390.43	18.05%
1	1:40:00	9355.19	17.99%
1	1:45:00	9320.35	17.92%
1	1:50:00	9285.89	17.85%
1	1:55:00	9251.8	17.79%
1	2:00:00	9218.06	17.72%
1	2:05:00	9184.67	17.66%

0	19:30:00	7062.53	34.12%
0	19:35:00	7036.45	34.00%
0	19:40:00	7010.42	33.87%
0	19:45:00	6984.45	33.75%
0	19:50:00	6958.54	33.62%
0	19:55:00	6932.69	33.50%
0	20:00:00	6906.89	33.37%
0	20:05:00	6881.15	33.25%
0	20:10:00	6855.48	33.12%
0	20:15:00	6829.86	33.00%
0	20:20:00	6804.29	32.88%
0	20:25:00	6778.79	32.75%
0	20:30:00	6753.35	32.63%
0	20:35:00	6727.96	32.51%
0	20:40:00	6702.63	32.39%
0	20:45:00	6677.36	32.26%
0	20:50:00	6652.15	32.14%
0	20:55:00	6627	32.02%
0	21:00:00	6601.91	31.90%
0	21:05:00	6576.88	31.78%
0	21:10:00	6551.91	31.66%
0	21:15:00	6527	31.54%
0	21:20:00	6502.14	31.42%
0	21:25:00	6477.35	31.30%
0	21:30:00	6452.62	31.18%
0	21:35:00	6427.94	31.06%
0	21:40:00	6403.33	30.94%
0	21:45:00	6378.78	30.82%
0	21:50:00	6354.28	30.70%
0	21:55:00	6329.85	30.58%
0	22:00:00	6305.48	30.47%
0	22:05:00	6281.17	30.35%
0	22:10:00	6256.91	30.23%
0	22:15:00	6232.72	30.12%
0	22:20:00	6208.59	30.00%
0	22:25:00	6184.53	29.88%
0	22:30:00	6160.52	29.77%
0	22:35:00	6136.57	29.65%
0	22:40:00	6112.69	29.54%
0	22:45:00	6088.87	29.42%
0	22:50:00	6065.11	29.31%
0	22:55:00	6041.41	29.19%
0	23:00:00	6017.77	29.08%
0	23:05:00	5994.2	28.96%
0	23:10:00	5970.68	28.85%
0	23:15:00	5947.23	28.74%
0	23:20:00	5923.85	28.62%
0	23:25:00	5900.52	28.51%
0	23:30:00	5877.26	28.40%
0	23:35:00	5854.06	28.29%
0	23:40:00	5830.93	28.17%
0	23:45:00	5807.86	28.06%
0	23:50:00	5784.85	27.95%
0	23:55:00	5761.91	27.84%
0	0:00:00	5739.03	27.73%
1	0:05:00	5716.21	27.62%
1	0:10:00	5693.46	27.51%
1	0:15:00	5670.78	27.40%
1	0:20:00	5648.16	27.29%
1	0:25:00	5625.6	27.18%
1	0:30:00	5603.11	27.07%
1	0:35:00	5580.69	26.96%
1	0:40:00	5558.33	26.86%
1	0:45:00	5536.04	26.75%
1	0:50:00	5513.81	26.64%
1	0:55:00	5491.66	26.53%
1	1:00:00	5469.56	26.43%
1	1:05:00	5447.54	26.32%
1	1:10:00	5425.58	26.22%
1	1:15:00	5403.7	26.11%
1	1:20:00	5381.88	26.00%
1	1:25:00	5360.13	25.90%
1	1:30:00	5338.44	25.79%
1	1:35:00	5316.83	25.69%
1	1:40:00	5295.29	25.59%
1	1:45:00	5273.82	25.48%
1	1:50:00	5252.42	25.38%
1	1:55:00	5231.08	25.28%
1	2:00:00	5209.83	25.17%
1	2:05:00	5188.64	25.07%

0	19:30:00	3137.15	43.22%
0	19:35:00	3122.04	43.01%
0	19:40:00	3106.97	42.81%
0	19:45:00	3091.94	42.60%
0	19:50:00	3076.94	42.39%
0	19:55:00	3061.98	42.19%
0	20:00:00	3047.05	41.98%
0	20:05:00	3032.16	41.78%
0	20:10:00	3017.3	41.57%
0	20:15:00	3002.48	41.37%
0	20:20:00	2987.7	41.16%
0	20:25:00	2972.95	40.96%
0	20:30:00	2958.24	40.76%
0	20:35:00	2943.56	40.55%
0	20:40:00	2928.92	40.35%
0	20:45:00	2914.32	40.15%
0	20:50:00	2899.75	39.95%
0	20:55:00	2885.23	39.75%
0	21:00:00	2870.73	39.55%
0	21:05:00	2856.28	39.35%
0	21:10:00	2841.86	39.15%
0	21:15:00	2827.48	38.96%
0	21:20:00	2813.14	38.76%
0	21:25:00	2798.84	38.56%
0	21:30:00	2784.57	38.36%
0	21:35:00	2770.34	38.17%
0	21:40:00	2756.15	37.97%
0	21:45:00	2741.99	37.78%
0	21:50:00	2727.88	37.58%
0	21:55:00	2713.8	37.39%
0	22:00:00	2699.76	37.20%
0	22:05:00	2685.76	37.00%
0	22:10:00	2671.8	36.81%
0	22:15:00	2657.88	36.62%
0	22:20:00	2644	36.43%
0	22:25:00	2630.15	36.24%
0	22:30:00	2616.35	36.05%
0	22:35:00	2602.58	35.86%
0	22:40:00	2588.86	35.67%
0	22:45:00	2575.17	35.48%
0	22:50:00	2561.53	35.29%
0	22:55:00	2547.92	35.10%
0	23:00:00	2534.35	34.92%
0	23:05:00	2520.83	34.73%
0	23:10:00	2507.34	34.54%
0	23:15:00	2493.89	34.36%
0	23:20:00	2480.49	34.18%
0	23:25:00	2467.13	33.99%
0	23:30:00	2453.8	33.81%
0	23:35:00	2440.52	33.62%
0	23:40:00	2427.28	33.44%
0	23:45:00	2414.08	33.26%
0	23:50:00	2400.92	33.08%
0	23:55:00	2387.81	32.90%
0	0:00:00	2374.73	32.72%
1	0:05:00	2361.7	32.54%
1	0:10:00	2348.71	32.36%
1	0:15:00	2335.77	32.18%
1	0:20:00	2322.86	32.00%
1	0:25:00	2310	31.83%
1	0:30:00	2297.18	31.65%
1	0:35:00	2284.41	31.47%
1	0:40:00	2271.67	31.30%
1	0:45:00	2258.98	31.12%
1	0:50:00	2246.34	30.95%
1	0:55:00	2233.74	30.78%
1	1:00:00	2221.18	30.60%
1	1:05:00	2208.66	30.43%
1	1:10:00	2196.2	30.26%
1	1:15:00	2183.77	30.09%
1	1:20:00	2171.39	29.92%
1	1:25:00	2159.06	29.75%
1	1:30:00	2146.77	29.58%
1	1:35:00	2134.52	29.41%
1	1:40:00	2122.32	29.24%
1	1:45:00	2110.17	29.07%
1	1:50:00	2098.06	28.91%
1	1:55:00	2086	28.74%
1	2:00:00	2073.99	28.57%
1	2:05:00	2062.02	28.41%

1	2:10:00	10569.05	12.44%
1	2:15:00	10517.08	12.38%
1	2:20:00	10465.97	12.32%
1	2:25:00	10415.7	12.26%
1	2:30:00	10366.24	12.20%
1	2:35:00	10317.57	12.14%
1	2:40:00	10269.67	12.08%
1	2:45:00	10222.52	12.03%
1	2:50:00	10176.1	11.97%
1	2:55:00	10130.39	11.92%
1	3:00:00	10085.36	11.87%
1	3:05:00	10041.01	11.82%
1	3:10:00	9997.3	11.76%
1	3:15:00	9954.23	11.71%
1	3:20:00	9911.78	11.66%
1	3:25:00	9869.92	11.61%
1	3:30:00	9828.65	11.57%
1	3:35:00	9787.95	11.52%
1	3:40:00	9747.79	11.47%
1	3:45:00	9708.17	11.42%
1	3:50:00	9669.07	11.38%
1	3:55:00	9630.47	11.33%
1	4:00:00	9592.37	11.29%
1	4:05:00	9554.74	11.24%
1	4:10:00	9517.58	11.20%
1	4:15:00	9480.87	11.16%
1	4:20:00	9444.59	11.11%
1	4:25:00	9408.74	11.07%
1	4:30:00	9373.3	11.03%
1	4:35:00	9338.26	10.99%
1	4:40:00	9303.6	10.95%
1	4:45:00	9269.32	10.91%
1	4:50:00	9235.4	10.87%
1	4:55:00	9201.83	10.83%
1	5:00:00	9168.61	10.79%
1	5:05:00	9135.7	10.75%
1	5:10:00	9103.12	10.71%
1	5:15:00	9070.84	10.67%
1	5:20:00	9038.85	10.64%
1	5:25:00	9007.14	10.60%
1	5:30:00	8975.7	10.56%
1	5:35:00	8944.52	10.53%
1	5:40:00	8913.59	10.49%
1	5:45:00	8882.89	10.45%
1	5:50:00	8852.42	10.42%
1	5:55:00	8822.15	10.38%
1	6:00:00	8792.08	10.35%
1	6:05:00	8762.19	10.31%
1	6:10:00	8732.47	10.28%
1	6:15:00	8702.9	10.24%
1	6:20:00	8673.46	10.21%
1	6:25:00	8644.11	10.17%
1	6:30:00	8614.83	10.14%
1	6:35:00	8585.6	10.10%
1	6:40:00	8556.42	10.07%
1	6:45:00	8527.3	10.03%
1	6:50:00	8498.24	10.00%
1	6:55:00	8469.23	9.97%
1	7:00:00	8440.27	9.93%
1	7:05:00	8411.37	9.90%
1	7:10:00	8382.52	9.86%
1	7:15:00	8353.73	9.83%
1	7:20:00	8325	9.80%
1	7:25:00	8296.31	9.76%
1	7:30:00	8267.69	9.73%
1	7:35:00	8239.12	9.69%
1	7:40:00	8210.6	9.66%
1	7:45:00	8182.14	9.63%
1	7:50:00	8153.73	9.59%
1	7:55:00	8125.39	9.56%
1	8:00:00	8097.09	9.53%
1	8:05:00	8068.85	9.49%
1	8:10:00	8040.67	9.46%
1	8:15:00	8012.54	9.43%
1	8:20:00	7984.47	9.40%
1	8:25:00	7956.45	9.36%
1	8:30:00	7928.49	9.33%
1	8:35:00	7900.58	9.30%
1	8:40:00	7872.74	9.26%
1	8:45:00	7844.94	9.23%

1	2:10:00	9151.61	17.59%
1	2:15:00	9118.87	17.53%
1	2:20:00	9086.45	17.47%
1	2:25:00	9054.32	17.41%
1	2:30:00	9022.48	17.35%
1	2:35:00	8990.91	17.28%
1	2:40:00	8959.61	17.22%
1	2:45:00	8928.56	17.17%
1	2:50:00	8897.75	17.11%
1	2:55:00	8867.16	17.05%
1	3:00:00	8836.8	16.99%
1	3:05:00	8806.63	16.93%
1	3:10:00	8776.66	16.87%
1	3:15:00	8746.86	16.82%
1	3:20:00	8717.22	16.76%
1	3:25:00	8687.72	16.70%
1	3:30:00	8658.33	16.65%
1	3:35:00	8629.02	16.59%
1	3:40:00	8599.76	16.53%
1	3:45:00	8570.56	16.48%
1	3:50:00	8541.42	16.42%
1	3:55:00	8512.32	16.36%
1	4:00:00	8483.29	16.31%
1	4:05:00	8454.3	16.25%
1	4:10:00	8425.38	16.20%
1	4:15:00	8396.5	16.14%
1	4:20:00	8367.69	16.09%
1	4:25:00	8338.92	16.03%
1	4:30:00	8310.21	15.98%
1	4:35:00	8281.56	15.92%
1	4:40:00	8252.96	15.87%
1	4:45:00	8224.42	15.81%
1	4:50:00	8195.93	15.76%
1	4:55:00	8167.5	15.70%
1	5:00:00	8139.13	15.65%
1	5:05:00	8110.81	15.59%
1	5:10:00	8082.54	15.54%
1	5:15:00	8054.33	15.48%
1	5:20:00	8026.17	15.43%
1	5:25:00	7998.08	15.38%
1	5:30:00	7970.03	15.32%
1	5:35:00	7942.04	15.27%
1	5:40:00	7914.11	15.21%
1	5:45:00	7886.24	15.16%
1	5:50:00	7858.42	15.11%
1	5:55:00	7830.65	15.05%
1	6:00:00	7802.94	15.00%
1	6:05:00	7775.29	14.95%
1	6:10:00	7747.69	14.89%
1	6:15:00	7720.15	14.84%
1	6:20:00	7692.67	14.79%
1	6:25:00	7665.24	14.74%
1	6:30:00	7637.87	14.68%
1	6:35:00	7610.55	14.63%
1	6:40:00	7583.29	14.58%
1	6:45:00	7556.09	14.53%
1	6:50:00	7528.95	14.47%
1	6:55:00	7501.86	14.42%
1	7:00:00	7474.82	14.37%
1	7:05:00	7447.85	14.32%
1	7:10:00	7420.93	14.27%
1	7:15:00	7394.07	14.22%
1	7:20:00	7367.26	14.16%
1	7:25:00	7340.51	14.11%
1	7:30:00	7313.82	14.06%
1	7:35:00	7287.19	14.01%
1	7:40:00	7260.61	13.96%
1	7:45:00	7234.09	13.91%
1	7:50:00	7207.63	13.86%
1	7:55:00	7181.22	13.81%
1	8:00:00	7154.87	13.76%
1	8:05:00	7128.58	13.70%
1	8:10:00	7102.35	13.65%
1	8:15:00	7076.18	13.60%
1	8:20:00	7050.06	13.55%
1	8:25:00	7024	13.50%
1	8:30:00	6998	13.45%
1	8:35:00	6972.05	13.40%
1	8:40:00	6946.17	13.35%
1	8:45:00	6920.34	13.30%

1	2:10:00	5167.53	24.97%
1	2:15:00	5146.49	24.87%
1	2:20:00	5125.52	24.77%
1	2:25:00	5104.63	24.66%
1	2:30:00	5083.81	24.56%
1	2:35:00	5063.07	24.46%
1	2:40:00	5042.4	24.36%
1	2:45:00	5021.82	24.26%
1	2:50:00	5001.31	24.17%
1	2:55:00	4980.9	24.07%
1	3:00:00	4960.59	23.97%
1	3:05:00	4940.38	23.87%
1	3:10:00	4920.27	23.77%
1	3:15:00	4900.26	23.68%
1	3:20:00	4880.34	23.58%
1	3:25:00	4860.51	23.49%
1	3:30:00	4840.78	23.39%
1	3:35:00	4821.14	23.29%
1	3:40:00	4801.58	23.20%
1	3:45:00	4782.12	23.11%
1	3:50:00	4762.75	23.01%
1	3:55:00	4743.46	22.92%
1	4:00:00	4724.26	22.83%
1	4:05:00	4705.14	22.73%
1	4:10:00	4686.11	22.64%
1	4:15:00	4667.15	22.55%
1	4:20:00	4648.28	22.46%
1	4:25:00	4629.49	22.37%
1	4:30:00	4610.77	22.28%
1	4:35:00	4592.14	22.19%
1	4:40:00	4573.58	22.10%
1	4:45:00	4555.09	22.01%
1	4:50:00	4536.68	21.92%
1	4:55:00	4518.34	21.83%
1	5:00:00	4500.07	21.74%
1	5:05:00	4481.87	21.66%
1	5:10:00	4463.73	21.57%
1	5:15:00	4445.67	21.48%
1	5:20:00	4427.67	21.39%
1	5:25:00	4409.74	21.31%
1	5:30:00	4391.87	21.22%
1	5:35:00	4374.06	21.13%
1	5:40:00	4356.31	21.05%
1	5:45:00	4338.62	20.96%
1	5:50:00	4320.99	20.88%
1	5:55:00	4303.41	20.79%
1	6:00:00	4285.89	20.71%
1	6:05:00	4268.42	20.62%
1	6:10:00	4251	20.54%
1	6:15:00	4233.63	20.46%
1	6:20:00	4216.31	20.37%
1	6:25:00	4199.03	20.29%
1	6:30:00	4181.79	20.21%
1	6:35:00	4164.6	20.12%
1	6:40:00	4147.43	20.04%
1	6:45:00	4130.3	19.96%
1	6:50:00	4113.19	19.87%
1	6:55:00	4096.12	19.79%
1	7:00:00	4079.07	19.71%
1	7:05:00	4062.06	19.63%
1	7:10:00	4045.08	19.55%
1	7:15:00	4028.12	19.46%
1	7:20:00	4011.2	19.38%
1	7:25:00	3994.31	19.30%
1	7:30:00	3977.44	19.22%
1	7:35:00	3960.61	19.14%
1	7:40:00	3943.81	19.06%
1	7:45:00	3927.04	18.97%
1	7:50:00	3910.3	18.89%
1	7:55:00	3893.6	18.81%
1	8:00:00	3876.92	18.73%
1	8:05:00	3860.27	18.65%
1	8:10:00	3843.66	18.57%
1	8:15:00	3827.08	18.49%
1	8:20:00	3810.52	18.41%
1	8:25:00	3794	18.33%
1	8:30:00	3777.51	18.25%
1	8:35:00	3761.06	18.17%
1	8:40:00	3744.63	18.09%
1	8:45:00	3728.24	18.01%

1	2:10:00	2050.1	28.25%
1	2:15:00	2038.22	28.08%
1	2:20:00	2026.4	27.92%
1	2:25:00	2014.62	27.76%
1	2:30:00	2002.89	27.59%
1	2:35:00	1991.2	27.43%
1	2:40:00	1979.57	27.27%
1	2:45:00	1967.98	27.11%
1	2:50:00	1956.44	26.95%
1	2:55:00	1944.96	26.80%
1	3:00:00	1933.52	26.64%
1	3:05:00	1922.13	26.48%
1	3:10:00	1910.79	26.33%
1	3:15:00	1899.5	26.17%
1	3:20:00	1888.26	26.02%
1	3:25:00	1877.07	25.86%
1	3:30:00	1865.93	25.71%
1	3:35:00	1854.85	25.56%
1	3:40:00	1843.81	25.40%
1	3:45:00	1832.83	25.25%
1	3:50:00	1821.9	25.10%
1	3:55:00	1811.02	24.95%
1	4:00:00	1800.2	24.80%
1	4:05:00	1789.42	24.65%
1	4:10:00	1778.71	24.51%
1	4:15:00	1768.04	24.36%
1	4:20:00	1757.43	24.21%
1	4:25:00	1746.88	24.07%
1	4:30:00	1736.38	23.92%
1	4:35:00	1725.93	23.78%
1	4:40:00	1715.55	23.64%
1	4:45:00	1705.21	23.49%
1	4:50:00	1694.94	23.35%
1	4:55:00	1684.72	23.21%
1	5:00:00	1674.56	23.07%
1	5:05:00	1664.46	22.93%
1	5:10:00	1654.42	22.79%
1	5:15:00	1644.43	22.66%
1	5:20:00	1634.51	22.52%
1	5:25:00	1624.65	22.38%
1	5:30:00	1614.84	22.25%
1	5:35:00	1605.12	22.11%
1	5:40:00	1595.49	21.98%
1	5:45:00	1585.94	21.85%
1	5:50:00	1576.47	21.72%
1	5:55:00	1567.08	21.59%
1	6:00:00	1557.78	21.46%
1	6:05:00	1548.55	21.34%
1	6:10:00	1539.4	21.21%
1	6:15:00	1530.33	21.08%
1	6:20:00	1521.34	20.96%
1	6:25:00	1512.42	20.84%
1	6:30:00	1503.58	20.72%
1	6:35:00	1494.81	20.59%
1	6:40:00	1486.11	20.47%
1	6:45:00	1477.49	20.36%
1	6:50:00	1468.93	20.24%
1	6:55:00	1460.45	20.12%
1	7:00:00	1452.04	20.01%
1	7:05:00	1443.69	19.89%
1	7:10:00	1435.41	19.78%
1	7:15:00	1427.2	19.66%
1	7:20:00	1419.06	19.55%
1	7:25:00	1410.98	19.44%
1	7:30:00	1402.96	19.33%
1	7:35:00	1395.01	19.22%
1	7:40:00	1387.11	19.11%
1	7:45:00	1379.28	19.00%
1	7:50:00	1371.51	18.90%
1	7:55:00	1363.8	18.79%
1	8:00:00	1356.15	18.68%
1	8:05:00	1348.56	18.58%
1	8:10:00	1341.03	18.48%
1	8:15:00	1333.55	18.37%
1	8:20:00	1326.12	18.27%
1	8:25:00	1318.76	18.17%
1	8:30:00	1311.44	18.07%
1	8:35:00	1304.18	17.97%
1	8:40:00	1296.97	17.87%
1	8:45:00	1289.81	17.77%

1	8:50:00	7817.2	9.20%
1	8:55:00	7789.52	9.17%
1	9:00:00	7761.9	9.13%
1	9:05:00	7734.33	9.10%
1	9:10:00	7706.81	9.07%
1	9:15:00	7679.36	9.04%
1	9:20:00	7651.96	9.00%
1	9:25:00	7624.61	8.97%
1	9:30:00	7597.32	8.94%
1	9:35:00	7570.09	8.91%
1	9:40:00	7542.92	8.88%
1	9:45:00	7515.8	8.84%
1	9:50:00	7488.74	8.81%
1	9:55:00	7461.73	8.78%
1	10:00:00	7434.78	8.75%
1	10:05:00	7407.89	8.72%
1	10:10:00	7381.06	8.69%
1	10:15:00	7354.28	8.65%
1	10:20:00	7327.56	8.62%
1	10:25:00	7300.89	8.59%
1	10:30:00	7274.29	8.56%
1	10:35:00	7247.74	8.53%
1	10:40:00	7221.24	8.50%
1	10:45:00	7194.81	8.47%
1	10:50:00	7168.43	8.44%
1	10:55:00	7142.11	8.40%
1	11:00:00	7115.85	8.37%
1	11:05:00	7089.64	8.34%
1	11:10:00	7063.5	8.31%
1	11:15:00	7037.41	8.28%
1	11:20:00	7011.38	8.25%
1	11:25:00	6985.4	8.22%
1	11:30:00	6959.49	8.19%
1	11:35:00	6933.63	8.16%
1	11:40:00	6907.83	8.13%
1	11:45:00	6882.09	8.10%
1	11:50:00	6856.41	8.07%
1	11:55:00	6830.78	8.04%
1	12:00:00	6805.22	8.01%
1	12:05:00	6779.71	7.98%
1	12:10:00	6754.26	7.95%
1	12:15:00	6728.87	7.92%
1	12:20:00	6703.54	7.89%
1	12:25:00	6678.27	7.86%
1	12:30:00	6653.06	7.83%
1	12:35:00	6627.9	7.80%
1	12:40:00	6602.81	7.77%
1	12:45:00	6577.77	7.74%
1	12:50:00	6552.8	7.71%
1	12:55:00	6527.88	7.68%
1	13:00:00	6503.02	7.65%
1	13:05:00	6478.23	7.62%
1	13:10:00	6453.49	7.59%
1	13:15:00	6428.81	7.56%
1	13:20:00	6404.2	7.54%
1	13:25:00	6379.64	7.51%
1	13:30:00	6355.14	7.48%
1	13:35:00	6330.71	7.45%
1	13:40:00	6306.33	7.42%
1	13:45:00	6282.01	7.39%
1	13:50:00	6257.76	7.36%
1	13:55:00	6233.57	7.34%
1	14:00:00	6209.43	7.31%
1	14:05:00	6185.36	7.28%
1	14:10:00	6161.35	7.25%
1	14:15:00	6137.4	7.22%
1	14:20:00	6113.51	7.19%
1	14:25:00	6089.69	7.17%
1	14:30:00	6065.92	7.14%
1	14:35:00	6042.22	7.11%
1	14:40:00	6018.58	7.08%
1	14:45:00	5995	7.05%
1	14:50:00	5971.49	7.03%
1	14:55:00	5948.04	7.00%
1	15:00:00	5924.64	6.97%
1	15:05:00	5901.32	6.94%
1	15:10:00	5878.05	6.92%
1	15:15:00	5854.85	6.89%
1	15:20:00	5831.71	6.86%
1	15:25:00	5808.64	6.84%

1	8:50:00	6894.57	13.25%
1	8:55:00	6868.86	13.21%
1	9:00:00	6843.21	13.16%
1	9:05:00	6817.62	13.11%
1	9:10:00	6792.08	13.06%
1	9:15:00	6766.6	13.01%
1	9:20:00	6741.19	12.96%
1	9:25:00	6715.83	12.91%
1	9:30:00	6690.53	12.86%
1	9:35:00	6665.28	12.81%
1	9:40:00	6640.1	12.77%
1	9:45:00	6614.98	12.72%
1	9:50:00	6589.91	12.67%
1	9:55:00	6564.91	12.62%
1	10:00:00	6539.96	12.57%
1	10:05:00	6515.08	12.53%
1	10:10:00	6490.25	12.48%
1	10:15:00	6465.49	12.43%
1	10:20:00	6440.78	12.38%
1	10:25:00	6416.13	12.33%
1	10:30:00	6391.55	12.29%
1	10:35:00	6367.02	12.24%
1	10:40:00	6342.56	12.19%
1	10:45:00	6318.15	12.15%
1	10:50:00	6293.81	12.10%
1	10:55:00	6269.52	12.05%
1	11:00:00	6245.3	12.01%
1	11:05:00	6221.14	11.96%
1	11:10:00	6197.04	11.91%
1	11:15:00	6173	11.87%
1	11:20:00	6149.02	11.82%
1	11:25:00	6125.1	11.78%
1	11:30:00	6101.24	11.73%
1	11:35:00	6077.45	11.68%
1	11:40:00	6053.72	11.64%
1	11:45:00	6030.05	11.59%
1	11:50:00	6006.44	11.55%
1	11:55:00	5982.89	11.50%
1	12:00:00	5959.41	11.46%
1	12:05:00	5935.99	11.41%
1	12:10:00	5912.63	11.37%
1	12:15:00	5889.34	11.32%
1	12:20:00	5866.1	11.28%
1	12:25:00	5842.94	11.23%
1	12:30:00	5819.83	11.19%
1	12:35:00	5796.79	11.14%
1	12:40:00	5773.81	11.10%
1	12:45:00	5750.9	11.06%
1	12:50:00	5728.05	11.01%
1	12:55:00	5705.27	10.97%
1	13:00:00	5682.54	10.92%
1	13:05:00	5659.89	10.88%
1	13:10:00	5637.3	10.84%
1	13:15:00	5614.78	10.79%
1	13:20:00	5592.32	10.75%
1	13:25:00	5569.92	10.71%
1	13:30:00	5547.6	10.67%
1	13:35:00	5525.34	10.62%
1	13:40:00	5503.14	10.58%
1	13:45:00	5481.02	10.54%
1	13:50:00	5458.96	10.49%
1	13:55:00	5436.96	10.45%
1	14:00:00	5415.04	10.41%
1	14:05:00	5393.18	10.37%
1	14:10:00	5371.4	10.33%
1	14:15:00	5349.68	10.28%
1	14:20:00	5328.03	10.24%
1	14:25:00	5306.45	10.20%
1	14:30:00	5284.94	10.16%
1	14:35:00	5263.5	10.12%
1	14:40:00	5242.13	10.08%
1	14:45:00	5220.84	10.04%
1	14:50:00	5199.61	10.00%
1	14:55:00	5178.46	9.96%
1	15:00:00	5157.38	9.92%
1	15:05:00	5136.37	9.87%
1	15:10:00	5115.44	9.83%
1	15:15:00	5094.59	9.79%
1	15:20:00	5073.8	9.75%
1	15:25:00	5053.1	9.71%

1	8:50:00	3711.87	17.94%
1	8:55:00	3695.54	17.86%
1	9:00:00	3679.25	17.78%
1	9:05:00	3662.98	17.70%
1	9:10:00	3646.75	17.62%
1	9:15:00	3630.54	17.54%
1	9:20:00	3614.37	17.46%
1	9:25:00	3598.24	17.39%
1	9:30:00	3582.13	17.31%
1	9:35:00	3566.06	17.23%
1	9:40:00	3550.02	17.15%
1	9:45:00	3534.01	17.08%
1	9:50:00	3518.04	17.00%
1	9:55:00	3502.1	16.92%
1	10:00:00	3486.19	16.84%
1	10:05:00	3470.31	16.77%
1	10:10:00	3454.47	16.69%
1	10:15:00	3438.66	16.62%
1	10:20:00	3422.89	16.54%
1	10:25:00	3407.15	16.46%
1	10:30:00	3391.44	16.39%
1	10:35:00	3375.76	16.31%
1	10:40:00	3360.12	16.24%
1	10:45:00	3344.51	16.16%
1	10:50:00	3328.94	16.08%
1	10:55:00	3313.4	16.01%
1	11:00:00	3297.89	15.93%
1	11:05:00	3282.42	15.86%
1	11:10:00	3266.98	15.79%
1	11:15:00	3251.58	15.71%
1	11:20:00	3236.21	15.64%
1	11:25:00	3220.88	15.56%
1	11:30:00	3205.58	15.49%
1	11:35:00	3190.31	15.42%
1	11:40:00	3175.08	15.34%
1	11:45:00	3159.89	15.27%
1	11:50:00	3144.73	15.19%
1	11:55:00	3129.6	15.12%
1	12:00:00	3114.52	15.05%
1	12:05:00	3099.46	14.98%
1	12:10:00	3084.44	14.90%
1	12:15:00	3069.46	14.83%
1	12:20:00	3054.51	14.76%
1	12:25:00	3039.6	14.69%
1	12:30:00	3024.72	14.61%
1	12:35:00	3009.88	14.54%
1	12:40:00	2995.08	14.47%
1	12:45:00	2980.31	14.40%
1	12:50:00	2965.58	14.33%
1	12:55:00	2950.88	14.26%
1	13:00:00	2936.23	14.19%
1	13:05:00	2921.6	14.12%
1	13:10:00	2907.02	14.05%
1	13:15:00	2892.47	13.98%
1	13:20:00	2877.96	13.91%
1	13:25:00	2863.48	13.84%
1	13:30:00	2849.05	13.77%
1	13:35:00	2834.65	13.70%
1	13:40:00	2820.28	13.63%
1	13:45:00	2805.96	13.56%
1	13:50:00	2791.67	13.49%
1	13:55:00	2777.42	13.42%
1	14:00:00	2763.21	13.35%
1	14:05:00	2749.04	13.28%
1	14:10:00	2734.9	13.21%
1	14:15:00	2720.8	13.15%
1	14:20:00	2706.75	13.08%
1	14:25:00	2692.73	13.01%
1	14:30:00	2678.74	12.94%
1	14:35:00	2664.8	12.88%
1	14:40:00	2650.9	12.81%
1	14:45:00	2637.03	12.74%
1	14:50:00	2623.21	12.67%
1	14:55:00	2609.42	12.61%
1	15:00:00	2595.67	12.54%
1	15:05:00	2581.97	12.48%
1	15:10:00	2568.3	12.41%
1	15:15:00	2554.67	12.34%
1	15:20:00	2541.08	12.28%
1	15:25:00	2527.54	12.21%

1	8:50:00	1282.71	17.67%
1	8:55:00	1275.65	17.58%
1	9:00:00	1268.65	17.48%
1	9:05:00	1261.69	17.38%
1	9:10:00	1254.78	17.29%
1	9:15:00	1247.92	17.19%
1	9:20:00	1241.1	17.10%
1	9:25:00	1234.33	17.01%
1	9:30:00	1227.6	16.91%
1	9:35:00	1220.92	16.82%
1	9:40:00	1214.28	16.73%
1	9:45:00	1207.69	16.64%
1	9:50:00	1201.13	16.55%
1	9:55:00	1194.62	16.46%
1	10:00:00	1188.14	16.37%
1	10:05:00	1181.71	16.28%
1	10:10:00	1175.32	16.19%
1	10:15:00	1168.96	16.11%
1	10:20:00	1162.64	16.02%
1	10:25:00	1156.35	15.93%
1	10:30:00	1150.11	15.85%
1	10:35:00	1143.89	15.76%
1	10:40:00	1137.71	15.67%
1	10:45:00	1131.56	15.59%
1	10:50:00	1125.45	15.51%
1	10:55:00	1119.37	15.42%
1	11:00:00	1113.31	15.34%
1	11:05:00	1107.29	15.26%
1	11:10:00	1101.29	15.17%
1	11:15:00	1095.33	15.09%
1	11:20:00	1089.39	15.01%
1	11:25:00	1083.47	14.93%
1	11:30:00	1077.58	14.85%
1	11:35:00	1071.71	14.77%
1	11:40:00	1065.86	14.68%
1	11:45:00	1060.04	14.60%
1	11:50:00	1054.23	14.52%
1	11:55:00	1048.44	14.44%
1	12:00:00	1042.66	14.37%
1	12:05:00	1036.89	14.29%
1	12:10:00	1031.14	14.21%
1	12:15:00	1025.39	14.13%
1	12:20:00	1019.65	14.05%
1	12:25:00	1013.92	13.97%
1	12:30:00	1008.2	13.89%
1	12:35:00	1002.48	13.81%
1	12:40:00	996.78	13.73%
1	12:45:00	991.09	13.65%
1	12:50:00	985.41	13.58%
1	12:55:00	979.73	13.50%
1	13:00:00	974.07	13.42%
1	13:05:00	968.42	13.34%
1	13:10:00	962.77	13.26%
1	13:15:00	957.14	13.19%
1	13:20:00	951.52	13.11%
1	13:25:00	945.9	13.03%
1	13:30:00	940.3	12.96%
1	13:35:00	934.7	12.88%
1	13:40:00	929.12	12.80%
1	13:45:00	923.54	12.72%
1	13:50:00	917.98	12.65%
1	13:55:00	912.42	12.57%
1	14:00:00	906.88	12.49%
1	14:05:00	901.34	12.42%
1	14:10:00	895.81	12.34%
1	14:15:00	890.3	12.27%
1	14:20:00	884.79	12.19%
1	14:25:00	879.3	12.11%
1	14:30:00	873.82	12.04%
1	14:35:00	868.34	11.96%
1	14:40:00	862.88	11.89%
1	14:45:00	857.42	11.81%
1	14:50:00	851.98	11.74%
1	14:55:00	846.55	11.66%
1	15:00:00	841.12	11.59%
1	15:05:00	835.71	11.51%
1	15:10:00	830.31	11.44%
1	15:15:00	824.92	11.37%
1	15:20:00	819.54	11.29%
1	15:25:00	814.17	11.22%

1	15:30:00	5785.63	6.81%
1	15:35:00	5762.68	6.78%
1	15:40:00	5739.8	6.75%
1	15:45:00	5716.98	6.73%
1	15:50:00	5694.23	6.70%
1	15:55:00	5671.54	6.67%
1	16:00:00	5648.92	6.65%
1	16:05:00	5626.36	6.62%
1	16:10:00	5603.87	6.59%
1	16:15:00	5581.44	6.57%
1	16:20:00	5559.08	6.54%
1	16:25:00	5536.78	6.52%
1	16:30:00	5514.55	6.49%
1	16:35:00	5492.39	6.46%
1	16:40:00	5470.3	6.44%
1	16:45:00	5448.27	6.41%
1	16:50:00	5426.31	6.39%
1	16:55:00	5404.42	6.36%
1	17:00:00	5382.6	6.33%
1	17:05:00	5360.84	6.31%
1	17:10:00	5339.16	6.28%
1	17:15:00	5317.54	6.26%
1	17:20:00	5296	6.23%
1	17:25:00	5274.52	6.21%
1	17:30:00	5253.12	6.18%
1	17:35:00	5231.79	6.16%
1	17:40:00	5210.52	6.13%
1	17:45:00	5189.33	6.11%
1	17:50:00	5168.22	6.08%
1	17:55:00	5147.17	6.06%
1	18:00:00	5126.2	6.03%
1	18:05:00	5105.31	6.01%
1	18:10:00	5084.49	5.98%
1	18:15:00	5063.74	5.96%
1	18:20:00	5043.07	5.93%
1	18:25:00	5022.48	5.91%
1	18:30:00	5001.97	5.89%
1	18:35:00	4981.56	5.86%
1	18:40:00	4961.25	5.84%
1	18:45:00	4941.04	5.81%
1	18:50:00	4920.92	5.79%
1	18:55:00	4900.9	5.77%
1	19:00:00	4880.98	5.74%
1	19:05:00	4861.15	5.72%
1	19:10:00	4841.41	5.70%
1	19:15:00	4821.77	5.67%
1	19:20:00	4802.21	5.65%
1	19:25:00	4782.75	5.63%
1	19:30:00	4763.37	5.61%
1	19:35:00	4744.08	5.58%
1	19:40:00	4724.87	5.56%
1	19:45:00	4705.75	5.54%
1	19:50:00	4686.71	5.51%
1	19:55:00	4667.76	5.49%
1	20:00:00	4648.88	5.47%
1	20:05:00	4630.09	5.45%
1	20:10:00	4611.37	5.43%
1	20:15:00	4592.73	5.40%
1	20:20:00	4574.16	5.38%
1	20:25:00	4555.67	5.36%
1	20:30:00	4537.26	5.34%
1	20:35:00	4518.92	5.32%
1	20:40:00	4500.64	5.30%
1	20:45:00	4482.44	5.27%
1	20:50:00	4464.31	5.25%
1	20:55:00	4446.24	5.23%
1	21:00:00	4428.24	5.21%
1	21:05:00	4410.3	5.19%
1	21:10:00	4392.43	5.17%
1	21:15:00	4374.61	5.15%
1	21:20:00	4356.86	5.13%
1	21:25:00	4339.17	5.11%
1	21:30:00	4321.54	5.09%
1	21:35:00	4303.96	5.06%
1	21:40:00	4286.43	5.04%
1	21:45:00	4268.96	5.02%
1	21:50:00	4251.54	5.00%
1	21:55:00	4234.17	4.98%
1	22:00:00	4216.85	4.96%
1	22:05:00	4199.57	4.94%

1	15:30:00	5032.47	9.67%
1	15:35:00	5011.92	9.64%
1	15:40:00	4991.46	9.60%
1	15:45:00	4971.1	9.56%
1	15:50:00	4950.84	9.52%
1	15:55:00	4930.67	9.48%
1	16:00:00	4910.61	9.44%
1	16:05:00	4890.64	9.40%
1	16:10:00	4870.76	9.36%
1	16:15:00	4850.98	9.33%
1	16:20:00	4831.29	9.29%
1	16:25:00	4811.69	9.25%
1	16:30:00	4792.19	9.21%
1	16:35:00	4772.77	9.18%
1	16:40:00	4753.43	9.14%
1	16:45:00	4734.19	9.10%
1	16:50:00	4715.02	9.06%
1	16:55:00	4695.95	9.03%
1	17:00:00	4676.95	8.99%
1	17:05:00	4658.04	8.96%
1	17:10:00	4639.2	8.92%
1	17:15:00	4620.45	8.88%
1	17:20:00	4601.77	8.85%
1	17:25:00	4583.17	8.81%
1	17:30:00	4564.64	8.78%
1	17:35:00	4546.19	8.74%
1	17:40:00	4527.81	8.70%
1	17:45:00	4509.51	8.67%
1	17:50:00	4491.27	8.63%
1	17:55:00	4473.1	8.60%
1	18:00:00	4455	8.56%
1	18:05:00	4436.97	8.53%
1	18:10:00	4419	8.50%
1	18:15:00	4401.1	8.46%
1	18:20:00	4383.26	8.43%
1	18:25:00	4365.48	8.39%
1	18:30:00	4347.76	8.36%
1	18:35:00	4330.09	8.32%
1	18:40:00	4312.49	8.29%
1	18:45:00	4294.94	8.26%
1	18:50:00	4277.44	8.22%
1	18:55:00	4260	8.19%
1	19:00:00	4242.6	8.16%
1	19:05:00	4225.25	8.12%
1	19:10:00	4207.95	8.09%
1	19:15:00	4190.7	8.06%
1	19:20:00	4173.48	8.02%
1	19:25:00	4156.3	7.99%
1	19:30:00	4139.15	7.96%
1	19:35:00	4122.03	7.92%
1	19:40:00	4104.94	7.89%
1	19:45:00	4087.88	7.86%
1	19:50:00	4070.85	7.83%
1	19:55:00	4053.85	7.79%
1	20:00:00	4036.88	7.76%
1	20:05:00	4019.94	7.73%
1	20:10:00	4003.03	7.70%
1	20:15:00	3986.15	7.66%
1	20:20:00	3969.3	7.63%
1	20:25:00	3952.48	7.60%
1	20:30:00	3935.7	7.57%
1	20:35:00	3918.94	7.53%
1	20:40:00	3902.22	7.50%
1	20:45:00	3885.53	7.47%
1	20:50:00	3868.86	7.44%
1	20:55:00	3852.23	7.41%
1	21:00:00	3835.63	7.37%
1	21:05:00	3819.06	7.34%
1	21:10:00	3802.53	7.31%
1	21:15:00	3786.02	7.28%
1	21:20:00	3769.55	7.25%
1	21:25:00	3753.11	7.22%
1	21:30:00	3736.69	7.18%
1	21:35:00	3720.32	7.15%
1	21:40:00	3703.97	7.12%
1	21:45:00	3687.65	7.09%
1	21:50:00	3671.37	7.06%
1	21:55:00	3655.12	7.03%
1	22:00:00	3638.9	7.00%
1	22:05:00	3622.71	6.96%

1	15:30:00	2514.03	12.15%
1	15:35:00	2500.56	12.08%
1	15:40:00	2487.14	12.02%
1	15:45:00	2473.75	11.95%
1	15:50:00	2460.41	11.89%
1	15:55:00	2447.1	11.82%
1	16:00:00	2433.84	11.76%
1	16:05:00	2420.62	11.70%
1	16:10:00	2407.44	11.63%
1	16:15:00	2394.3	11.57%
1	16:20:00	2381.21	11.51%
1	16:25:00	2368.16	11.44%
1	16:30:00	2355.14	11.38%
1	16:35:00	2342.17	11.32%
1	16:40:00	2329.25	11.25%
1	16:45:00	2316.36	11.19%
1	16:50:00	2303.52	11.13%
1	16:55:00	2290.72	11.07%
1	17:00:00	2277.97	11.01%
1	17:05:00	2265.26	10.95%
1	17:10:00	2252.59	10.88%
1	17:15:00	2239.97	10.82%
1	17:20:00	2227.39	10.76%
1	17:25:00	2214.85	10.70%
1	17:30:00	2202.36	10.64%
1	17:35:00	2189.91	10.58%
1	17:40:00	2177.51	10.52%
1	17:45:00	2165.15	10.46%
1	17:50:00	2152.84	10.40%
1	17:55:00	2140.57	10.34%
1	18:00:00	2128.35	10.28%
1	18:05:00	2116.17	10.22%
1	18:10:00	2104.04	10.17%
1	18:15:00	2091.95	10.11%
1	18:20:00	2079.92	10.05%
1	18:25:00	2067.92	9.99%
1	18:30:00	2055.98	9.93%
1	18:35:00	2044.08	9.88%
1	18:40:00	2032.23	9.82%
1	18:45:00	2020.43	9.76%
1	18:50:00	2008.67	9.71%
1	18:55:00	1996.96	9.65%
1	19:00:00	1985.3	9.59%
1	19:05:00	1973.69	9.54%
1	19:10:00	1962.13	9.48%
1	19:15:00	1950.62	9.43%
1	19:20:00	1939.15	9.37%
1	19:25:00	1927.74	9.31%
1	19:30:00	1916.37	9.26%
1	19:35:00	1905.06	9.20%
1	19:40:00	1893.79	9.15%
1	19:45:00	1882.58	9.10%
1	19:50:00	1871.41	9.04%
1	19:55:00	1860.3	8.99%
1	20:00:00	1849.24	8.94%
1	20:05:00	1838.23	8.88%
1	20:10:00	1827.28	8.83%
1	20:15:00	1816.37	8.78%
1	20:20:00	1805.52	8.72%
1	20:25:00	1794.72	8.67%
1	20:30:00	1783.98	8.62%
1	20:35:00	1773.28	8.57%
1	20:40:00	1762.65	8.52%
1	20:45:00	1752.07	8.47%
1	20:50:00	1741.54	8.41%
1	20:55:00	1731.07	8.36%
1	21:00:00	1720.65	8.31%
1	21:05:00	1710.29	8.26%
1	21:10:00	1699.99	8.21%
1	21:15:00	1689.74	8.16%
1	21:20:00	1679.55	8.12%
1	21:25:00	1669.42	8.07%
1	21:30:00	1659.35	8.02%
1	21:35:00	1649.33	7.97%
1	21:40:00	1639.38	7.92%
1	21:45:00	1629.48	7.87%
1	21:50:00	1619.65	7.83%
1	21:55:00	1609.89	7.78%
1	22:00:00	1600.21	7.73%
1	22:05:00	1590.62	7.69%

1	15:30:00	808.81	11.14%
1	15:35:00	803.46	11.07%
1	15:40:00	798.12	11.00%
1	15:45:00	792.79	10.92%
1	15:50:00	787.47	10.85%
1	15:55:00	782.17	10.78%
1	16:00:00	776.87	10.70%
1	16:05:00	771.59	10.63%
1	16:10:00	766.31	10.56%
1	16:15:00	761.05	10.49%
1	16:20:00	755.8	10.41%
1	16:25:00	750.56	10.34%
1	16:30:00	745.33	10.27%
1	16:35:00	740.11	10.20%
1	16:40:00	734.9	10.13%
1	16:45:00	729.7	10.05%
1	16:50:00	724.52	9.98%
1	16:55:00	719.34	9.91%
1	17:00:00	714.18	9.84%
1	17:05:00	709.03	9.77%
1	17:10:00	703.89	9.70%
1	17:15:00	698.76	9.63%
1	17:20:00	693.64	9.56%
1	17:25:00	688.54	9.49%
1	17:30:00	683.44	9.42%
1	17:35:00	678.36	9.35%
1	17:40:00	673.29	9.28%
1	17:45:00	668.23	9.21%
1	17:50:00	663.18	9.14%
1	17:55:00	658.14	9.07%
1	18:00:00	653.12	9.00%
1	18:05:00	648.11	8.93%
1	18:10:00	643.11	8.86%
1	18:15:00	638.12	8.79%
1	18:20:00	633.14	8.72%
1	18:25:00	628.18	8.65%
1	18:30:00	623.22	8.59%
1	18:35:00	618.28	8.52%
1	18:40:00	613.35	8.45%
1	18:45:00	608.44	8.38%
1	18:50:00	603.53	8.32%
1	18:55:00	598.64	8.25%
1	19:00:00	593.76	8.18%
1	19:05:00	588.89	8.11%
1	19:10:00	584.04	8.05%
1	19:15:00	579.2	7.98%
1	19:20:00	574.37	7.91%
1	19:25:00	569.55	7.85%
1	19:30:00	564.75	7.78%
1	19:35:00	559.95	7.71%
1	19:40:00	555.17	7.65%
1	19:45:00	550.41	7.58%
1	19:50:00	545.66	7.52%
1	19:55:00	540.92	7.45%
1	20:00:00	536.19	7.39%
1	20:05:00	531.47	7.32%
1	20:10:00	526.77	7.26%
1	20:15:00	522.08	7.19%
1	20:20:00	517.41	7.13%
1	20:25:00	512.75	7.06%
1	20:30:00	508.1	7.00%
1	20:35:00	503.46	6.94%
1	20:40:00	498.84	6.87%
1	20:45:00	494.24	6.81%
1	20:50:00	489.64	6.75%
1	20:55:00	485.06	6.68%
1	21:00:00	480.49	6.62%
1	21:05:00	475.94	6.56%
1	21:10:00	471.4	6.49%
1	21:15:00	466.88	6.43%
1	21:20:00	462.37	6.37%
1	21:25:00	457.87	6.31%
1	21:30:00	453.39	6.25%
1	21:35:00	448.92	6.19%
1	21:40:00	444.46	6.12%
1	21:45:00	440.02	6.06%
1	21:50:00	435.6	6.00%
1	21:55:00	431.18	5.94%
1	22:00:00	426.79	5.88%
1	22:05:00	422.4	5.82%

1	22:10:00	4182.33	4.92%
1	22:15:00	4165.13	4.90%
1	22:20:00	4147.97	4.88%
1	22:25:00	4130.83	4.86%
1	22:30:00	4113.72	4.84%
1	22:35:00	4096.65	4.82%
1	22:40:00	4079.6	4.80%
1	22:45:00	4062.59	4.78%
1	22:50:00	4045.6	4.76%
1	22:55:00	4028.65	4.74%
1	23:00:00	4011.72	4.72%
1	23:05:00	3994.83	4.70%
1	23:10:00	3977.96	4.68%
1	23:15:00	3961.13	4.66%
1	23:20:00	3944.33	4.64%
1	23:25:00	3927.56	4.62%
1	23:30:00	3910.82	4.60%
1	23:35:00	3894.11	4.58%
1	23:40:00	3877.43	4.56%
1	23:45:00	3860.78	4.54%
1	23:50:00	3844.17	4.52%
1	23:55:00	3827.58	4.50%
1	0:00:00	3811.03	4.48%
2	0:05:00	3794.51	4.47%
2	0:10:00	3778.02	4.45%
2	0:15:00	3761.56	4.43%
2	0:20:00	3745.13	4.41%
2	0:25:00	3728.74	4.39%
2	0:30:00	3712.37	4.37%
2	0:35:00	3696.04	4.35%
2	0:40:00	3679.74	4.33%
2	0:45:00	3663.47	4.31%
2	0:50:00	3647.24	4.29%
2	0:55:00	3631.03	4.27%
2	1:00:00	3614.86	4.25%
2	1:05:00	3598.72	4.23%
2	1:10:00	3582.62	4.22%
2	1:15:00	3566.54	4.20%
2	1:20:00	3550.5	4.18%
2	1:25:00	3534.5	4.16%
2	1:30:00	3518.52	4.14%
2	1:35:00	3502.58	4.12%
2	1:40:00	3486.67	4.10%
2	1:45:00	3470.79	4.08%
2	1:50:00	3454.95	4.07%
2	1:55:00	3439.14	4.05%
2	2:00:00	3423.36	4.03%
2	2:05:00	3407.62	4.01%
2	2:10:00	3391.91	3.99%
2	2:15:00	3376.23	3.97%
2	2:20:00	3360.59	3.95%
2	2:25:00	3344.98	3.94%
2	2:30:00	3329.4	3.92%
2	2:35:00	3313.86	3.90%
2	2:40:00	3298.36	3.88%
2	2:45:00	3282.88	3.86%
2	2:50:00	3267.44	3.84%
2	2:55:00	3252.04	3.83%
2	3:00:00	3236.67	3.81%
2	3:05:00	3221.33	3.79%
2	3:10:00	3206.03	3.77%
2	3:15:00	3190.77	3.75%
2	3:20:00	3175.54	3.74%
2	3:25:00	3160.34	3.72%
2	3:30:00	3145.18	3.70%
2	3:35:00	3130.05	3.68%
2	3:40:00	3114.96	3.67%
2	3:45:00	3099.91	3.65%
2	3:50:00	3084.89	3.63%
2	3:55:00	3069.9	3.61%
2	4:00:00	3054.95	3.59%
2	4:05:00	3040.04	3.58%
2	4:10:00	3025.16	3.56%
2	4:15:00	3010.32	3.54%
2	4:20:00	2995.51	3.52%
2	4:25:00	2980.75	3.51%
2	4:30:00	2966.01	3.49%
2	4:35:00	2951.32	3.47%
2	4:40:00	2936.66	3.46%
2	4:45:00	2922.03	3.44%

1	22:10:00	3606.56	6.93%
1	22:15:00	3590.44	6.90%
1	22:20:00	3574.35	6.87%
1	22:25:00	3558.29	6.84%
1	22:30:00	3542.27	6.81%
1	22:35:00	3526.27	6.78%
1	22:40:00	3510.32	6.75%
1	22:45:00	3494.39	6.72%
1	22:50:00	3478.5	6.69%
1	22:55:00	3462.64	6.66%
1	23:00:00	3446.81	6.63%
1	23:05:00	3431.02	6.60%
1	23:10:00	3415.26	6.57%
1	23:15:00	3399.53	6.54%
1	23:20:00	3383.84	6.51%
1	23:25:00	3368.18	6.48%
1	23:30:00	3352.56	6.45%
1	23:35:00	3336.96	6.42%
1	23:40:00	3321.41	6.39%
1	23:45:00	3305.88	6.36%
1	23:50:00	3290.39	6.33%
1	23:55:00	3274.94	6.30%
1	0:00:00	3259.52	6.27%
2	0:05:00	3244.13	6.24%
2	0:10:00	3228.78	6.21%
2	0:15:00	3213.46	6.18%
2	0:20:00	3198.18	6.15%
2	0:25:00	3182.93	6.12%
2	0:30:00	3167.72	6.09%
2	0:35:00	3152.54	6.06%
2	0:40:00	3137.4	6.03%
2	0:45:00	3122.29	6.00%
2	0:50:00	3107.22	5.97%
2	0:55:00	3092.18	5.94%
2	1:00:00	3077.18	5.92%
2	1:05:00	3062.21	5.89%
2	1:10:00	3047.28	5.86%
2	1:15:00	3032.38	5.83%
2	1:20:00	3017.53	5.80%
2	1:25:00	3002.7	5.77%
2	1:30:00	2987.92	5.74%
2	1:35:00	2973.17	5.72%
2	1:40:00	2958.45	5.69%
2	1:45:00	2943.77	5.66%
2	1:50:00	2929.13	5.63%
2	1:55:00	2914.53	5.60%
2	2:00:00	2899.96	5.58%
2	2:05:00	2885.43	5.55%
2	2:10:00	2870.94	5.52%
2	2:15:00	2856.48	5.49%
2	2:20:00	2842.06	5.46%
2	2:25:00	2827.68	5.44%
2	2:30:00	2813.33	5.41%
2	2:35:00	2799.03	5.38%
2	2:40:00	2784.76	5.35%
2	2:45:00	2770.52	5.33%
2	2:50:00	2756.33	5.30%
2	2:55:00	2742.18	5.27%
2	3:00:00	2728.06	5.24%
2	3:05:00	2713.98	5.22%
2	3:10:00	2699.94	5.19%
2	3:15:00	2685.94	5.16%
2	3:20:00	2671.98	5.14%
2	3:25:00	2658.05	5.11%
2	3:30:00	2644.17	5.08%
2	3:35:00	2630.32	5.06%
2	3:40:00	2616.51	5.03%
2	3:45:00	2602.75	5.00%
2	3:50:00	2589.02	4.98%
2	3:55:00	2575.33	4.95%
2	4:00:00	2561.68	4.92%
2	4:05:00	2548.07	4.90%
2	4:10:00	2534.51	4.87%
2	4:15:00	2520.98	4.85%
2	4:20:00	2507.49	4.82%
2	4:25:00	2494.04	4.79%
2	4:30:00	2480.64	4.77%
2	4:35:00	2467.27	4.74%
2	4:40:00	2453.95	4.72%
2	4:45:00	2440.66	4.69%

1	22:10:00	1581.11	7.64%
1	22:15:00	1571.68	7.59%
1	22:20:00	1562.34	7.55%
1	22:25:00	1553.07	7.50%
1	22:30:00	1543.88	7.46%
1	22:35:00	1534.77	7.42%
1	22:40:00	1525.74	7.37%
1	22:45:00	1516.79	7.33%
1	22:50:00	1507.91	7.29%
1	22:55:00	1499.1	7.24%
1	23:00:00	1490.37	7.20%
1	23:05:00	1481.71	7.16%
1	23:10:00	1473.12	7.12%
1	23:15:00	1464.6	7.08%
1	23:20:00	1456.16	7.04%
1	23:25:00	1447.78	7.00%
1	23:30:00	1439.46	6.96%
1	23:35:00	1431.22	6.92%
1	23:40:00	1423.04	6.88%
1	23:45:00	1414.93	6.84%
1	23:50:00	1406.88	6.80%
1	23:55:00	1398.9	6.76%
1	0:00:00	1390.97	6.72%
2	0:05:00	1383.11	6.68%
2	0:10:00	1375.31	6.65%
2	0:15:00	1367.57	6.61%
2	0:20:00	1359.89	6.57%
2	0:25:00	1352.27	6.53%
2	0:30:00	1344.71	6.50%
2	0:35:00	1337.2	6.46%
2	0:40:00	1329.75	6.43%
2	0:45:00	1322.35	6.39%
2	0:50:00	1315.01	6.35%
2	0:55:00	1307.73	6.32%
2	1:00:00	1300.49	6.28%
2	1:05:00	1293.31	6.25%
2	1:10:00	1286.18	6.21%
2	1:15:00	1279.1	6.18%
2	1:20:00	1272.07	6.15%
2	1:25:00	1265.09	6.11%
2	1:30:00	1258.15	6.08%
2	1:35:00	1251.27	6.05%
2	1:40:00	1244.43	6.01%
2	1:45:00	1237.63	5.98%
2	1:50:00	1230.89	5.95%
2	1:55:00	1224.18	5.92%
2	2:00:00	1217.52	5.88%
2	2:05:00	1210.9	5.85%
2	2:10:00	1204.33	5.82%
2	2:15:00	1197.79	5.79%
2	2:20:00	1191.3	5.76%
2	2:25:00	1184.85	5.72%
2	2:30:00	1178.43	5.69%
2	2:35:00	1172.06	5.66%
2	2:40:00	1165.72	5.63%
2	2:45:00	1159.42	5.60%
2	2:50:00	1153.15	5.57%
2	2:55:00	1146.92	5.54%
2	3:00:00	1140.72	5.51%
2	3:05:00	1134.56	5.48%
2	3:10:00	1128.43	5.45%
2	3:15:00	1122.33	5.42%
2	3:20:00	1116.26	5.39%
2	3:25:00	1110.22	5.36%
2	3:30:00	1104.21	5.34%
2	3:35:00	1098.23	5.31%
2	3:40:00	1092.28	5.28%
2	3:45:00	1086.35	5.25%
2	3:50:00	1080.45	5.22%
2	3:55:00	1074.57	5.19%
2	4:00:00	1068.71	5.16%
2	4:05:00	1062.87	5.14%
2	4:10:00	1057.06	5.11%
2	4:15:00	1051.26	5.08%
2	4:20:00	1045.48	5.05%
2	4:25:00	1039.7	5.02%
2	4:30:00	1033.94	5.00%
2	4:35:00	1028.18	4.97%
2	4:40:00	1022.44	4.94%
2	4:45:00	1016.71	4.91%

1	22:10:00	418.04	5.76%
1	22:15:00	413.68	5.70%
1	22:20:00	409.35	5.64%
1	22:25:00	405.02	5.58%
1	22:30:00	400.71	5.52%
1	22:35:00	396.42	5.46%
1	22:40:00	392.14	5.40%
1	22:45:00	387.88	5.34%
1	22:50:00	383.63	5.29%
1	22:55:00	379.4	5.23%
1	23:00:00	375.19	5.17%
1	23:05:00	370.99	5.11%
1	23:10:00	366.8	5.05%
1	23:15:00	362.63	5.00%
1	23:20:00	358.48	4.94%
1	23:25:00	354.34	4.88%
1	23:30:00	350.22	4.83%
1	23:35:00	346.11	4.77%
1	23:40:00	342.03	4.71%
1	23:45:00	337.95	4.66%
1	23:50:00	333.9	4.60%
1	23:55:00	329.86	4.54%
1	0:00:00	325.83	4.49%
2	0:05:00	321.83	4.43%
2	0:10:00	317.84	4.38%
2	0:15:00	313.87	4.32%
2	0:20:00	309.91	4.27%
2	0:25:00	305.97	4.22%
2	0:30:00	302.05	4.16%
2	0:35:00	298.15	4.11%
2	0:40:00	294.26	4.05%
2	0:45:00	290.39	4.00%
2	0:50:00	286.54	3.95%
2	0:55:00	282.71	3.90%
2	1:00:00	278.89	3.84%
2	1:05:00	275.1	3.79%
2	1:10:00	271.32	3.74%
2	1:15:00	267.56	3.69%
2	1:20:00	263.82	3.63%
2	1:25:00	260.09	3.58%
2	1:30:00	256.39	3.53%
2	1:35:00	252.7	3.48%
2	1:40:00	249.04	3.43%
2	1:45:00	245.39	3.38%
2	1:50:00	241.76	3.33%
2	1:55:00	238.15	3.28%
2	2:00:00	234.56	3.23%
2	2:05:00	230.99	3.18%
2	2:10:00	227.44	3.13%
2	2:15:00	223.91	3.08%
2	2:20:00	220.4	3.04%
2	2:25:00	216.91	2.99%
2	2:30:00	213.45	2.94%
2	2:35:00	210	2.89%
2	2:40:00	206.57	2.85%
2	2:45:00	203.17	2.80%
2	2:50:00	199.78	2.75%
2	2:55:00	196.42	2.71%
2	3:00:00	193.08	2.66%
2	3:05:00	189.76	2.61%
2	3:10:00	186.46	2.57%
2	3:15:00	183.18	2.52%
2	3:20:00	179.93	2.48%
2	3:25:00	176.7	2.43%
2	3:30:00	173.49	2.39%
2	3:35:00	170.3	2.35%
2	3:40:00	167.14	2.30%
2	3:45:00	164	2.26%
2	3:50:00	160.88	2.22%
2	3:55:00	157.79	2.17%
2	4:00:00	154.73	2.13%
2	4:05:00	151.68	2.09%
2	4:10:00	148.66	2.05%
2	4:15:00	145.67	2.01%
2	4:20:00	142.7	1.97%
2	4:25:00	139.76	1.93%
2	4:30:00	136.84	1.89%
2	4:35:00	133.95	1.85%
2	4:40:00	131.08	1.81%
2	4:45:00	128.24	1.77%

2	4:50:00	2907.45	3.42%
2	4:55:00	2892.9	3.40%
2	5:00:00	2878.38	3.39%
2	5:05:00	2863.91	3.37%
2	5:10:00	2849.47	3.35%
2	5:15:00	2835.07	3.34%
2	5:20:00	2820.7	3.32%
2	5:25:00	2806.38	3.30%
2	5:30:00	2792.09	3.29%
2	5:35:00	2777.84	3.27%
2	5:40:00	2763.63	3.25%
2	5:45:00	2749.45	3.24%
2	5:50:00	2735.31	3.22%
2	5:55:00	2721.21	3.20%
2	6:00:00	2707.15	3.19%
2	6:05:00	2693.13	3.17%
2	6:10:00	2679.15	3.15%
2	6:15:00	2665.21	3.14%
2	6:20:00	2651.3	3.12%
2	6:25:00	2637.43	3.10%
2	6:30:00	2623.61	3.09%
2	6:35:00	2609.82	3.07%
2	6:40:00	2596.07	3.05%
2	6:45:00	2582.36	3.04%
2	6:50:00	2568.69	3.02%
2	6:55:00	2555.07	3.01%
2	7:00:00	2541.48	2.99%
2	7:05:00	2527.93	2.97%
2	7:10:00	2514.42	2.96%
2	7:15:00	2500.95	2.94%
2	7:20:00	2487.52	2.93%
2	7:25:00	2474.14	2.91%
2	7:30:00	2460.79	2.90%
2	7:35:00	2447.49	2.88%
2	7:40:00	2434.22	2.86%
2	7:45:00	2421	2.85%
2	7:50:00	2407.82	2.83%
2	7:55:00	2394.68	2.82%
2	8:00:00	2381.58	2.80%
2	8:05:00	2368.53	2.79%
2	8:10:00	2355.52	2.77%
2	8:15:00	2342.55	2.76%
2	8:20:00	2329.62	2.74%
2	8:25:00	2316.73	2.73%
2	8:30:00	2303.89	2.71%
2	8:35:00	2291.09	2.70%
2	8:40:00	2278.33	2.68%
2	8:45:00	2265.62	2.67%
2	8:50:00	2252.95	2.65%
2	8:55:00	2240.33	2.64%
2	9:00:00	2227.74	2.62%
2	9:05:00	2215.21	2.61%
2	9:10:00	2202.71	2.59%
2	9:15:00	2190.26	2.58%
2	9:20:00	2177.86	2.56%
2	9:25:00	2165.5	2.55%
2	9:30:00	2153.19	2.53%
2	9:35:00	2140.92	2.52%
2	9:40:00	2128.69	2.50%
2	9:45:00	2116.51	2.49%
2	9:50:00	2104.38	2.48%
2	9:55:00	2092.3	2.46%
2	10:00:00	2080.26	2.45%
2	10:05:00	2068.26	2.43%
2	10:10:00	2056.32	2.42%
2	10:15:00	2044.42	2.41%
2	10:20:00	2032.56	2.39%
2	10:25:00	2020.76	2.38%
2	10:30:00	2009	2.36%
2	10:35:00	1997.29	2.35%
2	10:40:00	1985.63	2.34%
2	10:45:00	1974.02	2.32%
2	10:50:00	1962.46	2.31%
2	10:55:00	1950.94	2.30%
2	11:00:00	1939.47	2.28%
2	11:05:00	1928.06	2.27%
2	11:10:00	1916.69	2.26%
2	11:15:00	1905.37	2.24%
2	11:20:00	1894.11	2.23%
2	11:25:00	1882.89	2.22%

2	4:50:00	2427.42	4.67%
2	4:55:00	2414.22	4.64%
2	5:00:00	2401.06	4.62%
2	5:05:00	2387.94	4.59%
2	5:10:00	2374.87	4.57%
2	5:15:00	2361.83	4.54%
2	5:20:00	2348.84	4.52%
2	5:25:00	2335.89	4.49%
2	5:30:00	2322.99	4.47%
2	5:35:00	2310.12	4.44%
2	5:40:00	2297.3	4.42%
2	5:45:00	2284.53	4.39%
2	5:50:00	2271.79	4.37%
2	5:55:00	2259.1	4.34%
2	6:00:00	2246.45	4.32%
2	6:05:00	2233.85	4.29%
2	6:10:00	2221.29	4.27%
2	6:15:00	2208.78	4.25%
2	6:20:00	2196.31	4.22%
2	6:25:00	2183.88	4.20%
2	6:30:00	2171.5	4.17%
2	6:35:00	2159.16	4.15%
2	6:40:00	2146.87	4.13%
2	6:45:00	2134.63	4.10%
2	6:50:00	2122.43	4.08%
2	6:55:00	2110.27	4.06%
2	7:00:00	2098.16	4.03%
2	7:05:00	2086.1	4.01%
2	7:10:00	2074.08	3.99%
2	7:15:00	2062.12	3.96%
2	7:20:00	2050.19	3.94%
2	7:25:00	2038.32	3.92%
2	7:30:00	2026.49	3.90%
2	7:35:00	2014.71	3.87%
2	7:40:00	2002.98	3.85%
2	7:45:00	1991.29	3.83%
2	7:50:00	1979.66	3.81%
2	7:55:00	1968.07	3.78%
2	8:00:00	1956.53	3.76%
2	8:05:00	1945.04	3.74%
2	8:10:00	1933.6	3.72%
2	8:15:00	1922.21	3.70%
2	8:20:00	1910.87	3.67%
2	8:25:00	1899.58	3.65%
2	8:30:00	1888.34	3.63%
2	8:35:00	1877.15	3.61%
2	8:40:00	1866.01	3.59%
2	8:45:00	1854.92	3.57%
2	8:50:00	1843.88	3.54%
2	8:55:00	1832.9	3.52%
2	9:00:00	1821.97	3.50%
2	9:05:00	1811.09	3.48%
2	9:10:00	1800.26	3.46%
2	9:15:00	1789.49	3.44%
2	9:20:00	1778.77	3.42%
2	9:25:00	1768.11	3.40%
2	9:30:00	1757.5	3.38%
2	9:35:00	1746.94	3.36%
2	9:40:00	1736.44	3.34%
2	9:45:00	1726	3.32%
2	9:50:00	1715.61	3.30%
2	9:55:00	1705.27	3.28%
2	10:00:00	1695	3.26%
2	10:05:00	1684.78	3.24%
2	10:10:00	1674.62	3.22%
2	10:15:00	1664.51	3.20%
2	10:20:00	1654.47	3.18%
2	10:25:00	1644.49	3.16%
2	10:30:00	1634.56	3.14%
2	10:35:00	1624.7	3.12%
2	10:40:00	1614.89	3.10%
2	10:45:00	1605.17	3.09%
2	10:50:00	1595.54	3.07%
2	10:55:00	1585.99	3.05%
2	11:00:00	1576.52	3.03%
2	11:05:00	1567.13	3.01%
2	11:10:00	1557.82	2.99%
2	11:15:00	1548.59	2.98%
2	11:20:00	1539.44	2.96%
2	11:25:00	1530.37	2.94%

2	4:50:00	1010.98	4.88%
2	4:55:00	1005.26	4.86%
2	5:00:00	999.56	4.83%
2	5:05:00	993.86	4.80%
2	5:10:00	988.17	4.77%
2	5:15:00	982.49	4.75%
2	5:20:00	976.83	4.72%
2	5:25:00	971.17	4.69%
2	5:30:00	965.52	4.67%
2	5:35:00	959.88	4.64%
2	5:40:00	954.25	4.61%
2	5:45:00	948.63	4.58%
2	5:50:00	943.02	4.56%
2	5:55:00	937.42	4.53%
2	6:00:00	931.83	4.50%
2	6:05:00	926.25	4.48%
2	6:10:00	920.68	4.45%
2	6:15:00	915.12	4.42%
2	6:20:00	909.57	4.39%
2	6:25:00	904.03	4.37%
2	6:30:00	898.5	4.34%
2	6:35:00	892.98	4.31%
2	6:40:00	887.47	4.29%
2	6:45:00	881.97	4.26%
2	6:50:00	876.48	4.24%
2	6:55:00	871	4.21%
2	7:00:00	865.53	4.18%
2	7:05:00	860.07	4.16%
2	7:10:00	854.62	4.13%
2	7:15:00	849.18	4.10%
2	7:20:00	843.76	4.08%
2	7:25:00	838.34	4.05%
2	7:30:00	832.93	4.02%
2	7:35:00	827.53	4.00%
2	7:40:00	822.15	3.97%
2	7:45:00	816.77	3.95%
2	7:50:00	811.41	3.92%
2	7:55:00	806.05	3.89%
2	8:00:00	800.71	3.87%
2	8:05:00	795.38	3.84%
2	8:10:00	790.05	3.82%
2	8:15:00	784.74	3.79%
2	8:20:00	779.44	3.77%
2	8:25:00	774.15	3.74%
2	8:30:00	768.87	3.72%
2	8:35:00	763.6	3.69%
2	8:40:00	758.34	3.66%
2	8:45:00	753.1	3.64%
2	8:50:00	747.86	3.61%
2	8:55:00	742.64	3.59%
2	9:00:00	737.42	3.56%
2	9:05:00	732.22	3.54%
2	9:10:00	727.03	3.51%
2	9:15:00	721.85	3.49%
2	9:20:00	716.68	3.46%
2	9:25:00	711.53	3.44%
2	9:30:00	706.38	3.41%
2	9:35:00	701.24	3.39%
2	9:40:00	696.12	3.36%
2	9:45:00	691.01	3.34%
2	9:50:00	685.91	3.31%
2	9:55:00	680.82	3.29%
2	10:00:00	675.74	3.27%
2	10:05:00	670.68	3.24%
2	10:10:00	665.62	3.22%
2	10:15:00	660.58	3.19%
2	10:20:00	655.55	3.17%
2	10:25:00	650.53	3.14%
2	10:30:00	645.53	3.12%
2	10:35:00	640.53	3.09%
2	10:40:00	635.55	3.07%
2	10:45:00	630.58	3.05%
2	10:50:00	625.62	3.02%
2	10:55:00	620.67	3.00%
2	11:00:00	615.74	2.98%
2	11:05:00	610.81	2.95%
2	11:10:00	605.9	2.93%
2	11:15:00	601.01	2.90%
2	11:20:00	596.12	2.88%
2	11:25:00	591.25	2.86%

2	4:50:00	125.43	1.73%
2	4:55:00	122.64	1.69%
2	5:00:00	119.88	1.65%
2	5:05:00	117.15	1.61%
2	5:10:00	114.45	1.58%
2	5:15:00	111.77	1.54%
2	5:20:00	109.13	1.50%
2	5:25:00	106.51	1.47%
2	5:30:00	103.92	1.43%
2	5:35:00	101.36	1.40%
2	5:40:00	98.83	1.36%
2	5:45:00	96.33	1.33%
2	5:50:00	93.87	1.29%
2	5:55:00	91.43	1.26%
2	6:00:00	89.03	1.23%
2	6:05:00	86.65	1.19%
2	6:10:00	84.32	1.16%
2	6:15:00	82.03	1.13%
2	6:20:00	79.8	1.10%
2	6:25:00	77.6	1.07%
2	6:30:00	75.46	1.04%
2	6:35:00	73.36	1.01%
2	6:40:00	71.3	0.98%
2	6:45:00	69.29	0.95%
2	6:50:00	67.33	0.93%
2	6:55:00	65.4	0.90%
2	7:00:00	63.52	0.88%
2	7:05:00	61.68	0.85%
2	7:10:00	59.88	0.82%
2	7:15:00	58.12	0.80%
2	7:20:00	56.4	0.78%
2	7:25:00	54.72	0.75%
2	7:30:00	53.08	0.73%
2	7:35:00	51.47	0.71%
2	7:40:00	49.9	0.69%
2	7:45:00	48.37	0.67%
2	7:50:00	46.88	0.65%
2	7:55:00	45.42	0.63%
2	8:00:00	44	0.61%
2	8:05:00	42.61	0.59%
2	8:10:00	41.25	0.57%
2	8:15:00	39.93	0.55%
2	8:20:00	38.64	0.53%
2	8:25:00	37.38	0.52%
2	8:30:00	36.16	0.50%
2	8:35:00	34.96	0.48%
2	8:40:00	33.8	0.47%
2	8:45:00	32.66	0.45%
2	8:50:00	31.56	0.43%
2	8:55:00	30.48	0.42%
2	9:00:00	29.43	0.41%
2	9:05:00	28.41	0.39%
2	9:10:00	27.42	0.38%
2	9:15:00	26.46	0.36%
2	9:20:00	25.52	0.35%
2	9:25:00	24.6	0.34%
2	9:30:00	23.72	0.33%
2	9:35:00	22.85	0.31%
2	9:40:00	22.01	0.30%
2	9:45:00	21.2	0.29%
2	9:50:00	20.41	0.28%
2	9:55:00	19.64	0.27%
2	10:00:00	18.89	0.26%
2	10:05:00	18.17	0.25%
2	10:10:00	17.47	0.24%
2	10:15:00	16.79	0.23%
2	10:20:00	16.13	0.22%
2	10:25:00	15.49	0.21%
2	10:30:00	14.87	0.20%
2	10:35:00	14.26	0.20%
2	10:40:00	13.68	0.19%
2	10:45:00	13.12	0.18%
2	10:50:00	12.57	0.17%
2	10:55:00	12.05	0.17%
2	11:00:00	11.54	0.16%
2	11:05:00	11.04	0.15%
2	11:10:00	10.57	0.15%
2	11:15:00	10.11	0.14%
2	11:20:00	9.66	0.13%
2	11:25:00	9.23	0.13%

2	11:30:00	1871.73	2.20%
2	11:35:00	1860.61	2.19%
2	11:40:00	1849.55	2.18%
2	11:45:00	1838.54	2.16%
2	11:50:00	1827.58	2.15%
2	11:55:00	1816.68	2.14%
2	12:00:00	1805.82	2.12%
2	12:05:00	1795.02	2.11%
2	12:10:00	1784.28	2.10%
2	12:15:00	1773.58	2.09%
2	12:20:00	1762.95	2.07%
2	12:25:00	1752.36	2.06%
2	12:30:00	1741.83	2.05%
2	12:35:00	1731.36	2.04%
2	12:40:00	1720.94	2.03%
2	12:45:00	1710.58	2.01%
2	12:50:00	1700.27	2.00%
2	12:55:00	1690.02	1.99%
2	13:00:00	1679.83	1.98%
2	13:05:00	1669.7	1.96%
2	13:10:00	1659.63	1.95%
2	13:15:00	1649.61	1.94%
2	13:20:00	1639.66	1.93%
2	13:25:00	1629.76	1.92%
2	13:30:00	1619.92	1.91%
2	13:35:00	1610.16	1.89%
2	13:40:00	1600.48	1.88%
2	13:45:00	1590.89	1.87%
2	13:50:00	1581.37	1.86%
2	13:55:00	1571.94	1.85%
2	14:00:00	1562.59	1.84%
2	14:05:00	1553.33	1.83%
2	14:10:00	1544.14	1.82%
2	14:15:00	1535.03	1.81%
2	14:20:00	1525.99	1.80%
2	14:25:00	1517.03	1.79%
2	14:30:00	1508.15	1.77%
2	14:35:00	1499.34	1.76%
2	14:40:00	1490.61	1.75%
2	14:45:00	1481.95	1.74%
2	14:50:00	1473.36	1.73%
2	14:55:00	1464.84	1.72%
2	15:00:00	1456.39	1.71%
2	15:05:00	1448.01	1.70%
2	15:10:00	1439.69	1.69%
2	15:15:00	1431.45	1.68%
2	15:20:00	1423.27	1.67%
2	15:25:00	1415.15	1.67%
2	15:30:00	1407.1	1.66%
2	15:35:00	1399.11	1.65%
2	15:40:00	1391.19	1.64%
2	15:45:00	1383.33	1.63%
2	15:50:00	1375.53	1.62%
2	15:55:00	1367.79	1.61%
2	16:00:00	1360.1	1.60%
2	16:05:00	1352.48	1.59%
2	16:10:00	1344.91	1.58%
2	16:15:00	1337.41	1.57%
2	16:20:00	1329.95	1.56%
2	16:25:00	1322.56	1.56%
2	16:30:00	1315.21	1.55%
2	16:35:00	1307.92	1.54%
2	16:40:00	1300.69	1.53%
2	16:45:00	1293.5	1.52%
2	16:50:00	1286.37	1.51%
2	16:55:00	1279.29	1.51%
2	17:00:00	1272.26	1.50%
2	17:05:00	1265.27	1.49%
2	17:10:00	1258.34	1.48%
2	17:15:00	1251.45	1.47%
2	17:20:00	1244.61	1.46%
2	17:25:00	1237.82	1.46%
2	17:30:00	1231.07	1.45%
2	17:35:00	1224.36	1.44%
2	17:40:00	1217.7	1.43%
2	17:45:00	1211.08	1.43%
2	17:50:00	1204.51	1.42%
2	17:55:00	1197.97	1.41%
2	18:00:00	1191.48	1.40%
2	18:05:00	1185.02	1.39%

2	11:30:00	1521.38	2.92%
2	11:35:00	1512.46	2.91%
2	11:40:00	1503.62	2.89%
2	11:45:00	1494.85	2.87%
2	11:50:00	1486.15	2.86%
2	11:55:00	1477.52	2.84%
2	12:00:00	1468.97	2.82%
2	12:05:00	1460.49	2.81%
2	12:10:00	1452.07	2.79%
2	12:15:00	1443.72	2.78%
2	12:20:00	1435.45	2.76%
2	12:25:00	1427.23	2.74%
2	12:30:00	1419.09	2.73%
2	12:35:00	1411.01	2.71%
2	12:40:00	1402.99	2.70%
2	12:45:00	1395.03	2.68%
2	12:50:00	1387.14	2.67%
2	12:55:00	1379.31	2.65%
2	13:00:00	1371.54	2.64%
2	13:05:00	1363.83	2.62%
2	13:10:00	1356.18	2.61%
2	13:15:00	1348.58	2.59%
2	13:20:00	1341.05	2.58%
2	13:25:00	1333.57	2.56%
2	13:30:00	1326.14	2.55%
2	13:35:00	1318.78	2.54%
2	13:40:00	1311.46	2.52%
2	13:45:00	1304.2	2.51%
2	13:50:00	1296.99	2.49%
2	13:55:00	1289.83	2.48%
2	14:00:00	1282.73	2.47%
2	14:05:00	1275.67	2.45%
2	14:10:00	1268.66	2.44%
2	14:15:00	1261.7	2.43%
2	14:20:00	1254.79	2.41%
2	14:25:00	1247.93	2.40%
2	14:30:00	1241.11	2.39%
2	14:35:00	1234.34	2.37%
2	14:40:00	1227.62	2.36%
2	14:45:00	1220.93	2.35%
2	14:50:00	1214.29	2.33%
2	14:55:00	1207.7	2.32%
2	15:00:00	1201.14	2.31%
2	15:05:00	1194.63	2.30%
2	15:10:00	1188.15	2.28%
2	15:15:00	1181.72	2.27%
2	15:20:00	1175.32	2.26%
2	15:25:00	1168.97	2.25%
2	15:30:00	1162.65	2.24%
2	15:35:00	1156.36	2.22%
2	15:40:00	1150.11	2.21%
2	15:45:00	1143.9	2.20%
2	15:50:00	1137.72	2.19%
2	15:55:00	1131.57	2.18%
2	16:00:00	1125.46	2.16%
2	16:05:00	1119.37	2.15%
2	16:10:00	1113.32	2.14%
2	16:15:00	1107.29	2.13%
2	16:20:00	1101.3	2.12%
2	16:25:00	1095.33	2.11%
2	16:30:00	1089.39	2.09%
2	16:35:00	1083.47	2.08%
2	16:40:00	1077.58	2.07%
2	16:45:00	1071.71	2.06%
2	16:50:00	1065.86	2.05%
2	16:55:00	1060.04	2.04%
2	17:00:00	1054.23	2.03%
2	17:05:00	1048.44	2.02%
2	17:10:00	1042.66	2.00%
2	17:15:00	1036.89	1.99%
2	17:20:00	1031.13	1.98%
2	17:25:00	1025.38	1.97%
2	17:30:00	1019.64	1.96%
2	17:35:00	1013.91	1.95%
2	17:40:00	1008.19	1.94%
2	17:45:00	1002.48	1.93%
2	17:50:00	996.78	1.92%
2	17:55:00	991.09	1.91%
2	18:00:00	985.4	1.89%
2	18:05:00	979.73	1.88%

2	11:30:00	586.39	2.83%
2	11:35:00	581.54	2.81%
2	11:40:00	576.7	2.79%
2	11:45:00	571.88	2.76%
2	11:50:00	567.07	2.74%
2	11:55:00	562.27	2.72%
2	12:00:00	557.48	2.69%
2	12:05:00	552.71	2.67%
2	12:10:00	547.95	2.65%
2	12:15:00	543.21	2.62%
2	12:20:00	538.47	2.60%
2	12:25:00	533.75	2.58%
2	12:30:00	529.04	2.56%
2	12:35:00	524.35	2.53%
2	12:40:00	519.67	2.51%
2	12:45:00	515	2.49%
2	12:50:00	510.34	2.47%
2	12:55:00	505.7	2.44%
2	13:00:00	501.07	2.42%
2	13:05:00	496.46	2.40%
2	13:10:00	491.86	2.38%
2	13:15:00	487.27	2.35%
2	13:20:00	482.7	2.33%
2	13:25:00	478.14	2.31%
2	13:30:00	473.59	2.29%
2	13:35:00	469.06	2.27%
2	13:40:00	464.54	2.24%
2	13:45:00	460.04	2.22%
2	13:50:00	455.55	2.20%
2	13:55:00	451.07	2.18%
2	14:00:00	446.61	2.16%
2	14:05:00	442.16	2.14%
2	14:10:00	437.73	2.12%
2	14:15:00	433.31	2.09%
2	14:20:00	428.91	2.07%
2	14:25:00	424.52	2.05%
2	14:30:00	420.14	2.03%
2	14:35:00	415.78	2.01%
2	14:40:00	411.44	1.99%
2	14:45:00	407.11	1.97%
2	14:50:00	402.79	1.95%
2	14:55:00	398.49	1.93%
2	15:00:00	394.21	1.90%
2	15:05:00	389.94	1.88%
2	15:10:00	385.68	1.86%
2	15:15:00	381.44	1.84%
2	15:20:00	377.22	1.82%
2	15:25:00	373.01	1.80%
2	15:30:00	368.82	1.78%
2	15:35:00	364.64	1.76%
2	15:40:00	360.48	1.74%
2	15:45:00	356.33	1.72%
2	15:50:00	352.2	1.70%
2	15:55:00	348.09	1.68%
2	16:00:00	343.99	1.66%
2	16:05:00	339.91	1.64%
2	16:10:00	335.85	1.62%
2	16:15:00	331.8	1.60%
2	16:20:00	327.77	1.58%
2	16:25:00	323.76	1.56%
2	16:30:00	319.76	1.55%
2	16:35:00	315.78	1.53%
2	16:40:00	311.81	1.51%
2	16:45:00	307.87	1.49%
2	16:50:00	303.94	1.47%
2	16:55:00	300.03	1.45%
2	17:00:00	296.13	1.43%
2	17:05:00	292.25	1.41%
2	17:10:00	288.39	1.39%
2	17:15:00	284.55	1.37%
2	17:20:00	280.73	1.36%
2	17:25:00	276.92	1.34%
2	17:30:00	273.14	1.32%
2	17:35:00	269.37	1.30%
2	17:40:00	265.62	1.28%
2	17:45:00	261.88	1.27%
2	17:50:00	258.17	1.25%
2	17:55:00	254.47	1.23%
2	18:00:00	250.8	1.21%
2	18:05:00	247.14	1.19%

2	11:30:00	8.82	0.12%
2	11:35:00	8.42	0.12%
2	11:40:00	8.04	0.11%
2	11:45:00	7.67	0.11%
2	11:50:00	7.31	0.10%
2	11:55:00	6.96	0.10%
2	12:00:00	6.63	0.09%
2	12:05:00	6.31	0.09%
2	12:10:00	6.01	0.08%
2	12:15:00	5.71	0.08%
2	12:20:00	5.43	0.07%
2	12:25:00	5.16	0.07%
2	12:30:00	4.9	0.07%
2	12:35:00	4.65	0.06%
2	12:40:00	4.41	0.06%
2	12:45:00	4.18	0.06%
2	12:50:00	3.95	0.05%
2	12:55:00	3.74	0.05%
2	13:00:00	3.54	0.05%
2	13:05:00	3.35	0.05%
2	13:10:00	3.16	0.04%
2	13:15:00	2.99	0.04%
2	13:20:00	2.82	0.04%
2	13:25:00	2.66	0.04%
2	13:30:00	2.51	0.03%
2	13:35:00	2.36	0.03%
2	13:40:00	2.22	0.03%
2	13:45:00	2.09	0.03%
2	13:50:00	1.96	0.03%
2	13:55:00	1.84	0.03%
2	14:00:00	1.73	0.02%
2	14:05:00	1.62	0.02%
2	14:10:00	1.52	0.02%
2	14:15:00	1.42	0.02%
2	14:20:00	1.33	0.02%
2	14:25:00	1.25	0.02%
2	14:30:00	1.16	0.02%
2	14:35:00	1.09	0.02%
2	14:40:00	1.01	0.01%
2	14:45:00	0.95	0.01%
2	14:50:00	0.88	0.01%
2	14:55:00	0.82	0.01%
2	15:00:00	0.76	0.01%
2	15:05:00	0.71	0.01%
2	15:10:00	0.66	0.01%
2	15:15:00	0.61	0.01%
2	15:20:00	0.57	0.01%
2	15:25:00	0.53	0.01%
2	15:30:00	0.49	0.01%
2	15:35:00	0.45	0.01%
2	15:40:00	0.42	0.01%
2	15:45:00	0.39	0.01%
2	15:50:00	0.36	0.00%
2	15:55:00	0.33	0.00%
2	16:00:00	0.3	0.00%
2	16:05:00	0.28	0.00%
2	16:10:00	0.26	0.00%
2	16:15:00	0.24	0.00%
2	16:20:00	0.22	0.00%
2	16:25:00	0.2	0.00%
2	16:30:00	0.19	0.00%
2	16:35:00	0.17	0.00%
2	16:40:00	0.16	0.00%
2	16:45:00	0.14	0.00%
2	16:50:00	0.13	0.00%
2	16:55:00	0.12	0.00%
2	17:00:00	0.11	0.00%
2	17:05:00	0.1	0.00%
2	17:10:00	0.1	0.00%
2	17:15:00	0.09	0.00%
2	17:20:00	0.08	0.00%
2	17:25:00	0.07	0.00%
2	17:30:00	0.07	0.00%
2	17:35:00	0.06	0.00%
2	17:40:00	0.06	0.00%
2	17:45:00	0.05	0.00%
2	17:50:00	0.05	0.00%
2	17:55:00	0.05	0.00%
2	18:00:00	0.04	0.00%
2	18:05:00	0.04	0.00%

2	18:10:00	1178.61	1.39%	2	18:10:00	974.07	1.87%	2	18:10:00	243.5	1.18%	2	18:10:00	0.04	0.00%
2	18:15:00	1172.23	1.38%	2	18:15:00	968.41	1.86%	2	18:15:00	239.89	1.16%	2	18:15:00	0.03	0.00%
2	18:20:00	1165.89	1.37%	2	18:20:00	962.77	1.85%	2	18:20:00	236.29	1.14%	2	18:20:00	0.03	0.00%
2	18:25:00	1159.59	1.36%	2	18:25:00	957.13	1.84%	2	18:25:00	232.71	1.12%	2	18:25:00	0.03	0.00%
2	18:30:00	1153.32	1.36%	2	18:30:00	951.51	1.83%	2	18:30:00	229.15	1.11%	2	18:30:00	0.03	0.00%
2	18:35:00	1147.09	1.35%	2	18:35:00	945.89	1.82%	2	18:35:00	225.61	1.09%	2	18:35:00	0.03	0.00%
2	18:40:00	1140.89	1.34%	2	18:40:00	940.29	1.81%	2	18:40:00	222.09	1.07%	2	18:40:00	0.02	0.00%
2	18:45:00	1134.73	1.34%	2	18:45:00	934.69	1.80%	2	18:45:00	218.59	1.06%	2	18:45:00	0.02	0.00%
2	18:50:00	1128.59	1.33%	2	18:50:00	929.11	1.79%	2	18:50:00	215.11	1.04%	2	18:50:00	0.02	0.00%
2	18:55:00	1122.49	1.32%	2	18:55:00	923.53	1.78%	2	18:55:00	211.65	1.02%	2	18:55:00	0.02	0.00%
2	19:00:00	1116.43	1.31%	2	19:00:00	917.97	1.76%	2	19:00:00	208.22	1.01%	2	19:00:00	0.02	0.00%
2	19:05:00	1110.39	1.31%	2	19:05:00	912.41	1.75%	2	19:05:00	204.8	0.99%	2	19:05:00	0.02	0.00%
2	19:10:00	1104.38	1.30%	2	19:10:00	906.87	1.74%	2	19:10:00	201.41	0.97%	2	19:10:00	0.02	0.00%
2	19:15:00	1098.39	1.29%	2	19:15:00	901.33	1.73%	2	19:15:00	198.03	0.96%	2	19:15:00	0.02	0.00%
2	19:20:00	1092.44	1.29%	2	19:20:00	895.81	1.72%	2	19:20:00	194.68	0.94%	2	19:20:00	0.01	0.00%
2	19:25:00	1086.51	1.28%	2	19:25:00	890.29	1.71%	2	19:25:00	191.35	0.92%	2	19:25:00	0.01	0.00%
2	19:30:00	1080.61	1.27%	2	19:30:00	884.79	1.70%	2	19:30:00	188.04	0.91%	2	19:30:00	0.01	0.00%
2	19:35:00	1074.73	1.26%	2	19:35:00	879.29	1.69%	2	19:35:00	184.75	0.89%	2	19:35:00	0.01	0.00%
2	19:40:00	1068.87	1.26%	2	19:40:00	873.81	1.68%	2	19:40:00	181.49	0.88%	2	19:40:00	0.01	0.00%
2	19:45:00	1063.03	1.25%	2	19:45:00	868.33	1.67%	2	19:45:00	178.25	0.86%	2	19:45:00	0.01	0.00%
2	19:50:00	1057.21	1.24%	2	19:50:00	862.87	1.66%	2	19:50:00	175.03	0.85%	2	19:50:00	0.01	0.00%
2	19:55:00	1051.41	1.24%	2	19:55:00	857.41	1.65%	2	19:55:00	171.83	0.83%	2	19:55:00	0.01	0.00%
2	20:00:00	1045.63	1.23%	2	20:00:00	851.97	1.64%	2	20:00:00	168.66	0.81%	2	20:00:00	0.01	0.00%
2	20:05:00	1039.86	1.22%	2	20:05:00	846.54	1.63%	2	20:05:00	165.51	0.80%	2	20:05:00	0.01	0.00%
2	20:10:00	1034.09	1.22%	2	20:10:00	841.11	1.62%	2	20:10:00	162.38	0.78%	2	20:10:00	0.01	0.00%
2	20:15:00	1028.34	1.21%	2	20:15:00	835.7	1.61%	2	20:15:00	159.28	0.77%	2	20:15:00	0.01	0.00%
2	20:20:00	1022.59	1.20%	2	20:20:00	830.3	1.60%	2	20:20:00	156.2	0.75%	2	20:20:00	0.01	0.00%
2	20:25:00	1016.86	1.20%	2	20:25:00	824.91	1.59%	2	20:25:00	153.14	0.74%	2	20:25:00	0.01	0.00%
2	20:30:00	1011.13	1.19%	2	20:30:00	819.52	1.58%	2	20:30:00	150.11	0.73%	2	20:30:00	0.01	0.00%
2	20:35:00	1005.42	1.18%	2	20:35:00	814.15	1.57%	2	20:35:00	147.1	0.71%	2	20:35:00	0.01	0.00%
2	20:40:00	999.71	1.18%	2	20:40:00	808.79	1.55%	2	20:40:00	144.12	0.70%	2	20:40:00	0.01	0.00%
2	20:45:00	994.01	1.17%	2	20:45:00	803.44	1.54%	2	20:45:00	141.17	0.68%	2	20:45:00	0.01	0.00%
2	20:50:00	988.32	1.16%	2	20:50:00	798.11	1.53%	2	20:50:00	138.24	0.67%	2	20:50:00	0.01	0.00%
2	20:55:00	982.64	1.16%	2	20:55:00	792.78	1.52%	2	20:55:00	135.33	0.65%	2	20:55:00	0.01	0.00%
2	21:00:00	976.98	1.15%	2	21:00:00	787.46	1.51%	2	21:00:00	132.45	0.64%	2	21:00:00	0.01	0.00%
2	21:05:00	971.32	1.14%	2	21:05:00	782.15	1.50%	2	21:05:00	129.6	0.63%	2	21:05:00	0.01	0.00%
2	21:10:00	965.67	1.14%	2	21:10:00	776.86	1.49%	2	21:10:00	126.77	0.61%	2	21:10:00	0.01	0.00%
2	21:15:00	960.03	1.13%	2	21:15:00	771.57	1.48%	2	21:15:00	123.98	0.60%	2	21:15:00	0.01	0.00%
2	21:20:00	954.4	1.12%	2	21:20:00	766.3	1.47%	2	21:20:00	121.2	0.59%	2	21:20:00	0.01	0.00%
2	21:25:00	948.78	1.12%	2	21:25:00	761.04	1.46%	2	21:25:00	118.46	0.57%	2	21:25:00	0.01	0.00%
2	21:30:00	943.17	1.11%	2	21:30:00	755.78	1.45%	2	21:30:00	115.74	0.56%	2	21:30:00	0.01	0.00%
2	21:35:00	937.57	1.10%	2	21:35:00	750.54	1.44%	2	21:35:00	113.05	0.55%	2	21:35:00	0.01	0.00%
2	21:40:00	931.98	1.10%	2	21:40:00	745.31	1.43%	2	21:40:00	110.39	0.53%	2	21:40:00	0	0.00%
2	21:45:00	926.4	1.09%	2	21:45:00	740.09	1.42%	2	21:45:00	107.76	0.52%	2	21:45:00	0	0.00%
2	21:50:00	920.83	1.08%	2	21:50:00	734.89	1.41%	2	21:50:00	105.16	0.51%	2	21:50:00	0	0.00%
2	21:55:00	915.27	1.08%	2	21:55:00	729.69	1.40%	2	21:55:00	102.59	0.50%	2	21:55:00	0	0.00%
2	22:00:00	909.72	1.07%	2	22:00:00	724.5	1.39%	2	22:00:00	100.04	0.48%	2	22:00:00	0	0.00%
2	22:05:00	904.17	1.06%	2	22:05:00	719.33	1.38%	2	22:05:00	97.53	0.47%	2	22:05:00	0	0.00%
2	22:10:00	898.64	1.06%	2	22:10:00	714.16	1.37%	2	22:10:00	95.05	0.46%	2	22:10:00	0	0.00%
2	22:15:00	893.12	1.05%	2	22:15:00	709.01	1.36%	2	22:15:00	92.6	0.45%	2	22:15:00	0	0.00%
2	22:20:00	887.61	1.04%	2	22:20:00	703.87	1.35%	2	22:20:00	90.18	0.44%	2	22:20:00	0	0.00%
2	22:25:00	882.11	1.04%	2	22:25:00	698.74	1.34%	2	22:25:00	87.79	0.42%	2	22:25:00	0	0.00%
2	22:30:00	876.62	1.03%	2	22:30:00	693.63	1.33%	2	22:30:00	85.43	0.41%	2	22:30:00	0	0.00%
2	22:35:00	871.14	1.03%	2	22:35:00	688.52	1.32%	2	22:35:00	83.12	0.40%	2	22:35:00	0	0.00%
2	22:40:00	865.67	1.02%	2	22:40:00	683.42	1.31%	2	22:40:00	80.86	0.39%	2	22:40:00	0	0.00%
2	22:45:00	860.21	1.01%	2	22:45:00	678.34	1.30%	2	22:45:00	78.65	0.38%	2	22:45:00	0	0.00%
2	22:50:00	854.76	1.01%	2	22:50:00	673.27	1.29%	2	22:50:00	76.48	0.37%	2	22:50:00	0	0.00%
2	22:55:00	849.33	1.00%	2	22:55:00	668.21	1.28%	2	22:55:00	74.36	0.36%	2	22:55:00	0	0.00%
2	23:00:00	843.9	0.99%	2	23:00:00	663.16	1.27%	2	23:00:00	72.28	0.35%	2	23:00:00	0	0.00%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 4A (UPPER PORTION)

Max Volume(CF)= 46680.76

Table - Node POND_4A

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	37.14	0.08%
0	0:15:00	566.46	1.21%
0	0:20:00	1698.93	3.64%
0	0:25:00	2884.35	6.18%
0	0:30:00	4087.37	8.76%
0	0:35:00	5435.51	11.64%
0	0:40:00	9222.78	19.76%
0	0:45:00	22867.52	48.99%
0	0:50:00	39605.68	84.84%
0	0:55:00	45880.09	98.28%
0	1:00:00	46680.76	100.00%
0	1:05:00	44405.9	95.13%
0	1:10:00	41159.84	88.17%
0	1:15:00	36813.13	78.86%
0	1:20:00	31258.12	66.96%
0	1:25:00	25655.6	54.96%
0	1:30:00	20687.93	44.32%
0	1:35:00	16716.29	35.81%
0	1:40:00	13793.85	29.55%
0	1:45:00	11880.37	25.45%
0	1:50:00	10964.4	23.49%
0	1:55:00	10484.2	22.46%
0	2:00:00	10191.53	21.83%
0	2:05:00	10024.77	21.48%
0	2:10:00	9796.03	20.99%
0	2:15:00	9620.58	20.61%
0	2:20:00	9445.07	20.23%
0	2:25:00	9324.3	19.97%
0	2:30:00	9217.77	19.75%
0	2:35:00	9137.97	19.58%
0	2:40:00	9069.36	19.43%
0	2:45:00	9012.46	19.31%
0	2:50:00	8964.61	19.20%
0	2:55:00	8920.15	19.11%
0	3:00:00	8883.51	19.03%
0	3:05:00	8844.76	18.95%
0	3:10:00	8811.88	18.88%
0	3:15:00	8771.43	18.79%
0	3:20:00	8738.32	18.72%
0	3:25:00	8696.3	18.63%
0	3:30:00	8663.1	18.56%
0	3:35:00	8620.05	18.47%
0	3:40:00	8586.78	18.39%
0	3:45:00	8543.12	18.30%
0	3:50:00	8509.71	18.23%
0	3:55:00	8465.76	18.14%
0	4:00:00	8432.13	18.06%
0	4:05:00	8388.16	17.97%
0	4:10:00	8354.2	17.90%
0	4:15:00	8310.45	17.80%
0	4:20:00	8276.06	17.73%
0	4:25:00	8232.69	17.64%

5-Year: 97%; 72 Hours

0

Max Volume(CF)= 14017.26

Table - Node POND_4A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	16.91	0.12%
0	0:15:00	187.39	1.34%
0	0:20:00	717.44	5.12%
0	0:25:00	1533.56	10.94%
0	0:30:00	2481.8	17.71%
0	0:35:00	3499.01	24.96%
0	0:40:00	5318.93	37.95%
0	0:45:00	9966.78	71.10%
0	0:50:00	13114.34	93.56%
0	0:55:00	13651.64	97.39%
0	1:00:00	14017.26	100.00%
0	1:05:00	13775.82	98.28%
0	1:10:00	13154.37	93.84%
0	1:15:00	12226.72	87.23%
0	1:20:00	11300.11	80.62%
0	1:25:00	10689.55	76.26%
0	1:30:00	10290.39	73.41%
0	1:35:00	10027.52	71.54%
0	1:40:00	9834.54	70.16%
0	1:45:00	9708.17	69.26%
0	1:50:00	9610.66	68.56%
0	1:55:00	9540.64	68.06%
0	2:00:00	9490.76	67.71%
0	2:05:00	9459.83	67.49%
0	2:10:00	9376.9	66.90%
0	2:15:00	9309.71	66.42%
0	2:20:00	9212.67	65.72%
0	2:25:00	9148.82	65.27%
0	2:30:00	9077.76	64.76%
0	2:35:00	9027.93	64.41%
0	2:40:00	8975.88	64.03%
0	2:45:00	8935.76	63.75%
0	2:50:00	8895.35	63.46%
0	2:55:00	8860.2	63.21%
0	3:00:00	8825.11	62.96%
0	3:05:00	8788.44	62.70%
0	3:10:00	8753.22	62.45%
0	3:15:00	8714.23	62.17%
0	3:20:00	8679.19	61.92%
0	3:25:00	8638.51	61.63%
0	3:30:00	8603.77	61.38%
0	3:35:00	8561.86	61.08%
0	3:40:00	8527.4	60.83%
0	3:45:00	8484.63	60.53%
0	3:50:00	8450.38	60.29%
0	3:55:00	8407.06	59.98%
0	4:00:00	8372.91	59.73%
0	4:05:00	8329.31	59.42%
0	4:10:00	8295.13	59.18%
0	4:15:00	8251.5	58.87%
0	4:20:00	8217.17	58.62%
0	4:25:00	8173.68	58.31%

EURV 97% 72 Hours

Max Volume(CF)= 7883.47

Table - Node POND_4A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	9.74	0.12%
0	0:15:00	78.87	1.00%
0	0:20:00	347.15	4.40%
0	0:25:00	893.53	11.33%
0	0:30:00	1660.07	21.06%
0	0:35:00	2541.06	32.23%
0	0:40:00	3928.39	49.83%
0	0:45:00	6695.79	84.93%
0	0:50:00	7732.31	98.08%
0	0:55:00	6331.89	80.32%
0	1:00:00	5015.05	63.61%
0	1:05:00	6115.14	77.57%
0	1:10:00	6336.52	80.38%
0	1:15:00	6767.16	85.84%
0	1:20:00	6942.04	88.06%
0	1:25:00	7097.55	90.03%
0	1:30:00	7241.35	91.85%
0	1:35:00	7309.92	92.72%
0	1:40:00	7450.25	94.50%
0	1:45:00	7482.3	94.91%
0	1:50:00	7617.59	96.63%
0	1:55:00	7633.53	96.83%
0	2:00:00	7766.3	98.51%
0	2:05:00	7777.44	98.66%
0	2:10:00	7872.36	99.86%
0	2:15:00	7841.85	99.47%
0	2:20:00	7883.47	100.00%
0	2:25:00	7819.68	99.19%
0	2:30:00	7848.99	99.56%
0	2:35:00	7771.47	98.58%
0	2:40:00	7796.07	98.89%
0	2:45:00	7712.15	97.83%
0	2:50:00	7733.72	98.10%
0	2:55:00	7647.44	97.01%
0	3:00:00	7665.88	97.24%
0	3:05:00	7579.88	96.15%
0	3:10:00	7594.56	96.34%
0	3:15:00	7510.76	95.27%
0	3:20:00	7520.94	95.40%
0	3:25:00	7440.78	94.38%
0	3:30:00	7445.74	94.45%
0	3:35:00	7370.3	93.49%
0	3:40:00	7369.48	93.48%
0	3:45:00	7299.53	92.59%
0	3:50:00	7292.51	92.50%
0	3:55:00	7228.58	91.69%
0	4:00:00	7215.05	91.52%
0	4:05:00	7157.57	90.79%
0	4:10:00	7137.49	90.54%
0	4:15:00	7086.32	89.89%
0	4:20:00	7059.93	89.55%
0	4:25:00	7014.92	88.98%

0	4:30:00	8197.8	17.56%
0	4:35:00	8154.95	17.47%
0	4:40:00	8119.49	17.39%
0	4:45:00	8077.26	17.30%
0	4:50:00	8041.2	17.23%
0	4:55:00	7999.66	17.14%
0	5:00:00	7962.97	17.06%
0	5:05:00	7922.15	16.97%
0	5:10:00	7884.85	16.89%
0	5:15:00	7844.76	16.81%
0	5:20:00	7806.87	16.72%
0	5:25:00	7767.49	16.64%
0	5:30:00	7729.05	16.56%
0	5:35:00	7690.35	16.47%
0	5:40:00	7651.41	16.39%
0	5:45:00	7613.34	16.31%
0	5:50:00	7573.98	16.23%
0	5:55:00	7536.48	16.14%
0	6:00:00	7496.77	16.06%
0	6:05:00	7459.76	15.98%
0	6:10:00	7419.79	15.89%
0	6:15:00	7383.19	15.82%
0	6:20:00	7343.04	15.73%
0	6:25:00	7306.78	15.65%
0	6:30:00	7266.54	15.57%
0	6:35:00	7230.54	15.49%
0	6:40:00	7190.29	15.40%
0	6:45:00	7154.46	15.33%
0	6:50:00	7114.28	15.24%
0	6:55:00	7078.56	15.16%
0	7:00:00	7038.51	15.08%
0	7:05:00	7002.84	15.00%
0	7:10:00	6963	14.92%
0	7:15:00	6927.31	14.84%
0	7:20:00	6887.72	14.75%
0	7:25:00	6851.97	14.68%
0	7:30:00	6812.69	14.59%
0	7:35:00	6776.83	14.52%
0	7:40:00	6737.88	14.43%
0	7:45:00	6701.9	14.36%
0	7:50:00	6663.3	14.27%
0	7:55:00	6627.17	14.20%
0	8:00:00	6588.96	14.11%
0	8:05:00	6552.68	14.04%
0	8:10:00	6514.86	13.96%
0	8:15:00	6478.43	13.88%
0	8:20:00	6441.01	13.80%
0	8:25:00	6404.43	13.72%
0	8:30:00	6367.4	13.64%
0	8:35:00	6330.69	13.56%
0	8:40:00	6294.03	13.48%
0	8:45:00	6257.2	13.40%
0	8:50:00	6220.9	13.33%
0	8:55:00	6183.98	13.25%
0	9:00:00	6148.01	13.17%
0	9:05:00	6111.03	13.09%
0	9:10:00	6075.36	13.01%
0	9:15:00	6038.34	12.94%
0	9:20:00	6002.95	12.86%
0	9:25:00	5965.92	12.78%

0	4:30:00	8139.1	58.06%
0	4:35:00	8095.92	57.76%
0	4:40:00	8060.99	57.51%
0	4:45:00	8018.25	57.20%
0	4:50:00	7982.89	56.95%
0	4:55:00	7940.7	56.65%
0	5:00:00	7904.85	56.39%
0	5:05:00	7863.27	56.10%
0	5:10:00	7826.9	55.84%
0	5:15:00	7785.98	55.55%
0	5:20:00	7749.08	55.28%
0	5:25:00	7708.84	55.00%
0	5:30:00	7671.41	54.73%
0	5:35:00	7631.85	54.45%
0	5:40:00	7593.92	54.18%
0	5:45:00	7555.02	53.90%
0	5:50:00	7516.62	53.62%
0	5:55:00	7478.34	53.35%
0	6:00:00	7439.53	53.07%
0	6:05:00	7401.82	52.81%
0	6:10:00	7362.66	52.53%
0	6:15:00	7325.47	52.26%
0	6:20:00	7286.03	51.98%
0	6:25:00	7249.28	51.72%
0	6:30:00	7209.64	51.43%
0	6:35:00	7173.26	51.17%
0	6:40:00	7133.49	50.89%
0	6:45:00	7097.41	50.63%
0	6:50:00	7057.59	50.35%
0	6:55:00	7021.74	50.09%
0	7:00:00	6981.94	49.81%
0	7:05:00	6946.25	49.55%
0	7:10:00	6906.53	49.27%
0	7:15:00	6870.94	49.02%
0	7:20:00	6831.38	48.74%
0	7:25:00	6795.82	48.48%
0	7:30:00	6756.46	48.20%
0	7:35:00	6720.89	47.95%
0	7:40:00	6681.78	47.67%
0	7:45:00	6646.16	47.41%
0	7:50:00	6607.35	47.14%
0	7:55:00	6571.64	46.88%
0	8:00:00	6533.17	46.61%
0	8:05:00	6497.36	46.35%
0	8:10:00	6459.24	46.08%
0	8:15:00	6423.31	45.82%
0	8:20:00	6385.56	45.55%
0	8:25:00	6349.51	45.30%
0	8:30:00	6312.14	45.03%
0	8:35:00	6275.96	44.77%
0	8:40:00	6238.96	44.51%
0	8:45:00	6202.66	44.25%
0	8:50:00	6166.03	43.99%
0	8:55:00	6129.61	43.73%
0	9:00:00	6093.35	43.47%
0	9:05:00	6056.83	43.21%
0	9:10:00	6020.91	42.95%
0	9:15:00	5984.32	42.69%
0	9:20:00	5948.72	42.44%
0	9:25:00	5912.08	42.18%

0	4:30:00	6982.5	88.57%
0	4:35:00	6943.35	88.07%
0	4:40:00	6905.34	87.59%
0	4:45:00	6871.59	87.16%
0	4:50:00	6828.52	86.62%
0	4:55:00	6799.61	86.25%
0	5:00:00	6752.11	85.65%
0	5:05:00	6727.41	85.34%
0	5:10:00	6676.18	84.69%
0	5:15:00	6654.97	84.42%
0	5:20:00	6600.75	83.73%
0	5:25:00	6582.32	83.50%
0	5:30:00	6525.86	82.78%
0	5:35:00	6509.49	82.57%
0	5:40:00	6451.51	81.84%
0	5:45:00	6436.48	81.65%
0	5:50:00	6377.72	80.90%
0	5:55:00	6363.34	80.72%
0	6:00:00	6304.46	79.97%
0	6:05:00	6290.07	79.79%
0	6:10:00	6231.73	79.05%
0	6:15:00	6216.72	78.86%
0	6:20:00	6159.51	78.13%
0	6:25:00	6143.33	77.93%
0	6:30:00	6087.75	77.22%
0	6:35:00	6069.93	77.00%
0	6:40:00	6016.43	76.32%
0	6:45:00	5996.59	76.07%
0	6:50:00	5945.52	75.42%
0	6:55:00	5923.33	75.14%
0	7:00:00	5874.96	74.52%
0	7:05:00	5850.21	74.21%
0	7:10:00	5804.73	73.63%
0	7:15:00	5777.29	73.28%
0	7:20:00	5734.79	72.74%
0	7:25:00	5704.59	72.36%
0	7:30:00	5665.08	71.86%
0	7:35:00	5632.18	71.44%
0	7:40:00	5595.59	70.98%
0	7:45:00	5560.07	70.53%
0	7:50:00	5526.27	70.10%
0	7:55:00	5488.32	69.62%
0	8:00:00	5457.1	69.22%
0	8:05:00	5416.96	68.71%
0	8:10:00	5388.05	68.35%
0	8:15:00	5346	67.81%
0	8:20:00	5319.1	67.47%
0	8:25:00	5275.47	66.92%
0	8:30:00	5250.24	66.60%
0	8:35:00	5205.4	66.03%
0	8:40:00	5181.46	65.73%
0	8:45:00	5135.77	65.15%
0	8:50:00	5112.75	64.85%
0	8:55:00	5066.62	64.27%
0	9:00:00	5044.12	63.98%
0	9:05:00	4997.92	63.40%
0	9:10:00	4975.58	63.11%
0	9:15:00	4929.68	62.53%
0	9:20:00	4907.14	62.25%
0	9:25:00	4861.91	61.67%

0	9:30:00	5930.78	12.70%
0	9:35:00	5893.79	12.63%
0	9:40:00	5858.85	12.55%
0	9:45:00	5821.92	12.47%
0	9:50:00	5787.16	12.40%
0	9:55:00	5750.34	12.32%
0	10:00:00	5715.72	12.24%
0	10:05:00	5679.03	12.17%
0	10:10:00	5644.52	12.09%
0	10:15:00	5608	12.01%
0	10:20:00	5573.58	11.94%
0	10:25:00	5537.25	11.86%
0	10:30:00	5502.89	11.79%
0	10:35:00	5466.78	11.71%
0	10:40:00	5432.45	11.64%
0	10:45:00	5396.58	11.56%
0	10:50:00	5362.27	11.49%
0	10:55:00	5326.66	11.41%
0	11:00:00	5292.36	11.34%
0	11:05:00	5257.02	11.26%
0	11:10:00	5222.71	11.19%
0	11:15:00	5187.65	11.11%
0	11:20:00	5153.34	11.04%
0	11:25:00	5118.56	10.97%
0	11:30:00	5084.24	10.89%
0	11:35:00	5049.74	10.82%
0	11:40:00	5015.41	10.74%
0	11:45:00	4981.19	10.67%
0	11:50:00	4946.87	10.60%
0	11:55:00	4912.93	10.52%
0	12:00:00	4878.63	10.45%
0	12:05:00	4844.96	10.38%
0	12:10:00	4810.71	10.31%
0	12:15:00	4777.29	10.23%
0	12:20:00	4743.1	10.16%
0	12:25:00	4709.93	10.09%
0	12:30:00	4675.82	10.02%
0	12:35:00	4642.86	9.95%
0	12:40:00	4608.85	9.87%
0	12:45:00	4576.1	9.80%
0	12:50:00	4542.21	9.73%
0	12:55:00	4509.64	9.66%
0	13:00:00	4475.9	9.59%
0	13:05:00	4443.48	9.52%
0	13:10:00	4409.91	9.45%
0	13:15:00	4377.63	9.38%
0	13:20:00	4344.24	9.31%
0	13:25:00	4312.09	9.24%
0	13:30:00	4278.91	9.17%
0	13:35:00	4246.86	9.10%
0	13:40:00	4213.91	9.03%
0	13:45:00	4181.94	8.96%
0	13:50:00	4149.24	8.89%
0	13:55:00	4117.34	8.82%
0	14:00:00	4084.9	8.75%
0	14:05:00	4053.07	8.68%
0	14:10:00	4020.88	8.61%
0	14:15:00	3989.11	8.55%
0	14:20:00	3957.2	8.48%
0	14:25:00	3925.49	8.41%

0	9:30:00	5876.76	41.93%
0	9:35:00	5840.11	41.66%
0	9:40:00	5805.06	41.41%
0	9:45:00	5768.42	41.15%
0	9:50:00	5733.59	40.90%
0	9:55:00	5697	40.64%
0	10:00:00	5662.38	40.40%
0	10:05:00	5625.87	40.14%
0	10:10:00	5591.41	39.89%
0	10:15:00	5555.01	39.63%
0	10:20:00	5520.69	39.38%
0	10:25:00	5484.43	39.13%
0	10:30:00	5450.22	38.88%
0	10:35:00	5414.14	38.62%
0	10:40:00	5380.01	38.38%
0	10:45:00	5344.13	38.13%
0	10:50:00	5310.06	37.88%
0	10:55:00	5274.39	37.63%
0	11:00:00	5240.36	37.39%
0	11:05:00	5204.94	37.13%
0	11:10:00	5170.93	36.89%
0	11:15:00	5135.77	36.64%
0	11:20:00	5101.77	36.40%
0	11:25:00	5066.88	36.15%
0	11:30:00	5032.88	35.90%
0	11:35:00	4998.26	35.66%
0	11:40:00	4964.27	35.42%
0	11:45:00	4929.93	35.17%
0	11:50:00	4895.95	34.93%
0	11:55:00	4861.9	34.69%
0	12:00:00	4827.93	34.44%
0	12:05:00	4794.17	34.20%
0	12:10:00	4760.23	33.96%
0	12:15:00	4726.75	33.72%
0	12:20:00	4692.84	33.48%
0	12:25:00	4659.63	33.24%
0	12:30:00	4625.78	33.00%
0	12:35:00	4592.81	32.77%
0	12:40:00	4559.03	32.52%
0	12:45:00	4526.3	32.29%
0	12:50:00	4492.61	32.05%
0	12:55:00	4460.09	31.82%
0	13:00:00	4426.51	31.58%
0	13:05:00	4394.19	31.35%
0	13:10:00	4360.74	31.11%
0	13:15:00	4328.6	30.88%
0	13:20:00	4295.3	30.64%
0	13:25:00	4263.31	30.41%
0	13:30:00	4230.2	30.18%
0	13:35:00	4198.33	29.95%
0	13:40:00	4165.42	29.72%
0	13:45:00	4133.67	29.49%
0	13:50:00	4100.98	29.26%
0	13:55:00	4069.33	29.03%
0	14:00:00	4036.88	28.80%
0	14:05:00	4005.3	28.57%
0	14:10:00	3973.11	28.34%
0	14:15:00	3941.6	28.12%
0	14:20:00	3909.67	27.89%
0	14:25:00	3878.22	27.67%

0	9:30:00	4838.84	61.38%
0	9:35:00	4794.6	60.82%
0	9:40:00	4770.69	60.52%
0	9:45:00	4727.74	59.97%
0	9:50:00	4702.72	59.65%
0	9:55:00	4661.3	59.13%
0	10:00:00	4634.95	58.79%
0	10:05:00	4595.26	58.29%
0	10:10:00	4567.41	57.94%
0	10:15:00	4529.6	57.46%
0	10:20:00	4500.14	57.08%
0	10:25:00	4464.29	56.63%
0	10:30:00	4433.16	56.23%
0	10:35:00	4399.29	55.80%
0	10:40:00	4366.5	55.39%
0	10:45:00	4334.58	54.98%
0	10:50:00	4300.2	54.55%
0	10:55:00	4270.14	54.17%
0	11:00:00	4234.29	53.71%
0	11:05:00	4205.93	53.35%
0	11:10:00	4168.79	52.88%
0	11:15:00	4141.94	52.54%
0	11:20:00	4103.74	52.05%
0	11:25:00	4078.14	51.73%
0	11:30:00	4039.15	51.24%
0	11:35:00	4014.52	50.92%
0	11:40:00	3975.04	50.42%
0	11:45:00	3951.07	50.12%
0	11:50:00	3911.42	49.62%
0	11:55:00	3887.78	49.32%
0	12:00:00	3848.29	48.81%
0	12:05:00	3824.67	48.52%
0	12:10:00	3785.66	48.02%
0	12:15:00	3761.74	47.72%
0	12:20:00	3723.53	47.23%
0	12:25:00	3698.97	46.92%
0	12:30:00	3661.91	46.45%
0	12:35:00	3636.38	46.13%
0	12:40:00	3600.8	45.68%
0	12:45:00	3573.96	45.33%
0	12:50:00	3540.19	44.91%
0	12:55:00	3511.76	44.55%
0	13:00:00	3480.04	44.14%
0	13:05:00	3449.83	43.76%
0	13:10:00	3420.3	43.39%
0	13:15:00	3388.25	42.98%
0	13:20:00	3360.88	42.63%
0	13:25:00	3327.11	42.20%
0	13:30:00	3301.69	41.88%
0	13:35:00	3266.52	41.44%
0	13:40:00	3242.62	41.13%
0	13:45:00	3206.61	40.68%
0	13:50:00	3183.59	40.38%
0	13:55:00	3147.47	39.92%
0	14:00:00	3124.54	39.63%
0	14:05:00	3089.16	39.19%
0	14:10:00	3065.45	38.88%
0	14:15:00	3031.69	38.46%
0	14:20:00	3006.36	38.13%
0	14:25:00	2974.98	37.74%

0	14:30:00	3893.85	8.34%
0	14:35:00	3862.2	8.27%
0	14:40:00	3830.83	8.21%
0	14:45:00	3799.25	8.14%
0	14:50:00	3768.14	8.07%
0	14:55:00	3736.65	8.00%
0	15:00:00	3705.79	7.94%
0	15:05:00	3674.39	7.87%
0	15:10:00	3643.77	7.81%
0	15:15:00	3612.48	7.74%
0	15:20:00	3582.09	7.67%
0	15:25:00	3550.93	7.61%
0	15:30:00	3520.74	7.54%
0	15:35:00	3489.74	7.48%
0	15:40:00	3459.74	7.41%
0	15:45:00	3428.93	7.35%
0	15:50:00	3399.06	7.28%
0	15:55:00	3368.5	7.22%
0	16:00:00	3338.74	7.15%
0	16:05:00	3308.44	7.09%
0	16:10:00	3278.75	7.02%
0	16:15:00	3248.76	6.96%
0	16:20:00	3219.13	6.90%
0	16:25:00	3189.48	6.83%
0	16:30:00	3159.9	6.77%
0	16:35:00	3130.59	6.71%
0	16:40:00	3101.07	6.64%
0	16:45:00	3072.09	6.58%
0	16:50:00	3042.65	6.52%
0	16:55:00	3013.98	6.46%
0	17:00:00	2984.67	6.39%
0	17:05:00	2956.26	6.33%
0	17:10:00	2927.15	6.27%
0	17:15:00	2898.92	6.21%
0	17:20:00	2870.09	6.15%
0	17:25:00	2841.99	6.09%
0	17:30:00	2813.52	6.03%
0	17:35:00	2785.53	5.97%
0	17:40:00	2757.51	5.91%
0	17:45:00	2729.61	5.85%
0	17:50:00	2702.03	5.79%
0	17:55:00	2674.2	5.73%
0	18:00:00	2647.02	5.67%
0	18:05:00	2619.32	5.61%
0	18:10:00	2592.46	5.55%
0	18:15:00	2564.95	5.49%
0	18:20:00	2538.28	5.44%
0	18:25:00	2511.08	5.38%
0	18:30:00	2484.49	5.32%
0	18:35:00	2457.64	5.26%
0	18:40:00	2431.04	5.21%
0	18:45:00	2404.59	5.15%
0	18:50:00	2377.94	5.09%
0	18:55:00	2351.8	5.04%
0	19:00:00	2325.13	4.98%
0	19:05:00	2299.22	4.93%
0	19:10:00	2272.65	4.87%
0	19:15:00	2246.81	4.81%
0	19:20:00	2220.48	4.76%
0	19:25:00	2194.6	4.70%

0	14:30:00	3846.57	27.44%
0	14:35:00	3815.18	27.22%
0	14:40:00	3783.8	26.99%
0	14:45:00	3752.49	26.77%
0	14:50:00	3721.38	26.55%
0	14:55:00	3690.12	26.33%
0	15:00:00	3659.29	26.11%
0	15:05:00	3628.11	25.88%
0	15:10:00	3597.55	25.67%
0	15:15:00	3566.44	25.44%
0	15:20:00	3536.14	25.23%
0	15:25:00	3505.14	25.01%
0	15:30:00	3475.08	24.79%
0	15:35:00	3444.2	24.57%
0	15:40:00	3414.35	24.36%
0	15:45:00	3383.64	24.14%
0	15:50:00	3353.96	23.93%
0	15:55:00	3323.47	23.71%
0	16:00:00	3293.92	23.50%
0	16:05:00	3263.68	23.28%
0	16:10:00	3234.22	23.07%
0	16:15:00	3204.29	22.86%
0	16:20:00	3174.89	22.65%
0	16:25:00	3145.3	22.44%
0	16:30:00	3115.94	22.23%
0	16:35:00	3086.72	22.02%
0	16:40:00	3057.4	21.81%
0	16:45:00	3028.54	21.61%
0	16:50:00	2999.28	21.40%
0	16:55:00	2970.75	21.19%
0	17:00:00	2941.6	20.99%
0	17:05:00	2913.36	20.78%
0	17:10:00	2884.38	20.58%
0	17:15:00	2856.36	20.38%
0	17:20:00	2827.65	20.17%
0	17:25:00	2799.79	19.97%
0	17:30:00	2771.49	19.77%
0	17:35:00	2743.73	19.57%
0	17:40:00	2715.88	19.38%
0	17:45:00	2688.19	19.18%
0	17:50:00	2660.79	18.98%
0	17:55:00	2633.14	18.78%
0	18:00:00	2606.15	18.59%
0	18:05:00	2578.6	18.40%
0	18:10:00	2551.93	18.21%
0	18:15:00	2524.56	18.01%
0	18:20:00	2498.07	17.82%
0	18:25:00	2471	17.63%
0	18:30:00	2444.56	17.44%
0	18:35:00	2417.85	17.25%
0	18:40:00	2391.36	17.06%
0	18:45:00	2365.03	16.87%
0	18:50:00	2338.45	16.68%
0	18:55:00	2312.44	16.50%
0	19:00:00	2285.83	16.31%
0	19:05:00	2260.04	16.12%
0	19:10:00	2233.54	15.93%
0	19:15:00	2207.81	15.75%
0	19:20:00	2181.58	15.56%
0	19:25:00	2155.77	15.38%

0	14:30:00	2947.42	37.39%
0	14:35:00	2918.87	37.03%
0	14:40:00	2888.83	36.64%
0	14:45:00	2863.14	36.32%
0	14:50:00	2830.88	35.91%
0	14:55:00	2807.55	35.61%
0	15:00:00	2773.89	35.19%
0	15:05:00	2751.95	34.91%
0	15:10:00	2718.08	34.48%
0	15:15:00	2696.16	34.20%
0	15:20:00	2663.51	33.79%
0	15:25:00	2640.18	33.49%
0	15:30:00	2610.03	33.11%
0	15:35:00	2584.19	32.78%
0	15:40:00	2557.32	32.44%
0	15:45:00	2528.54	32.07%
0	15:50:00	2504.92	31.77%
0	15:55:00	2473.68	31.38%
0	16:00:00	2452.31	31.11%
0	16:05:00	2419.98	30.70%
0	16:10:00	2399.14	30.43%
0	16:15:00	2367.6	30.03%
0	16:20:00	2345.28	29.75%
0	16:25:00	2316.33	29.38%
0	16:30:00	2291.01	29.06%
0	16:35:00	2265.69	28.74%
0	16:40:00	2236.96	28.38%
0	16:45:00	2214.96	28.10%
0	16:50:00	2183.85	27.70%
0	16:55:00	2163.5	27.44%
0	17:00:00	2132.2	27.05%
0	17:05:00	2111.01	26.78%
0	17:10:00	2082.01	26.41%
0	17:15:00	2057.78	26.10%
0	17:20:00	2032.7	25.78%
0	17:25:00	2004.66	25.43%
0	17:30:00	1983.27	25.16%
0	17:35:00	1952.67	24.77%
0	17:40:00	1932.82	24.52%
0	17:45:00	1902.46	24.13%
0	17:50:00	1881.05	23.86%
0	17:55:00	1853.88	23.52%
0	18:00:00	1828.61	23.20%
0	18:05:00	1805.88	22.91%
0	18:10:00	1776.8	22.54%
0	18:15:00	1757.1	22.29%
0	18:20:00	1726.82	21.90%
0	18:25:00	1706.72	21.65%
0	18:30:00	1678.94	21.30%
0	18:35:00	1655.15	21.00%
0	18:40:00	1632.09	20.70%
0	18:45:00	1603.92	20.35%
0	18:50:00	1584.52	20.10%
0	18:55:00	1554.7	19.72%
0	19:00:00	1535.06	19.47%
0	19:05:00	1507.89	19.13%
0	19:10:00	1484.19	18.83%
0	19:15:00	1462.15	18.55%
0	19:20:00	1433.9	18.19%
0	19:25:00	1415.26	17.95%

0	19:30:00	2168.61	4.65%
0	19:35:00	2142.62	4.59%
0	19:40:00	2116.99	4.54%
0	19:45:00	2090.92	4.48%
0	19:50:00	2065.56	4.42%
0	19:55:00	2039.57	4.37%
0	20:00:00	2014.3	4.32%
0	20:05:00	1988.55	4.26%
0	20:10:00	1963.22	4.21%
0	20:15:00	1937.85	4.15%
0	20:20:00	1912.37	4.10%
0	20:25:00	1887.37	4.04%
0	20:30:00	1861.85	3.99%
0	20:35:00	1837.07	3.94%
0	20:40:00	1811.69	3.88%
0	20:45:00	1786.92	3.83%
0	20:50:00	1761.88	3.77%
0	20:55:00	1736.97	3.72%
0	21:00:00	1712.34	3.67%
0	21:05:00	1687.31	3.61%
0	21:10:00	1662.98	3.56%
0	21:15:00	1638.04	3.51%
0	21:20:00	1613.76	3.46%
0	21:25:00	1589.15	3.40%
0	21:30:00	1564.72	3.35%
0	21:35:00	1540.55	3.30%
0	21:40:00	1515.98	3.25%
0	21:45:00	1492.12	3.20%
0	21:50:00	1467.65	3.14%
0	21:55:00	1443.8	3.09%
0	22:00:00	1419.72	3.04%
0	22:05:00	1395.69	2.99%
0	22:10:00	1372.07	2.94%
0	22:15:00	1347.93	2.89%
0	22:20:00	1324.54	2.84%
0	22:25:00	1300.62	2.79%
0	22:30:00	1277.13	2.74%
0	22:35:00	1253.68	2.69%
0	22:40:00	1229.99	2.63%
0	22:45:00	1206.94	2.59%
0	22:50:00	1183.29	2.53%
0	22:55:00	1160.29	2.49%
0	23:00:00	1137.05	2.44%
0	23:05:00	1113.82	2.39%
0	23:10:00	1091.07	2.34%
0	23:15:00	1067.76	2.29%
0	23:20:00	1045.18	2.24%
0	23:25:00	1022.21	2.19%
0	23:30:00	999.42	2.14%
0	23:35:00	977	2.09%
0	23:40:00	954.05	2.04%
0	23:45:00	931.87	2.00%
0	23:50:00	909.23	1.95%
0	23:55:00	886.85	1.90%
0	0:00:00	864.78	1.85%
1	0:05:00	842.21	1.80%
1	0:10:00	820.41	1.76%
1	0:15:00	798.16	1.71%
1	0:20:00	776.14	1.66%
1	0:25:00	754.49	1.62%

0	19:30:00	2129.92	15.19%
0	19:35:00	2103.97	15.01%
0	19:40:00	2078.49	14.83%
0	19:45:00	2052.47	14.64%
0	19:50:00	2027.24	14.46%
0	19:55:00	2001.32	14.28%
0	20:00:00	1976.14	14.10%
0	20:05:00	1950.52	13.92%
0	20:10:00	1925.23	13.73%
0	20:15:00	1900.02	13.55%
0	20:20:00	1874.58	13.37%
0	20:25:00	1849.73	13.20%
0	20:30:00	1824.27	13.01%
0	20:35:00	1799.6	12.84%
0	20:40:00	1774.33	12.66%
0	20:45:00	1749.61	12.48%
0	20:50:00	1724.74	12.30%
0	20:55:00	1699.84	12.13%
0	21:00:00	1675.4	11.95%
0	21:05:00	1650.4	11.77%
0	21:10:00	1626.2	11.60%
0	21:15:00	1601.37	11.42%
0	21:20:00	1577.13	11.25%
0	21:25:00	1552.71	11.08%
0	21:30:00	1528.27	10.90%
0	21:35:00	1504.3	10.73%
0	21:40:00	1479.77	10.56%
0	21:45:00	1456.02	10.39%
0	21:50:00	1431.7	10.21%
0	21:55:00	1407.86	10.04%
0	22:00:00	1384	9.87%
0	22:05:00	1359.95	9.70%
0	22:10:00	1336.52	9.53%
0	22:15:00	1312.45	9.36%
0	22:20:00	1289.14	9.20%
0	22:25:00	1265.41	9.03%
0	22:30:00	1241.89	8.86%
0	22:35:00	1218.69	8.69%
0	22:40:00	1195	8.53%
0	22:45:00	1172.09	8.36%
0	22:50:00	1148.59	8.19%
0	22:55:00	1125.57	8.03%
0	23:00:00	1102.6	7.87%
0	23:05:00	1079.33	7.70%
0	23:10:00	1056.78	7.54%
0	23:15:00	1033.58	7.37%
0	23:20:00	1011.01	7.21%
0	23:25:00	988.31	7.05%
0	23:30:00	965.46	6.89%
0	23:35:00	943.27	6.73%
0	23:40:00	920.41	6.57%
0	23:45:00	898.25	6.41%
0	23:50:00	875.89	6.25%
0	23:55:00	853.43	6.09%
0	0:00:00	831.62	5.93%
1	0:05:00	809.14	5.77%
1	0:10:00	787.36	5.62%
1	0:15:00	765.42	5.46%
1	0:20:00	743.31	5.30%
1	0:25:00	721.92	5.15%

0	19:30:00	1386.12	17.58%
0	19:35:00	1366.1	17.33%
0	19:40:00	1340.87	17.01%
0	19:45:00	1315.83	16.69%
0	19:50:00	1295.99	16.44%
0	19:55:00	1267.14	16.07%
0	20:00:00	1248.97	15.84%
0	20:05:00	1221.64	15.50%
0	20:10:00	1199.62	15.22%
0	20:15:00	1177.97	14.94%
0	20:20:00	1150.58	14.59%
0	20:25:00	1132.9	14.37%
0	20:30:00	1104.72	14.01%
0	20:35:00	1084.83	13.76%
0	20:40:00	1061.79	13.47%
0	20:45:00	1035.95	13.14%
0	20:50:00	1018.26	12.92%
0	20:55:00	990.02	12.56%
0	21:00:00	971.41	12.32%
0	21:05:00	947.75	12.02%
0	21:10:00	922.98	11.71%
0	21:15:00	905.41	11.48%
0	21:20:00	877.41	11.13%
0	21:25:00	859.46	10.90%
0	21:30:00	835.98	10.60%
0	21:35:00	811.57	10.29%
0	21:40:00	794.54	10.08%
0	21:45:00	766.88	9.73%
0	21:50:00	749.04	9.50%
0	21:55:00	726.62	9.22%
0	22:00:00	701.8	8.90%
0	22:05:00	685.69	8.70%
0	22:10:00	658.65	8.35%
0	22:15:00	640.15	8.12%
0	22:20:00	619.78	7.86%
0	22:25:00	593.99	7.53%
0	22:30:00	578.79	7.34%
0	22:35:00	553.26	7.02%
0	22:40:00	533.09	6.76%
0	22:45:00	515.64	6.54%
0	22:50:00	489.03	6.20%
0	22:55:00	473.71	6.01%
0	23:00:00	451.22	5.72%
0	23:05:00	428.23	5.43%
0	23:10:00	413.55	5.25%
0	23:15:00	387.79	4.92%
0	23:20:00	369.84	4.69%
0	23:25:00	352.18	4.47%
0	23:30:00	332.04	4.21%
0	23:35:00	314.16	3.99%
0	23:40:00	298.18	3.78%
0	23:45:00	283.81	3.60%
0	23:50:00	270.83	3.44%
0	23:55:00	259.04	3.29%
0	0:00:00	248.28	3.15%
1	0:05:00	238.44	3.02%
1	0:10:00	229.39	2.91%
1	0:15:00	221.05	2.80%
1	0:20:00	213.34	2.71%
1	0:25:00	206.19	2.62%

1	0:30:00	732.31	1.57%
1	0:35:00	710.89	1.52%
1	0:40:00	689.09	1.48%
1	0:45:00	667.42	1.43%
1	0:50:00	646.24	1.38%
1	0:55:00	624.47	1.34%
1	1:00:00	603.44	1.29%
1	1:05:00	582.23	1.25%
1	1:10:00	560.93	1.20%
1	1:15:00	540.33	1.16%
1	1:20:00	519.13	1.11%
1	1:25:00	498.48	1.07%
1	1:30:00	477.97	1.02%
1	1:35:00	457.04	0.98%
1	1:40:00	436.91	0.94%
1	1:45:00	416.34	0.89%
1	1:50:00	395.92	0.85%
1	1:55:00	376.03	0.81%

1	0:30:00	699.86	4.99%
1	0:35:00	678.42	4.84%
1	0:40:00	656.98	4.69%
1	0:45:00	635.22	4.53%
1	0:50:00	614.28	4.38%
1	0:55:00	592.74	4.23%
1	1:00:00	571.66	4.08%
1	1:05:00	550.86	3.93%
1	1:10:00	529.55	3.78%
1	1:15:00	509.1	3.63%
1	1:20:00	488.22	3.48%
1	1:25:00	467.46	3.33%
1	1:30:00	447.29	3.19%
1	1:35:00	426.45	3.04%
1	1:40:00	406.31	2.90%
1	1:45:00	386.14	2.75%
1	1:50:00	365.6	2.61%
1	1:55:00	345.91	2.47%

1	0:30:00	199.55	2.53%
1	0:35:00	193.35	2.45%
1	0:40:00	187.57	2.38%
1	0:45:00	182.15	2.31%
1	0:50:00	177.03	2.25%
1	0:55:00	172.18	2.18%
1	1:00:00	167.59	2.13%
1	1:05:00	163.23	2.07%
1	1:10:00	159.09	2.02%
1	1:15:00	155.14	1.97%
1	1:20:00	151.38	1.92%
1	1:25:00	147.79	1.87%
1	1:30:00	144.35	1.83%
1	1:35:00	141.07	1.79%
1	1:40:00	137.92	1.75%
1	1:45:00	134.9	1.71%
1	1:50:00	132.01	1.67%
1	1:55:00	129.22	1.64%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 4B (LOWER PORTION)

Max Volume(CF)= 38841.53

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	4.79	0.01%
0	0:15:00	74.74	0.19%
0	0:20:00	432.12	1.11%
0	0:25:00	1480.23	3.81%
0	0:30:00	3526.05	9.08%
0	0:35:00	6865.22	17.67%
0	0:40:00	12746.38	32.82%
0	0:45:00	23985.71	61.75%
0	0:50:00	35008.45	90.13%
0	0:55:00	38298.01	98.60%
0	1:00:00	38841.53	100.00%
0	1:05:00	38700.14	99.64%
0	1:10:00	38372.85	98.79%
0	1:15:00	37911.43	97.61%
0	1:20:00	37295.86	96.02%
0	1:25:00	36533.93	94.06%
0	1:30:00	35644.29	91.77%
0	1:35:00	34651.45	89.21%
0	1:40:00	33599.41	86.50%
0	1:45:00	32554.38	83.81%
0	1:50:00	31552.98	81.24%
0	1:55:00	30859.63	79.45%
0	2:00:00	30433.35	78.35%
0	2:05:00	30163.34	77.66%
0	2:10:00	29954.27	77.12%
0	2:15:00	29609.98	76.23%
0	2:20:00	29366.01	75.60%
0	2:25:00	29145.43	75.04%
0	2:30:00	28986.39	74.63%
0	2:35:00	28847.64	74.27%
0	2:40:00	28739.86	73.99%
0	2:45:00	28646.14	73.75%
0	2:50:00	28566.58	73.55%
0	2:55:00	28497.67	73.37%
0	3:00:00	28432.8	73.20%
0	3:05:00	28376.07	73.06%
0	3:10:00	28314.23	72.90%
0	3:15:00	28258.61	72.75%
0	3:20:00	28194.18	72.59%
0	3:25:00	28137.92	72.44%
0	3:30:00	28071.75	72.27%
0	3:35:00	28015.09	72.13%
0	3:40:00	27947.8	71.95%
0	3:45:00	27890.8	71.81%
0	3:50:00	27822.87	71.63%
0	3:55:00	27765.54	71.48%
0	4:00:00	27697.33	71.31%
0	4:05:00	27639.59	71.16%
0	4:10:00	27571.4	70.98%
0	4:15:00	27513.2	70.83%
0	4:20:00	27445.26	70.66%
0	4:25:00	27386.53	70.51%
0	4:30:00	27319.02	70.33%
0	4:35:00	27259.71	70.18%
0	4:40:00	27192.76	70.01%
0	4:45:00	27132.83	69.86%
0	4:50:00	27066.55	69.68%
0	4:55:00	27005.98	69.53%
0	5:00:00	26940.43	69.36%
0	5:05:00	26879.22	69.20%
0	5:10:00	26814.43	69.04%
0	5:15:00	26752.6	68.88%
0	5:20:00	26688.56	68.71%
0	5:25:00	26626.16	68.55%
0	5:30:00	26562.87	68.39%
0	5:35:00	26499.94	68.23%
0	5:40:00	26437.34	68.06%
0	5:45:00	26373.96	67.90%
0	5:50:00	26312.01	67.74%
0	5:55:00	26248.25	67.58%
0	6:00:00	26186.88	67.42%
0	6:05:00	26122.83	67.25%

5-Year: 97%; 72 Hours

0

Max Volume(CF)= 33096.8

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	2.55	0.01%
0	0:15:00	26.55	0.08%
0	0:20:00	117.83	0.36%
0	0:25:00	434.99	1.31%
0	0:30:00	1248.74	3.77%
0	0:35:00	2846.3	8.60%
0	0:40:00	5724.59	17.30%
0	0:45:00	11993.91	36.24%
0	0:50:00	21917.97	66.22%
0	0:55:00	29531.88	89.23%
0	1:00:00	32606.48	98.52%
0	1:05:00	33096.8	100.00%
0	1:10:00	32952.09	99.56%
0	1:15:00	32540.57	98.32%
0	1:20:00	31876.57	96.31%
0	1:25:00	31177.29	94.20%
0	1:30:00	30618.82	92.51%
0	1:35:00	30215.32	91.29%
0	1:40:00	29936	90.45%
0	1:45:00	29719.34	89.80%
0	1:50:00	29580.24	89.37%
0	1:55:00	29467.29	89.03%
0	2:00:00	29384.26	88.78%
0	2:05:00	29332.53	88.63%
0	2:10:00	29273.15	88.45%
0	2:15:00	29109.17	87.95%
0	2:20:00	28989.09	87.59%
0	2:25:00	28856.55	87.19%
0	2:30:00	28761.45	86.90%
0	2:35:00	28664.7	86.61%
0	2:40:00	28591.06	86.39%
0	2:45:00	28517.79	86.16%
0	2:50:00	28457.01	85.98%
0	2:55:00	28396.97	85.80%
0	3:00:00	28339.79	85.63%
0	3:05:00	28282.37	85.45%
0	3:10:00	28221.81	85.27%
0	3:15:00	28163.79	85.10%
0	3:20:00	28100.65	84.90%
0	3:25:00	28042.47	84.73%
0	3:30:00	27977.48	84.53%
0	3:35:00	27919.32	84.36%
0	3:40:00	27853.02	84.16%
0	3:45:00	27794.93	83.98%
0	3:50:00	27727.74	83.78%
0	3:55:00	27669.67	83.60%
0	4:00:00	27601.96	83.40%
0	4:05:00	27543.83	83.22%
0	4:10:00	27475.87	83.02%
0	4:15:00	27417.6	82.84%
0	4:20:00	27349.64	82.64%
0	4:25:00	27291.12	82.46%
0	4:30:00	27223.37	82.25%
0	4:35:00	27164.5	82.08%
0	4:40:00	27097.13	81.87%
0	4:45:00	27037.85	81.69%
0	4:50:00	26970.98	81.49%
0	4:55:00	26911.22	81.31%
0	5:00:00	26844.96	81.11%
0	5:05:00	26784.68	80.93%
0	5:10:00	26719.09	80.73%
0	5:15:00	26658.27	80.55%
0	5:20:00	26593.39	80.35%
0	5:25:00	26532.04	80.16%
0	5:30:00	26467.88	79.97%
0	5:35:00	26406.02	79.78%
0	5:40:00	26342.57	79.59%
0	5:45:00	26280.23	79.40%
0	5:50:00	26217.47	79.21%
0	5:55:00	26154.71	79.02%
0	6:00:00	26092.59	78.84%
0	6:05:00	26029.46	78.65%

EURV 97% 72 Hours

Max Volume(CF)= 26810.7

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	1.6	0.01%
0	0:15:00	9.32	0.03%
0	0:20:00	43.41	0.16%
0	0:25:00	168.49	0.63%
0	0:30:00	543.34	2.03%
0	0:35:00	1423.16	5.31%
0	0:40:00	3188.19	11.89%
0	0:45:00	7054.49	26.31%
0	0:50:00	13401.11	49.98%
0	0:55:00	18892.2	70.47%
0	1:00:00	22818.94	85.11%
0	1:05:00	23399.07	87.28%
0	1:10:00	24466.89	91.26%
0	1:15:00	24921.67	92.95%
0	1:20:00	25294.47	94.34%
0	1:25:00	25538.35	95.25%
0	1:30:00	25718.65	95.93%
0	1:35:00	25931.09	96.72%
0	1:40:00	26033.02	97.10%
0	1:45:00	26227.26	97.82%
0	1:50:00	26300.04	98.10%
0	1:55:00	26478.11	98.76%
0	2:00:00	26534.96	98.97%
0	2:05:00	26715.82	99.65%
0	2:10:00	26747.96	99.77%
0	2:15:00	26810.7	100.00%
0	2:20:00	26752.81	99.78%
0	2:25:00	26777.69	99.88%
0	2:30:00	26690.22	99.55%
0	2:35:00	26702.17	99.60%
0	2:40:00	26601.12	99.22%
0	2:45:00	26606.69	99.24%
0	2:50:00	26499.36	98.84%
0	2:55:00	26500.34	98.84%
0	3:00:00	26390.88	98.43%
0	3:05:00	26387.46	98.42%
0	3:10:00	26278.62	98.02%
0	3:15:00	26270.36	97.98%
0	3:20:00	26164.12	97.59%
0	3:25:00	26150.45	97.54%
0	3:30:00	26048.25	97.16%
0	3:35:00	26028.62	97.08%
0	3:40:00	25931.52	96.72%
0	3:45:00	25905.51	96.62%
0	3:50:00	25814.23	96.28%
0	3:55:00	25781.56	96.16%
0	4:00:00	25696.64	95.84%
0	4:05:00	25657.02	95.70%
0	4:10:00	25578.64	95.40%
0	4:15:00	25532.35	95.23%
0	4:20:00	25460.39	94.96%
0	4:25:00	25407.67	94.77%
0	4:30:00	25341.9	94.52%
0	4:35:00	25283.13	94.30%
0	4:40:00	25223.18	94.08%
0	4:45:00	25158.89	93.84%
0	4:50:00	25104.22	93.64%
0	4:55:00	25035.03	93.38%
0	5:00:00	24985.03	93.19%
0	5:05:00	24911.64	92.92%
0	5:10:00	24865.61	92.75%
0	5:15:00	24788.76	92.46%
0	5:20:00	24745.98	92.30%
0	5:25:00	24666.46	92.00%
0	5:30:00	24626.2	91.85%
0	5:35:00	24544.77	91.55%
0	5:40:00	24506.3	91.40%
0	5:45:00	24423.71	91.10%
0	5:50:00	24386.3	90.96%
0	5:55:00	24303.28	90.65%
0	6:00:00	24266.23	90.51%
0	6:05:00	24183.46	90.20%

WQCV: 40 Hours Minimum

Max Volume(CF)= 11297.78

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	0.45	0.00%
0	0:15:00	3.05	0.03%
0	0:20:00	7.97	0.07%
0	0:25:00	15.47	0.14%
0	0:30:00	40.9	0.36%
0	0:35:00	128.05	1.13%
0	0:40:00	411.27	3.64%
0	0:45:00	1295.63	11.47%
0	0:50:00	3086.64	27.32%
0	0:55:00	4920.31	43.55%
0	1:00:00	6399.75	56.65%
0	1:05:00	7473.45	66.15%
0	1:10:00	8257.3	73.09%
0	1:15:00	8869.1	78.50%
0	1:20:00	9335.56	82.63%
0	1:25:00	9693.05	85.80%
0	1:30:00	9973.66	88.28%
0	1:35:00	10199.09	90.28%
0	1:40:00	10386.88	91.94%
0	1:45:00	10545.56	93.34%
0	1:50:00	10681.72	94.55%
0	1:55:00	10801.07	95.60%
0	2:00:00	10907.49	96.55%
0	2:05:00	11003.84	97.40%
0	2:10:00	11089.48	98.16%
0	2:15:00	11158.53	98.77%
0	2:20:00	11211.35	99.23%
0	2:25:00	11249.85	99.58%
0	2:30:00	11275.83	99.81%
0	2:35:00	11291.14	99.94%
0	2:40:00	11297.78	100.00%
0	2:45:00	11297.49	100.00%
0	2:50:00	11291.28	99.94%
0	2:55:00	11280.04	99.84%
0	3:00:00	11264.51	99.71%
0	3:05:00	11245.31	99.54%
0	3:10:00	11222.96	99.34%
0	3:15:00	11197.98	99.12%
0	3:20:00	11170.87	98.88%
0	3:25:00	11141.92	98.62%
0	3:30:00	11111.4	98.35%
0	3:35:00	11079.51	98.07%
0	3:40:00	11046.44	97.78%
0	3:45:00	11012.36	97.47%
0	3:50:00	10977.4	97.16%
0	3:55:00	10941.73	96.85%
0	4:00:00	10905.46	96.53%
0	4:05:00	10868.67	96.20%
0	4:10:00	10831.44	95.87%
0	4:15:00	10793.83	95.54%
0	4:20:00	10755.88	95.20%
0	4:25:00	10717.65	94.87%
0	4:30:00	10679.17	94.52%
0	4:35:00	10640.47	94.18%
0	4:40:00	10601.59	93.84%
0	4:45:00	10562.54	93.49%
0	4:50:00	10523.34	93.15%
0	4:55:00	10484	92.80%
0	5:00:00	10444.55	92.45%
0	5:05:00	10405	92.10%
0	5:10:00	10365.34	91.75%
0	5:15:00	10325.54	91.39%
0	5:20:00	10285.62	91.04%
0	5:25:00	10245.6	90.69%
0	5:30:00	10205.49	90.33%
0	5:35:00	10165.29	89.98%
0	5:40:00	10125.02	89.62%
0	5:45:00	10084.69	89.26%
0	5:50:00	10044.31	88.91%
0	5:55:00	10003.88	88.55%
0	6:00:00	9963.41	88.19%
0	6:05:00	9922.92	87.83%

0	6:10:00	26061.95	67.10%	0	6:10:00	25967.94	78.46%	0	6:10:00	24146.13	90.06%	0	6:10:00	9882.39	87.47%
0	6:15:00	25997.71	66.93%	0	6:15:00	25904.51	78.27%	0	6:15:00	24064.26	89.76%	0	6:15:00	9841.86	87.11%
0	6:20:00	25937.25	66.78%	0	6:20:00	25843.52	78.08%	0	6:20:00	24026.04	89.61%	0	6:20:00	9801.3	86.75%
0	6:25:00	25872.9	66.61%	0	6:25:00	25779.87	77.89%	0	6:25:00	23945.63	89.31%	0	6:25:00	9760.75	86.40%
0	6:30:00	25812.78	66.46%	0	6:30:00	25719.33	77.71%	0	6:30:00	23906	89.17%	0	6:30:00	9720.18	86.04%
0	6:35:00	25748.4	66.29%	0	6:35:00	25655.55	77.52%	0	6:35:00	23827.55	88.87%	0	6:35:00	9679.63	85.68%
0	6:40:00	25688.54	66.14%	0	6:40:00	25595.39	77.33%	0	6:40:00	23786.06	88.72%	0	6:40:00	9639.08	85.32%
0	6:45:00	25624.23	65.97%	0	6:45:00	25531.54	77.14%	0	6:45:00	23709.99	88.43%	0	6:45:00	9598.54	84.96%
0	6:50:00	25564.55	65.82%	0	6:50:00	25471.69	76.96%	0	6:50:00	23666.28	88.27%	0	6:50:00	9558.01	84.60%
0	6:55:00	25500.39	65.65%	0	6:55:00	25407.87	76.77%	0	6:55:00	23592.9	88.00%	0	6:55:00	9517.51	84.24%
0	7:00:00	25440.82	65.50%	0	7:00:00	25348.25	76.59%	0	7:00:00	23546.7	87.83%	0	7:00:00	9477.02	83.88%
0	7:05:00	25376.87	65.33%	0	7:05:00	25284.52	76.40%	0	7:05:00	23476.26	87.56%	0	7:05:00	9436.57	83.53%
0	7:10:00	25317.35	65.18%	0	7:10:00	25225.07	76.22%	0	7:10:00	23427.38	87.38%	0	7:10:00	9396.14	83.17%
0	7:15:00	25253.67	65.02%	0	7:15:00	25161.5	76.02%	0	7:15:00	23360.01	87.13%	0	7:15:00	9355.74	82.81%
0	7:20:00	25194.15	64.86%	0	7:20:00	25102.16	75.84%	0	7:20:00	23308.36	86.94%	0	7:20:00	9315.37	82.45%
0	7:25:00	25130.79	64.70%	0	7:25:00	25038.81	75.65%	0	7:25:00	23244.13	86.70%	0	7:25:00	9275.05	82.10%
0	7:30:00	25071.22	64.55%	0	7:30:00	24979.51	75.47%	0	7:30:00	23189.7	86.49%	0	7:30:00	9234.76	81.74%
0	7:35:00	25008.23	64.39%	0	7:35:00	24916.43	75.28%	0	7:35:00	23128.57	86.27%	0	7:35:00	9194.51	81.38%
0	7:40:00	24948.57	64.23%	0	7:40:00	24857.13	75.10%	0	7:40:00	23071.43	86.05%	0	7:40:00	9154.31	81.03%
0	7:45:00	24885.97	64.07%	0	7:45:00	24794.37	74.91%	0	7:45:00	23013.3	85.84%	0	7:45:00	9114.16	80.67%
0	7:50:00	24826.2	63.92%	0	7:50:00	24735.03	74.74%	0	7:50:00	22953.6	85.61%	0	7:50:00	9074.05	80.32%
0	7:55:00	24764.02	63.76%	0	7:55:00	24672.65	74.55%	0	7:55:00	22898.29	85.41%	0	7:55:00	9033.99	79.96%
0	8:00:00	24704.15	63.60%	0	8:00:00	24613.26	74.37%	0	8:00:00	22836.24	85.18%	0	8:00:00	8993.99	79.61%
0	8:05:00	24642.41	63.44%	0	8:05:00	24551.28	74.18%	0	8:05:00	22783.52	84.98%	0	8:05:00	8954.04	79.25%
0	8:10:00	24582.43	63.29%	0	8:10:00	24491.82	74.00%	0	8:10:00	22719.39	84.74%	0	8:10:00	8914.14	78.90%
0	8:15:00	24521.15	63.13%	0	8:15:00	24430.26	73.81%	0	8:15:00	22668.96	84.55%	0	8:15:00	8874.3	78.55%
0	8:20:00	24461.05	62.98%	0	8:20:00	24370.72	73.63%	0	8:20:00	22603.07	84.31%	0	8:20:00	8834.53	78.20%
0	8:25:00	24400.22	62.82%	0	8:25:00	24309.59	73.45%	0	8:25:00	22554.6	84.13%	0	8:25:00	8794.81	77.85%
0	8:30:00	24340.02	62.66%	0	8:30:00	24249.96	73.27%	0	8:30:00	22487.31	83.87%	0	8:30:00	8755.15	77.49%
0	8:35:00	24279.63	62.51%	0	8:35:00	24189.27	73.09%	0	8:35:00	22440.43	83.70%	0	8:35:00	8715.56	77.14%
0	8:40:00	24219.35	62.35%	0	8:40:00	24129.56	72.91%	0	8:40:00	22372.12	83.44%	0	8:40:00	8676.03	76.79%
0	8:45:00	24159.38	62.20%	0	8:45:00	24069.29	72.72%	0	8:45:00	22326.43	83.27%	0	8:45:00	8636.57	76.44%
0	8:50:00	24099.04	62.04%	0	8:50:00	24009.51	72.54%	0	8:50:00	22257.5	83.02%	0	8:50:00	8597.17	76.10%
0	8:55:00	24039.48	61.89%	0	8:55:00	23949.66	72.36%	0	8:55:00	22212.62	82.85%	0	8:55:00	8557.84	75.75%
0	9:00:00	23979.09	61.74%	0	9:00:00	23889.82	72.18%	0	9:00:00	22143.47	82.59%	0	9:00:00	8518.58	75.40%
0	9:05:00	23919.91	61.58%	0	9:05:00	23830.38	72.00%	0	9:05:00	22098.99	82.43%	0	9:05:00	8479.4	75.05%
0	9:10:00	23859.52	61.43%	0	9:10:00	23770.5	71.82%	0	9:10:00	22030.02	82.17%	0	9:10:00	8440.28	74.71%
0	9:15:00	23800.68	61.28%	0	9:15:00	23711.45	71.64%	0	9:15:00	21985.56	82.00%	0	9:15:00	8401.24	74.36%
0	9:20:00	23740.32	61.12%	0	9:20:00	23651.55	71.46%	0	9:20:00	21917.12	81.75%	0	9:20:00	8362.28	74.02%
0	9:25:00	23681.8	60.97%	0	9:25:00	23592.87	71.28%	0	9:25:00	21872.32	81.58%	0	9:25:00	8323.38	73.67%
0	9:30:00	23621.5	60.82%	0	9:30:00	23532.98	71.10%	0	9:30:00	21804.76	81.33%	0	9:30:00	8284.57	73.33%
0	9:35:00	23563.26	60.67%	0	9:35:00	23474.63	70.93%	0	9:35:00	21759.27	81.16%	0	9:35:00	8245.83	72.99%
0	9:40:00	23503.06	60.51%	0	9:40:00	23414.79	70.75%	0	9:40:00	21692.92	80.91%	0	9:40:00	8207.16	72.64%
0	9:45:00	23445.07	60.36%	0	9:45:00	23356.75	70.57%	0	9:45:00	21646.45	80.74%	0	9:45:00	8168.58	72.30%
0	9:50:00	23385.01	60.21%	0	9:50:00	23296.99	70.39%	0	9:50:00	21581.59	80.50%	0	9:50:00	8130.08	71.96%
0	9:55:00	23327.23	60.06%	0	9:55:00	23239.21	70.22%	0	9:55:00	21533.87	80.32%	0	9:55:00	8091.65	71.62%
0	10:00:00	23267.34	59.90%	0	10:00:00	23179.57	70.04%	0	10:00:00	21470.73	80.08%	0	10:00:00	8053.31	71.28%
0	10:05:00	23209.74	59.75%	0	10:05:00	23122.03	69.86%	0	10:05:00	21421.57	79.90%	0	10:05:00	8015.05	70.94%
0	10:10:00	23150.05	59.60%	0	10:10:00	23062.54	69.68%	0	10:10:00	21360.33	79.67%	0	10:10:00	7976.88	70.61%
0	10:15:00	23092.61	59.45%	0	10:15:00	23005.21	69.51%	0	10:15:00	21309.59	79.48%	0	10:15:00	7938.78	70.27%
0	10:20:00	23033.16	59.30%	0	10:20:00	22945.9	69.33%	0	10:20:00	21250.36	79.26%	0	10:20:00	7900.77	69.93%
0	10:25:00	22975.84	59.15%	0	10:25:00	22888.75	69.16%	0	10:25:00	21197.94	79.07%	0	10:25:00	7862.85	69.60%
0	10:30:00	22916.65	59.00%	0	10:30:00	22829.65	68.98%	0	10:30:00	21140.79	78.85%	0	10:30:00	7825.01	69.26%
0	10:35:00	22859.43	58.85%	0	10:35:00	22772.65	68.81%	0	10:35:00	21086.66	78.65%	0	10:35:00	7787.26	68.93%
0	10:40:00	22800.53	58.70%	0	10:40:00	22713.79	68.63%	0	10:40:00	21031.59	78.44%	0	10:40:00	7749.6	68.59%
0	10:45:00	22743.39	58.55%	0	10:45:00	22656.92	68.46%	0	10:45:00	20975.8	78.24%	0	10:45:00	7712.03	68.26%
0	10:50:00	22684.8	58.40%	0	10:50:00	22598.33	68.28%	0	10:50:00	20922.73	78.04%	0	10:50:00	7674.54	67.93%
0	10:55:00	22627.72	58.26%	0	10:55:00	22541.56	68.11%	0	10:55:00	20865.39	77.82%	0	10:55:00	7637.14	67.60%
0	11:00:00	22569.46	58.11%	0	11:00:00	22483.26	67.93%	0	11:00:00	20814.2	77.63%	0	11:00:00	7599.84	67.27%
0	11:05:00	22512.43	57.96%	0	11:05:00	22426.57	67.76%	0	11:05:00	20755.45	77.41%	0	11:05:00	7562.62	66.94%
0	11:10:00	22454.51	57.81%	0	11:10:00	22368.59	67.59%	0	11:10:00	20705.96	77.23%	0	11:10:00	7525.5	66.61%
0	11:15:00	22397.53	57.66%	0	11:15:00	22311.97	67.41%	0	11:15:00	20646.02	77.01%	0	11:15:00	7488.46	66.28%
0	11:20:00	22339.94	57.52%	0	11:20:00	22254.31	67.24%	0	11:20:00	20598	76.83%	0	11:20:00	7451.52	65.96%
0	11:25:00	22283.01	57.37%	0	11:25:00	22197.75	67.07%	0	11:25:00	20537.13	76.60%	0	11:25:00	7414.67	65.63%
0	11:30:00	22225.77	57.22%	0	11:30:00	22140.43	66.90%	0	11:30:00	20490.3	76.43%	0	11:30:00	7377.91	65.30%
0	11:35:00	22168.88	57.08%	0	11:35:00	22083.92	66.73%	0	11:35:00	20428.79	76.20%	0	11:35:00	7341.25	64.98%
0	11:40:00	22111.99	56.93%	0	11:40:00	22026.94	66.55%	0	11:40:00	20382.84	76.03%	0	11:40:00	7304.67	64.66%
0	11:45:00	22055.15	56.78%	0	11:45:00	21970.49	66.38%	0	11:45:00	20321.02	75.79%	0	11:45:00	7268.19	64.33%
0	11:50:00	21998.59	56.64%	0	11:50:00	21913.83	66.21%	0	11:50:00	20275.63	75.63%	0	11:50:00	7231.8	64.01%
0	11:55:00	21941.81	56.49%	0	11:55:00	21857.42	66.04%	0	11:55:00	20213.83	75.39%	0	11:55:00	7195.51	63.69%
0	12:00:00	21885.57	56.35%	0	12:00:00	21801.09	65.87%	0	12:00:00	20168.66	75.23%	0	12:00:00	7159.31	63.37%
0	12:05:00	21828.85	56.20%	0	12:05:00	21744.72	65.70%	0	12:05:00	20107.23	75.00%	0	12:05:00	7123.21	63.05%
0	12:10:00	21772.9	56.06%	0	12:10:00	21688.71	65.53%	0	12:10:00	20061.94	74.83%	0	12:10:00	7087.2	62.73%
0	12:15:00	21716.27	55.91%	0	12:15:00	21632.41	65.36%	0	12:15:00	20001.21	74.60%	0	12:15:00	7051.28	62.41%
0	12:20:00	21660.6	55.77%	0	12:20:00	21576.71	65.19%	0	12:20:00	19955.48	74.43%	0	12:20:00	7015.45	62.10%
0	12:25:00	21604.06	55.62%	0	12:25:00	21520.47	65.02%	0	12:25:00	19895.8	74.21%	0	12:25:00	6979.72	61.78%
0	12:30:00	21548.66	55.48%	0	12:30:00	21465.07	64.86%	0	12:30:00	19849.28	74.03%	0	12:30:00	6944.07	61.46%
0	12:35:00	21492.24	55.33%	0	12:35:00	21408.92	64.69%	0	12:35:00	19791	73.82%	0	12:35:00	6908.52	61.15%
0	12:40:00	21437.09	55.19%	0	12:40:00	21353.8	64.52%	0	12:40:00	19743.35	73.64%	0	12:40:00	6873.05	60.84%
0	12:45:00	21380.82	55.05%	0	12:45:00	21297.76	64.35%	0	12:45:00	19686.82	73.43%	0	12:45:00	6837.66	60.52%

0	12:50:00	21325.89	54.90%
0	12:55:00	21269.78	54.76%
0	13:00:00	21215.06	54.62%
0	13:05:00	21159.14	54.48%
0	13:10:00	21104.61	54.34%
0	13:15:00	21048.9	54.19%
0	13:20:00	20994.53	54.05%
0	13:25:00	20939.06	53.91%
0	13:30:00	20884.83	53.77%
0	13:35:00	20829.62	53.63%
0	13:40:00	20775.52	53.49%
0	13:45:00	20720.59	53.35%
0	13:50:00	20666.6	53.21%
0	13:55:00	20611.96	53.07%
0	14:00:00	20558.08	52.93%
0	14:05:00	20503.74	52.79%
0	14:10:00	20449.96	52.65%
0	14:15:00	20395.94	52.51%
0	14:20:00	20342.25	52.37%
0	14:25:00	20288.54	52.23%
0	14:30:00	20234.95	52.10%
0	14:35:00	20181.56	51.96%
0	14:40:00	20128.07	51.82%
0	14:45:00	20075	51.68%
0	14:50:00	20021.62	51.55%
0	14:55:00	19968.84	51.41%
0	15:00:00	19915.61	51.27%
0	15:05:00	19863.13	51.14%
0	15:10:00	19810.04	51.00%
0	15:15:00	19757.85	50.87%
0	15:20:00	19704.92	50.73%
0	15:25:00	19653	50.60%
0	15:30:00	19600.27	50.46%
0	15:35:00	19548.59	50.33%
0	15:40:00	19496.09	50.19%
0	15:45:00	19444.61	50.06%
0	15:50:00	19392.38	49.93%
0	15:55:00	19341.09	49.79%
0	16:00:00	19289.17	49.66%
0	16:05:00	19238.02	49.53%
0	16:10:00	19186.45	49.40%
0	16:15:00	19135.41	49.27%
0	16:20:00	19084.23	49.13%
0	16:25:00	19033.31	49.00%
0	16:30:00	18982.55	48.87%
0	16:35:00	18931.74	48.74%
0	16:40:00	18881.39	48.61%
0	16:45:00	18830.72	48.48%
0	16:50:00	18780.77	48.35%
0	16:55:00	18730.28	48.22%
0	17:00:00	18680.69	48.09%
0	17:05:00	18630.43	47.97%
0	17:10:00	18581.15	47.84%
0	17:15:00	18531.22	47.71%
0	17:20:00	18482.17	47.58%
0	17:25:00	18432.65	47.46%
0	17:30:00	18383.82	47.33%
0	17:35:00	18334.84	47.20%
0	17:40:00	18286.23	47.08%
0	17:45:00	18237.83	46.95%
0	17:50:00	18189.41	46.83%
0	17:55:00	18141.55	46.71%
0	18:00:00	18093.34	46.58%
0	18:05:00	18045.96	46.46%
0	18:10:00	17998.01	46.34%
0	18:15:00	17950.98	46.22%
0	18:20:00	17903.37	46.09%
0	18:25:00	17856.57	45.97%
0	18:30:00	17809.38	45.85%
0	18:35:00	17762.68	45.73%
0	18:40:00	17715.95	45.61%
0	18:45:00	17669.26	45.49%
0	18:50:00	17622.95	45.37%
0	18:55:00	17576.25	45.25%
0	19:00:00	17530.25	45.13%
0	19:05:00	17483.6	45.01%
0	19:10:00	17437.77	44.89%
0	19:15:00	17391.33	44.78%
0	19:20:00	17345.53	44.66%
0	19:25:00	17299.42	44.54%

0	12:50:00	21242.9	64.18%
0	12:55:00	21187	64.02%
0	13:00:00	21132.38	63.85%
0	13:05:00	21076.63	63.68%
0	13:10:00	21022.23	63.52%
0	13:15:00	20966.66	63.35%
0	13:20:00	20912.46	63.19%
0	13:25:00	20857.1	63.02%
0	13:30:00	20803.08	62.86%
0	13:35:00	20747.95	62.69%
0	13:40:00	20694.08	62.53%
0	13:45:00	20639.2	62.36%
0	13:50:00	20585.47	62.20%
0	13:55:00	20530.87	62.03%
0	14:00:00	20477.27	61.87%
0	14:05:00	20422.95	61.71%
0	14:10:00	20369.46	61.55%
0	14:15:00	20315.45	61.38%
0	14:20:00	20262.06	61.22%
0	14:25:00	20208.36	61.06%
0	14:30:00	20155.07	60.90%
0	14:35:00	20101.7	60.74%
0	14:40:00	20048.51	60.58%
0	14:45:00	19995.44	60.42%
0	14:50:00	19942.37	60.25%
0	14:55:00	19889.64	60.10%
0	15:00:00	19836.67	59.94%
0	15:05:00	19784.27	59.78%
0	15:10:00	19731.42	59.62%
0	15:15:00	19679.34	59.46%
0	15:20:00	19626.62	59.30%
0	15:25:00	19574.84	59.14%
0	15:30:00	19522.29	58.99%
0	15:35:00	19470.79	58.83%
0	15:40:00	19418.43	58.67%
0	15:45:00	19367.18	58.52%
0	15:50:00	19315.07	58.36%
0	15:55:00	19264.02	58.21%
0	16:00:00	19212.2	58.05%
0	16:05:00	19161.31	57.89%
0	16:10:00	19109.84	57.74%
0	16:15:00	19059.09	57.59%
0	16:20:00	19008.02	57.43%
0	16:25:00	18957.38	57.28%
0	16:30:00	18906.74	57.13%
0	16:35:00	18856.2	56.97%
0	16:40:00	18806.01	56.82%
0	16:45:00	18755.58	56.67%
0	16:50:00	18705.82	56.52%
0	16:55:00	18655.55	56.37%
0	17:00:00	18606.19	56.22%
0	17:05:00	18556.13	56.07%
0	17:10:00	18507.11	55.92%
0	17:15:00	18457.37	55.77%
0	17:20:00	18408.61	55.62%
0	17:25:00	18359.33	55.47%
0	17:30:00	18310.84	55.33%
0	17:35:00	18262.12	55.18%
0	17:40:00	18213.82	55.03%
0	17:45:00	18165.68	54.89%
0	17:50:00	18117.54	54.74%
0	17:55:00	18069.95	54.60%
0	18:00:00	18021.98	54.45%
0	18:05:00	17974.87	54.31%
0	18:10:00	17927.13	54.17%
0	18:15:00	17880.36	54.02%
0	18:20:00	17832.94	53.88%
0	18:25:00	17786.37	53.74%
0	18:30:00	17739.36	53.60%
0	18:35:00	17692.85	53.46%
0	18:40:00	17646.29	53.32%
0	18:45:00	17599.72	53.18%
0	18:50:00	17553.55	53.04%
0	18:55:00	17506.93	52.90%
0	19:00:00	17461.07	52.76%
0	19:05:00	17414.51	52.62%
0	19:10:00	17368.81	52.48%
0	19:15:00	17322.48	52.34%
0	19:20:00	17276.78	52.20%
0	19:25:00	17230.81	52.06%

0	12:50:00	19637.7	73.25%
0	12:55:00	19583.22	73.04%
0	13:00:00	19532.38	72.85%
0	13:05:00	19480.17	72.66%
0	13:10:00	19427.47	72.46%
0	13:15:00	19377.58	72.28%
0	13:20:00	19323.06	72.07%
0	13:25:00	19275.38	71.89%
0	13:30:00	19219.27	71.69%
0	13:35:00	19173.46	71.51%
0	13:40:00	19116.21	71.30%
0	13:45:00	19071.73	71.13%
0	13:50:00	19014.02	70.92%
0	13:55:00	18970.13	70.76%
0	14:00:00	18912.8	70.54%
0	14:05:00	18868.61	70.38%
0	14:10:00	18812.58	70.17%
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0	14:20:00	18713.32	69.80%
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0	14:30:00	18614.93	69.43%
0	14:35:00	18565.17	69.25%
0	14:40:00	18517.19	69.07%
0	14:45:00	18465.01	68.87%
0	14:50:00	18419.89	68.70%
0	14:55:00	18365.87	68.50%
0	15:00:00	18322.87	68.34%
0	15:05:00	18268.09	68.14%
0	15:10:00	18225.96	67.98%
0	15:15:00	18171.8	67.78%
0	15:20:00	18129.04	67.62%
0	15:25:00	18076.95	67.42%
0	15:30:00	18032.21	67.26%
0	15:35:00	17983.28	67.08%
0	15:40:00	17935.71	66.90%
0	15:45:00	17890.35	66.73%
0	15:50:00	17839.95	66.54%
0	15:55:00	17797.63	66.38%
0	16:00:00	17745.36	66.19%
0	16:05:00	17704.62	66.04%
0	16:10:00	17652.2	65.84%
0	16:15:00	17611	65.69%
0	16:20:00	17560.41	65.50%
0	16:25:00	17516.81	65.34%
0	16:30:00	17469.6	65.16%
0	16:35:00	17422.54	64.98%
0	16:40:00	17379.13	64.82%
0	16:45:00	17328.92	64.63%
0	16:50:00	17288.24	64.48%
0	16:55:00	17236.62	64.29%
0	17:00:00	17196.42	64.14%
0	17:05:00	17145.94	63.95%
0	17:10:00	17103.66	63.79%
0	17:15:00	17056.59	63.62%
0	17:20:00	17010.56	63.45%
0	17:25:00	16967.71	63.29%
0	17:30:00	16918.16	63.10%
0	17:35:00	16878.23	62.95%
0	17:40:00	16827.38	62.76%
0	17:45:00	16787.49	62.61%
0	17:50:00	16738.53	62.43%
0	17:55:00	16695.66	62.27%
0	18:00:00	16650.96	62.11%
0	18:05:00	16603.81	61.93%
0	18:10:00	16563.32	61.78%
0	18:15:00	16513.35	61.59%
0	18:20:00	16474.39	61.45%
0	18:25:00	16425.12	61.26%
0	18:30:00	16383.89	61.11%
0	18:35:00	16338.7	60.94%
0	18:40:00	16292.92	60.77%
0	18:45:00	16252.52	60.62%
0	18:50:00	16203.29	60.44%
0	18:55:00	16164.9	60.29%
0	19:00:00	16116.2	60.11%
0	19:05:00	16075.39	59.96%
0	19:10:00	16031.16	59.79%
0	19:15:00	15985.4	59.62%
0	19:20:00	15946.15	59.48%
0	19:25:00	15897.2	59.29%

0	12:50:00	6802.38	60.21%
0	12:55:00	6767.21	59.90%
0	13:00:00	6732.15	59.59%
0	13:05:00	6697.21	59.28%
0	13:10:00	6662.37	58.97%
0	13:15:00	6627.65	58.66%
0	13:20:00	6593.04	58.36%
0	13:25:00	6558.55	58.05%
0	13:30:00	6524.17	57.75%
0	13:35:00	6489.91	57.44%
0	13:40:00	6455.77	57.14%
0	13:45:00	6421.75	56.84%
0	13:50:00	6387.84	56.54%
0	13:55:00	6354.06	56.24%
0	14:00:00	6320.4	55.94%
0	14:05:00	6286.86	55.65%
0	14:10:00	6253.45	55.35%
0	14:15:00	6220.16	55.06%
0	14:20:00	6187	54.76%
0	14:25:00	6153.97	54.47%
0	14:30:00	6121.06	54.18%
0	14:35:00	6088.29	53.89%
0	14:40:00	6055.65	53.60%
0	14:45:00	6023.14	53.31%
0	14:50:00	5990.77	53.03%
0	14:55:00	5958.54	52.74%
0	15:00:00	5926.44	52.46%
0	15:05:00	5894.49	52.17%
0	15:10:00	5862.68	51.89%
0	15:15:00	5831.02	51.61%
0	15:20:00	5799.5	51.33%
0	15:25:00	5768.14	51.06%
0	15:30:00	5736.93	50.78%
0	15:35:00	5705.88	50.50%
0	15:40:00	5674.99	50.23%
0	15:45:00	5644.27	49.96%
0	15:50:00	5613.71	49.69%
0	15:55:00	5583.33	49.42%
0	16:00:00	5553.14	49.15%
0	16:05:00	5523.13	48.89%
0	16:10:00	5493.35	48.62%
0	16:15:00	5463.83	48.36%
0	16:20:00	5434.57	48.10%
0	16:25:00	5405.56	47.85%
0	16:30:00	5376.79	47.59%
0	16:35:00	5348.25	47.34%
0	16:40:00	5319.92	47.09%
0	16:45:00	5291.8	46.84%
0	16:50:00	5263.87	46.59%
0	16:55:00	5236.13	46.35%
0	17:00:00	5208.56	46.10%
0	17:05:00	5181.15	45.86%
0	17:10:00	5153.88	45.62%
0	17:15:00	5126.74	45.38%
0	17:20:00	5099.71	45.14%
0	17:25:00	5072.75	44.90%
0	17:30:00	5045.83	44.66%
0	17:35:00	5018.96	44.42%
0	17:40:00	4992.13	44.19%
0	17:45:00	4965.34	43.95%
0	17:50:00	4938.6	43.71%
0	17:55:00	4911.89	43.48%
0	18:00:00	4885.23	43.24%
0	18:05:00	4858.61	43.00%
0	18:10:00	4832.03	42.77%
0	18:15:00	4805.49	42.53%
0	18:20:00	4778.99	42.30%
0	18:25:00	4752.53	42.07%
0	18:30:00	4726.11	41.83%
0	18:35:00	4699.73	41.60%
0	18:40:00	4673.39	41.37%
0	18:45:00	4647.09	41.13%
0	18:50:00	4620.83	40.90%
0	18:55:00	4594.61	40.67%
0	19:00:00	4568.43	40.44%
0	19:05:00	4542.29	40.21%
0	19:10:00	4516.19	39.97%
0	19:15:00	4490.11	39.74%
0	19:20:00	4464.07	39.51%
0	19:25:00	4438.06	39.28%

0	19:30:00	17253.54	44.42%
0	19:35:00	17207.83	44.30%
0	19:40:00	17161.87	44.18%
0	19:45:00	17116.51	44.07%
0	19:50:00	17070.57	43.95%
0	19:55:00	17025.42	43.83%
0	20:00:00	16979.67	43.72%
0	20:05:00	16934.55	43.60%
0	20:10:00	16889.15	43.48%
0	20:15:00	16843.93	43.37%
0	20:20:00	16798.96	43.25%
0	20:25:00	16753.66	43.13%
0	20:30:00	16709.03	43.02%
0	20:35:00	16663.78	42.90%
0	20:40:00	16619.3	42.79%
0	20:45:00	16574.34	42.67%
0	20:50:00	16529.79	42.56%
0	20:55:00	16485.27	42.44%
0	21:00:00	16440.6	42.33%
0	21:05:00	16396.49	42.21%
0	21:10:00	16351.81	42.10%
0	21:15:00	16307.9	41.99%
0	21:20:00	16263.47	41.87%
0	21:25:00	16219.53	41.76%
0	21:30:00	16175.55	41.64%
0	21:35:00	16131.45	41.53%
0	21:40:00	16087.92	41.42%
0	21:45:00	16043.82	41.31%
0	21:50:00	16000.48	41.19%
0	21:55:00	15956.67	41.08%
0	22:00:00	15913.26	40.97%
0	22:05:00	15869.95	40.86%
0	22:10:00	15826.38	40.75%
0	22:15:00	15783.49	40.64%
0	22:20:00	15740	40.52%
0	22:25:00	15697.2	40.41%
0	22:30:00	15654.13	40.30%
0	22:35:00	15611.17	40.19%
0	22:40:00	15568.62	40.08%
0	22:45:00	15525.58	39.97%
0	22:50:00	15483.31	39.86%
0	22:55:00	15440.55	39.75%
0	23:00:00	15398.19	39.64%
0	23:05:00	15355.99	39.53%
0	23:10:00	15313.46	39.43%
0	23:15:00	15271.67	39.32%
0	23:20:00	15229.3	39.21%
0	23:25:00	15187.51	39.10%
0	23:30:00	15145.69	38.99%
0	23:35:00	15103.69	38.89%
0	23:40:00	15062.38	38.78%
0	23:45:00	15020.47	38.67%
0	23:50:00	14979.2	38.56%
0	23:55:00	14937.85	38.46%
0	0:00:00	14896.36	38.35%
1	0:05:00	14855.56	38.25%
1	0:10:00	14814.15	38.14%
1	0:15:00	14773.41	38.04%
1	0:20:00	14732.6	37.93%
1	0:25:00	14691.62	37.82%
1	0:30:00	14651.37	37.72%
1	0:35:00	14610.54	37.62%
1	0:40:00	14570.3	37.51%
1	0:45:00	14530.14	37.41%
1	0:50:00	14489.69	37.30%
1	0:55:00	14450.05	37.20%
1	1:00:00	14409.93	37.10%
1	1:05:00	14370.26	37.00%
1	1:10:00	14330.96	36.90%
1	1:15:00	14291.22	36.79%
1	1:20:00	14252.33	36.69%
1	1:25:00	14213.15	36.59%
1	1:30:00	14174.07	36.49%
1	1:35:00	14135.64	36.39%
1	1:40:00	14096.63	36.29%
1	1:45:00	14058.29	36.19%
1	1:50:00	14020.02	36.10%
1	1:55:00	13981.41	36.00%
1	2:00:00	13943.64	35.90%
1	2:05:00	13905.4	35.80%

0	19:30:00	17185.01	51.92%
0	19:35:00	17139.46	51.79%
0	19:40:00	17093.56	51.65%
0	19:45:00	17048.37	51.51%
0	19:50:00	17002.51	51.37%
0	19:55:00	16957.49	51.24%
0	20:00:00	16911.86	51.10%
0	20:05:00	16866.82	50.96%
0	20:10:00	16821.6	50.83%
0	20:15:00	16776.43	50.69%
0	20:20:00	16731.65	50.55%
0	20:25:00	16686.39	50.42%
0	20:30:00	16641.93	50.28%
0	20:35:00	16596.79	50.15%
0	20:40:00	16552.4	50.01%
0	20:45:00	16507.61	49.88%
0	20:50:00	16463.11	49.74%
0	20:55:00	16418.8	49.61%
0	21:00:00	16374.16	49.47%
0	21:05:00	16330.23	49.34%
0	21:10:00	16285.65	49.21%
0	21:15:00	16241.85	49.07%
0	21:20:00	16197.6	48.94%
0	21:25:00	16153.69	48.81%
0	21:30:00	16109.94	48.68%
0	21:35:00	16065.87	48.54%
0	21:40:00	16022.53	48.41%
0	21:45:00	15978.53	48.28%
0	21:50:00	15935.29	48.15%
0	21:55:00	15891.7	48.02%
0	22:00:00	15848.29	47.88%
0	22:05:00	15805.24	47.75%
0	22:10:00	15761.7	47.62%
0	22:15:00	15718.98	47.49%
0	22:20:00	15675.65	47.36%
0	22:25:00	15632.9	47.23%
0	22:30:00	15590.09	47.10%
0	22:35:00	15547.12	46.97%
0	22:40:00	15504.82	46.85%
0	22:45:00	15461.87	46.72%
0	22:50:00	15419.7	46.59%
0	22:55:00	15377.2	46.46%
0	23:00:00	15334.81	46.33%
0	23:05:00	15292.9	46.21%
0	23:10:00	15250.42	46.08%
0	23:15:00	15208.77	45.95%
0	23:20:00	15166.65	45.83%
0	23:25:00	15124.83	45.70%
0	23:30:00	15083.34	45.57%
0	23:35:00	15041.35	45.45%
0	23:40:00	15000.22	45.32%
0	23:45:00	14958.55	45.20%
0	23:50:00	14917.26	45.07%
0	23:55:00	14876.26	44.95%
0	0:00:00	14834.78	44.82%
1	0:05:00	14794.16	44.70%
1	0:10:00	14753.02	44.58%
1	0:15:00	14712.24	44.45%
1	0:20:00	14671.81	44.33%
1	0:25:00	14630.86	44.21%
1	0:30:00	14590.79	44.09%
1	0:35:00	14550.28	43.96%
1	0:40:00	14509.99	43.84%
1	0:45:00	14470.23	43.72%
1	0:50:00	14429.88	43.60%
1	0:55:00	14390.41	43.48%
1	1:00:00	14350.74	43.36%
1	1:05:00	14311.07	43.24%
1	1:10:00	14272.17	43.12%
1	1:15:00	14232.66	43.00%
1	1:20:00	14193.82	42.89%
1	1:25:00	14155.12	42.77%
1	1:30:00	14116.03	42.65%
1	1:35:00	14077.86	42.54%
1	1:40:00	14039.19	42.42%
1	1:45:00	14000.77	42.30%
1	1:50:00	13962.92	42.19%
1	1:55:00	13924.41	42.07%
1	2:00:00	13885.7	41.95%
1	2:05:00	13845.12	41.83%

0	19:30:00	15859.19	59.15%
0	19:35:00	15811.97	58.98%
0	19:40:00	15770.26	58.82%
0	19:45:00	15728.5	58.67%
0	19:50:00	15681.59	58.49%
0	19:55:00	15644.05	58.35%
0	20:00:00	15595.74	58.17%
0	20:05:00	15556.98	58.03%
0	20:10:00	15512.93	57.86%
0	20:15:00	15468.68	57.70%
0	20:20:00	15430.45	57.55%
0	20:25:00	15382.47	57.37%
0	20:30:00	15345.38	57.24%
0	20:35:00	15299.97	57.07%
0	20:40:00	15257.98	56.91%
0	20:45:00	15218.98	56.76%
0	20:50:00	15171.85	56.59%
0	20:55:00	15135.66	56.45%
0	21:00:00	15089.81	56.28%
0	21:05:00	15049.3	56.13%
0	21:10:00	15010.08	55.99%
0	21:15:00	14963.7	55.81%
0	21:20:00	14928.13	55.68%
0	21:25:00	14882.49	55.51%
0	21:30:00	14842.69	55.36%
0	21:35:00	14804	55.22%
0	21:40:00	14757.99	55.05%
0	21:45:00	14723	54.91%
0	21:50:00	14678.2	54.75%
0	21:55:00	14638.25	54.60%
0	22:00:00	14600.94	54.46%
0	22:05:00	14554.98	54.29%
0	22:10:00	14520.35	54.16%
0	22:15:00	14477.23	54.00%
0	22:20:00	14436.27	53.85%
0	22:25:00	14401.05	53.71%
0	22:30:00	14355.38	53.54%
0	22:35:00	14320.45	53.41%
0	22:40:00	14280.34	53.26%
0	22:45:00	14237.75	53.10%
0	22:50:00	14204.67	52.98%
0	22:55:00	14160.39	52.82%
0	23:00:00	14123.64	52.68%
0	23:05:00	14087.59	52.54%
0	23:10:00	14043.36	52.38%
0	23:15:00	14010.56	52.26%
0	23:20:00	13970.04	52.11%
0	23:25:00	13929.46	51.95%
0	23:30:00	13891.55	51.81%
0	23:35:00	13851.54	51.66%
0	23:40:00	13809.79	51.51%
0	23:45:00	13766.56	51.35%
0	23:50:00	13722.07	51.18%
0	23:55:00	13676.5	51.01%
0	0:00:00	13630	50.84%
1	0:05:00	13582.71	50.66%
1	0:10:00	13534.75	50.48%
1	0:15:00	13486.2	50.30%
1	0:20:00	13437.16	50.12%
1	0:25:00	13387.69	49.93%
1	0:30:00	13337.85	49.75%
1	0:35:00	13287.69	49.56%
1	0:40:00	13237.26	49.37%
1	0:45:00	13186.62	49.18%
1	0:50:00	13135.82	48.99%
1	0:55:00	13084.89	48.80%
1	1:00:00	13033.85	48.61%
1	1:05:00	12982.72	48.42%
1	1:10:00	12931.54	48.23%
1	1:15:00	12880.3	48.04%
1	1:20:00	12829.04	47.85%
1	1:25:00	12777.75	47.66%
1	1:30:00	12726.47	47.47%
1	1:35:00	12675.19	47.28%
1	1:40:00	12623.94	47.09%
1	1:45:00	12572.71	46.89%
1	1:50:00	12521.53	46.70%
1	1:55:00	12470.39	46.51%
1	2:00:00	12419.31	46.32%
1	2:05:00	12368.29	46.13%

0	19:30:00	4412.07	39.05%
0	19:35:00	4386.12	38.82%
0	19:40:00	4360.18	38.59%
0	19:45:00	4334.28	38.36%
0	19:50:00	4308.39	38.13%
0	19:55:00	4282.5	37.91%
0	20:00:00	4256.62	37.68%
0	20:05:00	4230.75	37.45%
0	20:10:00	4204.87	37.22%
0	20:15:00	4178.98	36.99%
0	20:20:00	4153	36.76%
0	20:25:00	4127	36.53%
0	20:30:00	4101.01	36.30%
0	20:35:00	4075.09	36.07%
0	20:40:00	4049.23	35.84%
0	20:45:00	4023.45	35.61%
0	20:50:00	3997.73	35.39%
0	20:55:00	3972.08	35.16%
0	21:00:00	3946.5	34.93%
0	21:05:00	3920.98	34.71%
0	21:10:00	3895.54	34.48%
0	21:15:00	3870.16	34.26%
0	21:20:00	3844.85	34.03%
0	21:25:00	3819.61	33.81%
0	21:30:00	3794.44	33.59%
0	21:35:00	3769.34	33.36%
0	21:40:00	3744.3	33.14%
0	21:45:00	3719.34	32.92%
0	21:50:00	3694.44	32.70%
0	21:55:00	3669.62	32.48%
0	22:00:00	3644.86	32.26%
0	22:05:00	3620.18	32.04%
0	22:10:00	3595.57	31.83%
0	22:15:00	3571.02	31.61%
0	22:20:00	3546.55	31.39%
0	22:25:00	3522.15	31.18%
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0	22:40:00	3449.36	30.53%
0	22:45:00	3425.24	30.32%
0	22:50:00	3401.2	30.11%
0	22:55:00	3377.22	29.89%
0	23:00:00	3353.32	29.68%
0	23:05:00	3329.49	29.47%
0	23:10:00	3305.73	29.26%
0	23:15:00	3282.04	29.05%
0	23:20:00	3258.42	28.84%
0	23:25:00	3234.88	28.63%
0	23:30:00	3211.41	28.43%
0	23:35:00	3188.02	28.22%
0	23:40:00	3164.69	28.01%
0	23:45:00	3141.45	27.81%
0	23:50:00	3118.27	27.60%
0	23:55:00	3095.17	27.40%
0	0:00:00	3072.14	27.19%
1	0:05:00	3049.19	26.99%
1	0:10:00	3026.31	26.79%
1	0:15:00	3003.5	26.58%
1	0:20:00	2980.77	26.38%
1	0:25:00	2958.11	26.18%
1	0:30:00	2935.53	25.98%
1	0:35:00	2913.03	25.78%
1	0:40:00	2890.6	25.59%
1	0:45:00	2868.24	25.39%
1	0:50:00	2845.96	25.19%
1	0:55:00	2823.76	24.99%
1	1:00:00	2801.63	24.80%
1	1:05:00	2779.58	24.60%
1	1:10:00	2757.61	24.41%
1	1:15:00	2735.71	24.21%
1	1:20:00	2713.89	24.02%
1	1:25:00	2692.14	23.83%
1	1:30:00	2670.48	23.64%
1	1:35:00	2648.89	23.45%
1	1:40:00	2627.38	23.26%
1	1:45:00	2605.94	23.07%
1	1:50:00	2584.59	22.88%
1	1:55:00	2563.31	22.69%
1	2:00:00	2542.11	22.50%
1	2:05:00	2520.99	22.31%

1	2:10:00	13865.72	35.70%
1	2:15:00	13824.24	35.59%
1	2:20:00	13781.25	35.48%
1	2:25:00	13736.97	35.37%
1	2:30:00	13691.57	35.25%
1	2:35:00	13645.21	35.13%
1	2:40:00	13598.04	35.01%
1	2:45:00	13550.18	34.89%
1	2:50:00	13501.72	34.76%
1	2:55:00	13452.75	34.63%
1	3:00:00	13403.33	34.51%
1	3:05:00	13353.54	34.38%
1	3:10:00	13303.42	34.25%
1	3:15:00	13253.02	34.12%
1	3:20:00	13202.39	33.99%
1	3:25:00	13151.6	33.86%
1	3:30:00	13100.67	33.73%
1	3:35:00	13049.63	33.60%
1	3:40:00	12998.5	33.47%
1	3:45:00	12947.31	33.33%
1	3:50:00	12896.06	33.20%
1	3:55:00	12844.78	33.07%
1	4:00:00	12793.48	32.94%
1	4:05:00	12742.18	32.81%
1	4:10:00	12690.88	32.67%
1	4:15:00	12639.6	32.54%
1	4:20:00	12588.35	32.41%
1	4:25:00	12537.13	32.28%
1	4:30:00	12485.96	32.15%
1	4:35:00	12434.85	32.01%
1	4:40:00	12383.8	31.88%
1	4:45:00	12332.82	31.75%
1	4:50:00	12281.92	31.62%
1	4:55:00	12231.1	31.49%
1	5:00:00	12180.37	31.36%
1	5:05:00	12129.73	31.23%
1	5:10:00	12079.2	31.10%
1	5:15:00	12028.77	30.97%
1	5:20:00	11978.45	30.84%
1	5:25:00	11928.24	30.71%
1	5:30:00	11878.16	30.58%
1	5:35:00	11828.2	30.45%
1	5:40:00	11778.37	30.32%
1	5:45:00	11728.67	30.20%
1	5:50:00	11679.11	30.07%
1	5:55:00	11629.69	29.94%
1	6:00:00	11580.42	29.81%
1	6:05:00	11531.31	29.69%
1	6:10:00	11482.35	29.56%
1	6:15:00	11433.55	29.44%
1	6:20:00	11384.91	29.31%
1	6:25:00	11336.45	29.19%
1	6:30:00	11288.16	29.06%
1	6:35:00	11240.06	28.94%
1	6:40:00	11192.14	28.81%
1	6:45:00	11144.42	28.69%
1	6:50:00	11096.9	28.57%
1	6:55:00	11049.59	28.45%
1	7:00:00	11002.5	28.33%
1	7:05:00	10955.66	28.21%
1	7:10:00	10909.14	28.09%
1	7:15:00	10862.92	27.97%
1	7:20:00	10816.99	27.85%
1	7:25:00	10771.34	27.73%
1	7:30:00	10725.96	27.61%
1	7:35:00	10680.84	27.50%
1	7:40:00	10635.97	27.38%
1	7:45:00	10591.32	27.27%
1	7:50:00	10546.89	27.15%
1	7:55:00	10502.65	27.04%
1	8:00:00	10458.6	26.93%
1	8:05:00	10414.7	26.81%
1	8:10:00	10370.91	26.70%
1	8:15:00	10327.2	26.59%
1	8:20:00	10283.57	26.48%
1	8:25:00	10240.01	26.36%
1	8:30:00	10196.52	26.25%
1	8:35:00	10153.11	26.14%
1	8:40:00	10109.78	26.03%
1	8:45:00	10066.52	25.92%

1	2:10:00	13802.89	41.70%
1	2:15:00	13759.25	41.57%
1	2:20:00	13714.41	41.44%
1	2:25:00	13668.53	41.30%
1	2:30:00	13621.78	41.16%
1	2:35:00	13574.26	41.01%
1	2:40:00	13526.1	40.87%
1	2:45:00	13477.39	40.72%
1	2:50:00	13428.19	40.57%
1	2:55:00	13378.59	40.42%
1	3:00:00	13328.64	40.27%
1	3:05:00	13278.38	40.12%
1	3:10:00	13227.87	39.97%
1	3:15:00	13177.16	39.81%
1	3:20:00	13126.3	39.66%
1	3:25:00	13075.31	39.51%
1	3:30:00	13024.23	39.35%
1	3:35:00	12973.07	39.20%
1	3:40:00	12921.85	39.04%
1	3:45:00	12870.59	38.89%
1	3:50:00	12819.3	38.73%
1	3:55:00	12768	38.58%
1	4:00:00	12716.7	38.42%
1	4:05:00	12665.41	38.27%
1	4:10:00	12614.14	38.11%
1	4:15:00	12562.91	37.96%
1	4:20:00	12511.72	37.80%
1	4:25:00	12460.58	37.65%
1	4:30:00	12409.5	37.49%
1	4:35:00	12358.49	37.34%
1	4:40:00	12307.54	37.19%
1	4:45:00	12256.68	37.03%
1	4:50:00	12205.91	36.88%
1	4:55:00	12155.22	36.73%
1	5:00:00	12104.64	36.57%
1	5:05:00	12054.15	36.42%
1	5:10:00	12003.78	36.27%
1	5:15:00	11953.52	36.12%
1	5:20:00	11903.37	35.97%
1	5:25:00	11853.35	35.81%
1	5:30:00	11803.45	35.66%
1	5:35:00	11753.69	35.51%
1	5:40:00	11704.06	35.36%
1	5:45:00	11654.57	35.21%
1	5:50:00	11605.23	35.06%
1	5:55:00	11556.04	34.92%
1	6:00:00	11507	34.77%
1	6:05:00	11458.12	34.62%
1	6:10:00	11409.4	34.47%
1	6:15:00	11360.85	34.33%
1	6:20:00	11312.47	34.18%
1	6:25:00	11264.27	34.03%
1	6:30:00	11216.26	33.89%
1	6:35:00	11168.44	33.74%
1	6:40:00	11120.82	33.60%
1	6:45:00	11073.4	33.46%
1	6:50:00	11026.2	33.32%
1	6:55:00	10979.23	33.17%
1	7:00:00	10932.55	33.03%
1	7:05:00	10886.18	32.89%
1	7:10:00	10840.1	32.75%
1	7:15:00	10794.31	32.61%
1	7:20:00	10748.8	32.48%
1	7:25:00	10703.55	32.34%
1	7:30:00	10658.56	32.20%
1	7:35:00	10613.8	32.07%
1	7:40:00	10569.26	31.93%
1	7:45:00	10524.93	31.80%
1	7:50:00	10480.78	31.67%
1	7:55:00	10436.81	31.53%
1	8:00:00	10392.97	31.40%
1	8:05:00	10349.22	31.27%
1	8:10:00	10305.55	31.14%
1	8:15:00	10261.96	31.01%
1	8:20:00	10218.43	30.87%
1	8:25:00	10174.99	30.74%
1	8:30:00	10131.61	30.61%
1	8:35:00	10088.32	30.48%
1	8:40:00	10045.1	30.35%
1	8:45:00	10001.96	30.22%

1	2:10:00	12317.35	45.94%
1	2:15:00	12266.48	45.75%
1	2:20:00	12215.7	45.56%
1	2:25:00	12165	45.37%
1	2:30:00	12114.41	45.18%
1	2:35:00	12063.91	45.00%
1	2:40:00	12013.52	44.81%
1	2:45:00	11963.24	44.62%
1	2:50:00	11913.08	44.43%
1	2:55:00	11863.04	44.25%
1	3:00:00	11813.13	44.06%
1	3:05:00	11763.34	43.88%
1	3:10:00	11713.69	43.69%
1	3:15:00	11664.18	43.51%
1	3:20:00	11614.82	43.32%
1	3:25:00	11565.6	43.14%
1	3:30:00	11516.54	42.96%
1	3:35:00	11467.63	42.77%
1	3:40:00	11418.88	42.59%
1	3:45:00	11370.3	42.41%
1	3:50:00	11321.9	42.23%
1	3:55:00	11273.67	42.05%
1	4:00:00	11225.62	41.87%
1	4:05:00	11177.77	41.69%
1	4:10:00	11130.11	41.51%
1	4:15:00	11082.66	41.34%
1	4:20:00	11035.42	41.16%
1	4:25:00	10988.4	40.99%
1	4:30:00	10941.66	40.81%
1	4:35:00	10895.23	40.64%
1	4:40:00	10849.1	40.47%
1	4:45:00	10803.26	40.29%
1	4:50:00	10757.7	40.12%
1	4:55:00	10712.41	39.96%
1	5:00:00	10667.36	39.79%
1	5:05:00	10622.56	39.62%
1	5:10:00	10577.98	39.45%
1	5:15:00	10533.61	39.29%
1	5:20:00	10489.44	39.12%
1	5:25:00	10445.43	38.96%
1	5:30:00	10401.58	38.80%
1	5:35:00	10357.82	38.63%
1	5:40:00	10314.13	38.47%
1	5:45:00	10270.52	38.31%
1	5:50:00	10226.99	38.15%
1	5:55:00	10183.53	37.98%
1	6:00:00	10140.14	37.82%
1	6:05:00	10096.84	37.66%
1	6:10:00	10053.61	37.50%
1	6:15:00	10010.45	37.34%
1	6:20:00	9967.38	37.18%
1	6:25:00	9924.38	37.02%
1	6:30:00	9881.46	36.86%
1	6:35:00	9838.62	36.70%
1	6:40:00	9795.87	36.54%
1	6:45:00	9753.19	36.38%
1	6:50:00	9710.59	36.22%
1	6:55:00	9668.08	36.06%
1	7:00:00	9625.65	35.90%
1	7:05:00	9583.3	35.74%
1	7:10:00	9541.03	35.59%
1	7:15:00	9498.85	35.43%
1	7:20:00	9456.75	35.27%
1	7:25:00	9414.73	35.12%
1	7:30:00	9372.8	34.96%
1	7:35:00	9330.96	34.80%
1	7:40:00	9289.2	34.65%
1	7:45:00	9247.53	34.49%
1	7:50:00	9205.94	34.34%
1	7:55:00	9164.44	34.18%
1	8:00:00	9123.03	34.03%
1	8:05:00	9081.7	33.87%
1	8:10:00	9040.47	33.72%
1	8:15:00	8999.32	33.57%
1	8:20:00	8958.26	33.41%
1	8:25:00	8917.29	33.26%
1	8:30:00	8876.41	33.11%
1	8:35:00	8835.62	32.96%
1	8:40:00	8794.92	32.80%
1	8:45:00	8754.31	32.65%

1	2:10:00	2499.94	22.13%
1	2:15:00	2478.98	21.94%
1	2:20:00	2458.1	21.76%
1	2:25:00	2437.29	21.57%
1	2:30:00	2416.57	21.39%
1	2:35:00	2395.92	21.21%
1	2:40:00	2375.36	21.03%
1	2:45:00	2354.87	20.84%
1	2:50:00	2334.46	20.66%
1	2:55:00	2314.14	20.48%
1	3:00:00	2293.9	20.30%
1	3:05:00	2273.73	20.13%
1	3:10:00	2253.65	19.95%
1	3:15:00	2233.65	19.77%
1	3:20:00	2213.73	19.59%
1	3:25:00	2193.89	19.42%
1	3:30:00	2174.14	19.24%
1	3:35:00	2154.47	19.07%
1	3:40:00	2134.87	18.90%
1	3:45:00	2115.37	18.72%
1	3:50:00	2095.94	18.55%
1	3:55:00	2076.6	18.38%
1	4:00:00	2057.34	18.21%
1	4:05:00	2038.16	18.04%
1	4:10:00	2019.07	17.87%
1	4:15:00	2000.06	17.70%
1	4:20:00	1981.14	17.54%
1	4:25:00	1962.3	17.37%
1	4:30:00	1943.54	17.20%
1	4:35:00	1924.87	17.04%
1	4:40:00	1906.28	16.87%
1	4:45:00	1887.78	16.71%
1	4:50:00	1869.37	16.55%
1	4:55:00	1851.04	16.38%
1	5:00:00	1832.79	16.22%
1	5:05:00	1814.64	16.06%
1	5:10:00	1796.56	15.90%
1	5:15:00	1778.58	15.74%
1	5:20:00	1760.68	15.58%
1	5:25:00	1742.87	15.43%
1	5:30:00	1725.14	15.27%
1	5:35:00	1707.5	15.11%
1	5:40:00	1689.95	14.96%
1	5:45:00	1672.49	14.80%
1	5:50:00	1655.11	14.65%
1	5:55:00	1637.83	14.50%
1	6:00:00	1620.63	14.34%
1	6:05:00	1603.52	14.19%
1	6:10:00	1586.5	14.04%
1	6:15:00	1569.57	13.89%
1	6:20:00	1552.73	13.74%
1	6:25:00	1535.97	13.60%
1	6:30:00	1519.31	13.45%
1	6:35:00	1502.74	13.30%
1	6:40:00	1486.25	13.16%
1	6:45:00	1469.86	13.01%
1	6:50:00	1453.56	12.87%
1	6:55:00	1437.35	12.72%
1	7:00:00	1421.23	12.58%
1	7:05:00	1405.2	12.44%
1	7:10:00	1389.27	12.30%
1	7:15:00	1373.42	12.16%
1	7:20:00	1357.67	12.02%
1	7:25:00	1342.01	11.88%
1	7:30:00	1326.44	11.74%
1	7:35:00	1310.96	11.60%
1	7:40:00	1295.58	11.47%
1	7:45:00	1280.29	11.33%
1	7:50:00	1265.1	11.20%
1	7:55:00	1250	11.06%
1	8:00:00	1234.99	10.93%
1	8:05:00	1220.08	10.80%
1	8:10:00	1205.26	10.67%
1	8:15:00	1190.53	10.54%
1	8:20:00	1175.9	10.41%
1	8:25:00	1161.37	10.28%
1	8:30:00	1146.93	10.15%
1	8:35:00	1132.58	10.02%
1	8:40:00	1118.34	9.90%
1	8:45:00	1104.18	9.77%

1	8:50:00	10023.34	25.81%
1	8:55:00	9980.24	25.69%
1	9:00:00	9937.22	25.58%
1	9:05:00	9894.28	25.47%
1	9:10:00	9851.41	25.36%
1	9:15:00	9808.63	25.25%
1	9:20:00	9765.92	25.14%
1	9:25:00	9723.3	25.03%
1	9:30:00	9680.76	24.92%
1	9:35:00	9638.3	24.81%
1	9:40:00	9595.93	24.71%
1	9:45:00	9553.63	24.60%
1	9:50:00	9511.43	24.49%
1	9:55:00	9469.3	24.38%
1	10:00:00	9427.26	24.27%
1	10:05:00	9385.3	24.16%
1	10:10:00	9343.43	24.06%
1	10:15:00	9301.64	23.95%
1	10:20:00	9259.94	23.84%
1	10:25:00	9218.33	23.73%
1	10:30:00	9176.8	23.63%
1	10:35:00	9135.36	23.52%
1	10:40:00	9094.01	23.41%
1	10:45:00	9052.75	23.31%
1	10:50:00	9011.57	23.20%
1	10:55:00	8970.48	23.10%
1	11:00:00	8929.48	22.99%
1	11:05:00	8888.58	22.88%
1	11:10:00	8847.76	22.78%
1	11:15:00	8807.03	22.67%
1	11:20:00	8766.39	22.57%
1	11:25:00	8725.84	22.47%
1	11:30:00	8685.39	22.36%
1	11:35:00	8645.02	22.26%
1	11:40:00	8604.75	22.15%
1	11:45:00	8564.57	22.05%
1	11:50:00	8524.49	21.95%
1	11:55:00	8484.49	21.84%
1	12:00:00	8444.59	21.74%
1	12:05:00	8404.79	21.64%
1	12:10:00	8365.08	21.54%
1	12:15:00	8325.46	21.43%
1	12:20:00	8285.93	21.33%
1	12:25:00	8246.51	21.23%
1	12:30:00	8207.17	21.13%
1	12:35:00	8167.94	21.03%
1	12:40:00	8128.8	20.93%
1	12:45:00	8089.76	20.83%
1	12:50:00	8050.81	20.73%
1	12:55:00	8011.96	20.63%
1	13:00:00	7973.21	20.53%
1	13:05:00	7934.56	20.43%
1	13:10:00	7896.01	20.33%
1	13:15:00	7857.55	20.23%
1	13:20:00	7819.2	20.13%
1	13:25:00	7780.94	20.03%
1	13:30:00	7742.78	19.93%
1	13:35:00	7704.73	19.84%
1	13:40:00	7666.77	19.74%
1	13:45:00	7628.91	19.64%
1	13:50:00	7591.16	19.54%
1	13:55:00	7553.51	19.45%
1	14:00:00	7515.96	19.35%
1	14:05:00	7478.51	19.25%
1	14:10:00	7441.16	19.16%
1	14:15:00	7403.91	19.06%
1	14:20:00	7366.77	18.97%
1	14:25:00	7329.72	18.87%
1	14:30:00	7292.78	18.78%
1	14:35:00	7255.94	18.68%
1	14:40:00	7219.2	18.59%
1	14:45:00	7182.56	18.49%
1	14:50:00	7146.03	18.40%
1	14:55:00	7109.6	18.30%
1	15:00:00	7073.26	18.21%
1	15:05:00	7037.03	18.12%
1	15:10:00	7000.9	18.02%
1	15:15:00	6964.87	17.93%
1	15:20:00	6928.93	17.84%
1	15:25:00	6893.08	17.75%

1	8:50:00	9958.9	30.09%
1	8:55:00	9915.92	29.96%
1	9:00:00	9873.01	29.83%
1	9:05:00	9830.19	29.70%
1	9:10:00	9787.44	29.57%
1	9:15:00	9744.78	29.44%
1	9:20:00	9702.2	29.31%
1	9:25:00	9659.7	29.19%
1	9:30:00	9617.28	29.06%
1	9:35:00	9574.95	28.93%
1	9:40:00	9532.7	28.80%
1	9:45:00	9490.53	28.68%
1	9:50:00	9448.44	28.55%
1	9:55:00	9406.44	28.42%
1	10:00:00	9364.53	28.29%
1	10:05:00	9322.7	28.17%
1	10:10:00	9280.96	28.04%
1	10:15:00	9239.3	27.92%
1	10:20:00	9197.73	27.79%
1	10:25:00	9156.24	27.67%
1	10:30:00	9114.85	27.54%
1	10:35:00	9073.54	27.42%
1	10:40:00	9032.32	27.29%
1	10:45:00	8991.19	27.17%
1	10:50:00	8950.14	27.04%
1	10:55:00	8909.19	26.92%
1	11:00:00	8868.33	26.80%
1	11:05:00	8827.55	26.67%
1	11:10:00	8786.87	26.55%
1	11:15:00	8746.28	26.43%
1	11:20:00	8705.77	26.30%
1	11:25:00	8665.36	26.18%
1	11:30:00	8625.05	26.06%
1	11:35:00	8584.82	25.94%
1	11:40:00	8544.69	25.82%
1	11:45:00	8504.65	25.70%
1	11:50:00	8464.7	25.58%
1	11:55:00	8424.85	25.46%
1	12:00:00	8385.09	25.34%
1	12:05:00	8345.42	25.22%
1	12:10:00	8305.85	25.10%
1	12:15:00	8266.38	24.98%
1	12:20:00	8227	24.86%
1	12:25:00	8187.71	24.74%
1	12:30:00	8148.52	24.62%
1	12:35:00	8109.43	24.50%
1	12:40:00	8070.44	24.38%
1	12:45:00	8031.54	24.27%
1	12:50:00	7992.74	24.15%
1	12:55:00	7954.04	24.03%
1	13:00:00	7915.43	23.92%
1	13:05:00	7876.93	23.80%
1	13:10:00	7838.52	23.68%
1	13:15:00	7800.22	23.57%
1	13:20:00	7762.01	23.45%
1	13:25:00	7723.9	23.34%
1	13:30:00	7685.9	23.22%
1	13:35:00	7647.99	23.11%
1	13:40:00	7610.18	22.99%
1	13:45:00	7572.48	22.88%
1	13:50:00	7534.88	22.77%
1	13:55:00	7497.38	22.65%
1	14:00:00	7459.98	22.54%
1	14:05:00	7422.68	22.43%
1	14:10:00	7385.48	22.31%
1	14:15:00	7348.39	22.20%
1	14:20:00	7311.4	22.09%
1	14:25:00	7274.5	21.98%
1	14:30:00	7237.71	21.87%
1	14:35:00	7201.02	21.76%
1	14:40:00	7164.44	21.65%
1	14:45:00	7127.95	21.54%
1	14:50:00	7091.57	21.43%
1	14:55:00	7055.29	21.32%
1	15:00:00	7019.11	21.21%
1	15:05:00	6983.02	21.10%
1	15:10:00	6947.04	20.99%
1	15:15:00	6911.14	20.88%
1	15:20:00	6875.34	20.77%
1	15:25:00	6839.64	20.67%

1	8:50:00	8713.79	32.50%
1	8:55:00	8673.36	32.35%
1	9:00:00	8633.03	32.20%
1	9:05:00	8592.79	32.05%
1	9:10:00	8552.63	31.90%
1	9:15:00	8512.58	31.75%
1	9:20:00	8472.61	31.60%
1	9:25:00	8432.74	31.45%
1	9:30:00	8392.97	31.30%
1	9:35:00	8353.28	31.16%
1	9:40:00	8313.69	31.01%
1	9:45:00	8274.2	30.86%
1	9:50:00	8234.8	30.71%
1	9:55:00	8195.5	30.57%
1	10:00:00	8156.29	30.42%
1	10:05:00	8117.19	30.28%
1	10:10:00	8078.17	30.13%
1	10:15:00	8039.26	29.99%
1	10:20:00	8000.44	29.84%
1	10:25:00	7961.72	29.70%
1	10:30:00	7923.1	29.55%
1	10:35:00	7884.57	29.41%
1	10:40:00	7846.15	29.26%
1	10:45:00	7807.82	29.12%
1	10:50:00	7769.6	28.98%
1	10:55:00	7731.47	28.84%
1	11:00:00	7693.44	28.70%
1	11:05:00	7655.52	28.55%
1	11:10:00	7617.69	28.41%
1	11:15:00	7579.97	28.27%
1	11:20:00	7542.35	28.13%
1	11:25:00	7504.83	27.99%
1	11:30:00	7467.41	27.85%
1	11:35:00	7430.09	27.71%
1	11:40:00	7392.88	27.57%
1	11:45:00	7355.76	27.44%
1	11:50:00	7318.75	27.30%
1	11:55:00	7281.84	27.16%
1	12:00:00	7245.03	27.02%
1	12:05:00	7208.32	26.89%
1	12:10:00	7171.71	26.75%
1	12:15:00	7135.21	26.61%
1	12:20:00	7098.81	26.48%
1	12:25:00	7062.51	26.34%
1	12:30:00	7026.31	26.21%
1	12:35:00	6990.21	26.07%
1	12:40:00	6954.2	25.94%
1	12:45:00	6918.29	25.80%
1	12:50:00	6882.47	25.67%
1	12:55:00	6846.74	25.54%
1	13:00:00	6811.13	25.40%
1	13:05:00	6775.62	25.27%
1	13:10:00	6740.23	25.14%
1	13:15:00	6704.96	25.01%
1	13:20:00	6669.81	24.88%
1	13:25:00	6634.78	24.75%
1	13:30:00	6599.87	24.62%
1	13:35:00	6565.08	24.49%
1	13:40:00	6530.41	24.36%
1	13:45:00	6495.86	24.23%
1	13:50:00	6461.43	24.10%
1	13:55:00	6427.13	23.97%
1	14:00:00	6392.95	23.84%
1	14:05:00	6358.9	23.72%
1	14:10:00	6324.98	23.59%
1	14:15:00	6291.18	23.47%
1	14:20:00	6257.51	23.34%
1	14:25:00	6223.97	23.21%
1	14:30:00	6190.57	23.09%
1	14:35:00	6157.29	22.97%
1	14:40:00	6124.15	22.84%
1	14:45:00	6091.14	22.72%
1	14:50:00	6058.27	22.60%
1	14:55:00	6025.54	22.47%
1	15:00:00	5992.94	22.35%
1	15:05:00	5960.49	22.23%
1	15:10:00	5928.19	22.11%
1	15:15:00	5896.02	21.99%
1	15:20:00	5864.01	21.87%
1	15:25:00	5832.14	21.75%

1	8:50:00	1090.13	9.65%
1	8:55:00	1076.17	9.53%
1	9:00:00	1062.31	9.40%
1	9:05:00	1048.54	9.28%
1	9:10:00	1034.87	9.16%
1	9:15:00	1021.3	9.04%
1	9:20:00	1007.83	8.92%
1	9:25:00	994.45	8.80%
1	9:30:00	981.18	8.68%
1	9:35:00	968	8.57%
1	9:40:00	954.92	8.45%
1	9:45:00	941.94	8.34%
1	9:50:00	929.06	8.22%
1	9:55:00	916.27	8.11%
1	10:00:00	903.59	8.00%
1	10:05:00	891.01	7.89%
1	10:10:00	878.52	7.78%
1	10:15:00	866.14	7.67%
1	10:20:00	853.86	7.56%
1	10:25:00	841.68	7.45%
1	10:30:00	829.6	7.34%
1	10:35:00	817.62	7.24%
1	10:40:00	805.74	7.13%
1	10:45:00	793.96	7.03%
1	10:50:00	782.29	6.92%
1	10:55:00	770.72	6.82%
1	11:00:00	759.25	6.72%
1	11:05:00	747.88	6.62%
1	11:10:00	736.62	6.52%
1	11:15:00	725.46	6.42%
1	11:20:00	714.4	6.32%
1	11:25:00	703.44	6.23%
1	11:30:00	692.59	6.13%
1	11:35:00	681.85	6.04%
1	11:40:00	671.2	5.94%
1	11:45:00	660.67	5.85%
1	11:50:00	650.23	5.76%
1	11:55:00	639.9	5.66%
1	12:00:00	629.68	5.57%
1	12:05:00	619.56	5.48%
1	12:10:00	609.55	5.40%
1	12:15:00	599.64	5.31%
1	12:20:00	589.84	5.22%
1	12:25:00	580.15	5.14%
1	12:30:00	570.56	5.05%
1	12:35:00	561.08	4.97%
1	12:40:00	551.7	4.88%
1	12:45:00	542.44	4.80%
1	12:50:00	533.28	4.72%
1	12:55:00	524.22	4.64%
1	13:00:00	515.28	4.56%
1	13:05:00	506.44	4.48%
1	13:10:00	497.71	4.41%
1	13:15:00	489.09	4.33%
1	13:20:00	480.58	4.25%
1	13:25:00	472.17	4.18%
1	13:30:00	463.88	4.11%
1	13:35:00	455.69	4.03%
1	13:40:00	447.62	3.96%
1	13:45:00	439.65	3.89%
1	13:50:00	431.79	3.82%
1	13:55:00	424.05	3.75%
1	14:00:00	416.41	3.69%
1	14:05:00	408.88	3.62%
1	14:10:00	401.46	3.55%
1	14:15:00	394.16	3.49%
1	14:20:00	386.96	3.43%
1	14:25:00	379.88	3.36%
1	14:30:00	372.91	3.30%
1	14:35:00	366.04	3.24%
1	14:40:00	359.29	3.18%
1	14:45:00	352.66	3.12%
1	14:50:00	346.13	3.06%
1	14:55:00	339.71	3.01%
1	15:00:00	333.41	2.95%
1	15:05:00	327.24	2.90%
1	15:10:00	321.23	2.84%
1	15:15:00	315.38	2.79%
1	15:20:00	309.68	2.74%
1	15:25:00	304.13	2.69%

1	15:30:00	6857.33	17.65%
1	15:35:00	6821.67	17.56%
1	15:40:00	6786.13	17.47%
1	15:45:00	6750.71	17.38%
1	15:50:00	6715.4	17.29%
1	15:55:00	6680.22	17.20%
1	16:00:00	6645.15	17.11%
1	16:05:00	6610.2	17.02%
1	16:10:00	6575.37	16.93%
1	16:15:00	6540.66	16.84%
1	16:20:00	6506.08	16.75%
1	16:25:00	6471.62	16.66%
1	16:30:00	6437.28	16.57%
1	16:35:00	6403.06	16.49%
1	16:40:00	6368.97	16.40%
1	16:45:00	6335.01	16.31%
1	16:50:00	6301.18	16.22%
1	16:55:00	6267.47	16.14%
1	17:00:00	6233.89	16.05%
1	17:05:00	6200.44	15.96%
1	17:10:00	6167.13	15.88%
1	17:15:00	6133.94	15.79%
1	17:20:00	6100.9	15.71%
1	17:25:00	6067.98	15.62%
1	17:30:00	6035.21	15.54%
1	17:35:00	6002.58	15.45%
1	17:40:00	5970.08	15.37%
1	17:45:00	5937.73	15.29%
1	17:50:00	5905.53	15.20%
1	17:55:00	5873.47	15.12%
1	18:00:00	5841.56	15.04%
1	18:05:00	5809.8	14.96%
1	18:10:00	5778.19	14.88%
1	18:15:00	5746.74	14.80%
1	18:20:00	5715.46	14.71%
1	18:25:00	5684.33	14.63%
1	18:30:00	5653.38	14.55%
1	18:35:00	5622.59	14.48%
1	18:40:00	5591.99	14.40%
1	18:45:00	5561.56	14.32%
1	18:50:00	5531.33	14.24%
1	18:55:00	5501.31	14.16%
1	19:00:00	5471.56	14.09%
1	19:05:00	5442.07	14.01%
1	19:10:00	5412.83	13.94%
1	19:15:00	5383.84	13.86%
1	19:20:00	5355.08	13.79%
1	19:25:00	5326.55	13.71%
1	19:30:00	5298.23	13.64%
1	19:35:00	5270.1	13.57%
1	19:40:00	5242.17	13.50%
1	19:45:00	5214.42	13.42%
1	19:50:00	5186.83	13.35%
1	19:55:00	5159.39	13.28%
1	20:00:00	5132.08	13.21%
1	20:05:00	5104.88	13.14%
1	20:10:00	5077.77	13.07%
1	20:15:00	5050.71	13.00%
1	20:20:00	5023.7	12.93%
1	20:25:00	4996.73	12.86%
1	20:30:00	4969.8	12.80%
1	20:35:00	4942.91	12.73%
1	20:40:00	4916.07	12.66%
1	20:45:00	4889.27	12.59%
1	20:50:00	4862.52	12.52%
1	20:55:00	4835.81	12.45%
1	21:00:00	4809.14	12.38%
1	21:05:00	4782.51	12.31%
1	21:10:00	4755.93	12.24%
1	21:15:00	4729.38	12.18%
1	21:20:00	4702.88	12.11%
1	21:25:00	4676.42	12.04%
1	21:30:00	4650	11.97%
1	21:35:00	4623.62	11.90%
1	21:40:00	4597.28	11.84%
1	21:45:00	4570.98	11.77%
1	21:50:00	4544.73	11.70%
1	21:55:00	4518.51	11.63%
1	22:00:00	4492.32	11.57%
1	22:05:00	4466.16	11.50%

1	15:30:00	6804.04	20.56%
1	15:35:00	6768.56	20.45%
1	15:40:00	6733.19	20.34%
1	15:45:00	6697.95	20.24%
1	15:50:00	6662.82	20.13%
1	15:55:00	6627.81	20.03%
1	16:00:00	6592.92	19.92%
1	16:05:00	6558.15	19.82%
1	16:10:00	6523.5	19.71%
1	16:15:00	6488.98	19.61%
1	16:20:00	6454.58	19.50%
1	16:25:00	6420.3	19.40%
1	16:30:00	6386.15	19.30%
1	16:35:00	6352.12	19.19%
1	16:40:00	6318.22	19.09%
1	16:45:00	6284.45	18.99%
1	16:50:00	6250.81	18.89%
1	16:55:00	6217.29	18.79%
1	17:00:00	6183.91	18.68%
1	17:05:00	6150.66	18.58%
1	17:10:00	6117.55	18.48%
1	17:15:00	6084.56	18.38%
1	17:20:00	6051.72	18.28%
1	17:25:00	6019.02	18.19%
1	17:30:00	5986.45	18.09%
1	17:35:00	5954.03	17.99%
1	17:40:00	5921.75	17.89%
1	17:45:00	5889.61	17.80%
1	17:50:00	5857.63	17.70%
1	17:55:00	5825.79	17.60%
1	18:00:00	5794.11	17.51%
1	18:05:00	5762.58	17.41%
1	18:10:00	5731.21	17.32%
1	18:15:00	5700.01	17.22%
1	18:20:00	5668.96	17.13%
1	18:25:00	5638.09	17.04%
1	18:30:00	5607.4	16.94%
1	18:35:00	5576.88	16.85%
1	18:40:00	5546.55	16.76%
1	18:45:00	5516.42	16.67%
1	18:50:00	5486.53	16.58%
1	18:55:00	5456.91	16.49%
1	19:00:00	5427.54	16.40%
1	19:05:00	5398.43	16.31%
1	19:10:00	5369.56	16.22%
1	19:15:00	5340.91	16.14%
1	19:20:00	5312.48	16.05%
1	19:25:00	5284.26	15.97%
1	19:30:00	5256.23	15.88%
1	19:35:00	5228.39	15.80%
1	19:40:00	5200.72	15.71%
1	19:45:00	5173.21	15.63%
1	19:50:00	5145.83	15.55%
1	19:55:00	5118.59	15.47%
1	20:00:00	5091.44	15.38%
1	20:05:00	5064.35	15.30%
1	20:10:00	5037.31	15.22%
1	20:15:00	5010.32	15.14%
1	20:20:00	4983.37	15.06%
1	20:25:00	4956.47	14.98%
1	20:30:00	4929.6	14.89%
1	20:35:00	4902.78	14.81%
1	20:40:00	4876.01	14.73%
1	20:45:00	4849.27	14.65%
1	20:50:00	4822.58	14.57%
1	20:55:00	4795.93	14.49%
1	21:00:00	4769.33	14.41%
1	21:05:00	4742.76	14.33%
1	21:10:00	4716.24	14.25%
1	21:15:00	4689.76	14.17%
1	21:20:00	4663.32	14.09%
1	21:25:00	4636.92	14.01%
1	21:30:00	4610.56	13.93%
1	21:35:00	4584.24	13.85%
1	21:40:00	4557.96	13.77%
1	21:45:00	4531.73	13.69%
1	21:50:00	4505.52	13.61%
1	21:55:00	4479.35	13.53%
1	22:00:00	4453.21	13.46%
1	22:05:00	4427.1	13.38%

1	15:30:00	5800.43	21.63%
1	15:35:00	5768.87	21.52%
1	15:40:00	5737.47	21.40%
1	15:45:00	5706.23	21.28%
1	15:50:00	5675.16	21.17%
1	15:55:00	5644.25	21.05%
1	16:00:00	5613.52	20.94%
1	16:05:00	5582.97	20.82%
1	16:10:00	5552.6	20.71%
1	16:15:00	5522.43	20.60%
1	16:20:00	5492.48	20.49%
1	16:25:00	5462.81	20.38%
1	16:30:00	5433.4	20.27%
1	16:35:00	5404.24	20.16%
1	16:40:00	5375.32	20.05%
1	16:45:00	5346.63	19.94%
1	16:50:00	5318.15	19.84%
1	16:55:00	5289.89	19.73%
1	17:00:00	5261.83	19.63%
1	17:05:00	5233.95	19.52%
1	17:10:00	5206.25	19.42%
1	17:15:00	5178.7	19.32%
1	17:20:00	5151.3	19.21%
1	17:25:00	5124.03	19.11%
1	17:30:00	5096.87	19.01%
1	17:35:00	5069.77	18.91%
1	17:40:00	5042.73	18.81%
1	17:45:00	5015.72	18.71%
1	17:50:00	4988.77	18.61%
1	17:55:00	4961.85	18.51%
1	18:00:00	4934.98	18.41%
1	18:05:00	4908.15	18.31%
1	18:10:00	4881.37	18.21%
1	18:15:00	4854.63	18.11%
1	18:20:00	4827.93	18.01%
1	18:25:00	4801.27	17.91%
1	18:30:00	4774.66	17.81%
1	18:35:00	4748.09	17.71%
1	18:40:00	4721.56	17.61%
1	18:45:00	4695.07	17.51%
1	18:50:00	4668.62	17.41%
1	18:55:00	4642.21	17.31%
1	19:00:00	4615.84	17.22%
1	19:05:00	4589.52	17.12%
1	19:10:00	4563.23	17.02%
1	19:15:00	4536.99	16.92%
1	19:20:00	4510.78	16.82%
1	19:25:00	4484.6	16.73%
1	19:30:00	4458.45	16.63%
1	19:35:00	4432.34	16.53%
1	19:40:00	4406.25	16.43%
1	19:45:00	4380.19	16.34%
1	19:50:00	4354.16	16.24%
1	19:55:00	4328.15	16.14%
1	20:00:00	4302.16	16.05%
1	20:05:00	4276.17	15.95%
1	20:10:00	4250.19	15.85%
1	20:15:00	4224.21	15.76%
1	20:20:00	4198.23	15.66%
1	20:25:00	4172.24	15.56%
1	20:30:00	4146.19	15.46%
1	20:35:00	4120.13	15.37%
1	20:40:00	4094.12	15.27%
1	20:45:00	4068.18	15.17%
1	20:50:00	4042.31	15.08%
1	20:55:00	4016.5	14.98%
1	21:00:00	3990.76	14.88%
1	21:05:00	3965.09	14.79%
1	21:10:00	3939.49	14.69%
1	21:15:00	3913.96	14.60%
1	21:20:00	3888.49	14.50%
1	21:25:00	3863.1	14.41%
1	21:30:00	3837.77	14.31%
1	21:35:00	3812.51	14.22%
1	21:40:00	3787.32	14.13%
1	21:45:00	3762.2	14.03%
1	21:50:00	3737.15	13.94%
1	21:55:00	3712.17	13.85%
1	22:00:00	3687.26	13.75%
1	22:05:00	3662.42	13.66%

1	15:30:00	298.72	2.64%
1	15:35:00	293.45	2.60%
1	15:40:00	288.32	2.55%
1	15:45:00	283.31	2.51%
1	15:50:00	278.43	2.46%
1	15:55:00	273.67	2.42%
1	16:00:00	269.03	2.38%
1	16:05:00	264.51	2.34%
1	16:10:00	260.09	2.30%
1	16:15:00	255.78	2.26%
1	16:20:00	251.57	2.23%
1	16:25:00	247.47	2.19%
1	16:30:00	243.46	2.15%
1	16:35:00	239.55	2.12%
1	16:40:00	235.72	2.09%
1	16:45:00	231.99	2.05%
1	16:50:00	228.34	2.02%
1	16:55:00	224.78	1.99%
1	17:00:00	221.3	1.96%
1	17:05:00	217.89	1.93%
1	17:10:00	214.56	1.90%
1	17:15:00	211.31	1.87%
1	17:20:00	208.13	1.84%
1	17:25:00	205.02	1.81%
1	17:30:00	201.98	1.79%
1	17:35:00	199	1.76%
1	17:40:00	196.09	1.74%
1	17:45:00	193.24	1.71%
1	17:50:00	190.45	1.69%
1	17:55:00	187.72	1.66%
1	18:00:00	185.04	1.64%
1	18:05:00	182.43	1.61%
1	18:10:00	179.86	1.59%
1	18:15:00	177.35	1.57%
1	18:20:00	174.9	1.55%
1	18:25:00	172.49	1.53%
1	18:30:00	170.13	1.51%
1	18:35:00	167.82	1.49%
1	18:40:00	165.55	1.47%
1	18:45:00	163.33	1.45%
1	18:50:00	161.15	1.43%
1	18:55:00	159.02	1.41%
1	19:00:00	156.93	1.39%
1	19:05:00	154.88	1.37%
1	19:10:00	152.87	1.35%
1	19:15:00	150.89	1.34%
1	19:20:00	148.96	1.32%
1	19:25:00	147.06	1.30%
1	19:30:00	145.2	1.29%
1	19:35:00	143.37	1.27%
1	19:40:00	141.58	1.25%
1	19:45:00	139.82	1.24%
1	19:50:00	138.09	1.22%
1	19:55:00	136.39	1.21%
1	20:00:00	134.73	1.19%
1	20:05:00	133.09	1.18%
1	20:10:00	131.49	1.16%
1	20:15:00	129.91	1.15%
1	20:20:00	128.36	1.14%
1	20:25:00	126.84	1.12%
1	20:30:00	125.35	1.11%
1	20:35:00	123.88	1.10%
1	20:40:00	122.44	1.08%
1	20:45:00	121.02	1.07%
1	20:50:00	119.63	1.06%
1	20:55:00	118.26	1.05%
1	21:00:00	116.91	1.03%
1	21:05:00	115.59	1.02%
1	21:10:00	114.29	1.01%
1	21:15:00	113.01	1.00%
1	21:20:00	111.75	0.99%
1	21:25:00	110.52	0.98%
1	21:30:00	109.3	0.97%
1	21:35:00	108.11	0.96%
1	21:40:00	106.93	0.95%
1	21:45:00	105.77	0.94%
1	21:50:00	104.64	0.93%
1	21:55:00	103.52	0.92%
1	22:00:00	102.42	0.91%
1	22:05:00	101.33	0.90%

1	22:10:00	4440.04	11.43%
1	22:15:00	4413.94	11.36%
1	22:20:00	4387.88	11.30%
1	22:25:00	4361.84	11.23%
1	22:30:00	4335.82	11.16%
1	22:35:00	4309.82	11.10%
1	22:40:00	4283.83	11.03%
1	22:45:00	4257.85	10.96%
1	22:50:00	4231.87	10.90%
1	22:55:00	4205.89	10.83%
1	23:00:00	4179.9	10.76%
1	23:05:00	4153.87	10.69%
1	23:10:00	4127.81	10.63%
1	23:15:00	4101.78	10.56%
1	23:20:00	4075.82	10.49%
1	23:25:00	4049.93	10.43%
1	23:30:00	4024.1	10.36%
1	23:35:00	3998.34	10.29%
1	23:40:00	3972.65	10.23%
1	23:45:00	3947.03	10.16%
1	23:50:00	3921.48	10.10%
1	23:55:00	3895.99	10.03%
1	0:00:00	3870.57	9.97%
2	0:05:00	3845.23	9.90%
2	0:10:00	3819.95	9.83%
2	0:15:00	3794.74	9.77%
2	0:20:00	3769.6	9.71%
2	0:25:00	3744.53	9.64%
2	0:30:00	3719.52	9.58%
2	0:35:00	3694.59	9.51%
2	0:40:00	3669.73	9.45%
2	0:45:00	3644.94	9.38%
2	0:50:00	3620.22	9.32%
2	0:55:00	3595.57	9.26%
2	1:00:00	3570.99	9.19%
2	1:05:00	3546.48	9.13%
2	1:10:00	3522.04	9.07%
2	1:15:00	3497.67	9.00%
2	1:20:00	3473.37	8.94%
2	1:25:00	3449.15	8.88%
2	1:30:00	3425	8.82%
2	1:35:00	3400.91	8.76%
2	1:40:00	3376.9	8.69%
2	1:45:00	3352.97	8.63%
2	1:50:00	3329.1	8.57%
2	1:55:00	3305.31	8.51%
2	2:00:00	3281.59	8.45%
2	2:05:00	3257.94	8.39%
2	2:10:00	3234.37	8.33%
2	2:15:00	3210.86	8.27%
2	2:20:00	3187.44	8.21%
2	2:25:00	3164.08	8.15%
2	2:30:00	3140.8	8.09%
2	2:35:00	3117.59	8.03%
2	2:40:00	3094.46	7.97%
2	2:45:00	3071.4	7.91%
2	2:50:00	3048.42	7.85%
2	2:55:00	3025.5	7.79%
2	3:00:00	3002.67	7.73%
2	3:05:00	2979.91	7.67%
2	3:10:00	2957.22	7.61%
2	3:15:00	2934.61	7.56%
2	3:20:00	2912.08	7.50%
2	3:25:00	2889.62	7.44%
2	3:30:00	2867.23	7.38%
2	3:35:00	2844.93	7.32%
2	3:40:00	2822.69	7.27%
2	3:45:00	2800.54	7.21%
2	3:50:00	2778.46	7.15%
2	3:55:00	2756.46	7.10%
2	4:00:00	2734.53	7.04%
2	4:05:00	2712.68	6.98%
2	4:10:00	2690.91	6.93%
2	4:15:00	2669.22	6.87%
2	4:20:00	2647.6	6.82%
2	4:25:00	2626.06	6.76%
2	4:30:00	2604.6	6.71%
2	4:35:00	2583.22	6.65%
2	4:40:00	2561.92	6.60%
2	4:45:00	2540.69	6.54%

1	22:10:00	4401.02	13.30%
1	22:15:00	4374.96	13.22%
1	22:20:00	4348.94	13.14%
1	22:25:00	4322.93	13.06%
1	22:30:00	4296.94	12.98%
1	22:35:00	4270.95	12.90%
1	22:40:00	4244.97	12.83%
1	22:45:00	4218.99	12.75%
1	22:50:00	4193.01	12.67%
1	22:55:00	4167.01	12.59%
1	23:00:00	4140.96	12.51%
1	23:05:00	4114.9	12.43%
1	23:10:00	4088.91	12.35%
1	23:15:00	4062.98	12.28%
1	23:20:00	4037.12	12.20%
1	23:25:00	4011.32	12.12%
1	23:30:00	3985.6	12.04%
1	23:35:00	3959.94	11.96%
1	23:40:00	3934.35	11.89%
1	23:45:00	3908.83	11.81%
1	23:50:00	3883.38	11.73%
1	23:55:00	3858	11.66%
1	0:00:00	3832.69	11.58%
2	0:05:00	3807.44	11.50%
2	0:10:00	3782.27	11.43%
2	0:15:00	3757.16	11.35%
2	0:20:00	3732.12	11.28%
2	0:25:00	3707.16	11.20%
2	0:30:00	3682.26	11.13%
2	0:35:00	3657.43	11.05%
2	0:40:00	3632.68	10.98%
2	0:45:00	3607.99	10.90%
2	0:50:00	3583.37	10.83%
2	0:55:00	3558.83	10.75%
2	1:00:00	3534.35	10.68%
2	1:05:00	3509.95	10.61%
2	1:10:00	3485.62	10.53%
2	1:15:00	3461.36	10.46%
2	1:20:00	3437.17	10.39%
2	1:25:00	3413.05	10.31%
2	1:30:00	3389	10.24%
2	1:35:00	3365.03	10.17%
2	1:40:00	3341.13	10.10%
2	1:45:00	3317.3	10.02%
2	1:50:00	3293.54	9.95%
2	1:55:00	3269.86	9.88%
2	2:00:00	3246.25	9.81%
2	2:05:00	3222.71	9.74%
2	2:10:00	3199.24	9.67%
2	2:15:00	3175.85	9.60%
2	2:20:00	3152.53	9.53%
2	2:25:00	3129.29	9.45%
2	2:30:00	3106.12	9.38%
2	2:35:00	3083.02	9.32%
2	2:40:00	3060	9.25%
2	2:45:00	3037.05	9.18%
2	2:50:00	3014.18	9.11%
2	2:55:00	2991.38	9.04%
2	3:00:00	2968.65	8.97%
2	3:05:00	2946	8.90%
2	3:10:00	2923.43	8.83%
2	3:15:00	2900.93	8.76%
2	3:20:00	2878.51	8.70%
2	3:25:00	2856.17	8.63%
2	3:30:00	2833.9	8.56%
2	3:35:00	2811.7	8.50%
2	3:40:00	2789.58	8.43%
2	3:45:00	2767.54	8.36%
2	3:50:00	2745.58	8.30%
2	3:55:00	2723.69	8.23%
2	4:00:00	2701.88	8.16%
2	4:05:00	2680.15	8.10%
2	4:10:00	2658.49	8.03%
2	4:15:00	2636.92	7.97%
2	4:20:00	2615.42	7.90%
2	4:25:00	2594	7.84%
2	4:30:00	2572.65	7.77%
2	4:35:00	2551.39	7.71%
2	4:40:00	2530.2	7.64%
2	4:45:00	2509.1	7.58%

1	22:10:00	3637.65	13.57%
1	22:15:00	3612.95	13.48%
1	22:20:00	3588.32	13.38%
1	22:25:00	3563.76	13.29%
1	22:30:00	3539.27	13.20%
1	22:35:00	3514.85	13.11%
1	22:40:00	3490.5	13.02%
1	22:45:00	3466.23	12.93%
1	22:50:00	3442.03	12.84%
1	22:55:00	3417.89	12.75%
1	23:00:00	3393.83	12.66%
1	23:05:00	3369.85	12.57%
1	23:10:00	3345.93	12.48%
1	23:15:00	3322.09	12.39%
1	23:20:00	3298.31	12.30%
1	23:25:00	3274.61	12.21%
1	23:30:00	3250.99	12.13%
1	23:35:00	3227.44	12.04%
1	23:40:00	3203.96	11.95%
1	23:45:00	3180.55	11.86%
1	23:50:00	3157.22	11.78%
1	23:55:00	3133.96	11.69%
1	0:00:00	3110.77	11.60%
2	0:05:00	3087.66	11.52%
2	0:10:00	3064.62	11.43%
2	0:15:00	3041.66	11.34%
2	0:20:00	3018.77	11.26%
2	0:25:00	2995.96	11.17%
2	0:30:00	2973.22	11.09%
2	0:35:00	2950.56	11.01%
2	0:40:00	2927.97	10.92%
2	0:45:00	2905.45	10.84%
2	0:50:00	2883.02	10.75%
2	0:55:00	2860.66	10.67%
2	1:00:00	2838.37	10.59%
2	1:05:00	2816.16	10.50%
2	1:10:00	2794.03	10.42%
2	1:15:00	2771.97	10.34%
2	1:20:00	2749.99	10.26%
2	1:25:00	2728.09	10.18%
2	1:30:00	2706.27	10.09%
2	1:35:00	2684.52	10.01%
2	1:40:00	2662.85	9.93%
2	1:45:00	2641.25	9.85%
2	1:50:00	2619.74	9.77%
2	1:55:00	2598.3	9.69%
2	2:00:00	2576.94	9.61%
2	2:05:00	2555.66	9.53%
2	2:10:00	2534.46	9.45%
2	2:15:00	2513.34	9.37%
2	2:20:00	2492.29	9.30%
2	2:25:00	2471.33	9.22%
2	2:30:00	2450.45	9.14%
2	2:35:00	2429.64	9.06%
2	2:40:00	2408.91	8.98%
2	2:45:00	2388.27	8.91%
2	2:50:00	2367.7	8.83%
2	2:55:00	2347.22	8.75%
2	3:00:00	2326.81	8.68%
2	3:05:00	2306.49	8.60%
2	3:10:00	2286.25	8.53%
2	3:15:00	2266.09	8.45%
2	3:20:00	2246.01	8.38%
2	3:25:00	2226.01	8.30%
2	3:30:00	2206.09	8.23%
2	3:35:00	2186.26	8.15%
2	3:40:00	2166.51	8.08%
2	3:45:00	2146.84	8.01%
2	3:50:00	2127.25	7.93%
2	3:55:00	2107.75	7.86%
2	4:00:00	2088.33	7.79%
2	4:05:00	2068.99	7.72%
2	4:10:00	2049.74	7.65%
2	4:15:00	2030.57	7.57%
2	4:20:00	2011.48	7.50%
2	4:25:00	1992.48	7.43%
2	4:30:00	1973.56	7.36%
2	4:35:00	1954.73	7.29%
2	4:40:00	1935.98	7.22%
2	4:45:00	1917.31	7.15%

1	22:10:00	100.26	0.89%
1	22:15:00	99.21	0.88%
1	22:20:00	98.18	0.87%
1	22:25:00	97.16	0.86%
1	22:30:00	96.16	0.85%
1	22:35:00	95.18	0.84%
1	22:40:00	94.21	0.83%
1	22:45:00	93.25	0.83%
1	22:50:00	92.31	0.82%
1	22:55:00	91.38	0.81%
1	23:00:00	90.47	0.80%
1	23:05:00	89.57	0.79%
1	23:10:00	88.68	0.78%
1	23:15:00	87.81	0.78%
1	23:20:00	86.95	0.77%
1	23:25:00	86.11	0.76%
1	23:30:00	85.27	0.75%
1	23:35:00	84.45	0.75%
1	23:40:00	83.64	0.74%
1	23:45:00	82.84	0.73%
1	23:50:00	82.05	0.73%
1	23:55:00	81.28	0.72%
1	0:00:00	80.51	0.71%
2	0:05:00	79.76	0.71%
2	0:10:00	79.02	0.70%
2	0:15:00	78.29	0.69%
2	0:20:00	77.56	0.69%
2	0:25:00	76.85	0.68%
2	0:30:00	76.15	0.67%
2	0:35:00	75.46	0.67%
2	0:40:00	74.78	0.66%
2	0:45:00	74.1	0.66%
2	0:50:00	73.44	0.65%
2	0:55:00	72.78	0.64%
2	1:00:00	72.14	0.64%
2	1:05:00	71.5	0.63%
2	1:10:00	70.87	0.63%
2	1:15:00	70.25	0.62%
2	1:20:00	69.64	0.62%
2	1:25:00	69.03	0.61%
2	1:30:00	68.44	0.61%
2	1:35:00	67.85	0.60%
2	1:40:00	67.27	0.60%
2	1:45:00	66.7	0.59%
2	1:50:00	66.13	0.59%
2	1:55:00	65.57	0.58%
2	2:00:00	65.02	0.58%
2	2:05:00	64.48	0.57%
2	2:10:00	63.94	0.57%
2	2:15:00	63.41	0.56%
2	2:20:00	62.89	0.56%
2	2:25:00	62.37	0.55%
2	2:30:00	61.86	0.55%
2	2:35:00	61.36	0.54%
2	2:40:00	60.86	0.54%
2	2:45:00	60.37	0.53%
2	2:50:00	59.88	0.53%
2	2:55:00	59.4	0.53%
2	3:00:00	58.93	0.52%
2	3:05:00	58.46	0.52%
2	3:10:00	58	0.51%
2	3:15:00	57.54	0.51%
2	3:20:00	57.09	0.51%
2	3:25:00	56.65	0.50%
2	3:30:00	56.21	0.50%
2	3:35:00	55.77	0.49%
2	3:40:00	55.34	0.49%
2	3:45:00	54.92	0.49%
2	3:50:00	54.5	0.48%
2	3:55:00	54.09	0.48%
2	4:00:00	53.68	0.48%
2	4:05:00	53.27	0.47%
2	4:10:00	52.87	0.47%
2	4:15:00	52.47	0.46%
2	4:20:00	52.08	0.46%
2	4:25:00	51.7	0.46%
2	4:30:00	51.31	0.45%
2	4:35:00	50.94	0.45%
2	4:40:00	50.56	0.45%
2	4:45:00	50.19	0.44%

2	4:50:00	2519.55	6.49%
2	4:55:00	2498.48	6.43%
2	5:00:00	2477.49	6.38%
2	5:05:00	2456.58	6.32%
2	5:10:00	2435.76	6.27%
2	5:15:00	2415.01	6.22%
2	5:20:00	2394.34	6.16%
2	5:25:00	2373.75	6.11%
2	5:30:00	2353.24	6.06%
2	5:35:00	2332.81	6.01%
2	5:40:00	2312.46	5.95%
2	5:45:00	2292.2	5.90%
2	5:50:00	2272.01	5.85%
2	5:55:00	2251.91	5.80%
2	6:00:00	2231.89	5.75%
2	6:05:00	2211.95	5.69%
2	6:10:00	2192.09	5.64%
2	6:15:00	2172.31	5.59%
2	6:20:00	2152.62	5.54%
2	6:25:00	2133.01	5.49%
2	6:30:00	2113.48	5.44%
2	6:35:00	2094.03	5.39%
2	6:40:00	2074.67	5.34%
2	6:45:00	2055.39	5.29%
2	6:50:00	2036.2	5.24%
2	6:55:00	2017.08	5.19%
2	7:00:00	1998.06	5.14%
2	7:05:00	1979.11	5.10%
2	7:10:00	1960.26	5.05%
2	7:15:00	1941.48	5.00%
2	7:20:00	1922.79	4.95%
2	7:25:00	1904.19	4.90%
2	7:30:00	1885.67	4.85%
2	7:35:00	1867.24	4.81%
2	7:40:00	1848.89	4.76%
2	7:45:00	1830.63	4.71%
2	7:50:00	1812.46	4.67%
2	7:55:00	1794.37	4.62%
2	8:00:00	1776.37	4.57%
2	8:05:00	1758.45	4.53%
2	8:10:00	1740.63	4.48%
2	8:15:00	1722.89	4.44%
2	8:20:00	1705.23	4.39%
2	8:25:00	1687.67	4.35%
2	8:30:00	1670.19	4.30%
2	8:35:00	1652.8	4.26%
2	8:40:00	1635.5	4.21%
2	8:45:00	1618.29	4.17%
2	8:50:00	1601.17	4.12%
2	8:55:00	1584.14	4.08%
2	9:00:00	1567.19	4.03%
2	9:05:00	1550.34	3.99%
2	9:10:00	1533.57	3.95%
2	9:15:00	1516.9	3.91%
2	9:20:00	1500.31	3.86%
2	9:25:00	1483.82	3.82%
2	9:30:00	1467.42	3.78%
2	9:35:00	1451.1	3.74%
2	9:40:00	1434.88	3.69%
2	9:45:00	1418.75	3.65%
2	9:50:00	1402.71	3.61%
2	9:55:00	1386.77	3.57%
2	10:00:00	1370.91	3.53%
2	10:05:00	1355.15	3.49%
2	10:10:00	1339.48	3.45%
2	10:15:00	1323.91	3.41%
2	10:20:00	1308.42	3.37%
2	10:25:00	1293.03	3.33%
2	10:30:00	1277.74	3.29%
2	10:35:00	1262.53	3.25%
2	10:40:00	1247.42	3.21%
2	10:45:00	1232.41	3.17%
2	10:50:00	1217.49	3.13%
2	10:55:00	1202.66	3.10%
2	11:00:00	1187.93	3.06%
2	11:05:00	1173.3	3.02%
2	11:10:00	1158.76	2.98%
2	11:15:00	1144.31	2.95%
2	11:20:00	1129.96	2.91%
2	11:25:00	1115.71	2.87%

2	4:50:00	2488.07	7.52%
2	4:55:00	2467.12	7.45%
2	5:00:00	2446.25	7.39%
2	5:05:00	2425.46	7.33%
2	5:10:00	2404.75	7.27%
2	5:15:00	2384.12	7.20%
2	5:20:00	2363.57	7.14%
2	5:25:00	2343.1	7.08%
2	5:30:00	2322.72	7.02%
2	5:35:00	2302.41	6.96%
2	5:40:00	2282.18	6.90%
2	5:45:00	2262.04	6.83%
2	5:50:00	2241.97	6.77%
2	5:55:00	2221.99	6.71%
2	6:00:00	2202.09	6.65%
2	6:05:00	2182.27	6.59%
2	6:10:00	2162.54	6.53%
2	6:15:00	2142.89	6.47%
2	6:20:00	2123.32	6.42%
2	6:25:00	2103.83	6.36%
2	6:30:00	2084.42	6.30%
2	6:35:00	2065.1	6.24%
2	6:40:00	2045.87	6.18%
2	6:45:00	2026.71	6.12%
2	6:50:00	2007.64	6.07%
2	6:55:00	1988.66	6.01%
2	7:00:00	1969.76	5.95%
2	7:05:00	1950.94	5.89%
2	7:10:00	1932.21	5.84%
2	7:15:00	1913.56	5.78%
2	7:20:00	1895	5.73%
2	7:25:00	1876.52	5.67%
2	7:30:00	1858.13	5.61%
2	7:35:00	1839.83	5.56%
2	7:40:00	1821.61	5.50%
2	7:45:00	1803.48	5.45%
2	7:50:00	1785.44	5.39%
2	7:55:00	1767.48	5.34%
2	8:00:00	1749.61	5.29%
2	8:05:00	1731.82	5.23%
2	8:10:00	1714.12	5.18%
2	8:15:00	1696.52	5.13%
2	8:20:00	1678.99	5.07%
2	8:25:00	1661.56	5.02%
2	8:30:00	1644.22	4.97%
2	8:35:00	1626.96	4.92%
2	8:40:00	1609.79	4.86%
2	8:45:00	1592.71	4.81%
2	8:50:00	1575.72	4.76%
2	8:55:00	1558.82	4.71%
2	9:00:00	1542.01	4.66%
2	9:05:00	1525.29	4.61%
2	9:10:00	1508.66	4.56%
2	9:15:00	1492.12	4.51%
2	9:20:00	1475.68	4.46%
2	9:25:00	1459.32	4.41%
2	9:30:00	1443.05	4.36%
2	9:35:00	1426.87	4.31%
2	9:40:00	1410.79	4.26%
2	9:45:00	1394.8	4.21%
2	9:50:00	1378.9	4.17%
2	9:55:00	1363.09	4.12%
2	10:00:00	1347.37	4.07%
2	10:05:00	1331.75	4.02%
2	10:10:00	1316.22	3.98%
2	10:15:00	1300.78	3.93%
2	10:20:00	1285.44	3.88%
2	10:25:00	1270.19	3.84%
2	10:30:00	1255.03	3.79%
2	10:35:00	1239.97	3.75%
2	10:40:00	1225	3.70%
2	10:45:00	1210.13	3.66%
2	10:50:00	1195.35	3.61%
2	10:55:00	1180.67	3.57%
2	11:00:00	1166.08	3.52%
2	11:05:00	1151.58	3.48%
2	11:10:00	1137.19	3.44%
2	11:15:00	1122.89	3.39%
2	11:20:00	1108.68	3.35%
2	11:25:00	1094.57	3.31%

2	4:50:00	1898.73	7.08%
2	4:55:00	1880.24	7.01%
2	5:00:00	1861.83	6.94%
2	5:05:00	1843.51	6.88%
2	5:10:00	1825.28	6.81%
2	5:15:00	1807.13	6.74%
2	5:20:00	1789.07	6.67%
2	5:25:00	1771.09	6.61%
2	5:30:00	1753.2	6.54%
2	5:35:00	1735.4	6.47%
2	5:40:00	1717.69	6.41%
2	5:45:00	1700.06	6.34%
2	5:50:00	1682.52	6.28%
2	5:55:00	1665.07	6.21%
2	6:00:00	1647.71	6.15%
2	6:05:00	1630.43	6.08%
2	6:10:00	1613.25	6.02%
2	6:15:00	1596.15	5.95%
2	6:20:00	1579.14	5.89%
2	6:25:00	1562.23	5.83%
2	6:30:00	1545.4	5.76%
2	6:35:00	1528.66	5.70%
2	6:40:00	1512.01	5.64%
2	6:45:00	1495.45	5.58%
2	6:50:00	1478.99	5.52%
2	6:55:00	1462.61	5.46%
2	7:00:00	1446.33	5.39%
2	7:05:00	1430.13	5.33%
2	7:10:00	1414.03	5.27%
2	7:15:00	1398.02	5.21%
2	7:20:00	1382.1	5.16%
2	7:25:00	1366.27	5.10%
2	7:30:00	1350.54	5.04%
2	7:35:00	1334.89	4.98%
2	7:40:00	1319.35	4.92%
2	7:45:00	1303.89	4.86%
2	7:50:00	1288.53	4.81%
2	7:55:00	1273.26	4.75%
2	8:00:00	1258.08	4.69%
2	8:05:00	1243	4.64%
2	8:10:00	1228.02	4.58%
2	8:15:00	1213.12	4.52%
2	8:20:00	1198.33	4.47%
2	8:25:00	1183.62	4.41%
2	8:30:00	1169.02	4.36%
2	8:35:00	1154.5	4.31%
2	8:40:00	1140.09	4.25%
2	8:45:00	1125.77	4.20%
2	8:50:00	1111.54	4.15%
2	8:55:00	1097.41	4.09%
2	9:00:00	1083.38	4.04%
2	9:05:00	1069.45	3.99%
2	9:10:00	1055.61	3.94%
2	9:15:00	1041.87	3.89%
2	9:20:00	1028.23	3.84%
2	9:25:00	1014.68	3.78%
2	9:30:00	1001.24	3.73%
2	9:35:00	987.89	3.68%
2	9:40:00	974.64	3.64%
2	9:45:00	961.49	3.59%
2	9:50:00	948.44	3.54%
2	9:55:00	935.49	3.49%
2	10:00:00	922.63	3.44%
2	10:05:00	909.88	3.39%
2	10:10:00	897.22	3.35%
2	10:15:00	884.67	3.30%
2	10:20:00	872.22	3.25%
2	10:25:00	859.87	3.21%
2	10:30:00	847.62	3.16%
2	10:35:00	835.46	3.12%
2	10:40:00	823.42	3.07%
2	10:45:00	811.47	3.03%
2	10:50:00	799.62	2.98%
2	10:55:00	787.88	2.94%
2	11:00:00	776.24	2.90%
2	11:05:00	764.7	2.85%
2	11:10:00	753.26	2.81%
2	11:15:00	741.93	2.77%
2	11:20:00	730.7	2.73%
2	11:25:00	719.58	2.68%

2	4:50:00	49.83	0.44%
2	4:55:00	49.47	0.44%
2	5:00:00	49.11	0.43%
2	5:05:00	48.76	0.43%
2	5:10:00	48.41	0.43%
2	5:15:00	48.06	0.43%
2	5:20:00	47.72	0.42%
2	5:25:00	47.39	0.42%
2	5:30:00	47.05	0.42%
2	5:35:00	46.72	0.41%
2	5:40:00	46.39	0.41%
2	5:45:00	46.07	0.41%
2	5:50:00	45.75	0.40%
2	5:55:00	45.44	0.40%
2	6:00:00	45.12	0.40%
2	6:05:00	44.81	0.40%
2	6:10:00	44.51	0.39%
2	6:15:00	44.2	0.39%
2	6:20:00	43.91	0.39%
2	6:25:00	43.61	0.39%
2	6:30:00	43.32	0.38%
2	6:35:00	43.02	0.38%
2	6:40:00	42.74	0.38%
2	6:45:00	42.45	0.38%
2	6:50:00	42.17	0.37%
2	6:55:00	41.89	0.37%
2	7:00:00	41.62	0.37%
2	7:05:00	41.35	0.37%
2	7:10:00	41.08	0.36%
2	7:15:00	40.81	0.36%
2	7:20:00	40.54	0.36%
2	7:25:00	40.28	0.36%
2	7:30:00	40.02	0.35%
2	7:35:00	39.77	0.35%
2	7:40:00	39.51	0.35%
2	7:45:00	39.26	0.35%
2	7:50:00	39.01	0.35%
2	7:55:00	38.76	0.34%
2	8:00:00	38.52	0.34%
2	8:05:00	38.28	0.34%
2	8:10:00	38.04	0.34%
2	8:15:00	37.8	0.33%
2	8:20:00	37.57	0.33%
2	8:25:00	37.34	0.33%
2	8:30:00	37.11	0.33%
2	8:35:00	36.88	0.33%
2	8:40:00	36.65	0.32%
2	8:45:00	36.43	0.32%
2	8:50:00	36.21	0.32%
2	8:55:00	35.99	0.32%
2	9:00:00	35.77	0.32%
2	9:05:00	35.56	0.31%
2	9:10:00	35.34	0.31%
2	9:15:00	35.13	0.31%
2	9:20:00	34.92	0.31%
2	9:25:00	34.71	0.31%
2	9:30:00	34.51	0.31%
2	9:35:00	34.31	0.30%
2	9:40:00	34.1	0.30%
2	9:45:00	33.9	0.30%
2	9:50:00	33.71	0.30%
2	9:55:00	33.51	0.30%
2	10:00:00	33.32	0.29%
2	10:05:00	33.12	0.29%
2	10:10:00	32.93	0.29%
2	10:15:00	32.75	0.29%
2	10:20:00	32.56	0.29%
2	10:25:00	32.37	0.29%
2	10:30:00	32.19	0.28%
2	10:35:00	32.01	0.28%
2	10:40:00	31.83	0.28%
2	10:45:00	31.65	0.28%
2	10:50:00	31.47	0.28%
2	10:55:00	31.29	0.28%
2	11:00:00	31.12	0.28%
2	11:05:00	30.95	0.27%
2	11:10:00	30.78	0.27%
2	11:15:00	30.61	0.27%
2	11:20:00	30.44	0.27%
2	11:25:00	30.27	0.27%

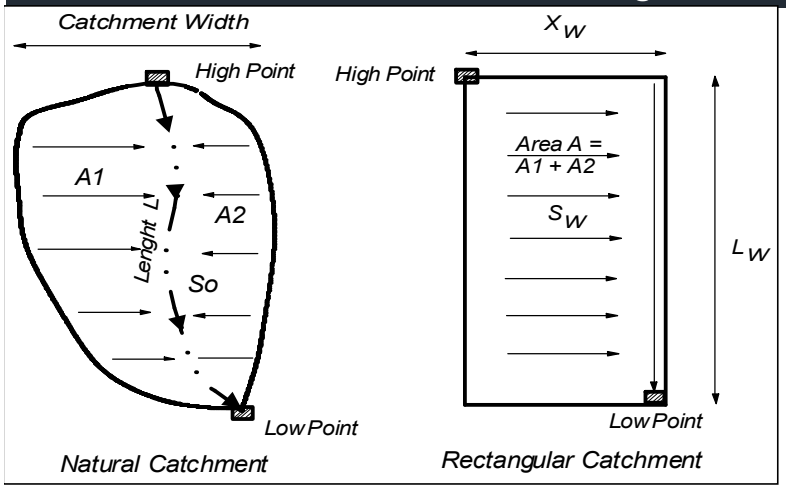
2	11:30:00	1101.55	2.84%
2	11:35:00	1087.49	2.80%
2	11:40:00	1073.53	2.76%
2	11:45:00	1059.67	2.73%
2	11:50:00	1045.9	2.69%
2	11:55:00	1032.23	2.66%
2	12:00:00	1018.65	2.62%
2	12:05:00	1005.18	2.59%
2	12:10:00	991.8	2.55%
2	12:15:00	978.52	2.52%
2	12:20:00	965.34	2.49%
2	12:25:00	952.26	2.45%
2	12:30:00	939.28	2.42%
2	12:35:00	926.4	2.39%
2	12:40:00	913.61	2.35%
2	12:45:00	900.93	2.32%
2	12:50:00	888.35	2.29%
2	12:55:00	875.86	2.25%
2	13:00:00	863.48	2.22%
2	13:05:00	851.2	2.19%
2	13:10:00	839.02	2.16%
2	13:15:00	826.94	2.13%
2	13:20:00	814.97	2.10%
2	13:25:00	803.09	2.07%
2	13:30:00	791.32	2.04%
2	13:35:00	779.65	2.01%
2	13:40:00	768.08	1.98%
2	13:45:00	756.61	1.95%
2	13:50:00	745.25	1.92%
2	13:55:00	733.99	1.89%
2	14:00:00	722.83	1.86%
2	14:05:00	711.78	1.83%
2	14:10:00	700.83	1.80%
2	14:15:00	689.98	1.78%
2	14:20:00	679.24	1.75%
2	14:25:00	668.61	1.72%
2	14:30:00	658.07	1.69%
2	14:35:00	647.65	1.67%
2	14:40:00	637.33	1.64%
2	14:45:00	627.11	1.61%
2	14:50:00	617	1.59%
2	14:55:00	607	1.56%
2	15:00:00	597.1	1.54%
2	15:05:00	587.31	1.51%
2	15:10:00	577.62	1.49%
2	15:15:00	568.04	1.46%
2	15:20:00	558.57	1.44%
2	15:25:00	549.21	1.41%
2	15:30:00	539.95	1.39%
2	15:35:00	530.8	1.37%
2	15:40:00	521.76	1.34%
2	15:45:00	512.82	1.32%
2	15:50:00	504	1.30%
2	15:55:00	495.28	1.28%
2	16:00:00	486.67	1.25%
2	16:05:00	478.17	1.23%
2	16:10:00	469.78	1.21%
2	16:15:00	461.5	1.19%
2	16:20:00	453.33	1.17%
2	16:25:00	445.27	1.15%
2	16:30:00	437.32	1.13%
2	16:35:00	429.47	1.11%
2	16:40:00	421.74	1.09%
2	16:45:00	414.12	1.07%
2	16:50:00	406.61	1.05%
2	16:55:00	399.21	1.03%
2	17:00:00	391.92	1.01%
2	17:05:00	384.74	0.99%
2	17:10:00	377.68	0.97%

2	11:30:00	1080.56	3.26%
2	11:35:00	1066.65	3.22%
2	11:40:00	1052.83	3.18%
2	11:45:00	1039.11	3.14%
2	11:50:00	1025.48	3.10%
2	11:55:00	1011.96	3.06%
2	12:00:00	998.53	3.02%
2	12:05:00	985.2	2.98%
2	12:10:00	971.97	2.94%
2	12:15:00	958.84	2.90%
2	12:20:00	945.81	2.86%
2	12:25:00	932.88	2.82%
2	12:30:00	920.05	2.78%
2	12:35:00	907.31	2.74%
2	12:40:00	894.68	2.70%
2	12:45:00	882.15	2.67%
2	12:50:00	869.71	2.63%
2	12:55:00	857.38	2.59%
2	13:00:00	845.15	2.55%
2	13:05:00	833.02	2.52%
2	13:10:00	820.99	2.48%
2	13:15:00	809.07	2.44%
2	13:20:00	797.24	2.41%
2	13:25:00	785.52	2.37%
2	13:30:00	773.9	2.34%
2	13:35:00	762.38	2.30%
2	13:40:00	750.96	2.27%
2	13:45:00	739.65	2.23%
2	13:50:00	728.44	2.20%
2	13:55:00	717.34	2.17%
2	14:00:00	706.34	2.13%
2	14:05:00	695.44	2.10%
2	14:10:00	684.65	2.07%
2	14:15:00	673.96	2.04%
2	14:20:00	663.37	2.00%
2	14:25:00	652.89	1.97%
2	14:30:00	642.52	1.94%
2	14:35:00	632.25	1.91%
2	14:40:00	622.09	1.88%
2	14:45:00	612.03	1.85%
2	14:50:00	602.08	1.82%
2	14:55:00	592.23	1.79%
2	15:00:00	582.49	1.76%
2	15:05:00	572.86	1.73%
2	15:10:00	563.33	1.70%
2	15:15:00	553.91	1.67%
2	15:20:00	544.6	1.65%
2	15:25:00	535.4	1.62%
2	15:30:00	526.3	1.59%
2	15:35:00	517.31	1.56%
2	15:40:00	508.43	1.54%
2	15:45:00	499.66	1.51%
2	15:50:00	491	1.48%
2	15:55:00	482.44	1.46%
2	16:00:00	474	1.43%
2	16:05:00	465.66	1.41%
2	16:10:00	457.44	1.38%
2	16:15:00	449.32	1.36%
2	16:20:00	441.31	1.33%
2	16:25:00	433.41	1.31%
2	16:30:00	425.63	1.29%
2	16:35:00	417.95	1.26%
2	16:40:00	410.38	1.24%
2	16:45:00	402.93	1.22%
2	16:50:00	395.58	1.20%
2	16:55:00	388.35	1.17%
2	17:00:00	381.22	1.15%
2	17:05:00	374.21	1.13%
2	17:10:00	367.31	1.11%

2	11:30:00	708.55	2.64%
2	11:35:00	697.64	2.60%
2	11:40:00	686.82	2.56%
2	11:45:00	676.11	2.52%
2	11:50:00	665.51	2.48%
2	11:55:00	655	2.44%
2	12:00:00	644.61	2.40%
2	12:05:00	634.32	2.37%
2	12:10:00	624.13	2.33%
2	12:15:00	614.05	2.29%
2	12:20:00	604.08	2.25%
2	12:25:00	594.21	2.22%
2	12:30:00	584.45	2.18%
2	12:35:00	574.8	2.14%
2	12:40:00	565.25	2.11%
2	12:45:00	555.81	2.07%
2	12:50:00	546.48	2.04%
2	12:55:00	537.25	2.00%
2	13:00:00	528.14	1.97%
2	13:05:00	519.13	1.94%
2	13:10:00	510.22	1.90%
2	13:15:00	501.43	1.87%
2	13:20:00	492.75	1.84%
2	13:25:00	484.17	1.81%
2	13:30:00	475.7	1.77%
2	13:35:00	467.34	1.74%
2	13:40:00	459.09	1.71%
2	13:45:00	450.96	1.68%
2	13:50:00	442.93	1.65%
2	13:55:00	435.01	1.62%
2	14:00:00	427.2	1.59%
2	14:05:00	419.5	1.56%
2	14:10:00	411.91	1.54%
2	14:15:00	404.43	1.51%
2	14:20:00	397.06	1.48%
2	14:25:00	389.81	1.45%
2	14:30:00	382.66	1.43%
2	14:35:00	375.63	1.40%
2	14:40:00	368.7	1.38%
2	14:45:00	361.89	1.35%
2	14:50:00	355.2	1.32%
2	14:55:00	348.61	1.30%
2	15:00:00	342.14	1.28%
2	15:05:00	335.77	1.25%
2	15:10:00	329.53	1.23%
2	15:15:00	323.44	1.21%
2	15:20:00	317.52	1.18%
2	15:25:00	311.75	1.16%
2	15:30:00	306.13	1.14%
2	15:35:00	300.65	1.12%
2	15:40:00	295.32	1.10%
2	15:45:00	290.12	1.08%
2	15:50:00	285.05	1.06%
2	15:55:00	280.11	1.04%
2	16:00:00	275.3	1.03%
2	16:05:00	270.6	1.01%
2	16:10:00	266.02	0.99%
2	16:15:00	261.55	0.98%
2	16:20:00	257.19	0.96%
2	16:25:00	252.94	0.94%
2	16:30:00	248.78	0.93%
2	16:35:00	244.73	0.91%
2	16:40:00	240.77	0.90%
2	16:45:00	236.9	0.88%
2	16:50:00	233.13	0.87%
2	16:55:00	229.44	0.86%
2	17:00:00	225.84	0.84%
2	17:05:00	222.31	0.83%
2	17:10:00	218.87	0.82%

2	11:30:00	30.11	0.27%
2	11:35:00	29.94	0.27%
2	11:40:00	29.78	0.26%
2	11:45:00	29.62	0.26%
2	11:50:00	29.46	0.26%
2	11:55:00	29.3	0.26%
2	12:00:00	29.14	0.26%
2	12:05:00	28.99	0.26%
2	12:10:00	28.83	0.26%
2	12:15:00	28.68	0.25%
2	12:20:00	28.53	0.25%
2	12:25:00	28.38	0.25%
2	12:30:00	28.23	0.25%
2	12:35:00	28.08	0.25%
2	12:40:00	27.93	0.25%
2	12:45:00	27.79	0.25%
2	12:50:00	27.64	0.24%
2	12:55:00	27.5	0.24%
2	13:00:00	27.36	0.24%
2	13:05:00	27.22	0.24%
2	13:10:00	27.08	0.24%
2	13:15:00	26.94	0.24%
2	13:20:00	26.8	0.24%
2	13:25:00	26.67	0.24%
2	13:30:00	26.53	0.23%
2	13:35:00	26.4	0.23%
2	13:40:00	26.26	0.23%
2	13:45:00	26.13	0.23%
2	13:50:00	26	0.23%
2	13:55:00	25.87	0.23%
2	14:00:00	25.74	0.23%
2	14:05:00	25.62	0.23%
2	14:10:00	25.49	0.23%
2	14:15:00	25.36	0.22%
2	14:20:00	25.24	0.22%
2	14:25:00	25.11	0.22%
2	14:30:00	24.99	0.22%
2	14:35:00	24.87	0.22%
2	14:40:00	24.75	0.22%
2	14:45:00	24.63	0.22%
2	14:50:00	24.51	0.22%
2	14:55:00	24.39	0.22%
2	15:00:00	24.27	0.21%
2	15:05:00	24.16	0.21%
2	15:10:00	24.04	0.21%
2	15:15:00	23.93	0.21%
2	15:20:00	23.81	0.21%
2	15:25:00	23.7	0.21%
2	15:30:00	23.59	0.21%
2	15:35:00	23.48	0.21%
2	15:40:00	23.37	0.21%
2	15:45:00	23.26	0.21%
2	15:50:00	23.15	0.20%
2	15:55:00	23.04	0.20%
2	16:00:00	22.94	0.20%
2	16:05:00	22.83	0.20%
2	16:10:00	22.72	0.20%
2	16:15:00	22.62	0.20%
2	16:20:00	22.51	0.20%
2	16:25:00	22.41	0.20%
2	16:30:00	22.31	0.20%
2	16:35:00	22.21	0.20%
2	16:40:00	22.11	0.20%
2	16:45:00	22.01	0.19%
2	16:50:00	21.91	0.19%
2	16:55:00	21.81	0.19%
2	17:00:00	21.71	0.19%
2	17:05:00	21.61	0.19%
2	17:10:00	21.52	0.19%

Convert Natural Catchment to a Rectangular Shape



Subcatchment Center	Z=0.5
Side Collector	Z=1
Skewed Location	0.5<Z<1

Dimensionless Variables

$$Y = \frac{L}{L_w}; \qquad X = \frac{A}{L^2}$$

$$Y = (1.5 - Z)(2.286X - 0.286X^2)$$

$$\frac{Lw}{L} = (1.5 - Z)[2.286(\frac{A}{L^2}) - 0.286(\frac{A}{L^2})^2]$$

$$S_o/S_w = A/(LL_w) + L_w/L$$

$$X_w = A/L_w$$

Subarea ID	Area acre	A1 acre	A2 acre	L ft	High Pt Elev. ft	Low Pt Elev. ft	Z=Am/A	X=A/L²	Y=Lw/L	Lw ft	Xw ft	So %	So/Sw	Sw %
AA	15.16	7.40	7.76	1,420	73.0	22.0	0.51	0.33	0.71	1,007	655	3.59	1.17	3.07
BB	2.74	1.96	0.78	570	54.5	20.2	0.72	0.37	0.63	358	333	6.02	1.21	4.96
CC	1.03	0.27	0.76	222	14.0	7.0	0.74	0.91	1.41	312	144	3.15	2.05	1.54
DD	12.75	2.18	10.57	1,012	50.3	11.5	0.83	0.54	0.78	785	708	3.83	1.47	2.60
EE	1.81	1.10	0.71	650	328.2	304.0	0.61	0.19	0.37	242	326	3.72	0.87	4.26
FF	0.80	0.53	0.27	459	28.3	10.1	0.66	0.17	0.31	142	245	3.97	0.84	4.70
GG	4.90	2.60	2.30	481	320.0	294.6	0.53	0.92	1.81	870	245	5.28	2.32	2.28
HH	8.56	5.39	3.17	472	310.8	274.0	0.63	1.67	2.63	1,243	300	7.80	3.27	2.39
II	0.90	0.45	0.45	320	92.4	72.3	0.50	0.38	0.83	267	147	6.28	1.29	4.86
JJ	6.78	1.96	4.82	692	96.3	55.7	0.71	0.62	1.03	710	416	5.87	1.63	3.61
KK	0.92	0.70	0.22	567	50.8	30.5	0.76	0.12	0.21	118	341	3.58	0.81	4.43
LL	0.51	0.20	0.31	190	35.2	28.0	0.61	0.62	1.16	220	101	3.79	1.69	2.24
MD2a	5.86	2.11	3.75	805	338.4	305.4	0.64	0.39	0.74	593	431	4.10	1.27	3.22
MD2b	6.30	3.85	2.45	884	322.6	274.5	0.61	0.35	0.68	603	455	5.44	1.20	4.55
MD5	1.58	0.81	0.77	631	64.0	61.4	0.51	0.17	0.38	241	286	0.41	0.83	0.49
ME	3.21	1.12	2.09	462	98.4	76.3	0.65	0.66	1.17	539	259	4.78	1.73	2.77
MO2	0.51	0.25	0.26	179	56.3	48.9	0.51	0.69	1.43	257	87	4.13	1.92	2.16
MO3	1.36	0.69	0.67	392	89.1	60.5	0.51	0.39	0.83	326	182	7.30	1.30	5.63
MO4	0.74	0.16	0.58	245	56.3	48.5	0.78	0.54	0.82	201	160	3.18	1.47	2.16
MO5	60.15	21.32	38.83	2,827	448.6	289.9	0.65	0.33	0.61	1,736	1,509	5.61	1.15	4.89
MO6	0.63	0.23	0.40	326	304.2	293.6	0.63	0.26	0.49	161	170	3.25	1.02	3.20
MO7a	65.57	25.51	40.06	2,674	485.9	309.6	0.61	0.40	0.77	2,062	1,385	6.59	1.29	5.11
MO7b	18.40	7.47	10.93	1,405	354.2	280.3	0.59	0.41	0.80	1,121	715	5.26	1.31	4.02
MO8	1.38	0.98	0.40	603	308.2	270.3	0.71	0.17	0.29	176	341	6.29	0.86	7.33

This title is confusing as to what this model is looking at. If Phase I ponds are present, then this shouldn't be a pre-development scenario.

```
[TITLE]
;;Project Title/Notes
PREDEVELOPMENT CONDITIONS FOR PHASE I CONDITION DETENTION PONDS

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         DYNWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           04/16/2026
START_TIME           00:00:00
REPORT_START_DATE    04/16/2026
REPORT_START_TIME    00:00:00
END_DATE             04/30/2026
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:05:00
WET_STEP             00:05:00
DRY_STEP             01:00:00
ROUTING_STEP         0:00:20
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.566
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
CONSTANT         0.0
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
```

```
;;-------------- --------- ------ ------ ----------
RG               CUMULATIVE 0:05     1.0      TIMESERIES 2-YEAR

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope
  CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- --------
-------- -------- ----------------
A1F              RG               POND_1B          6.55     2        664      2.94
  0
A2F              RG               POND_1B          0.29     2        429      2.02
  0
A3F              RG               POND_1B          1.18     2        301      5.79
  0
A4F              RG               POND_1B          5.65     2        524      3.32
  0
A5F              RG               POND_1B          2.22     2        469      3.10
  0
B1F              RG               POND_2           5.02     2        380      3.51
  0
B2F              RG               POND_2           0.31     2        142      2.66
  0
B3F              RG               POND_2           0.36     2        157      3.47
  0
B4F              RG               POND_2           0.45     2        172      2.55
  0
B5F              RG               POND_2           1.11     2        312      2.68
  0
B6F              RG               POND_2           3.38     2        213      6.69
  0
B7F              RG               POND_2           0.74     2        246      1.83
  0
B8F              RG               POND_2           0.20     2        133      1.91
  0
B9F              RG               POND_2           1.17     2        506      10.01
  0
C1F              RG               POND_3           9.66     2        527      3.68
  0
D1F              RG               POND_4B          7.42     2        548      3.46
  0
D2F              RG               POND_4B          0.61     2        226      4.39
  0
MD2              RG               POND_4B          12.16    2        593      3.22
  0
MD5              RG               POND_4B          1.58     2        241      0.49
  0
ME               RG               POND_5           3.21     2        539      2.77
  0
MO1              RG               POND_1B          7.52     02       776      4.05
  0
```

```
MO2              RG               POND_1B          .51      70.59    257      5.63
  0
MO3              RG               POND_1B          1.36     58.97    326      5.63
  0
MO4              RG               POND_1B          .74      68.92    201      2.16
  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo
PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ----------
----------
A1F              0.013      0.1        0.05       0.05       25         OUTLET
A2F              0.013      0.1        0.05       0.05       25         OUTLET
A3F              0.013      0.1        0.05       0.05       25         OUTLET
A4F              0.013      0.1        0.05       0.05       25         OUTLET
A5F              0.013      0.1        0.05       0.05       25         OUTLET
B1F              0.013      0.1        0.05       0.05       25         OUTLET
B2F              0.013      0.1        0.05       0.05       25         OUTLET
B3F              0.013      0.1        0.05       0.05       25         OUTLET
B4F              0.013      0.1        0.05       0.05       25         OUTLET
B5F              0.013      0.1        0.05       0.05       25         OUTLET
B6F              0.013      0.1        0.05       0.05       25         OUTLET
B7F              0.013      0.1        0.05       0.05       25         OUTLET
B8F              0.013      0.1        0.05       0.05       25         OUTLET
B9F              0.013      0.1        0.05       0.05       25         OUTLET
C1F              0.013      0.1        0.05       0.05       25         OUTLET
D1F              0.013      0.1        0.05       0.05       25         OUTLET
D2F              0.013      0.1        0.05       0.05       25         OUTLET
MD2              0.013      0.1        0.05       0.05       25         OUTLET
MD5              0.013      0.1        0.05       0.05       25         OUTLET
ME               0.013      0.1        0.05       0.05       25         OUTLET
MO1              0.013      0.1        0.05       0.05       25         OUTLET
MO2              0.013      0.1        0.05       0.05       25         OUTLET
MO3              0.013      0.1        0.05       0.05       25         OUTLET
MO4              0.013      0.1        0.05       0.05       25         OUTLET

[INFILTRATION]
;;Subcatchment   Param1     Param2     Param3     Param4     Param5
;;-------------- ---------- ---------- ---------- ---------- ----------
A1F              4.5        0.6        6.48       7          0
A2F              4.5        0.6        6.48       7          0
A3F              4.5        0.6        6.48       7          0
A4F              4.5        0.6        6.48       7          0
A5F              4.5        0.6        6.48       7          0
B1F              4.5        0.6        6.48       7          0
B2F              4.5        0.6        6.48       7          0
B3F              4.5        0.6        6.48       7          0
B4F              4.5        0.6        6.48       7          0
B5F              4.5        0.6        6.48       7          0
```

```
B6F              4.5        0.6        6.48       7          0
B7F              4.5        0.6        6.48       7          0
B8F              4.5        0.6        6.48       7          0
B9F              3.0        0.5        6.48       7          0
C1F              3.0        0.5        6.48       7          0
D1F              3.0        0.5        6.48       7          0
D2F              3.0        0.5        6.48       7          0
MD2              4.5        0.6        6.48       7          0
MD5              3.0        0.5        6.48       7          0
ME               3.0        0.5        6.48       7          0
MO1              3.0        0.5        6.48       7          0
MO2              4.5        0.6        6.48       7          0
MO3              4.5        0.6        6.48       7          0
MO4              4.5        0.6        6.48       7          0

[JUNCTIONS]
;;Name           Elevation  MaxDepth   InitDepth  SurDepth   Aponded
;;-------------- ---------- ---------- ---------- ---------- ----------
24               7305.15    9.91       0          0          0
31               7272.09    5.96       0          0          0
36               7270.3     6.75       0          0          0
;7+05.83
45               7267.94    12.82      0          0          0
;2+77.41
46               7263.99    13.87      0          0          0
;1+20.17
47               7262.97    9.67       0          0          0
;1+39.82
49               7270.5     8.5        0          2.5        0
;3+90.64
59               7266.16    15.6       0          0          0

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
;DOWNSTREAM PORTION OF POND 1.
POND_1B          7306.33    FREE                        NO
POND_2           7273.33    FREE                        NO
;DOWNSTREAM PORTION OF POND 4
POND_4B          7261.33    FREE                        NO
POND_3           7268.97    FREE                        NO
POND_5           7269.33    FREE                        NO

[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset
OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ----------
---------- ---------- ----------
L22              46               47               153.24     .013       0
.25        0          0
```

```
L23              46               59               109.24     .013       0
1          0          0
L24              45               59               306.1      .013       0
.25        0          0
L25              49               45               35.27      .013       0
2          0          0

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4
Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ----------
---------- ----------
L22              CIRCULAR     6.5              0          0          0          1

L23              CIRCULAR     6.5              0          0          0          1

L24              CIRCULAR     6.5              0          0          0          1

L25              CIRCULAR     4.5              0          0          0          1


[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BALD_MTN_DET     Storage    0          2000
BALD_MTN_DET                1          21089
BALD_MTN_DET                3          197908
BALD_MTN_DET                5          487608
BALD_MTN_DET                5.7        634609
;
EX_WETLAND       Storage    0          2055
EX_WETLAND                  2          11240
EX_WETLAND                  4          29650
EX_WETLAND                  6          48392
EX_WETLAND                  7          58009
;
POND_2_PH2       Storage    0.00       10410
POND_2_PH2                  0.67       10963
POND_2_PH2                  1.67       12719
POND_2_PH2                  2.67       14905
POND_2_PH2                  3.67       17066
POND_2_PH2                  4.67       19340
POND_2_PH2                  5.67       21660
;
POND_5           Storage    0.00       650
POND_5                      0.67       1151
POND_5                      1.67       1340
POND_5                      2.67       2044
POND_5                      3.67       3047
POND_5                      4.67       4256
```

```
POND_5                    5.67       5630
POND_5                    6.87       7263
;
POND_3           Storage  0.00       3590
POND_3                    1.00       5985
POND_3                    2.00       8494
POND_3                    3.00       11115
POND_3                    4.00       12100
POND_3                    5.00       13200
;
POND_1B          Storage  0.00       25
POND_1B                   0.67       12785
POND_1B                   1.67       15418
POND_1B                   2.67       17783
POND_1B                   3.67       20628
POND_1B                   4.67       23592
POND_1B                   5.57       26769
POND_1B                   5.67       30859
POND_1B                   6.17       32440
POND_1B                   6.67       33242
POND_1B                   7.77       35689
;
POND_1A          Storage  0          106
POND_1A                   2          3052
POND_1A                   4          5574
POND_1A                   6          8745
;
POND_4A-STG-AREA Storage  0          3686
POND_4A-STG-AREA          2          7254
POND_4A-STG-AREA          4          12135
;
POND_4B_STG-AREA Storage  0          2287
POND_4B_STG-AREA          2          5235
POND_4B_STG-AREA          4          9272
POND_4B_STG-AREA          6          14318

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
EURV                       0          0
EURV                       0:05       0.015
EURV                       0:10       0.049
EURV                       0:15       0.085
EURV                       0:20       0.128
EURV                       0:25       0.192
EURV                       0:30       0.276
EURV                       0:35       0.450
EURV                       0:40       0.762
EURV                       0:45       0.882
EURV                       0:50       0.954
```

```
EURV                    0:55        1.000
EURV                    1:00        1.040
EURV                    1:05        1.074
EURV                    1:10        1.089
EURV                    1:15        1.102
EURV                    1:20        1.114
EURV                    1:25        1.126
EURV                    1:30        1.137
EURV                    1:35        1.147
EURV                    1:40        1.158
EURV                    1:45        1.167
EURV                    1:50        1.177
EURV                    1:55        1.187
EURV                    2:00        1.197
;
WQCV                    0           0
WQCV                    0:05        0.006
WQCV                    0:10        0.020
WQCV                    0:15        0.034
WQCV                    0:20        0.052
WQCV                    0:25        0.077
WQCV                    0:30        0.111
WQCV                    0:35        0.181
WQCV                    0:40        0.306
WQCV                    0:45        0.354
WQCV                    0:50        0.384
WQCV                    0:55        0.402
WQCV                    1:00        0.418
WQCV                    1:05        0.432
WQCV                    1:10        0.438
WQCV                    1:15        0.443
WQCV                    1:20        0.448
WQCV                    1:25        0.452
WQCV                    1:30        0.457
WQCV                    1:35        0.461
WQCV                    1:40        0.465
WQCV                    1:45        0.469
WQCV                    1:50        0.473
WQCV                    1:55        0.477
WQCV                    2:00        0.481
;
2-YEAR                  0           0
2-YEAR                  0:05        0.017
2-YEAR                  0:10        0.055
2-YEAR                  0:15        0.094
2-YEAR                  0:20        0.143
2-YEAR                  0:25        0.213
2-YEAR                  0:30        0.307
2-YEAR                  0:35        0.501
2-YEAR                  0:40        0.847
```

```
2-YEAR                  0:45       0.981
2-YEAR                  0:50       1.061
2-YEAR                  0:55       1.113
2-YEAR                  1:00       1.157
2-YEAR                  1:05       1.195
2-YEAR                  1:10       1.211
2-YEAR                  1:15       1.226
2-YEAR                  1:20       1.239
2-YEAR                  1:25       1.252
2-YEAR                  1:30       1.265
2-YEAR                  1:35       1.276
2-YEAR                  1:40       1.288
2-YEAR                  1:45       1.298
2-YEAR                  1:50       1.309
2-YEAR                  1:55       1.320
2-YEAR                  2:00       1.332
;
5-YEAR                  0          0
5-YEAR                  0:05       0.021
5-YEAR                  0:10       0.069
5-YEAR                  0:15       0.119
5-YEAR                  0:20       0.180
5-YEAR                  0:25       0.269
5-YEAR                  0:30       0.387
5-YEAR                  0:35       0.632
5-YEAR                  0:40       1.068
5-YEAR                  0:45       1.236
5-YEAR                  0:50       1.338
5-YEAR                  0:55       1.403
5-YEAR                  1:00       1.458
5-YEAR                  1:05       1.506
5-YEAR                  1:10       1.527
5-YEAR                  1:15       1.545
5-YEAR                  1:20       1.562
5-YEAR                  1:25       1.578
5-YEAR                  1:30       1.595
5-YEAR                  1:35       1.608
5-YEAR                  1:40       1.623
5-YEAR                  1:45       1.637
5-YEAR                  1:50       1.650
5-YEAR                  1:55       1.664
5-YEAR                  2:00       1.679
;
10-YEAR                 0          0
10-YEAR                 0:05       0.025
10-YEAR                 0:10       0.081
10-YEAR                 0:15       0.138
10-YEAR                 0:20       0.210
10-YEAR                 0:25       0.313
10-YEAR                 0:30       0.452
```

```
10-YEAR                 0:35       0.737
10-YEAR                 0:40       1.246
10-YEAR                 0:45       1.442
10-YEAR                 0:50       1.561
10-YEAR                 0:55       1.636
10-YEAR                 1:00       1.701
10-YEAR                 1:05       1.757
10-YEAR                 1:10       1.782
10-YEAR                 1:15       1.803
10-YEAR                 1:20       1.822
10-YEAR                 1:25       1.841
10-YEAR                 1:30       1.860
10-YEAR                 1:35       1.876
10-YEAR                 1:40       1.894
10-YEAR                 1:45       1.909
10-YEAR                 1:50       1.925
10-YEAR                 1:55       1.941
10-YEAR                 2:00       1.958
;
25-YEAR                 0          0
25-YEAR                 0:05       0.028
25-YEAR                 0:10       0.092
25-YEAR                 0:15       0.158
25-YEAR                 0:20       0.240
25-YEAR                 0:25       0.358
25-YEAR                 0:30       0.516
25-YEAR                 0:35       0.842
25-YEAR                 0:40       1.424
25-YEAR                 0:45       1.648
25-YEAR                 0:50       1.784
25-YEAR                 0:55       1.870
25-YEAR                 1:00       1.944
25-YEAR                 1:05       2.008
25-YEAR                 1:10       2.036
25-YEAR                 1:15       2.060
25-YEAR                 1:20       2.082
25-YEAR                 1:25       2.104
25-YEAR                 1:30       2.126
25-YEAR                 1:35       2.144
25-YEAR                 1:40       2.164
25-YEAR                 1:45       2.182
25-YEAR                 1:50       2.200
25-YEAR                 1:55       2.218
25-YEAR                 2:00       2.238
;
50-YEAR                 0          0
50-YEAR                 0:05       0.032
50-YEAR                 0:10       0.104
50-YEAR                 0:15       0.178
50-YEAR                 0:20       0.270
```

```
50-YEAR                 0:25       0.403
50-YEAR                 0:30       0.581
50-YEAR                 0:35       0.947
50-YEAR                 0:40       1.602
50-YEAR                 0:45       1.854
50-YEAR                 0:50       2.007
50-YEAR                 0:55       2.104
50-YEAR                 1:00       2.187
50-YEAR                 1:05       2.259
50-YEAR                 1:10       2.291
50-YEAR                 1:15       2.318
50-YEAR                 1:20       2.342
50-YEAR                 1:25       2.367
50-YEAR                 1:30       2.392
50-YEAR                 1:35       2.412
50-YEAR                 1:40       2.435
50-YEAR                 1:45       2.455
50-YEAR                 1:50       2.475
50-YEAR                 1:55       2.495
50-YEAR                 2:00       2.518
;
100-YEAR                0          0
100-YEAR                0:05       0.035
100-YEAR                0:10       0.116
100-YEAR                0:15       0.199
100-YEAR                0:20       0.302
100-YEAR                0:25       0.451
100-YEAR                0:30       0.650
100-YEAR                0:35       1.061
100-YEAR                0:40       1.794
100-YEAR                0:45       2.076
100-YEAR                0:50       2.248
100-YEAR                0:55       2.356
100-YEAR                1:00       2.449
100-YEAR                1:05       2.530
100-YEAR                1:10       2.565
100-YEAR                1:15       2.596
100-YEAR                1:20       2.623
100-YEAR                1:25       2.651
100-YEAR                1:30       2.679
100-YEAR                1:35       2.701
100-YEAR                1:40       2.727
100-YEAR                1:45       2.749
100-YEAR                1:50       2.772
100-YEAR                1:55       2.795
100-YEAR                2:00       2.820

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
```

NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS -3385.997 -441.059 12727.273 10000.000
Units   None

[COORDINATES]
;;Node   X-Coord   Y-Coord
;;-------------- ------------------ ------------------
24   3627.506   3679.705
31   5153.074   6760.975
36   4342.759   6644.874
45   5592.863   7122.537
46   5534.618   7884.368
47   5284.519   7972.486
49   5680.407   7074.913
59   5783.936   7804.947
POND_1B   3520.057   3698.602
POND_2   4066.757   6524.156
POND_4B   4709.295   8230.487
POND_3   4138.715   7313.509
POND_5   5326.146   7817.331

[VERTICES]
;;Link   X-Coord   Y-Coord
;;-------------- ------------------ ------------------

[Polygons]
;;Subcatchment   X-Coord   Y-Coord
;;-------------- ------------------ ------------------
A1F   3311.526   1192.929
A1F   3268.375   1252.784
A1F   3225.223   1312.639
A1F   2980.234   1421.214
A1F   3005.290   1599.388
A1F   3002.506   2312.082
A1F   2509.744   2309.298
A1F   2300.947   2236.915
A1F   2072.661   2245.267
A1F   1964.063   2291.696
A1F   2029.135   2888.362
A1F   2207.334   2704.157
A1F   2533.699   2714.168
A1F   2579.343   2679.566
A1F   2922.133   2680.130
A1F   3005.290   2648.942
A1F   3269.521   2683.133

A1F	3287.541	3150.655
A1F	3347.608	3187.697
A1F	3325.445	3038.697
A1F	3525.891	2648.942
A1F	3641.883	2623.066
A1F	3772.029	2541.976
A1F	3556.514	1657.851
A1F	3314.310	1165.089
A2F	2038.092	2994.481
A2F	2094.933	3492.483
A2F	2189.260	3473.016
A2F	2258.338	3374.906
A2F	2186.257	3189.700
A2F	2133.198	3148.654
A2F	2088.147	3037.530
A2F	2040.646	3005.290
A3F	3743.997	3276.797
A3F	3743.040	3264.895
A3F	3766.704	3229.399
A3F	3797.327	3122.216
A3F	3817.079	2930.410
A3F	3812.639	2771.437
A3F	3776.448	2570.991
A3F	3636.878	2632.077
A3F	3533.763	2674.124
A3F	3340.547	3034.526
A3F	3367.577	3233.749
A3F	3487.711	3250.768
A3F	3606.844	3288.810
A3F	3696.945	3284.806
A4F	3257.454	2695.147
A4F	3278.477	3146.651
A4F	3333.797	3184.855
A4F	3372.773	3253.062
A4F	3440.980	3255.846
A4F	3605.234	3298.998
A4F	3726.336	3293.430
A4F	3683.930	3455.997
A4F	3627.506	3438.196
A4F	3571.826	3400.612
A4F	3383.909	3357.461
A4F	3254.454	3369.989
A4F	3244.710	3415.924
A4F	2920.379	3646.993
A4F	2933.091	3774.353
A4F	2316.402	3849.437
A4F	2143.653	3829.343
A4F	2098.159	3503.050
A4F	2197.269	3497.043
A4F	2276.358	3374.906

A4F	2202.116	3184.855
A4F	2138.203	3135.639
A4F	2103.285	3040.089
A4F	2046.214	2989.978
A4F	2036.470	2913.419
A4F	2211.860	2724.109
A4F	2352.450	2729.677
A4F	2429.009	2740.813
A4F	2532.016	2740.813
A4F	2586.303	2686.526
A4F	2924.081	2691.143
A4F	3016.184	2662.110
A4F	3198.388	2692.144
A5F	3382.517	4301.225
A5F	3300.390	4249.722
A5F	3376.949	4203.786
A5F	3386.693	4117.483
A5F	3008.073	4168.987
A5F	2938.474	3655.345
A5F	3243.318	3459.076
A5F	3266.982	3381.125
A5F	3407.572	3374.165
A5F	3541.203	3414.532
A5F	3603.842	3450.724
A5F	3679.009	3468.820
A5F	3677.617	3562.082
A5F	3470.212	4312.361
B1F	2889.755	3804.287
B1F	2245.963	3863.447
B1F	2322.870	4609.201
B1F	2416.481	4708.032
B1F	2486.428	4992.692
B1F	2482.600	5075.863
B1F	2433.533	5121.798
B1F	2377.854	5252.297
B1F	2433.185	5393.931
B1F	2494.432	5449.610
B1F	2600.919	5345.212
B1F	2770.045	5346.604
B1F	3066.537	5435.690
B1F	3090.200	5413.419
B1F	3159.800	5457.962
B1F	3137.528	5302.060
B1F	3090.200	5070.991
B1F	3118.040	4937.361
B1F	3118.040	4814.866
B1F	3040.089	4709.076
B1F	3034.521	4631.125
B1F	3034.521	4505.846
B1F	3034.521	4291.481

B1F	2989.978	4171.771
B1F	2925.947	3818.207
B2F	3051.225	4260.857
B2F	3296.214	4235.802
B2F	3367.205	4188.474
B2F	3367.205	4131.403
B2F	3013.641	4195.434
B2F	3035.913	4256.682
B3F	3413.140	4703.508
B3F	3322.661	4755.011
B3F	3108.296	4778.675
B3F	3065.145	4704.900
B3F	3059.577	4569.878
B3F	3074.889	4504.454
B3F	3445.156	4653.396
B3F	3442.372	4684.020
B4F	3143.096	5286.748
B4F	3507.795	5231.069
B4F	3491.091	5132.238
B4F	3209.911	4933.185
B4F	3129.176	4934.577
B4F	3116.648	5034.800
B4F	3141.704	5292.316
B5F	3655.885	5546.388
B5F	3564.322	5612.934
B5F	3223.087	5653.962
B5F	3053.487	5528.040
B5F	2591.123	5367.388
B5F	2607.134	5349.876
B5F	2773.248	5350.877
B5F	3068.952	5438.938
B5F	3093.469	5415.922
B5F	3170.413	5484.888
B5F	3148.142	5294.187
B5F	3519.801	5237.115
B5F	3533.721	5384.666
B5F	3746.694	5469.576
B5F	3776.968	5494.852
B6F	3266.982	1074.610
B6F	3351.070	1188.962
B6F	3435.158	1303.315
B6F	3699.567	2146.618
B6F	3811.307	2682.525
B6F	3833.774	2763.571
B6F	3829.343	3023.385
B6F	3787.703	3230.292
B6F	3739.629	3312.419
B6F	3687.548	3558.800
B6F	3484.131	4320.713
B6F	3381.075	4313.966

B6F	3289.254	4248.330
B6F	3048.561	4289.929
B6F	3049.833	4482.183
B6F	3465.205	4634.461
B6F	3753.650	4616.434
B6F	3755.654	4313.966
B6F	3846.714	3928.510
B6F	3775.634	3713.270
B6F	3962.973	2934.298
B6F	3955.963	2661.413
B6F	3873.836	2356.943
B6F	3615.437	1445.535
B6F	3344.933	996.659
B7F	3629.910	5961.267
B7F	3704.994	5895.193
B7F	3699.989	5836.127
B7F	3657.942	5808.096
B7F	3634.916	5646.916
B7F	3549.821	5619.886
B7F	3192.422	5663.935
B7F	3180.408	5712.990
B7F	3218.451	6012.324
B8F	3544.815	6440.803
B8F	3757.053	6428.789
B8F	3754.049	6336.687
B8F	3514.782	6165.495
B8F	3540.811	6439.802
B9F	4294.653	6623.006
B9F	4255.610	6417.777
B9F	4226.577	6314.662
B9F	4162.505	6131.457
B9F	3972.293	5816.105
B9F	3788.087	5516.771
B9F	3759.055	5508.762
B9F	3658.943	5553.812
B9F	3578.853	5615.881
B9F	3651.935	5645.915
B9F	3660.945	5791.077
B9F	3710.000	5833.124
B9F	3713.003	5898.197
B9F	3634.916	5964.270
B9F	3495.761	5980.288
B9F	3519.787	6159.489
B9F	3768.065	6339.690
B9F	3766.063	6436.798
B9F	3533.803	6448.812
B9F	3495.761	6462.827
B9F	3305.548	6489.858
B9F	3317.562	6596.977
B9F	3333.579	6727.123

B9F	4199.547	6723.118
B9F	4297.656	6633.018
C1F	2679.727	6540.098
C1F	2709.773	6598.187
C1F	2797.909	6590.175
C1F	2982.194	6716.370
C1F	3006.231	6762.441
C1F	2952.148	6792.488
C1F	2980.191	7118.992
C1F	3104.383	7403.431
C1F	3134.429	7517.608
C1F	3246.603	7549.657
C1F	3404.847	7495.574
C1F	3537.051	7611.753
C1F	3597.144	7934.251
C1F	3711.321	7972.310
C1F	3911.630	7984.329
C1F	4079.890	8032.403
C1F	4069.875	7818.072
C1F	4266.178	7699.889
C1F	4298.227	7649.812
C1F	4302.234	7267.221
C1F	4302.234	6970.763
C1F	4178.042	6964.754
C1F	4141.986	7002.812
C1F	4093.912	7177.082
C1F	4023.803	7175.079
C1F	4019.797	7102.967
C1F	4065.868	6938.713
C1F	3975.729	6894.645
C1F	4049.844	6850.577
C1F	3975.729	6818.528
C1F	3883.587	6736.401
C1F	3310.702	6734.398
C1F	3288.668	6480.005
C1F	3531.042	6433.934
C1F	3484.971	5991.250
C1F	3212.550	6023.299
C1F	3172.488	5706.810
C1F	3186.510	5642.711
C1F	3054.531	5536.392
C1F	2595.177	5374.922
C1F	2501.914	5487.672
C1F	2423.963	5541.960
C1F	2623.640	5654.730
C1F	2601.606	5802.959
C1F	2515.473	5891.095
C1F	2555.535	6095.411
C1F	2637.662	6187.553
D1F	3211.489	4928.027

D1F	3216.055	4931.006
D1F	3220.620	4933.984
D1F	3229.752	4939.942
D1F	3248.014	4951.856
D1F	3284.539	4975.685
D1F	3357.590	5023.343
D1F	3503.690	5118.659
D1F	3520.583	5233.812
D1F	3543.589	5381.101
D1F	3747.142	5465.873
D1F	3793.154	5508.384
D1F	4144.645	6081.726
D1F	4227.202	6269.355
D1F	4307.239	6635.147
D1F	4208.568	6724.789
D1F	3886.769	6733.257
D1F	3977.871	6809.342
D1F	4072.737	6854.644
D1F	3991.181	6902.176
D1F	4080.743	6931.196
D1F	4042.717	7045.775
D1F	4031.209	7171.862
D1F	4092.251	7171.362
D1F	4132.278	7002.746
D1F	4152.292	6959.716
D1F	4221.373	6946.626
D1F	4311.474	6955.636
D1F	4306.469	7660.424
D1F	4271.429	7707.476
D1F	4182.865	7750.064
D1F	4082.753	7815.136
D1F	4083.754	8021.367
D1F	4140.818	8036.384
D1F	4235.924	8074.426
D1F	4344.045	8018.364
D1F	4475.192	7901.233
D1F	4578.307	7902.234
D1F	4593.343	6696.796
D1F	4777.085	6568.733
D1F	4484.689	5565.801
D1F	4334.521	5492.719
D1F	4248.132	5510.827
D1F	4155.321	5480.706
D1F	4091.249	5390.605
D1F	3987.870	5360.856
D1F	4006.892	5276.762
D1F	3933.810	5249.732
D1F	3808.265	4954.034
D1F	3762.253	4628.039
D1F	3454.656	4642.831

D1F	3447.151	4690.864
D1F	3337.075	4759.912
D1F	3111.420	4790.433
D1F	3126.430	4924.525
D2F	4527.716	8377.225
D2F	4411.586	8352.197
D2F	4318.482	8334.176
D2F	4275.434	8295.133
D2F	4243.398	8204.031
D2F	4125.266	8042.851
D2F	4238.392	8082.896
D2F	4365.535	8014.820
D2F	4474.656	7909.702
D2F	4577.615	7912.518
D2F	4579.774	8364.210
MD2	5145.841	4656.062
MD2	5083.745	4700.130
MD2	5045.687	4740.192
MD2	4995.609	4776.248
MD2	4953.544	4822.319
MD2	4963.560	4940.502
MD2	4883.436	5024.632
MD2	4755.835	5012.317
MD2	4709.044	5011.077
MD2	4690.159	5123.293
MD2	4174.533	5152.787
MD2	4041.441	5209.826
MD2	4001.079	5357.522
MD2	4090.166	5385.362
MD2	4150.021	5481.408
MD2	4236.324	5507.160
MD2	4328.195	5486.976
MD2	4491.057	5566.319
MD2	4796.499	6593.166
MD2	4608.289	6737.327
MD2	4608.289	6964.581
MD2	4897.612	6942.556
MD2	4962.685	7201.846
MD2	5619.419	7011.633
MD2	5672.481	6905.599
MD2	5835.094	6767.503
MD2	5929.158	6682.445
MD2	5913.147	6600.388
MD2	5871.118	6548.352
MD2	5812.578	6459.791
MD2	5777.554	6361.724
MD2	5754.038	6274.163
MD2	5719.014	6166.589
MD2	5718.013	6078.028
MD2	5692.996	6007.980

MD2	5637.958	5905.409
MD2	5610.439	5800.837
MD2	5637.457	5687.759
MD2	5572.913	5610.206
MD2	5714.010	5128.374
MD2	5710.714	4880.409
MD2	5864.952	4640.038
MD5	4701.941	8457.687
MD5	4839.817	8425.655
MD5	4818.927	8283.600
MD5	4809.178	8141.546
MD5	4749.293	7935.428
MD5	4717.261	7716.776
MD5	4740.936	7578.900
MD5	4725.617	7435.453
MD5	4777.146	7179.198
MD5	4894.132	7066.390
MD5	4869.064	6949.404
MD5	4742.329	6963.331
MD5	4597.489	6957.761
MD5	4587.741	7918.716
MD5	4590.526	8382.481
MD5	4603.060	8460.472
ME	5207.927	7996.024
ME	5374.965	7943.129
ME	5429.253	7954.265
ME	5494.676	7929.209
ME	5540.611	7861.002
ME	5788.384	7785.835
ME	5846.918	7833.954
ME	5932.978	7823.447
ME	5995.789	7755.211
ME	6182.315	7592.349
ME	6239.386	7457.327
ME	6219.898	7329.265
ME	6077.212	7359.801
ME	6027.800	7329.499
ME	5864.688	7305.483
ME	5651.970	7215.122
ME	5608.818	7018.853
ME	4955.979	7210.946
ME	5174.520	8004.376
MO1	3304.715	1161.208
MO1	3211.303	1305.679
MO1	2988.361	1383.456
MO1	2957.962	1436.526
MO1	2983.018	1603.563
MO1	2980.234	2291.203
MO1	2530.850	2296.476
MO1	2324.039	2224.908

```
MO1             2079.662          2230.917
MO1             1961.479          2274.985
MO1             1872.805          1410.887
MO1             1930.679          1327.951
MO1             1911.192          1005.011
MO1             2765.869          542.873
MO1             2941.258          592.984
MO1             3125.000          946.548
MO1             3328.229          1163.697
MO2             2012.062          2847.317
MO2             1953.998          2286.691
MO2             1754.775          2370.785
MO2             1759.781          2499.929
MO2             1834.865          2907.384
MO2             1941.984          2916.394
MO2             2013.064          2897.373
MO3             1336.303          2994.154
MO3             1138.641          2884.187
MO3             907.572           2803.452
MO3             720.516           2805.548
MO3             888.703           3000.767
MO3             966.036           3228.007
MO3             1147.993          3442.260
MO3             1433.742          3577.394
MO3             1528.418          3412.226
MO3             1530.420          3240.034
MO3             1360.230          3018.787
MO4             1883.352          3482.739
MO4             1883.352          3482.739
MO4             1883.352          3482.739
MO4             1855.512          3229.399
MO4             1861.080          3118.040
MO4             1838.808          2927.339
MO4             1946.990          2926.405
MO4             2021.158          2910.635
MO4             2089.365          3502.227
MO4             2007.238          3499.443
MO4             1880.568          3482.739

[SYMBOLS]
;;Gage           X-Coord           Y-Coord
;;-------------- ------------------ ------------------
RG              2497.859          9355.283

[LABELS]
;;X-Coord          Y-Coord           Label
4433.120          6809.212          "D1F" "" "Arial" 10 0 0


[BACKDROP]
```

```
FILE       "BASIN LAYOUT-FUTURE.jpg"
DIMENSIONS -3032.577 -441.059 12421.968 9558.941

[PROFILES]
;;Name           Links
;;-------------- ----------
"BLD MTN TO SITE OUTFALL" BLD_MTN_OF L29 L28 L27 L26
"BLD MTN TO SITE OUTFALL" L24 L23 L22 29 L53-L54
"PND2 TO SITE OUTFALL" L32 C1 L53 L31 L30
"PND2 TO SITE OUTFALL" PND_2_OF_1 L7 L6 L4 L3
"PND2 TO SITE OUTFALL" L1 L53-L54
```

This title is confusing as to what this model is looking at. Phase II ponds should not be in any existing condition scenario.

MONUMENT RIDGE EAST - EX COND FOR PH II PONDS SWMM REPORT FILE - Q100

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	17.249	2.820
Evaporation Loss	0.000	0.000
Infiltration Loss	9.032	1.477
Surface Runoff	8.319	1.360
Final Storage	0.010	0.002
Continuity Error (%)	-0.647	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	8.319	2.711

```
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........         8.319         2.711
Flooding Loss ............         0.000         0.000
Evaporation Loss .........         0.000         0.000
Exfiltration Loss ........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.000         0.000
Continuity Error (%) .....         0.000


**************************
Time-Step Critical Elements
**************************
None


*******************************
Highest Flow Instability Indexes
*******************************
All links are stable.


*******************************
Most Frequent Nonconverging Nodes
*******************************
Convergence obtained at all time steps.


************************
Routing Time Step Summary
************************
Minimum Time Step           :    19.50 sec
Average Time Step           :    20.00 sec
Maximum Time Step           :    20.00 sec
% of Time in Steady State   :     0.00
Average Iterations per Step :     2.00
% of Steps Not Converging   :     0.00
Time Step Frequencies       :
   20.000 -  9.564 sec      :   100.00 %
    9.564 -  4.573 sec      :     0.00 %
    4.573 -  2.187 sec      :     0.00 %
    2.187 -  1.046 sec      :     0.00 %
    1.046 -  0.500 sec      :     0.00 %


**************************
Subcatchment Runoff Summary
**************************
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	2.82	0.00	0.00	1.61	0.06	1.17	1.23	0.22	19.71	0.434
A2F	2.82	0.00	0.00	1.43	0.06	1.37	1.43	0.01	2.21	0.507
A3F	2.82	0.00	0.00	1.48	0.06	1.32	1.37	0.04	7.04	0.487
A4F	2.82	0.00	0.00	1.62	0.06	1.16	1.22	0.19	16.68	0.433
A5F	2.82	0.00	0.00	1.52	0.06	1.27	1.33	0.08	10.63	0.471
B1F	2.82	0.00	0.00	1.64	0.06	1.13	1.19	0.16	13.08	0.422
B2F	2.82	0.00	0.00	1.47	0.06	1.33	1.39	0.01	1.98	0.492
B3F	2.82	0.00	0.00	1.47	0.06	1.34	1.39	0.01	2.35	0.494
B4F	2.82	0.00	0.00	1.48	0.06	1.32	1.37	0.02	2.68	0.487
B5F	2.82	0.00	0.00	1.50	0.06	1.29	1.35	0.04	5.89	0.479
B6F	2.82	0.00	0.00	1.62	0.06	1.16	1.21	0.11	9.73	0.431
B7F	2.82	0.00	0.00	1.50	0.06	1.29	1.35	0.03	3.88	0.478
B8F	2.82	0.00	0.00	1.46	0.06	1.35	1.40	0.01	1.35	0.497
B9F	2.82	0.00	0.00	1.19	0.06	1.61	1.67	0.05	9.09	0.591
C1F	2.82	0.00	0.00	1.42	0.06	1.36	1.41	0.37	25.11	0.501
D1F	2.82	0.00	0.00	1.37	0.06	1.41	1.46	0.30	23.37	0.519
D2F	2.82	0.00	0.00	1.21	0.06	1.59	1.64	0.03	4.32	0.583
MD2	2.82	0.00	0.00	1.74	0.06	1.04	1.09	0.36	23.30	0.388
MD5	2.82	0.00	0.00	1.41	0.06					

1.36 1.42 0.06 4.17 0.503
ME 2.82 0.00 0.00 1.28 0.06
1.51 1.56 0.14 15.56 0.554
MO1 2.82 0.00 0.00 1.31 0.06
1.47 1.53 0.31 30.88 0.541
MO2 2.82 0.00 0.00 0.43 1.98
0.41 2.39 0.03 4.36 0.847
MO3 2.82 0.00 0.00 0.60 1.65
0.57 2.22 0.08 11.16 0.788
MO4 2.82 0.00 0.00 0.46 1.93
0.43 2.36 0.05 6.16 0.837

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
24	JUNCTION	0.00	0.00	7305.15	0 00:00	0.00
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
36	JUNCTION	0.00	0.00	7270.30	0 00:00	0.00
45	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
49	JUNCTION	0.00	0.00	7270.50	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_3	OUTFALL	0.00	0.00	7268.97	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence days hr:min	Lateral Inflow Volume	Total Inflow Volume	Flow Balance Error

Node	Type	CFS	CFS	days hr:min	10^6 gal	10^6 gal	Percent
24	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
45	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
47	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
49	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
59	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
POND_1B	OUTFALL	108.83	108.83	0 00:45	1.01	1.01	0.000
POND_2	OUTFALL	50.03	50.03	0 00:45	0.444	0.444	0.000
POND_4B	OUTFALL	53.92	53.92	0 00:45	0.745	0.745	0.000
POND_3	OUTFALL	25.11	25.11	0 00:45	0.371	0.371	0.000
POND_5	OUTFALL	15.56	15.56	0 00:45	0.136	0.136	0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
24	JUNCTION	336.00	0.000	9.910
31	JUNCTION	336.00	0.000	5.960
36	JUNCTION	336.00	0.000	6.750

****
Node Flooding Summary

****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POND_1B	0.99	11.38	108.83	1.015
POND_2	0.64	7.69	50.03	0.444
POND_4B	0.67	12.35	53.92	0.745
POND_3	0.67	6.15	25.11	0.371
POND_5	0.61	2.45	15.56	0.136
System	0.71	40.03	253.44	2.711

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet

Ctrl

-
  L22   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L24   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L25   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:37:47 2026
  Analysis ended on: Thu May 7 18:37:47 2026
  Total elapsed time: < 1 sec

MONUMENT RIDGE EAST - EX COND FOR PH II PONDS SWMM REPORT FILE - Q50

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	15.402	2.518
Evaporation Loss	0.000	0.000
Infiltration Loss	8.782	1.436
Surface Runoff	6.711	1.097
Final Storage	0.010	0.002
Continuity Error (%)	-0.656	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	6.711	2.187

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	6.711	2.187
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	19.50 sec
Average Time Step	:	20.00 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	100.00 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	0.00 %
2.187 - 1.046 sec	:	0.00 %
1.046 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	2.52	0.00	0.00	1.57	0.05	0.92	0.97	0.17	15.04	0.384
A2F	2.52	0.00	0.00	1.39	0.05	1.13	1.18	0.01	1.91	0.470
A3F	2.52	0.00	0.00	1.44	0.05	1.07	1.12	0.04	5.72	0.443
A4F	2.52	0.00	0.00	1.57	0.05	0.91	0.96	0.15	12.71	0.382
A5F	2.52	0.00	0.00	1.48	0.05	1.02	1.07	0.06	8.38	0.424
B1F	2.52	0.00	0.00	1.60	0.05	0.88	0.93	0.13	9.92	0.370
B2F	2.52	0.00	0.00	1.43	0.05	1.08	1.13	0.01	1.62	0.449
B3F	2.52	0.00	0.00	1.42	0.05	1.09	1.14	0.01	1.94	0.451
B4F	2.52	0.00	0.00	1.44	0.05	1.07	1.12	0.01	2.18	0.443
B5F	2.52	0.00	0.00	1.46	0.05	1.04	1.09	0.03	4.70	0.433
B6F	2.52	0.00	0.00	1.58	0.05	0.91	0.96	0.09	7.41	0.380
B7F	2.52	0.00	0.00	1.46	0.05	1.04	1.09	0.02	3.10	0.432
B8F	2.52	0.00	0.00	1.42	0.05	1.10	1.14	0.01	1.12	0.455
B9F	2.52	0.00	0.00	1.15	0.05	1.35	1.40	0.04	7.90	0.557
C1F	2.52	0.00	0.00	1.38	0.05	1.10	1.15	0.30	20.14	0.455
D1F	2.52	0.00	0.00	1.34	0.05	1.14	1.19	0.24	18.51	0.475
D2F	2.52	0.00	0.00	1.17	0.05	1.33	1.38	0.02	3.69	0.547
MD2	2.52	0.00	0.00	1.68	0.05	0.79	0.84	0.28	17.84	0.335
MD5	2.52	0.00	0.00	1.38	0.05					

1.10	1.15	0.05	3.33	0.457				
ME			2.52	0.00	0.00	1.25	0.05	
1.24	1.29	0.11	12.66	0.514				
MO1			2.52	0.00	0.00	1.28	0.05	
1.21	1.26	0.26	24.81	0.499				
MO2			2.52	0.00	0.00	0.41	1.76	
0.34	2.11	0.03	3.87	0.837				
MO3			2.52	0.00	0.00	0.59	1.47	
0.47	1.94	0.07	9.78	0.770				
MO4			2.52	0.00	0.00	0.44	1.72	
0.35	2.07	0.04	5.42	0.824				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
24	JUNCTION	0.00	0.00	7305.15	0 00:00	0.00
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
36	JUNCTION	0.00	0.00	7270.30	0 00:00	0.00
45	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
49	JUNCTION	0.00	0.00	7270.50	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_3	OUTFALL	0.00	0.00	7268.97	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence days hr:min	Lateral Inflow Volume	Total Inflow Volume	Flow Balance Error

Node	Type	CFS	CFS	days hr:min	10^6 gal	10^6 gal	Percent
24	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
45	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
47	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
49	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
59	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
POND_1B	OUTFALL	87.63	87.63	0 00:45	0.828	0.828	0.000
POND_2	OUTFALL	39.90	39.90	0 00:45	0.355	0.355	0.000
POND_4B	OUTFALL	42.09	42.09	0 00:45	0.591	0.591	0.000
POND_3	OUTFALL	20.14	20.14	0 00:50	0.301	0.301	0.000
POND_5	OUTFALL	12.66	12.66	0 00:45	0.113	0.113	0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
24	JUNCTION	336.00	0.000	9.910
31	JUNCTION	336.00	0.000	5.960
36	JUNCTION	336.00	0.000	6.750

****
Node Flooding Summary

****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POND_1B	0.98	9.30	87.63	0.828
POND_2	0.64	6.14	39.90	0.355
POND_4B	0.67	9.80	42.09	0.591
POND_3	0.64	5.18	20.14	0.301
POND_5	0.61	2.03	12.66	0.113
System	0.71	32.45	202.03	2.187

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet

Ctrl

-
  L22   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L24   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L25   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:38:29 2026
  Analysis ended on: Thu May 7 18:38:29 2026
  Total elapsed time: < 1 sec

MONUMENT RIDGE EAST - EX COND FOR PH II PONDS SWMM REPORT FILE - Q25

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	13.689	2.238
Evaporation Loss	0.000	0.000
Infiltration Loss	8.493	1.388
Surface Runoff	5.272	0.862
Final Storage	0.010	0.002
Continuity Error (%)	-0.620	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	5.272	1.718

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	5.272	1.718
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	19.50 sec
Average Time Step	:	20.00 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	100.00 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	0.00 %
2.187 - 1.046 sec	:	0.00 %
1.046 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	2.24	0.00	0.00	1.51	0.04	0.69	0.74	0.13	11.18	0.329
A2F	2.24	0.00	0.00	1.34	0.04	0.90	0.95	0.01	1.60	0.423
A3F	2.24	0.00	0.00	1.39	0.04	0.84	0.88	0.03	4.50	0.393
A4F	2.24	0.00	0.00	1.52	0.04	0.69	0.73	0.11	9.44	0.327
A5F	2.24	0.00	0.00	1.43	0.04	0.79	0.83	0.05	6.41	0.372
B1F	2.24	0.00	0.00	1.54	0.04	0.66	0.71	0.10	7.51	0.315
B2F	2.24	0.00	0.00	1.38	0.04	0.85	0.90	0.01	1.29	0.400
B3F	2.24	0.00	0.00	1.37	0.04	0.86	0.90	0.01	1.55	0.403
B4F	2.24	0.00	0.00	1.39	0.04	0.84	0.88	0.01	1.71	0.393
B5F	2.24	0.00	0.00	1.41	0.04	0.81	0.85	0.03	3.64	0.382
B6F	2.24	0.00	0.00	1.52	0.04	0.68	0.73	0.07	5.50	0.325
B7F	2.24	0.00	0.00	1.41	0.04	0.81	0.85	0.02	2.39	0.381
B8F	2.24	0.00	0.00	1.36	0.04	0.86	0.91	0.00	0.91	0.406
B9F	2.24	0.00	0.00	1.11	0.04	1.12	1.16	0.04	6.77	0.519
C1F	2.24	0.00	0.00	1.34	0.04	0.86	0.90	0.24	15.80	0.404
D1F	2.24	0.00	0.00	1.30	0.04	0.91	0.95	0.19	14.29	0.425
D2F	2.24	0.00	0.00	1.13	0.04	1.09	1.13	0.02	3.08	0.507
MD2	2.24	0.00	0.00	1.62	0.04	0.58	0.62	0.21	13.26	0.279
MD5	2.24	0.00	0.00	1.34	0.04					

0.86	0.91	0.04	2.62	0.406				
ME			2.24	0.00	0.00	1.21	0.04	
1.00	1.05	0.09	10.02	0.468				
MO1			2.24	0.00	0.00	1.24	0.04	
0.97	1.01	0.21	19.40	0.452				
MO2			2.24	0.00	0.00	0.40	1.56	
0.28	1.84	0.03	3.40	0.823				
MO3			2.24	0.00	0.00	0.57	1.31	
0.37	1.68	0.06	8.46	0.749				
MO4			2.24	0.00	0.00	0.43	1.53	
0.28	1.81	0.04	4.72	0.807				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
24	JUNCTION	0.00	0.00	7305.15	0 00:00	0.00
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
36	JUNCTION	0.00	0.00	7270.30	0 00:00	0.00
45	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
49	JUNCTION	0.00	0.00	7270.50	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_3	OUTFALL	0.00	0.00	7268.97	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence days hr:min	Lateral Inflow Volume	Total Inflow Volume	Flow Balance Error

Node	Type	CFS	CFS	days hr:min	10^6 gal	10^6 gal	Percent
24	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
45	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
47	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
49	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
59	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
POND_1B	OUTFALL	69.12	69.12	0 00:45	0.659	0.659	0.000
POND_2	OUTFALL	31.11	31.11	0 00:45	0.275	0.275	0.000
POND_4B	OUTFALL	32.15	32.15	0 00:45	0.455	0.455	0.000
POND_3	OUTFALL	15.80	15.80	0 00:50	0.237	0.237	0.000
POND_5	OUTFALL	10.02	10.02	0 00:45	0.0913	0.0913	0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
24	JUNCTION	336.00	0.000	9.910
31	JUNCTION	336.00	0.000	5.960
36	JUNCTION	336.00	0.000	6.750

****
Node Flooding Summary

****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POND_1B	0.98	7.42	69.12	0.659
POND_2	0.64	4.77	31.11	0.275
POND_4B	0.67	7.55	32.15	0.455
POND_3	0.64	4.09	15.80	0.237
POND_5	0.61	1.65	10.02	0.091
System	0.71	25.47	157.57	1.718

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet

Ctrl

-
  L22   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L24   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L25   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:42:00 2026
  Analysis ended on: Thu May 7 18:42:01 2026
  Total elapsed time: 00:00:01

MONUMENT RIDGE EAST - EX COND FOR PH II PONDS SWMM REPORT FILE - Q10

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	11.976	1.958
Evaporation Loss	0.000	0.000
Infiltration Loss	8.132	1.329
Surface Runoff	3.903	0.638
Final Storage	0.010	0.002
Continuity Error (%)	-0.571	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	3.903	1.272

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	3.903	1.272
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	19.50 sec
Average Time Step	:	20.00 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	100.00 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	0.00 %
2.187 - 1.046 sec	:	0.00 %
1.046 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	1.96	0.00	0.00	1.45	0.04	0.48	0.52	0.09	7.79	0.264
A2F	1.96	0.00	0.00	1.28	0.04	0.67	0.71	0.01	1.28	0.364
A3F	1.96	0.00	0.00	1.33	0.04	0.61	0.65	0.02	3.30	0.332
A4F	1.96	0.00	0.00	1.45	0.04	0.48	0.51	0.08	6.61	0.263
A5F	1.96	0.00	0.00	1.37	0.04	0.57	0.61	0.04	4.57	0.310
B1F	1.96	0.00	0.00	1.47	0.04	0.45	0.49	0.07	5.27	0.251
B2F	1.96	0.00	0.00	1.32	0.04	0.63	0.66	0.01	0.96	0.339
B3F	1.96	0.00	0.00	1.31	0.04	0.63	0.67	0.01	1.16	0.342
B4F	1.96	0.00	0.00	1.33	0.04	0.61	0.65	0.01	1.26	0.332
B5F	1.96	0.00	0.00	1.35	0.04	0.59	0.63	0.02	2.62	0.320
B6F	1.96	0.00	0.00	1.46	0.04	0.47	0.51	0.05	3.87	0.260
B7F	1.96	0.00	0.00	1.35	0.04	0.59	0.62	0.01	1.72	0.319
B8F	1.96	0.00	0.00	1.31	0.04	0.64	0.68	0.00	0.68	0.346
B9F	1.96	0.00	0.00	1.06	0.04	0.89	0.93	0.03	5.58	0.474
C1F	1.96	0.00	0.00	1.29	0.04	0.64	0.68	0.18	11.78	0.345
D1F	1.96	0.00	0.00	1.25	0.04	0.68	0.72	0.14	10.74	0.367
D2F	1.96	0.00	0.00	1.09	0.04	0.86	0.90	0.01	2.46	0.460
MD2	1.96	0.00	0.00	1.54	0.04	0.38	0.42	0.14	9.13	0.215
MD5	1.96	0.00	0.00	1.29	0.04					

0.64	0.68	0.03	1.95	0.347				
ME			1.96	0.00	0.00	1.16	0.04	
0.77	0.81	0.07	7.55	0.415				
MO1			1.96	0.00	0.00	1.19	0.04	
0.74	0.78	0.16	14.43	0.396				
MO2			1.96	0.00	0.00	0.38	1.37	
0.21	1.57	0.02	2.93	0.803				
MO3			1.96	0.00	0.00	0.54	1.14	
0.28	1.42	0.05	7.12	0.723				
MO4			1.96	0.00	0.00	0.41	1.33	
0.21	1.54	0.03	4.00	0.787				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
24	JUNCTION	0.00	0.00	7305.15	0 00:00	0.00
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
36	JUNCTION	0.00	0.00	7270.30	0 00:00	0.00
45	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
49	JUNCTION	0.00	0.00	7270.50	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_3	OUTFALL	0.00	0.00	7268.97	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence days hr:min	Lateral Inflow Volume	Total Inflow Volume	Flow Balance Error

Node	Type	CFS	CFS	days hr:min	10^6 gal	10^6 gal	Percent
24	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
45	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
47	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
49	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
59	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
POND_1B	OUTFALL	51.96	51.96	0 00:45	0.498	0.498	0.000
POND_2	OUTFALL	22.90	22.90	0 00:45	0.198	0.198	0.000
POND_4B	OUTFALL	23.33	23.33	0 00:45	0.328	0.328	0.000
POND_3	OUTFALL	11.78	11.78	0 00:50	0.177	0.177	0.000
POND_5	OUTFALL	7.55	7.55	0 00:45	0.0708	0.0708	0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
24	JUNCTION	336.00	0.000	9.910
31	JUNCTION	336.00	0.000	5.960
36	JUNCTION	336.00	0.000	6.750

****
Node Flooding Summary

****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POND_1B	0.98	5.61	51.96	0.498
POND_2	0.64	3.44	22.90	0.198
POND_4B	0.67	5.44	23.33	0.328
POND_3	0.64	3.06	11.78	0.177
POND_5	0.61	1.28	7.55	0.071
System	0.71	18.83	116.83	1.272

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet

Ctrl

-
  L22   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L24   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L25   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:43:00 2026
  Analysis ended on: Thu May 7 18:43:00 2026
  Total elapsed time: < 1 sec

MONUMENT RIDGE EAST - EX COND FOR PH II PONDS SWMM REPORT FILE - Q5

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	10.270	1.679
Evaporation Loss	0.000	0.000
Infiltration Loss	7.711	1.261
Surface Runoff	2.602	0.425
Final Storage	0.010	0.002
Continuity Error (%)	-0.515	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	2.602	0.848

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	2.602	0.848
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	19.50 sec
Average Time Step	:	20.00 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	100.00 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	0.00 %
2.187 - 1.046 sec	:	0.00 %
1.046 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	1.68	0.00	0.00	1.37	0.03	0.28	0.31	0.06	4.81	0.186
A2F	1.68	0.00	0.00	1.22	0.03	0.45	0.48	0.00	0.94	0.288
A3F	1.68	0.00	0.00	1.27	0.03	0.39	0.43	0.01	2.13	0.253
A4F	1.68	0.00	0.00	1.38	0.03	0.28	0.31	0.05	4.07	0.185
A5F	1.68	0.00	0.00	1.31	0.03	0.35	0.39	0.02	2.85	0.230
B1F	1.68	0.00	0.00	1.39	0.03	0.26	0.29	0.04	3.21	0.174
B2F	1.68	0.00	0.00	1.26	0.03	0.40	0.44	0.00	0.63	0.261
B3F	1.68	0.00	0.00	1.26	0.03	0.41	0.44	0.00	0.77	0.264
B4F	1.68	0.00	0.00	1.27	0.03	0.39	0.42	0.01	0.81	0.253
B5F	1.68	0.00	0.00	1.29	0.03	0.37	0.40	0.01	1.66	0.240
B6F	1.68	0.00	0.00	1.38	0.03	0.27	0.31	0.03	2.38	0.182
B7F	1.68	0.00	0.00	1.29	0.03	0.37	0.40	0.01	1.09	0.239
B8F	1.68	0.00	0.00	1.25	0.03	0.42	0.45	0.00	0.46	0.268
B9F	1.68	0.00	0.00	1.02	0.03	0.66	0.69	0.02	4.34	0.414
C1F	1.68	0.00	0.00	1.23	0.03	0.42	0.46	0.12	8.02	0.272
D1F	1.68	0.00	0.00	1.19	0.03	0.46	0.49	0.10	7.41	0.294
D2F	1.68	0.00	0.00	1.04	0.03	0.63	0.66	0.01	1.82	0.396
MD2	1.68	0.00	0.00	1.44	0.03	0.21	0.24	0.08	5.48	0.143
MD5	1.68	0.00	0.00	1.22	0.03					

0.43	0.46	0.02	1.33	0.274				
ME			1.68	0.00	0.00	1.11	0.03	
0.55	0.58	0.05	5.18	0.345				
MO1			1.68	0.00	0.00	1.14	0.03	
0.51	0.55	0.11	9.77	0.325				
MO2			1.68	0.00	0.00	0.36	1.17	
0.14	1.30	0.02	2.45	0.776				
MO3			1.68	0.00	0.00	0.52	0.97	
0.18	1.16	0.04	5.74	0.689				
MO4			1.68	0.00	0.00	0.39	1.14	
0.14	1.28	0.03	3.28	0.760				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
24	JUNCTION	0.00	0.00	7305.15	0 00:00	0.00
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
36	JUNCTION	0.00	0.00	7270.30	0 00:00	0.00
45	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
49	JUNCTION	0.00	0.00	7270.50	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_3	OUTFALL	0.00	0.00	7268.97	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence days hr:min	Lateral Inflow Volume	Total Inflow Volume	Flow Balance Error

Node	Type	CFS	CFS	days hr:min	10^6 gal	10^6 gal	Percent
24	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
45	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
47	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
49	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
59	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
POND_1B	OUTFALL	35.92	35.92	0 00:45	0.342	0.342	0.000
POND_2	OUTFALL	15.21	15.21	0 00:45	0.126	0.126	0.000
POND_4B	OUTFALL	15.38	15.38	0 00:45	0.21	0.21	0.000
POND_3	OUTFALL	8.02	8.02	0 00:50	0.12	0.12	0.000
POND_5	OUTFALL	5.18	5.18	0 00:45	0.0505	0.0505	0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
24	JUNCTION	336.00	0.000	9.910
31	JUNCTION	336.00	0.000	5.960
36	JUNCTION	336.00	0.000	6.750

****
Node Flooding Summary

****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POND_1B	0.98	3.87	35.92	0.342
POND_2	0.64	2.18	15.21	0.126
POND_4B	0.67	3.48	15.38	0.210
POND_3	0.64	2.07	8.02	0.120
POND_5	0.61	0.91	5.18	0.050
System	0.71	12.51	79.10	0.848

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet

Ctrl

-
  L22   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L24   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L25   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:43:37 2026
  Analysis ended on: Thu May 7 18:43:37 2026
  Total elapsed time: < 1 sec

MONUMENT RIDGE EAST - EX COND FOR PH II PONDS SWMM REPORT FILE - Q2

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---------	-------
Total Precipitation	8.147	1.332
Evaporation Loss	0.000	0.000
Infiltration Loss	6.948	1.136
Surface Runoff	1.223	0.200
Final Storage	0.010	0.002
Continuity Error (%)	-0.417	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	1.223	0.399

Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	1.223	0.399
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.000	0.000
Continuity Error (%)	0.000	

****
Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	19.50 sec
Average Time Step	:	20.00 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	100.00 %
9.564 - 4.573 sec	:	0.00 %
4.573 - 2.187 sec	:	0.00 %
2.187 - 1.046 sec	:	0.00 %
1.046 - 0.500 sec	:	0.00 %

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	1.33	0.00	0.00	1.23	0.03	0.08	0.10	0.02	1.78	0.077
A2F	1.33	0.00	0.00	1.14	0.03	0.20	0.23	0.00	0.44	0.169
A3F	1.33	0.00	0.00	1.18	0.03	0.14	0.17	0.01	0.80	0.125
A4F	1.33	0.00	0.00	1.23	0.03	0.07	0.10	0.02	1.51	0.076
A5F	1.33	0.00	0.00	1.20	0.03	0.11	0.14	0.01	1.03	0.105
B1F	1.33	0.00	0.00	1.24	0.03	0.07	0.09	0.01	1.20	0.070
B2F	1.33	0.00	0.00	1.17	0.03	0.15	0.18	0.00	0.24	0.132
B3F	1.33	0.00	0.00	1.17	0.03	0.15	0.18	0.00	0.30	0.135
B4F	1.33	0.00	0.00	1.18	0.03	0.14	0.17	0.00	0.30	0.124
B5F	1.33	0.00	0.00	1.19	0.03	0.12	0.15	0.00	0.61	0.113
B6F	1.33	0.00	0.00	1.24	0.03	0.07	0.10	0.01	0.88	0.074
B7F	1.33	0.00	0.00	1.19	0.03	0.12	0.15	0.00	0.40	0.113
B8F	1.33	0.00	0.00	1.16	0.03	0.16	0.19	0.00	0.18	0.140
B9F	1.33	0.00	0.00	0.94	0.03	0.39	0.42	0.01	2.72	0.312
C1F	1.33	0.00	0.00	1.11	0.03	0.20	0.23	0.06	4.18	0.169
D1F	1.33	0.00	0.00	1.08	0.03	0.23	0.25	0.05	3.92	0.189
D2F	1.33	0.00	0.00	0.96	0.03	0.36	0.39	0.01	1.06	0.292
MD2	1.33	0.00	0.00	1.26	0.03	0.05	0.07	0.02	2.20	0.055
MD5	1.33	0.00	0.00	1.11	0.03					

0.20 0.23 0.01 0.69 0.171
ME 1.33 0.00 0.00 1.02 0.03
0.29 0.32 0.03 2.76 0.237
MO1 1.33 0.00 0.00 1.05 0.03
0.26 0.29 0.06 5.25 0.217
MO2 1.33 0.00 0.00 0.34 0.92
0.07 0.98 0.01 1.81 0.739
MO3 1.33 0.00 0.00 0.48 0.77
0.07 0.84 0.03 3.97 0.632
MO4 1.33 0.00 0.00 0.37 0.90
0.06 0.95 0.02 2.36 0.716

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
24	JUNCTION	0.00	0.00	7305.15	0 00:00	0.00
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
36	JUNCTION	0.00	0.00	7270.30	0 00:00	0.00
45	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
46	JUNCTION	0.00	0.00	7263.99	0 00:00	0.00
47	JUNCTION	0.00	0.00	7262.97	0 00:00	0.00
49	JUNCTION	0.00	0.00	7270.50	0 00:00	0.00
59	JUNCTION	0.00	0.00	7266.16	0 00:00	0.00
POND_1B	OUTFALL	0.00	0.00	7306.33	0 00:00	0.00
POND_2	OUTFALL	0.00	0.00	7273.33	0 00:00	0.00
POND_4B	OUTFALL	0.00	0.00	7261.33	0 00:00	0.00
POND_3	OUTFALL	0.00	0.00	7268.97	0 00:00	0.00
POND_5	OUTFALL	0.00	0.00	7269.33	0 00:00	0.00

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow	Maximum Total Inflow	Time of Max Occurrence days hr:min	Lateral Inflow Volume	Total Inflow Volume	Flow Balance Error

Node	Type	CFS	CFS	days hr:min	10^6 gal	10^6 gal	Percent
24	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
36	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
45	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
46	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
47	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
49	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
59	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
POND_1B	OUTFALL	18.86	18.86	0 00:45	0.172	0.172	0.000
POND_2	OUTFALL	6.82	6.82	0 00:45	0.0488	0.0488	0.000
POND_4B	OUTFALL	7.62	7.62	0 00:45	0.0911	0.0911	0.000
POND_3	OUTFALL	4.18	4.18	0 00:50	0.0591	0.0591	0.000
POND_5	OUTFALL	2.76	2.76	0 00:45	0.0275	0.0275	0.000

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
24	JUNCTION	336.00	0.000	9.910
31	JUNCTION	336.00	0.000	5.960
36	JUNCTION	336.00	0.000	6.750

****
Node Flooding Summary

****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
POND_1B	0.97	1.96	18.86	0.172
POND_2	0.63	0.85	6.82	0.049
POND_4B	0.66	1.51	7.62	0.091
POND_3	0.64	1.02	4.18	0.059
POND_5	0.61	0.50	2.76	0.028
System	0.70	5.84	40.01	0.399

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
L22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L25	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet

Ctrl

-
  L22   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L23   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L24   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L25   1.00   1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00

  ****
  Conduit Surcharge Summary
  ****

  No conduits were surcharged.

  Analysis begun on: Thu May 7 18:44:14 2026
  Analysis ended on: Thu May 7 18:44:14 2026
  Total elapsed time: < 1 sec

```
[TITLE]
;;Project Title/Notes
MONUMENT RIDGE EAST FILING NO. 1 PHASE II (FUTURE) CONDITIONS

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         DYNWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           04/16/2026
START_TIME           00:00:00
REPORT_START_DATE    04/16/2026
REPORT_START_TIME    00:00:00
END_DATE             04/30/2026
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:05:00
WET_STEP             00:05:00
DRY_STEP             01:00:00
ROUTING_STEP         0:00:20
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         12.566
MAX_TRIALS           8
HEAD_TOLERANCE       0.005
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
CONSTANT         0.0
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
```

```
;;-------------- --------- ------ ------ ----------
RG               CUMULATIVE 0:05     1.0      TIMESERIES WQCV

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope
  CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- --------
-------- -------- ----------------
A1F              RG               POND_1A          6.55     54.93    664      2.94
  0
A2F              RG               POND_1B          0.29     28.03    429      2.02
  0
A3F              RG               POND_1A          1.18     35.90    301      5.79
  0
A4F              RG               POND_1B          5.65     63.83    524      3.32
  0
A5F              RG               POND_1B          2.22     51.40    469      3.10
  0
B1F              RG               56               5.02     60.57    380      3.51
  0
B2F              RG               54               0.31     46.28    142      2.66
  0
B3F              RG               54               0.36     76.46    157      3.47
  0
B4F              RG               54               0.45     70.64    172      2.55
  0
B5F              RG               48               1.11     74.48    312      2.68
  0
B6F              RG               5                3.38     60.72    213      6.69
  0
B7F              RG               POND_2           0.74     61.82    246      1.83
  0
B8F              RG               POND_2           0.20     70.26    133      1.91
  0
B9F              RG               POND_2           1.17     85.64    506      10.01
  0
C1F              RG               POND_3           9.66     44.09    527      3.68
  0
D1F              RG               28               7.42     44.27    548      3.46
  0
D2F              RG               F8               0.61     48.85    226      4.39
  0
JJ               RG               EX-WETLAND       6.78     16.09    710      3.61
  0
MD2              RG               30               12.16    46.09    593      3.22
  0
MD5              RG               POND_4B          1.58     12.03    241      0.49
  0
ME               RG               F18              3.21     48.40    539      2.77
  0
```

```
MO1             RG              POND_1A          7.52     0        776      4.05
  0
MO2             RG              POND_1A          .51      70.59    257      5.63
  0
MO3             RG              POND_1B          1.36     58.97    326      5.63
  0
MO4             RG              POND_1B          .74      68.92    201      2.16
  0
MO5             RG              BALD_MTN_DETENTION 60.15    39.41    1736     4.89
    0
MO6             RG              BALD_MTN_DETENTION .63      0.0      161      3.20
    0
MO7A            RG              49               65.57    30.35    2062     5.11
  0
MO7B            RG              49               18.4     33.87    1121     4.02
  0
MO8             RG              EX-WETLAND       1.38     58       176      7.33
  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo
PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ----------
----------
A1F             0.013      0.1        0.05       0.05       25         OUTLET
A2F             0.013      0.1        0.05       0.05       25         OUTLET
A3F             0.013      0.1        0.05       0.05       25         OUTLET
A4F             0.013      0.1        0.05       0.05       25         OUTLET
A5F             0.013      0.1        0.05       0.05       25         OUTLET
B1F             0.013      0.1        0.05       0.05       25         OUTLET
B2F             0.013      0.1        0.05       0.05       25         OUTLET
B3F             0.013      0.1        0.05       0.05       25         OUTLET
B4F             0.013      0.1        0.05       0.05       25         OUTLET
B5F             0.013      0.1        0.05       0.05       25         OUTLET
B6F             0.013      0.1        0.05       0.05       25         OUTLET
B7F             0.013      0.1        0.05       0.05       25         OUTLET
B8F             0.013      0.1        0.05       0.05       25         OUTLET
B9F             0.013      0.1        0.05       0.05       25         OUTLET
C1F             0.013      0.1        0.05       0.05       25         OUTLET
D1F             0.013      0.1        0.05       0.05       25         OUTLET
D2F             0.013      0.1        0.05       0.05       25         OUTLET
JJ              0.013      0.1        0.05       0.05       25         OUTLET
MD2             0.013      0.1        0.05       0.05       25         OUTLET
MD5             0.013      0.1        0.05       0.05       25         OUTLET
ME              0.013      0.1        0.05       0.05       25         OUTLET
MO1             0.013      0.1        0.05       0.05       25         OUTLET
MO2             0.013      0.1        0.05       0.05       25         OUTLET
MO3             0.013      0.1        0.05       0.05       25         OUTLET
MO4             0.013      0.1        0.05       0.05       25         OUTLET
MO5             0.013      0.1        0.05       0.05       25         OUTLET
```

```
MO6              0.013      0.1        0.05       0.05       25         OUTLET
MO7A             0.013      0.1        0.05       0.05       25         OUTLET
MO7B             0.013      0.1        0.05       0.05       25         OUTLET
MO8              0.013      0.1        0.05       0.05       25         OUTLET

[INFILTRATION]
;;Subcatchment   Param1     Param2     Param3     Param4     Param5
;;-------------- ---------- ---------- ---------- ---------- ----------
A1F              4.5        0.6        6.48       7          0
A2F              4.5        0.6        6.48       7          0
A3F              4.5        0.6        6.48       7          0
A4F              4.5        0.6        6.48       7          0
A5F              4.5        0.6        6.48       7          0
B1F              4.5        0.6        6.48       7          0
B2F              4.5        0.6        6.48       7          0
B3F              4.5        0.6        6.48       7          0
B4F              4.5        0.6        6.48       7          0
B5F              4.5        0.6        6.48       7          0
B6F              4.5        0.6        6.48       7          0
B7F              4.5        0.6        6.48       7          0
B8F              4.5        0.6        6.48       7          0
B9F              3.0        0.5        6.48       7          0
C1F              3.0        0.5        6.48       7          0
D1F              3.0        0.5        6.48       7          0
D2F              3.0        0.5        6.48       7          0
JJ               3.0        0.5        6.48       7          0
MD2              4.5        0.6        6.48       7          0
MD5              3.0        0.5        6.48       7          0
ME               3.0        0.5        6.48       7          0
MO1              3.0        0.5        6.48       7          0
MO2              4.5        0.6        6.48       7          0
MO3              4.5        0.6        6.48       7          0
MO4              4.5        0.6        6.48       7          0
MO5              4.5        0.6        6.48       7          0
MO6              3.0        0.5        6.48       7          0
MO7A             4.5        0.6        6.48       7          0
MO7B             4.5        0.6        6.48       7          0
MO8              4.5        0.6        6.48       7          0

[JUNCTIONS]
;;Name           Elevation  MaxDepth   InitDepth  SurDepth   Aponded
;;-------------- ---------- ---------- ---------- ---------- ----------
;1+23.36
1                7298.36    6.24       0          0          0
;5+42.79
2                7297.32    6.88       0          0          0
;3+47
3                7286.57    12.71      0          0          0
;10+19.62
4                7305.11    6.93       0          0          0
```

;10+75.93
;DP X4
5 7305.93 5.25 0 .58 1000
;11+34.93
6 7306.71 4.75 0 0 0
23 7305.63 6.17 0 0 0
24 7305.15 9.91 0 0 0
;2+27.49
27 7267.94 5.34 0 0 0
;1+70.49
28 7266.38 6.9 0 0 0
;1+70.49
29 7266.56 7.39 0 0 0
30 7266.78 6.51 0 0 0
31 7272.09 5.96 0 0 0
32 7277.02 5.96 0 0 0
33 7279.33 4.14 0 0 0
34 7278.07 5.42 0 0 0
35 7268.24 5.71 0 0 0
36 7270.3 6.75 0 0 0
37 7266.78 6.77 0 0 0
38 7263.03 14.98 0 0 0
;1+82.72
39 7259.04 7.08 0 0 0
;1+73.51
40 7276.76 12.09 0 0 0
41 7284.4 12.3 0 0 0
42 7283.63 7.99 0 0 0
;16+11.39
43 7281.82 12.18 0 0 0
;12+08.38
44 7276.49 9.39 0 0 0
;7+05.83
45 7267.94 12.9 0 0 0
;2+77.41
46 7263.99 13.87 0 0 0
;1+20.17
47 7262.97 9.67 0 0 0
;1+25.08
48 7300.73 3.84 0 0 0
;1+39.82
49 7270.5 8.5 0 6 1440
;1+61.9
54 7299.57 6.33 0 0 0
;3+56.11
55 7309.58 6.32 0 0 0
;3+96.02
56 7310.28 7 0 0 0
;3+90.64
59 7266.16 15.6 0 0 0

```
;2+10.58
61               7315.51    5.67       0          0          0
;1+74.42
62               7311.98    8.75       0          0          0
;1+42.24
63               7308.96    8.73       0          0          0
64               7271.16    4.4        0          0          0
F18              7272.70    3.67       0          0          0
F8               7268.64    4.46       0          0          0
pnd_4_Outlet     7260.33    7.12       0          0          0
;INVERT SET TO STUB ELEVATION. POND VALUES FROM MHFD. INVERTS APPROXIMATED.
POND_3FUT        7268.72    3.35       0          0          0
POND_5_OUT       7266.83    2          0          0          0
CNTY_LN_RD       7254.51    9          0          0          0

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
SITE_OUTFALL     7254       FREE                        NO
RD_OVERTOP       0          FREE                        NO

[STORAGE]
;;Name           Elev.    MaxDepth   InitDepth  Shape      Curve Type/Params
   SurDepth  Fevap    Psi      Ksat     IMD
;;-------------- -------- ---------- ----------- ----------
---------------------------- --------- --------          -------- --------
EX-WETLAND       7256.98  8.44       0          TABULAR    EX_WETLAND
   0         0
;DOWNSTREAM PORTION OF POND 4
POND_4B          7261.33  5.85       0          TABULAR    POND_4B_STG-AREA
   0         0
;UPSTREAM PORTION OF POND 4
POND_4A          7264.26  5.85       0          TABULAR    POND_4A-STG-AREA
   0         0
POND_5           7269.33  4.7        0          TABULAR    POND_5
   0         0
POND_2           7273.33  4.4        0          TABULAR    POND_2_PH2
   0         0
;DOWNSTREAM PORTION OF POND 1.
POND_1B          7306.33  7.77       0          TABULAR    POND_1B
   0         0
;UPSTREAM PORTION OF POND 1.
POND_1A          7316.0   6          0          TABULAR    POND_1A
   0         0
;EXISTING POND RECIEVING FLOWS FROM THE DOWNSTREAM PORTION OF PR POND 1
BALD_MTN_DETENTION 7291     5.7        0          TABULAR    BALD_MTN_DET
     0         0
POND_3           7268.97  5          0          TABULAR    POND_3
   0         0
```

```
[CONDUITS]
;;Name           From Node        To Node          Length     Roughness  InOffset
OutOffset  InitFlow   MaxFlow
;;-------------- ---------------- ---------------- ---------- ---------- ----------
---------- ---------- ----------
26               POND_1A          POND_1B          89.78      .013       0
7.62       0          0
29               47               EX-WETLAND       32.17      .013       0
5.79       0          0
51               56               55               34.91      .013       0
.25        0          0
L8               F8               POND_4B          80.56      .013       0
1.87       0          0
54               POND_5_OUT       EX-WETLAND       63.97      .013       0
6.31       0          0
BLD_MTN_OF       BALD_MTN_DETENTION 41               14         .013       0
 4.22       0          0
C1               4                2                466.5      .013       0
1.84       0          0
EX_MISTY_AC_BLVD_PIPE 24               BALD_MTN_DETENTION 82         .013       0
      11.5       0          0
L1               39               EX-WETLAND       56.72      .013       0
.95        0          0
L10              28               POND_4A          64.49      .013       0
1.36       0          0
L11              27               28               53         .013       0
.5         0          0
L12              29               POND_4A          39.92      .013       0
1.73       0          0
L13              30               29               26.02      .013       0
.5         0          0
L14              35               30               6.16       .013       0
.25        0          0
L15              31               30               182.61     .013       0
.25        0          0
L16              32               31               273.78     .013       0
.25        0          0
L17              34               32               6.43       .013       0
.5         0          0
L18              33               32               28.78      .013       0
.5         0          0
L2               pnd_4_Outlet     39               36.4       .013       0
1          0          0
L20              F18              POND_5           45.32      .013       0
1.78       0          0
L22              46               47               153.24     .013       0
.25        0          0
L23              46               59               109.24     .013       0
1          0          0
L24              45               59               306.1      .013       0
```

```
.25        0          0
L25                49                 45                 35.27      .013       0
2.         0          0
L26                44                 45                 493.46     .013       0
2.5        0          0
L27                43                 44                 399.01     .013       0
.25        0          0
L28                42                 43                 162.73     .013       0
.25        0          0
L29                41                 42                 52.42      .013       0
.25        0          0
L3                 38                 39                 194.35     .013       0
1          0          0
L30                40                 POND_2             62.76      .013       0
1.49       0          0
L31                3                  40                 170.49     .013       0
5.21       0          0
L32                5                  4                  56.31      .013       0
.25        0          0
;11+34.93 TO 10+81.93
;FLOWS DIRECTED TO INLET WHERE TOTAL COMBINED
;FLOW WOULD DISCHARGE DOWNSTREAM.
L33                6                  5                  53         .013       0
.25        0          0
L34                1                  2                  20.2       .013       0
.5         0          0
L35                48                 1                  22.58      .013       0
1.5        0          0
L36                54                 1                  35.54      .013       0
0.25       0          0
L38                55                 54                 188.21     .013       0
0.5        0          0
L4                 37                 38                 495.19     .013       0
.28        0          0
L44                23                 24                 62.72      .013       0
0.17       0          0
L45                63                 POND_1B            36.24      .013       0
2.09       0          0
L46                62                 63                 16         .013       0
1.32       0          0
L47                61                 62                 44.34      .013       0
1.32       0          0
L5                 POND_3FUT          37                 16         .013       0
1.5        0          0
L53                2                  3                  189.79     .013       0
6.04       0          0
L6                 36                 37                 251.64     .013       0
1          0          0
L7                 64                 36                 56.61      .013       0
.25        0          0
```

```
L9               POND_4A          POND_4B          317        .013       0
1.28       0          0
58               CNTY_LN_RD       SITE_OUTFALL     10         .013       0
0          0          0

[ORIFICES]
;;Name           From Node        To Node          Type         Offset     Qcoeff
 Gated    CloseTime
;;-------------- ---------------- ---------------- ------------ ----------
---------- -------- ----------
GRATE            BALD_MTN_DETENTION 41               BOTTOM       5          0.65
   NO       0
PND_5_OF_1       POND_5           POND_5_OUT       SIDE         0          0.65
 NO       0
PND_5_OF_2       POND_5           POND_5_OUT       SIDE         1          0.65
 NO       0
PND_5_OF_3       POND_5           POND_5_OUT       SIDE         2          0.65
 NO       0
PND_5_OF_4       POND_5           POND_5_OUT       SIDE         3          0.65
 NO       0
PND_4B_OF_1      POND_4B          pnd_4_Outlet     SIDE         0          0.65
 NO       0
PND_4B_OF_2      POND_4B          pnd_4_Outlet     SIDE         1.5        0.65
 NO       0
PND_4B_OF_3      POND_4B          pnd_4_Outlet     SIDE         2.5        0.65
 NO       0
PND_4B_OF_4      POND_4B          pnd_4_Outlet     SIDE         3          0.65
 NO       0
PND_4B_OF_5      POND_4B          pnd_4_Outlet     SIDE         3.5        0.65
 NO       0
;5X5 GRATE REDUCED BY 50%
PND_4B_GRATE     POND_4B          pnd_4_Outlet     BOTTOM       4.63       0.65
 NO       0
PND_5_GRATE      POND_5           POND_5_OUT       BOTTOM       4.02       0.65
 NO       0
PND_2_OF_1       POND_2           64               SIDE         0          0.65
 NO       0
PND_2_OF_2       POND_2           64               SIDE         1          0.65
 NO       0
PND_2_OF_3       POND_2           64               SIDE         2          0.65
 NO       0
;5'X5' BOX REDUCED BY 50% FOR CLOGGING.
PND_2_GRATE      POND_2           64               BOTTOM       2.6        0.65
 NO       0
PND_1_OF_1       POND_1B          23               SIDE         0          0.65
 NO       0
PND_1_OF_2       POND_1B          23               SIDE         .33        0.65
 NO       0
PND_1_OF_3       POND_1B          23               SIDE         .33        0.65
 NO       0
```

```
PND_1_OF_4       POND_1B          23               SIDE         .66        0.65
 NO       0
PND_1_OF_5       POND_1B          23               SIDE         .66        0.65
 NO       0
PND_1_OF_6       POND_1B          23               SIDE         1          0.65
 NO       0
PND_1_OF_7       POND_1B          23               SIDE         1          0.65
 NO       0
PND_1_OF_8       POND_1B          23               SIDE         2.5        0.65
 NO       0
PND_1_OF_9       POND_1B          23               SIDE         2.5        0.65
 NO       0
PND_1_OF_10      POND_1B          23               SIDE         3.5        0.65
 NO       0
PND_1_OF_11      POND_1B          23               SIDE         3.5        0.65
 NO       0
;5X5 GRATE REDUCED BY 50%
PND_1_GRATE      POND_1B          23               BOTTOM       3.93       0.65
 NO       0
PND_3_OF_1       POND_3           POND_3FUT        SIDE         0          0.65
 NO       0
PND_3_OF_2       POND_3           POND_3FUT        SIDE         1          0.65
 NO       0
PND_3_OF_3       POND_3           POND_3FUT        SIDE         2          0.65
 NO       0
;5X5 GRATE WITH 50% REDUCTION.
PND3_GRATE       POND_3           POND_3FUT        BOTTOM       0          0.65
 NO       0
CNTY_LN_RD_CULV_1_EX EX-WETLAND       CNTY_LN_RD       SIDE         0          0.65
     NO       0
CNTY_LN_RD_CULV_2 EX-WETLAND       CNTY_LN_RD       SIDE         0          0.65
  NO       0
CNTY_LN_RD_CULV_3 EX-WETLAND       CNTY_LN_RD       SIDE         0          0.65
  NO       0

[WEIRS]
;;Name           From Node        To Node          Type         CrestHt    Qcoeff
 Gated    EndCon   EndCoeff   Surcharge  RoadWidth  RoadSurf   Coeff. Curve
;;-------------- ---------------- ---------------- ------------ ----------
---------- -------- -------- ---------- ---------- ---------- ----------
----------------
CTY_LN_RD        EX-WETLAND       RD_OVERTOP       ROADWAY      6.44       3.33
 NO       0        0          YES        0          PAVED

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4
Barrels    Culvert
;;-------------- ------------ ---------------- ---------- ---------- ----------
---------- ----------
26               CIRCULAR     2.5              0          0          0          1
```

29	CIRCULAR	6.5	0	0	0	1
51	CIRCULAR	2.5	0	0	0	1
L8	CIRCULAR	1.5	0	0	0	1
54	CIRCULAR	1.5	0	0	0	1
BLD_MTN_OF	CIRCULAR	3	0	0	0	1
C1	CIRCULAR	2	0	0	0	1
EX_MISTY_AC_BLVD_PIPE	CIRCULAR	4	0	0	0	1
L1	CIRCULAR	4	0	0	0	1
L10	CIRCULAR	2.5	0	0	0	1
L11	CIRCULAR	2	0	0	0	1
L12	CIRCULAR	3	0	0	0	1
L13	CIRCULAR	2.5	0	0	0	1
L14	CIRCULAR	2.5	0	0	0	1
L15	CIRCULAR	2.5	0	0	0	1
L16	CIRCULAR	2.5	0	0	0	1
L17	CIRCULAR	2	0	0	0	1
L18	CIRCULAR	2	0	0	0	1
L2	CIRCULAR	3	0	0	0	1
L20	CIRCULAR	1.5	0	0	0	1
L22	CIRCULAR	6.5	0	0	0	1
L23	CIRCULAR	6.5	0	0	0	1
L24	CIRCULAR	6.5	0	0	0	1
L25	CIRCULAR	4.5	0	0	0	1
L26	CIRCULAR	4	0	0	0	1
L27	CIRCULAR	4	0	0	0	1

L28	CIRCULAR	4	0	0	0	1
L29	CIRCULAR	3	0	0	0	1
L3	CIRCULAR	3	0	0	0	1
L30	CIRCULAR	3.5	0	0	0	1
L31	CIRCULAR	3.5	0	0	0	1
L32	CIRCULAR	2	0	0	0	1
L33	CIRCULAR	2	0	0	0	1
L34	CIRCULAR	3	0	0	0	1
L35	CIRCULAR	1.5	0	0	0	1
L36	CIRCULAR	3	0	0	0	1
L38	CIRCULAR	2.5	0	0	0	1
L4	CIRCULAR	3	0	0	0	1
L44	CIRCULAR	2	0	0	0	1
L45	CIRCULAR	2.5	0	0	0	1
L46	CIRCULAR	2.5	0	0	0	1
L47	CIRCULAR	2.5	0	0	0	1
L5	CIRCULAR	1.5	0	0	0	1
L53	CIRCULAR	3.5	0	0	0	1
L6	CIRCULAR	3	0	0	0	1
L7	CIRCULAR	3	0	0	0	1
L9	CIRCULAR	2.5	0	0	0	1
58	TRIANGULAR	10	300	0	0	1
GRATE	RECT_CLOSED	4	7	0	0	
PND_5_OF_1	CIRCULAR	.061	0	0	0	
PND_5_OF_2	CIRCULAR	.05	0	0	0	
PND_5_OF_3	CIRCULAR	.05	0	0	0	
PND_5_OF_4	CIRCULAR	.05	0	0	0	

```
PND_4B_OF_1      CIRCULAR     .136            0          0          0
PND_4B_OF_2      CIRCULAR     .107            0          0          0
PND_4B_OF_3      CIRCULAR     .107            0          0          0
PND_4B_OF_4      CIRCULAR     .107            0          0          0
PND_4B_OF_5      CIRCULAR     .107            0          0          0
PND_4B_GRATE     RECT_CLOSED  5               2.5        0          0
PND_5_GRATE      RECT_CLOSED  2.5             5          0          0
PND_2_OF_1       CIRCULAR     .176            0          0          0
PND_2_OF_2       CIRCULAR     .119            0          0          0
PND_2_OF_3       CIRCULAR     .119            0          0          0
PND_2_GRATE      RECT_CLOSED  5               2          0          0
PND_1_OF_1       CIRCULAR     .094            0          0          0
PND_1_OF_2       CIRCULAR     .094            0          0          0
PND_1_OF_3       CIRCULAR     .094            0          0          0
PND_1_OF_4       CIRCULAR     .094            0          0          0
PND_1_OF_5       CIRCULAR     .094            0          0          0
PND_1_OF_6       CIRCULAR     .115            0          0          0
PND_1_OF_7       CIRCULAR     .115            0          0          0
PND_1_OF_8       CIRCULAR     .163            0          0          0
PND_1_OF_9       CIRCULAR     .163            0          0          0
PND_1_OF_10      CIRCULAR     .221            0          0          0
PND_1_OF_11      CIRCULAR     .221            0          0          0
PND_1_GRATE      RECT_CLOSED  2.5             5          0          0
PND_3_OF_1       CIRCULAR     .124            0          0          0
PND_3_OF_2       CIRCULAR     .088            0          0          0
PND_3_OF_3       CIRCULAR     .088            0          0          0
PND3_GRATE       RECT_CLOSED  2.5             5          0          0
CNTY_LN_RD_CULV_1_EX CIRCULAR     4              0          0          0
CNTY_LN_RD_CULV_2 CIRCULAR     4               0          0          0
CNTY_LN_RD_CULV_3 CIRCULAR     4.5             0          0          0
CTY_LN_RD        RECT_OPEN    2               200        20         20

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
BALD_MTN_DET     Storage    0          2000
BALD_MTN_DET                1          21089
BALD_MTN_DET                3          197908
BALD_MTN_DET                5          487608
BALD_MTN_DET                5.7        634609
;
EX_WETLAND       Storage    0          2055
EX_WETLAND                  2          11240
EX_WETLAND                  4          29650
EX_WETLAND                  6          48392
EX_WETLAND                  7          58009
;
POND_2_PH2       Storage    0.00       10410
POND_2_PH2                  0.67       10963
POND_2_PH2                  1.67       12719
```

```
POND_2_PH2                2.67       14905
POND_2_PH2                3.67       17066
POND_2_PH2                4.67       19340
POND_2_PH2                5.67       21660
;
POND_5           Storage  0.00       650
POND_5                    0.67       1151
POND_5                    1.67       1340
POND_5                    2.67       2044
POND_5                    3.67       3047
POND_5                    4.67       4256
POND_5                    5.67       5630
POND_5                    6.87       7263
;
POND_3           Storage  0.00       3590
POND_3                    1.00       5985
POND_3                    2.00       8494
POND_3                    3.00       11115
POND_3                    4.00       12100
POND_3                    5.00       13200
;
POND_1B          Storage  0.00       25
POND_1B                   0.67       12785
POND_1B                   1.67       15418
POND_1B                   2.67       17783
POND_1B                   3.67       20628
POND_1B                   4.67       23592
POND_1B                   5.57       26769
POND_1B                   5.67       30859
POND_1B                   6.17       32440
POND_1B                   6.67       33242
POND_1B                   7.77       35689
;
POND_1A          Storage  0          106
POND_1A                   2          3052
POND_1A                   4          5574
POND_1A                   6          8745
;
POND_4A-STG-AREA Storage  0          3686
POND_4A-STG-AREA          2          7254
POND_4A-STG-AREA          4          12135
;
POND_4B_STG-AREA Storage  0          2287
POND_4B_STG-AREA          2          5235
POND_4B_STG-AREA          4          9272
POND_4B_STG-AREA          6          14318

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
```

```
EURV                    0           0
EURV                    0:05        0.015
EURV                    0:10        0.049
EURV                    0:15        0.085
EURV                    0:20        0.128
EURV                    0:25        0.192
EURV                    0:30        0.276
EURV                    0:35        0.450
EURV                    0:40        0.762
EURV                    0:45        0.882
EURV                    0:50        0.954
EURV                    0:55        1.000
EURV                    1:00        1.040
EURV                    1:05        1.074
EURV                    1:10        1.089
EURV                    1:15        1.102
EURV                    1:20        1.114
EURV                    1:25        1.126
EURV                    1:30        1.137
EURV                    1:35        1.147
EURV                    1:40        1.158
EURV                    1:45        1.167
EURV                    1:50        1.177
EURV                    1:55        1.187
EURV                    2:00        1.197
;
WQCV                    0           0
WQCV                    0:05        0.006
WQCV                    0:10        0.020
WQCV                    0:15        0.034
WQCV                    0:20        0.052
WQCV                    0:25        0.077
WQCV                    0:30        0.111
WQCV                    0:35        0.181
WQCV                    0:40        0.306
WQCV                    0:45        0.354
WQCV                    0:50        0.384
WQCV                    0:55        0.402
WQCV                    1:00        0.418
WQCV                    1:05        0.432
WQCV                    1:10        0.438
WQCV                    1:15        0.443
WQCV                    1:20        0.448
WQCV                    1:25        0.452
WQCV                    1:30        0.457
WQCV                    1:35        0.461
WQCV                    1:40        0.465
WQCV                    1:45        0.469
WQCV                    1:50        0.473
WQCV                    1:55        0.477
```

WQCV	2:00	0.481
;		
2-YEAR	0	0
2-YEAR	0:05	0.017
2-YEAR	0:10	0.055
2-YEAR	0:15	0.094
2-YEAR	0:20	0.143
2-YEAR	0:25	0.213
2-YEAR	0:30	0.307
2-YEAR	0:35	0.501
2-YEAR	0:40	0.847
2-YEAR	0:45	0.981
2-YEAR	0:50	1.061
2-YEAR	0:55	1.113
2-YEAR	1:00	1.157
2-YEAR	1:05	1.195
2-YEAR	1:10	1.211
2-YEAR	1:15	1.226
2-YEAR	1:20	1.239
2-YEAR	1:25	1.252
2-YEAR	1:30	1.265
2-YEAR	1:35	1.276
2-YEAR	1:40	1.288
2-YEAR	1:45	1.298
2-YEAR	1:50	1.309
2-YEAR	1:55	1.320
2-YEAR	2:00	1.332
;		
5-YEAR	0	0
5-YEAR	0:05	0.021
5-YEAR	0:10	0.069
5-YEAR	0:15	0.119
5-YEAR	0:20	0.180
5-YEAR	0:25	0.269
5-YEAR	0:30	0.387
5-YEAR	0:35	0.632
5-YEAR	0:40	1.068
5-YEAR	0:45	1.236
5-YEAR	0:50	1.338
5-YEAR	0:55	1.403
5-YEAR	1:00	1.458
5-YEAR	1:05	1.506
5-YEAR	1:10	1.527
5-YEAR	1:15	1.545
5-YEAR	1:20	1.562
5-YEAR	1:25	1.578
5-YEAR	1:30	1.595
5-YEAR	1:35	1.608
5-YEAR	1:40	1.623
5-YEAR	1:45	1.637

```
5-YEAR                  1:50        1.650
5-YEAR                  1:55        1.664
5-YEAR                  2:00        1.679
;
10-YEAR                 0           0
10-YEAR                 0:05        0.025
10-YEAR                 0:10        0.081
10-YEAR                 0:15        0.138
10-YEAR                 0:20        0.210
10-YEAR                 0:25        0.313
10-YEAR                 0:30        0.452
10-YEAR                 0:35        0.737
10-YEAR                 0:40        1.246
10-YEAR                 0:45        1.442
10-YEAR                 0:50        1.561
10-YEAR                 0:55        1.636
10-YEAR                 1:00        1.701
10-YEAR                 1:05        1.757
10-YEAR                 1:10        1.782
10-YEAR                 1:15        1.803
10-YEAR                 1:20        1.822
10-YEAR                 1:25        1.841
10-YEAR                 1:30        1.860
10-YEAR                 1:35        1.876
10-YEAR                 1:40        1.894
10-YEAR                 1:45        1.909
10-YEAR                 1:50        1.925
10-YEAR                 1:55        1.941
10-YEAR                 2:00        1.958
;
25-YEAR                 0           0
25-YEAR                 0:05        0.028
25-YEAR                 0:10        0.092
25-YEAR                 0:15        0.158
25-YEAR                 0:20        0.240
25-YEAR                 0:25        0.358
25-YEAR                 0:30        0.516
25-YEAR                 0:35        0.842
25-YEAR                 0:40        1.424
25-YEAR                 0:45        1.648
25-YEAR                 0:50        1.784
25-YEAR                 0:55        1.870
25-YEAR                 1:00        1.944
25-YEAR                 1:05        2.008
25-YEAR                 1:10        2.036
25-YEAR                 1:15        2.060
25-YEAR                 1:20        2.082
25-YEAR                 1:25        2.104
25-YEAR                 1:30        2.126
25-YEAR                 1:35        2.144
```

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25-YEAR                 1:40       2.164
25-YEAR                 1:45       2.182
25-YEAR                 1:50       2.200
25-YEAR                 1:55       2.218
25-YEAR                 2:00       2.238
;
50-YEAR                 0          0
50-YEAR                 0:05       0.032
50-YEAR                 0:10       0.104
50-YEAR                 0:15       0.178
50-YEAR                 0:20       0.270
50-YEAR                 0:25       0.403
50-YEAR                 0:30       0.581
50-YEAR                 0:35       0.947
50-YEAR                 0:40       1.602
50-YEAR                 0:45       1.854
50-YEAR                 0:50       2.007
50-YEAR                 0:55       2.104
50-YEAR                 1:00       2.187
50-YEAR                 1:05       2.259
50-YEAR                 1:10       2.291
50-YEAR                 1:15       2.318
50-YEAR                 1:20       2.342
50-YEAR                 1:25       2.367
50-YEAR                 1:30       2.392
50-YEAR                 1:35       2.412
50-YEAR                 1:40       2.435
50-YEAR                 1:45       2.455
50-YEAR                 1:50       2.475
50-YEAR                 1:55       2.495
50-YEAR                 2:00       2.518
;
100-YEAR                0          0
100-YEAR                0:05       0.035
100-YEAR                0:10       0.116
100-YEAR                0:15       0.199
100-YEAR                0:20       0.302
100-YEAR                0:25       0.451
100-YEAR                0:30       0.650
100-YEAR                0:35       1.061
100-YEAR                0:40       1.794
100-YEAR                0:45       2.076
100-YEAR                0:50       2.248
100-YEAR                0:55       2.356
100-YEAR                1:00       2.449
100-YEAR                1:05       2.530
100-YEAR                1:10       2.565
100-YEAR                1:15       2.596
100-YEAR                1:20       2.623
100-YEAR                1:25       2.651
```

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100-YEAR                    1:30       2.679
100-YEAR                    1:35       2.701
100-YEAR                    1:40       2.727
100-YEAR                    1:45       2.749
100-YEAR                    1:50       2.772
100-YEAR                    1:55       2.795
100-YEAR                    2:00       2.820

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS -3385.997 -441.059 12727.273 10000.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
1                3699.964           5436.557
2                3747.016           5405.523
3                3979.276           5790.953
4                3509.709           4384.396
5                3569.912           4263.467
6                3697.975           4274.255
23               3570.086           3668.917
24               3627.506           3679.705
27               4388.219           7226.495
28               4515.361           7224.493
29               4738.611           6945.181
30               4741.851           6882.363
31               5153.074           6760.975
32               4974.875           6152.295
33               5033.941           6110.248
34               4949.847           6142.284
35               4731.343           6854.344
36               4342.759           6644.874
37               4341.758           7227.525
38               4336.752           8366.798
39               4784.252           8467.911
40               4184.736           6136.172
41               4593.628           5028.195
42               4605.760           5115.294
43               5031.236           5142.325
44               5287.522           6023.309
45               5592.863           7122.537
```

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46                5534.618           7884.368
47                5284.519           7972.486
48                3725.993           5487.614
49                5680.407           7074.913
54                3623.139           5482.840
55                3185.651           5552.919
56                3159.622           5463.819
59                5783.936           7804.947
61                3512.829           3280.346
62                3568.866           3384.287
63                3546.723           3439.873
64                4226.387           6555.946
F18               5338.504           7760.064
F8                4509.129           8371.067
pnd_4_Outlet      4764.175           8371.303
POND_3FUT         4298.912           7229.862
POND_5_OUT        5193.342           7840.153
CNTY_LN_RD        5134.744           8609.633
SITE_OUTFALL      5135.557           8633.843
RD_OVERTOP        5247.434           8639.400
EX-WETLAND        5122.195           8326.019
POND_4B           4709.295           8230.487
POND_4A           4722.593           7225.494
POND_5            5281.161           7862.708
POND_2            4066.757           6524.156
POND_1B           3507.515           3707.155
POND_1A           3540.677           3202.771
BALD_MTN_DETENTION 4527.907            4560.888
POND_3            4218.684           7225.669

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
26                3474.119           3260.307
26                3460.103           3425.491
26                3471.646           3667.129
26                3517.167           3705.805
29                5287.522           8038.560
L8                4688.329           8323.013
54                5177.324           7844.158
54                5051.183           7883.201
54                5122.262           8193.548
BLD_MTN_OF        4587.711           4932.664
C1                3619.874           5129.214
C1                3547.794           4893.951
C1                3510.753           4619.645
EX_MISTY_AC_BLVD_PIPE 3839.550            3987.022
L1                4927.719           8462.231
L12               4755.353           7052.203
L20               5241.396           7794.102
```

L30	4107.827	6259.878
L45	3526.160	3509.750
L45	3478.597	3660.734
L9	4693.619	7352.424
L9	4722.458	8084.670
GRATE	4502.751	4832.339
GRATE	4512.693	4956.164
PND_5_OF_1	5269.148	7902.753
PND_5_OF_1	5225.098	7885.734
PND_5_OF_2	5283.163	7917.769
PND_5_OF_2	5219.092	7901.752
PND_5_OF_3	5296.178	7929.783
PND_5_OF_3	5214.086	7914.766
PND_5_OF_4	5311.195	7944.800
PND_5_OF_4	5200.071	7932.786
PND_4B_OF_1	4775.170	8278.562
PND_4B_OF_1	4783.176	8327.095
PND_4B_OF_2	4760.160	8288.068
PND_4B_OF_2	4765.663	8321.591
PND_4B_OF_3	4745.149	8291.070
PND_4B_OF_3	4753.655	8333.099
PND_4B_OF_4	4729.639	8294.072
PND_4B_OF_4	4746.150	8349.610
PND_4B_OF_5	4717.630	8295.573
PND_4B_OF_5	4734.142	8346.108
PND_4B_GRATE	4708.124	8303.078
PND_4B_GRATE	4721.133	8348.109
PND_2_OF_1	4124.582	6503.120
PND_2_OF_1	4196.132	6492.613
PND_2_OF_2	4128.585	6516.129
PND_2_OF_2	4188.126	6507.123
PND_2_OF_3	4125.083	6531.140
PND_2_OF_3	4178.119	6521.633
PND_2_GRATE	4123.081	6544.649
PND_2_GRATE	4173.616	6535.643
PND_1_OF_1	3536.365	3715.191
PND_1_OF_1	3547.618	3663.677
PND_1_OF_2	3532.364	3709.439
PND_1_OF_2	3544.367	3652.424
PND_1_OF_3	3529.614	3699.187
PND_1_OF_3	3542.617	3640.671
PND_1_OF_4	3525.309	3696.421
PND_1_OF_4	3541.063	3627.904
PND_1_OF_5	3520.808	3689.420
PND_1_OF_5	3540.313	3610.149
PND_1_OF_6	3514.556	3690.670
PND_1_OF_6	3540.313	3582.892
PND_1_OF_7	3539.563	3561.136
PND_1_OF_8	3507.804	3680.167
PND_1_OF_8	3542.564	3538.630

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PND_1_OF_9       3503.803           3675.916
PND_1_OF_9       3542.313           3522.126
PND_1_OF_9       3549.065           3525.877
PND_1_OF_10      3498.052           3672.415
PND_1_OF_10      3541.063           3514.124
PND_1_OF_10      3553.566           3522.126
PND_1_OF_11      3493.051           3671.915
PND_1_OF_11      3538.062           3506.872
PND_1_OF_11      3561.819           3520.876
PND_1_GRATE      3523.559           3743.934
PND_1_GRATE      3569.070           3730.930
PND_3_OF_1       4242.701           7253.188
PND_3_OF_1       4273.222           7253.188
PND_3_OF_2       4249.206           7235.175
PND_3_OF_2       4272.722           7233.674
PND_3_OF_3       4245.703           7214.161
PND_3_OF_3       4270.220           7214.161
PND3_GRATE       4237.197           7191.645
PND3_GRATE       4274.723           7191.645
CNTY_LN_RD_CULV_1_EX 5106.837           8459.178
CNTY_LN_RD_CULV_1_EX 5114.724           8600.533
CNTY_LN_RD_CULV_2 5131.710           8454.324
CNTY_LN_RD_CULV_3 5157.797           8464.031
CNTY_LN_RD_CULV_3 5154.157           8608.420
CTY_LN_RD        5219.211           8459.613
CTY_LN_RD        5223.392           8554.733

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
A1F              3311.526           1192.929
A1F              3268.375           1252.784
A1F              3225.223           1312.639
A1F              2980.234           1421.214
A1F              3005.290           1599.388
A1F              3002.506           2312.082
A1F              2509.744           2309.298
A1F              2300.947           2236.915
A1F              2072.661           2245.267
A1F              1964.063           2291.696
A1F              2029.135           2888.362
A1F              2207.334           2704.157
A1F              2533.699           2714.168
A1F              2579.343           2679.566
A1F              2922.133           2680.130
A1F              3005.290           2648.942
A1F              3269.521           2683.133
A1F              3287.541           3150.655
A1F              3347.608           3187.697
A1F              3325.445           3038.697
```

A1F	3525.891	2648.942
A1F	3641.883	2623.066
A1F	3772.029	2541.976
A1F	3556.514	1657.851
A1F	3314.310	1165.089
A2F	2038.092	2994.481
A2F	2094.933	3492.483
A2F	2189.260	3473.016
A2F	2258.338	3374.906
A2F	2186.257	3189.700
A2F	2133.198	3148.654
A2F	2088.147	3037.530
A2F	2040.646	3005.290
A3F	3743.997	3276.797
A3F	3743.040	3264.895
A3F	3766.704	3229.399
A3F	3797.327	3122.216
A3F	3817.079	2930.410
A3F	3812.639	2771.437
A3F	3776.448	2570.991
A3F	3636.878	2632.077
A3F	3533.763	2674.124
A3F	3340.547	3034.526
A3F	3367.577	3233.749
A3F	3487.711	3250.768
A3F	3606.844	3288.810
A3F	3696.945	3284.806
A4F	3257.454	2695.147
A4F	3278.477	3146.651
A4F	3333.797	3184.855
A4F	3372.773	3253.062
A4F	3440.980	3255.846
A4F	3605.234	3298.998
A4F	3726.336	3293.430
A4F	3683.930	3455.997
A4F	3627.506	3438.196
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A4F	3383.909	3357.461
A4F	3254.454	3369.989
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A4F	2316.402	3849.437
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A4F	2924.081	2691.143
A4F	3016.184	2662.110
A4F	3198.388	2692.144
A5F	3382.517	4301.225
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MO7A	8288.973	5233.038
MO7A	7912.391	5303.146
MO7A	7573.868	5297.137
MO7A	7491.741	5377.260
MO7A	6902.831	5403.301
MO7A	6810.046	5193.416
MO7A	6664.463	4944.592
MO7A	6386.414	4832.962
MO7A	6331.949	4521.939
MO7A	6123.627	4437.809
MO7A	6096.882	4292.873
MO7A	6077.556	4083.261
MO7A	6191.537	3986.637
MO7A	6366.002	3782.797
MO7A	6692.650	3596.882
MO7A	6854.120	3207.127
MO7A	6982.183	3045.657
MO7A	7277.283	2962.138
MO7A	7399.777	2795.100
MO7A	7394.209	2561.247
MO7A	7689.310	1959.911
MO7A	7756.125	1887.528
MO7A	8101.336	1525.612
MO7A	8262.806	1520.045
MO7A	8385.301	1236.080
MO7A	8390.869	1124.722
MO7A	8390.869	1063.474
MO7A	8580.178	952.116
MO7A	8775.056	734.967
MO7A	9237.194	851.893
MO7A	9860.802	1185.969
MO7A	9977.728	1185.969
MO7A	10072.383	1185.969
MO7A	10139.198	1208.241
MO7A	10289.532	1425.390
MO7A	10484.410	1514.477
MO7A	10551.225	1514.477
MO7A	10684.855	1475.501
MO7A	10746.102	1430.958

MO7A	10840.757	1430.958
MO7A	10913.140	1492.205
MO7A	10946.548	1614.699
MO7A	10968.820	1748.330
MO7A	10952.116	1937.639
MO7A	10991.091	2193.764
MO7A	11566.930	2301.648
MO7A	11581.292	2455.457
MO7A	11715.159	2884.549
MO7B	6448.183	7233.218
MO7B	6486.895	7206.852
MO7B	6525.607	7180.486
MO7B	6725.916	6835.954
MO7B	7274.764	6467.385
MO7B	7463.055	6453.363
MO7B	7589.609	6058.385
MO7B	7775.538	6022.698
MO7B	8138.098	5650.122
MO7B	8268.299	5251.506
MO7B	7925.770	5319.611
MO7B	7581.237	5311.599
MO7B	7507.123	5393.726
MO7B	6906.195	5421.769
MO7B	6798.027	5203.432
MO7B	6646.632	4951.795
MO7B	6380.220	4845.631
MO7B	6314.118	4533.149
MO7B	6099.787	4443.009
MO7B	6058.428	4087.338
MO7B	5958.206	4287.784
MO7B	5935.934	4632.995
MO7B	5729.921	4872.416
MO7B	5729.921	5061.726
MO7B	5569.172	5612.636
MO7B	5639.280	5682.744
MO7B	5609.234	5768.877
MO7B	5716.356	6066.766
MO7B	5736.387	6273.084
MO7B	5876.604	6571.545
MO7B	5926.681	6669.697
MO7B	5651.970	6915.846
MO7B	5624.130	7004.933
MO7B	5673.651	7216.958
MO7B	5870.733	7299.490
MO7B	6027.972	7322.942
MO7B	6081.236	7350.949
MO7B	6233.525	7323.692
MO8	6378.584	7286.113
MO8	6232.027	7332.206
MO8	6295.065	7634.109

```
MO8             6292.281          7809.499
MO8             6306.104          8386.550
MO8             6295.601          8483.825
MO8             6406.630          8552.093
MO8             6635.440          8539.590
MO8             6515.988          8386.103
MO8             6489.943          8305.044
MO8             6528.918          8079.543
MO8             6537.002          7862.743
MO8             6562.326          7770.523
MO8             6555.515          7602.063
MO8             6567.894          7436.447
MO8             6518.101          7317.203
MO8             6517.851          7198.922

;;Storage Node   X-Coord           Y-Coord
;;--------------- ----------------- -----------------
EX-WETLAND      5088.505          8308.479
EX-WETLAND      5089.506          8347.523
EX-WETLAND      5160.585          8342.517
EX-WETLAND      5150.574          8304.475
EX-WETLAND      5092.509          8307.478
POND_4B         4734.381          8208.886
POND_4B         4683.324          8207.885
POND_4B         4683.324          8250.933
POND_4B         4735.382          8253.936
POND_4A         4707.845          7268.277
POND_4A         4724.864          7274.284
POND_4A         4736.878          7262.270
POND_4A         4750.401          7215.815
POND_4A         4756.900          7195.195
POND_4A         4732.873          7174.172
POND_4A         4697.834          7205.207
POND_4A         4690.826          7259.267
POND_5          5288.118          7889.561
POND_5          5309.141          7882.553
POND_5          5311.094          7839.076
POND_5          5287.117          7836.501
POND_5          5252.078          7840.506
POND_5          5253.079          7887.558
POND_2          4058.441          6554.774
POND_2          4102.491          6543.761
POND_2          4081.467          6496.709
POND_2          4037.418          6496.709
POND_2          4041.422          6536.753
POND_1B         3531.183          3733.836
POND_1B         3527.178          3685.782
POND_1B         3489.136          3681.778
POND_1B         3481.127          3722.824
POND_1A         3535.187          3235.279
```

```
POND_1A          3568.224           3226.269
POND_1A          3571.228           3183.221
POND_1A          3517.167           3170.206
POND_1A          3509.158           3213.254
BALD_MTN_DETENTION 4518.599           4650.047
BALD_MTN_DETENTION 4706.890           4585.948
BALD_MTN_DETENTION 4538.630           4475.777
BALD_MTN_DETENTION 4384.392           4493.805
BALD_MTN_DETENTION 4448.491           4630.016
POND_3           4242.478           7241.253
POND_3           4242.478           7214.223
POND_3           4196.426           7207.215
POND_3           4196.426           7240.252

[SYMBOLS]
;;Gage           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
RG               2497.859           9355.283

[LABELS]
;;X-Coord          Y-Coord            Label
4433.120           6809.212           "D1F" "" "Arial" 10 0 0


[BACKDROP]
FILE       "C:\Users\jts56\OneDrive - Matrix Design Group\Documents\+Matrix
Projects\Monument\2024.04.12 SWMM Modeling items\SWMM 2026.04.12\SWMM Unfinished
Model\Download 2026-04-26T18-49-45-129Z\BASIN LAYOUT-FUTURE.jpg"
DIMENSIONS -3032.577 -441.059 12421.968 9558.941

[PROFILES]
;;Name           Links
;;-------------- ----------
"BLD MTN TO SITE OUTFALL" BLD_MTN_OF L29 L28 L27 L26
"BLD MTN TO SITE OUTFALL" L24 L23 L22 29 L53-L54
"PND2 TO SITE OUTFALL" L32 C1 L53 L31 L30
"PND2 TO SITE OUTFALL" PND_2_OF_1 L7 L6 L4 L3
"PND2 TO SITE OUTFALL" L1 L53-L54
```

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - Q100

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

**********	Volume	Depth
Runoff Quantity Continuity	acre-feet	inches
**********	---	---
Total Precipitation	53.183	2.820
Evaporation Loss	0.000	0.000
Infiltration Loss	19.098	1.013
Surface Runoff	34.170	1.812
Final Storage	0.268	0.014
Continuity Error (%)	-0.663	

**********	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
**********	---	---
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	34.169	11.134
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	34.172	11.135
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.033	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (70.85%)
Link 58 (23.96%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Node SITE_OUTFALL (0.02%)
Node RD_OVERTOP (0.02%)
Node 49 (0.01%)
Node 45 (0.01%)
Node 42 (0.00%)

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.30 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.02
Time Step Frequencies	:	
20.000 - 9.564 sec	:	15.47 %
9.564 - 4.573 sec	:	10.57 %
4.573 - 2.187 sec	:	20.82 %
2.187 - 1.046 sec	:	43.83 %

1.046 - 0.500 sec : 9.31 %

****
Subcatchment Runoff Summary
****

Subcatchment	Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff 10^6 gal	Total Runoff CFS	Peak Runoff Coeff
A1F	2.82	0.00	0.00	0.70	1.54	0.59	2.13	0.38	45.49	0.754
A2F	2.82	0.00	0.00	1.05	0.78	1.01	1.80	0.01	2.34	0.637
A3F	2.82	0.00	0.00	0.95	1.00	0.88	1.89	0.06	8.85	0.669
A4F	2.82	0.00	0.00	0.55	1.79	0.48	2.27	0.35	42.02	0.804
A5F	2.82	0.00	0.00	0.73	1.44	0.66	2.10	0.13	16.94	0.745
B1F	2.82	0.00	0.00	0.61	1.70	0.51	2.21	0.30	35.32	0.783
B2F	2.82	0.00	0.00	0.79	1.30	0.75	2.04	0.02	2.48	0.724
B3F	2.82	0.00	0.00	0.34	2.14	0.33	2.47	0.02	3.10	0.876
B4F	2.82	0.00	0.00	0.43	1.98	0.41	2.39	0.03	3.82	0.847
B5F	2.82	0.00	0.00	0.37	2.09	0.36	2.44	0.07	9.44	0.866
B6F	2.82	0.00	0.00	0.61	1.70	0.51	2.22	0.20	24.39	0.786
B7F	2.82	0.00	0.00	0.57	1.73	0.53	2.26	0.05	6.05	0.801
B8F	2.82	0.00	0.00	0.43	1.97	0.42	2.38	0.01	1.71	0.846
B9F	2.82	0.00	0.00	0.17	2.40	0.24	2.63	0.08	10.27	0.934
C1F	2.82	0.00	0.00	0.76	1.24	0.83	2.07	0.54	56.84	0.733
D1F	2.82	0.00	0.00	0.74	1.24					

```
0.85       2.09        0.42    46.89   0.741
  D2F                          2.82       0.00       0.00       0.62       1.37
0.84       2.21        0.04     5.08   0.783
  JJ                           2.82       0.00       0.00       1.11       0.45
1.27       1.72        0.32    34.09   0.611
  MD2                          2.82       0.00       0.00       0.89       1.29
0.64       1.93        0.64    65.56   0.684
  MD5                          2.82       0.00       0.00       1.25       0.34
1.24       1.58        0.07     5.47   0.560
  ME                           2.82       0.00       0.00       0.65       1.36
0.82       2.18        0.19    24.21   0.773
  MO1                          2.82       0.00       0.00       1.34       0.00
1.50       1.50        0.31    29.77   0.531
  MO2                          2.82       0.00       0.00       0.43       1.98
0.41       2.39        0.03     4.36   0.847
  MO3                          2.82       0.00       0.00       0.60       1.65
0.57       2.22        0.08    11.16   0.788
  MO4                          2.82       0.00       0.00       0.46       1.93
0.43       2.36        0.05     6.16   0.837
  MO5                          2.82       0.00       0.00       1.05       1.11
0.66       1.77        2.89   269.70   0.628
  MO6                          2.82       0.00       0.00       1.27       0.00
1.58       1.58        0.03     3.74   0.562
  MO7A                         2.82       0.00       0.00       1.21       0.85
0.76       1.61        2.87   257.42   0.571
  MO7B                         2.82       0.00       0.00       1.08       0.95
0.79       1.74        0.87    90.96   0.618
  MO8                          2.82       0.00       0.00       0.63       1.62
0.57       2.20        0.08    10.83   0.779


  ******************
  Node Depth Summary
  ******************

  ----------------------------------------------------------------------------
                                Average  Maximum  Maximum  Time of Max    Reported
                                  Depth    Depth      HGL   Occurrence   Max Depth
  Node                  Type       Feet     Feet     Feet  days hr:min        Feet
  ----------------------------------------------------------------------------
  1                     JUNCTION   0.03     1.49  7299.85     0  00:45        1.49
  2                     JUNCTION   0.03     1.72  7299.04     0  00:45        1.70
  3                     JUNCTION   0.03     1.68  7288.25     0  00:45        1.65
  4                     JUNCTION   0.03     1.52  7306.63     0  00:45        1.45
  5                     JUNCTION   0.03     1.76  7307.69     0  00:45        1.75
  6                     JUNCTION   0.00     1.02  7307.73     0  00:45        0.98
  23                    JUNCTION   0.20     5.24  7310.87     0  00:57        5.21
  24                    JUNCTION   0.08     1.24  7306.39     0  00:57        1.24
  27                    JUNCTION   0.02     1.62  7269.56     0  00:56        1.60
  28                    JUNCTION   0.07     3.18  7269.56     0  00:56        3.16
```

29	JUNCTION	0.06	2.96	7269.52	0	00:57	2.92
30	JUNCTION	0.34	3.49	7270.27	0	00:44	3.46
31	JUNCTION	0.00	0.00	7272.09	0	00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0	00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.02	2.00	7270.24	0	00:44	2.00
36	JUNCTION	0.09	2.21	7272.51	0	00:50	2.19
37	JUNCTION	0.13	4.23	7271.01	0	00:50	4.18
38	JUNCTION	0.10	2.34	7265.37	0	00:54	2.34
39	JUNCTION	0.16	4.63	7263.67	0	00:58	4.60
40	JUNCTION	0.03	1.63	7278.39	0	00:45	1.58
41	JUNCTION	0.24	7.63	7292.03	0	00:54	7.44
42	JUNCTION	0.19	6.91	7290.54	0	00:54	4.85
43	JUNCTION	0.17	11.41	7293.23	0	00:54	4.43
44	JUNCTION	0.17	4.46	7280.95	0	00:53	4.26
45	JUNCTION	0.21	12.52	7280.46	0	00:44	6.82
46	JUNCTION	0.22	7.39	7271.38	0	00:45	6.10
47	JUNCTION	0.20	6.01	7268.98	0	00:45	5.66
48	JUNCTION	0.01	0.71	7301.44	0	00:45	0.71
49	JUNCTION	0.08	10.61	7281.11	0	00:44	5.43
54	JUNCTION	0.02	1.33	7300.90	0	00:45	1.33
55	JUNCTION	0.02	1.08	7310.66	0	00:45	1.07
56	JUNCTION	0.03	1.64	7311.92	0	00:45	1.63
59	JUNCTION	1.14	5.63	7271.79	0	00:45	5.63
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.01	7311.99	0	00:56	0.00
63	JUNCTION	0.17	3.03	7311.99	0	00:56	2.99
64	JUNCTION	0.09	2.02	7273.18	0	00:49	2.01
F18	JUNCTION	0.08	3.61	7276.31	0	00:45	3.59
F8	JUNCTION	0.01	0.44	7269.08	0	00:45	0.44
pnd_4_Outlet	JUNCTION	0.13	3.47	7263.80	0	00:58	3.45
POND_3FUT	JUNCTION	0.05	2.70	7271.42	0	00:54	2.67
POND_5_OUT	JUNCTION	0.04	1.04	7267.87	0	00:46	0.92
CNTY_LN_RD	JUNCTION	0.11	1.25	7255.76	0	00:58	1.25
SITE_OUTFALL	OUTFALL	0.11	1.25	7255.25	0	00:58	1.25
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.19	6.39	7263.37	0	00:58	6.38
POND_4B	STORAGE	1.59	5.50	7266.83	0	01:00	5.50
POND_4A	STORAGE	0.37	5.22	7269.48	0	00:58	5.20
POND_5	STORAGE	1.32	4.57	7273.90	0	00:46	4.51
POND_2	STORAGE	0.81	3.71	7277.04	0	00:49	3.71
POND_1B	STORAGE	1.19	5.64	7311.97	0	00:57	5.62
POND_1A	STORAGE	0.04	2.99	7318.99	0	00:47	2.80
BALD_MTN_DETENTION	STORAGE	0.09	2.01	7293.01	0	00:57	2.00
POND_3	STORAGE	0.06	3.18	7272.15	0	00:55	3.17

****

Node Inflow Summary

****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	53.73	0 00:45	0	0.445	-0.000
2	JUNCTION	0.00	76.26	0 00:45	0	0.649	-0.001
3	JUNCTION	0.00	76.63	0 00:45	0	0.649	-0.001
4	JUNCTION	0.00	24.20	0 00:45	0	0.203	0.003
5	JUNCTION	24.39	24.39	0 00:45	0.203	0.204	0.000
6	JUNCTION	0.00	0.32	0 00:44	0	0.000348	0.174
23	JUNCTION	0.00	53.80	0 00:57	0	1.4	0.001
24	JUNCTION	0.00	53.80	0 00:57	0	1.4	-0.001
27	JUNCTION	0.00	1.07	0 00:46	0	0.000702	0.129
28	JUNCTION	46.89	46.89	0 00:45	0.421	0.421	0.257
29	JUNCTION	0.00	65.59	0 00:45	0	0.636	0.056
30	JUNCTION	65.56	65.58	0 00:45	0.637	0.637	0.046
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
35	JUNCTION	0.00	1.38	0 00:42	0	0.000264	0.508

```
  36                 JUNCTION      0.00    54.92     0  00:49           0
0.791       0.251
  37                 JUNCTION      0.00    73.84     0  00:47           0
1.33      -0.121
  38                 JUNCTION      0.00    68.46     0  00:50           0
1.33      -0.018
  39                 JUNCTION      0.00   105.12     0  00:56           0
2.5      -0.021
  40                 JUNCTION      0.00    76.96     0  00:45           0
0.649       0.129
  41                 JUNCTION      0.00   174.38     0  00:54           0
4.31       0.001
  42                 JUNCTION      0.00   174.33     0  00:54           0
4.31      -0.001
  43                 JUNCTION      0.00   174.35     0  00:54           0
4.31       0.044
  44                 JUNCTION      0.00   173.52     0  00:53           0
4.31      -0.217
  45                 JUNCTION      0.00   482.60     0  00:45           0
8.06       0.063
  46                 JUNCTION      0.00   497.51     0  00:45           0
8.05      -0.000
  47                 JUNCTION      0.00   490.14     0  00:45           0
8.05       0.000
  48                 JUNCTION      9.44     9.44     0  00:45      0.0736
0.0736      -0.000
  49                 JUNCTION    348.38   348.38     0  00:45        3.74
3.74       0.030
  54                 JUNCTION      9.40    44.45     0  00:45      0.0705
0.372      -0.000
  55                 JUNCTION      0.00    35.35     0  00:45           0
0.301      -0.001
  56                 JUNCTION     35.32    35.32     0  00:45       0.301
0.301      -0.000
  59                 JUNCTION      0.00   483.38     0  00:44           0
8.05       0.000
  61                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                 JUNCTION      0.00     0.02     0  00:56           0
9.82e-07      -0.004 gal
  63                 JUNCTION      0.00     0.47     0  00:45           0
0.00306       0.031
  64                 JUNCTION      0.00    54.90     0  00:49           0
0.791      -0.004
  F18                JUNCTION     24.21    24.21     0  00:45        0.19
0.19       0.030
  F8                 JUNCTION      5.08     5.08     0  00:45      0.0366
0.0366       0.039
  pnd_4_Outlet       JUNCTION      0.00    40.89     0  01:00           0
1.16      -0.043
```

```
  POND_3FUT            JUNCTION      0.00    29.60     0  01:01           0
0.542       -0.002
  POND_5_OUT           JUNCTION      0.00    20.51     0  00:46           0
0.19       -0.006
  CNTY_LN_RD           JUNCTION      0.00   443.52     0  00:58           0
11.1        0.002
  SITE_OUTFALL         OUTFALL       0.00   443.52     0  00:58           0
11.1        0.000
  RD_OVERTOP           OUTFALL       0.00     0.00     0  00:00           0
 0        0.000 gal
  EX-WETLAND           STORAGE      44.93   592.59     0  00:46       0.399
11.1        0.005
  POND_4B              STORAGE       5.47    43.81     0  00:46      0.0677
1.16       -0.515
  POND_4A              STORAGE       0.00   111.73     0  00:45           0
1.06        0.252
  POND_5               STORAGE       0.00    24.21     0  00:45           0
0.19       -0.107
  POND_2               STORAGE      18.02    93.64     0  00:45       0.142
0.79       -0.126
  POND_1B              STORAGE      78.61   143.07     0  00:45       0.618
1.4        0.001
  POND_1A              STORAGE      88.48    88.48     0  00:45       0.777
0.777        0.001
  BALD_MTN_DETENTION   STORAGE     273.44   274.49     0  00:45        2.92
4.31        0.000
  POND_3               STORAGE      56.84    56.84     0  00:45       0.542
0.542        0.001


  **********************
  Node Surcharge Summary
  **********************

  Surcharging occurs when water rises above the top of the highest conduit.
  -------------------------------------------------------------------------
                                          Max. Height   Min. Depth
                                Hours     Above Crown    Below Rim
  Node                 Type   Surcharged       Feet          Feet
  -------------------------------------------------------------------------
  28                   JUNCTION      0.43          0.680        3.720
  30                   JUNCTION      0.26          0.740        3.020
  37                   JUNCTION      0.08          0.232        2.538
  39                   JUNCTION      0.32          0.627        2.453
  42                   JUNCTION      0.47          2.915        1.075
  43                   JUNCTION      0.19          7.156        0.774
  44                   JUNCTION      0.11          0.208        4.932
  45                   JUNCTION      0.04          6.021        0.379
  46                   JUNCTION      0.01          0.889        6.481
  49                   JUNCTION      0.09          6.112        0.000
```

F18	JUNCTION	0.16	2.108	0.062
POND_3FUT	JUNCTION	0.15	0.200	0.650

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	2.454	0.9	0.0	0.0	151.876	54.4	0 00:58	443.52
POND_4B	8.177	18.8	0.0	0.0	38.779	89.1	0 01:00	40.89
POND_4A	2.127	3.7	0.0	0.0	46.888	82.3	0 00:58	37.52
POND_5	1.914	19.4	0.0	0.0	9.326	94.5	0 00:46	20.51
POND_2	9.350	15.1	0.0	0.0	49.505	80.0	0 00:49	54.90
POND_1B	14.953	8.7	0.0	0.0	101.036	58.7	0 00:57	53.97
POND_1A	0.043	0.2	0.0	0.0	6.777	26.0	0 00:47	68.92
BALD_MTN_DETENTION	1.244	0.1	0.0	0.0	77.904	6.0	0 00:57	174.38
POND_3	0.345	0.7	0.0	0.0	23.830	51.7	0 00:55	29.60

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	79.12	12.56	443.52	11.135
RD_OVERTOP	0.00	0.00	0.00	0.000
System	39.56	12.56	443.52	11.135

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	68.92	0 00:48	14.52	1.11	1.00
29	CONDUIT	497.55	0 00:45	15.89	1.20	0.91
51	CONDUIT	35.35	0 00:45	10.48	0.76	0.65
L8	CONDUIT	5.07	0 00:45	7.26	0.19	0.65
54	CONDUIT	20.52	0 00:46	15.64	0.83	0.70
BLD_MTN_OF	CONDUIT	174.38	0 00:54	40.10	0.63	0.83
C1	CONDUIT	23.44	0 00:45	9.25	0.92	0.76
EX_MISTY_AC_BLVD_PIPE	CONDUIT	53.80	0 00:57	16.23	0.21	0.31
L1	CONDUIT	105.11	0 00:56	11.21	0.52	1.00
L10	CONDUIT	46.34	0 00:45	10.28	1.04	1.00
L11	CONDUIT	1.07	0 00:46	0.43	0.03	0.91
L12	CONDUIT	65.76	0 00:45	12.67	0.83	0.99
L13	CONDUIT	65.59	0 00:45	13.36	1.54	1.00
L14	CONDUIT	1.38	0 00:42	0.34	0.01	0.90
L15	CONDUIT	0.00	0 00:00	0.00	0.00	0.50
L16	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
L2	CONDUIT	40.90	0 01:00	8.69	0.69	1.00
L20	CONDUIT	24.21	0 00:45	13.70	1.23	1.00
L22	CONDUIT	490.14	0 00:45	15.29	1.32	0.94
L23	CONDUIT	497.51	0 00:45	17.15	0.56	0.84
L24	CONDUIT	483.38	0 00:44	14.91	1.30	0.94
L25	CONDUIT	348.35	0 00:45	21.90	1.41	1.00
L26	CONDUIT	171.41	0 00:52	14.54	1.08	0.96
L27	CONDUIT	173.52	0 00:53	14.81	1.07	1.00
L28	CONDUIT	174.35	0 00:54	14.01	1.24	1.00
L29	CONDUIT	174.33	0 00:54	24.66	2.62	1.00
L3	CONDUIT	68.33	0 00:51	12.23	0.83	0.89

L30	CONDUIT	77.04	0	00:45	17.09	0.44	0.52
L31	CONDUIT	76.96	0	00:45	16.93	0.47	0.48
L32	CONDUIT	24.20	0	00:45	8.32	1.06	0.87
L33	CONDUIT	0.36	0	00:45	0.21	0.02	0.63
L34	CONDUIT	53.83	0	00:45	15.41	0.49	0.50
L35	CONDUIT	9.45	0	00:45	11.45	0.46	0.48
L36	CONDUIT	44.51	0	00:45	14.75	0.41	0.44
L38	CONDUIT	35.30	0	00:45	17.58	0.38	0.43
L4	CONDUIT	68.46	0	00:50	9.93	1.23	0.94
L44	CONDUIT	53.80	0	00:57	17.13	3.38	1.00
L45	CONDUIT	0.47	0	00:45	0.41	0.01	1.00
L46	CONDUIT	0.02	0	00:56	0.01	0.00	0.34
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	29.62	0	01:01	16.76	1.70	1.00
L53	CONDUIT	76.63	0	00:45	16.39	0.48	0.49
L6	CONDUIT	55.00	0	00:49	9.83	0.82	0.87
L7	CONDUIT	54.92	0	00:49	10.87	0.79	0.67
L9	CONDUIT	37.52	0	00:57	7.64	1.27	1.00
58	CONDUIT	443.52	0	00:58	18.87	0.00	0.13
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:46			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:46			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:46			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:46			1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:39			1.00
PND_4B_OF_2	ORIFICE	0.09	0	01:11			1.00
PND_4B_OF_3	ORIFICE	0.08	0	01:00			1.00
PND_4B_OF_4	ORIFICE	0.07	0	01:00			1.00
PND_4B_OF_5	ORIFICE	0.07	0	01:00			1.00
PND_4B_GRATE	ORIFICE	40.46	0	01:00			
PND_5_GRATE	ORIFICE	20.43	0	00:46			
PND_2_OF_1	ORIFICE	0.24	0	00:49			1.00
PND_2_OF_2	ORIFICE	0.09	0	00:49			1.00
PND_2_OF_3	ORIFICE	0.07	0	00:49			1.00
PND_2_GRATE	ORIFICE	54.49	0	00:49			
PND_1_OF_1	ORIFICE	0.07	0	00:45			1.00
PND_1_OF_2	ORIFICE	0.07	0	00:45			1.00
PND_1_OF_3	ORIFICE	0.07	0	00:45			1.00
PND_1_OF_4	ORIFICE	0.07	0	01:27			1.00
PND_1_OF_5	ORIFICE	0.07	0	01:27			1.00
PND_1_OF_6	ORIFICE	0.10	0	01:23			1.00
PND_1_OF_7	ORIFICE	0.10	0	01:23			1.00
PND_1_OF_8	ORIFICE	0.16	0	00:47			1.00
PND_1_OF_9	ORIFICE	0.16	0	00:47			1.00
PND_1_OF_10	ORIFICE	0.22	0	00:47			1.00
PND_1_OF_11	ORIFICE	0.22	0	00:47			1.00
PND_1_GRATE	ORIFICE	52.85	0	00:57			
PND_3_OF_1	ORIFICE	0.06	0	01:01			1.00
PND_3_OF_2	ORIFICE	0.03	0	01:01			1.00
PND_3_OF_3	ORIFICE	0.03	0	01:01			1.00

PND3_GRATE	ORIFICE	29.48	0	01:01	
CNTY_LN_RD_CULV_1_EX	ORIFICE	137.35	0	00:58	1.00
CNTY_LN_RD_CULV_2	ORIFICE	137.35	0	00:58	1.00
CNTY_LN_RD_CULV_3	ORIFICE	168.82	0	00:58	1.00
CTY_LN_RD	WEIR	0.00	0	00:00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.17	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L8	1.00	0.00	0.08	0.00	0.02	0.00	0.00	0.89	1.00	0.00
54	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.12	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00
L1	1.00	0.10	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.02	0.00
L11	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00
L12	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
L13	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
L14	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	

0.00

L15	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L20	1.00	0.00	0.03	0.00	0.06	0.00	0.00	0.91	0.08
0.00									
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L23	1.00	0.00	0.11	0.00	0.75	0.14	0.00	0.00	1.00
0.00									
L24	1.00	0.00	0.67	0.00	0.32	0.00	0.00	0.00	1.00
0.00									
L25	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L26	1.00	0.14	0.00	0.00	0.00	0.00	0.00	0.86	0.00
0.00									
L27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L30	1.00	0.30	0.00	0.00	0.06	0.00	0.00	0.64	0.06
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00
0.00									
L38	1.00	0.27	0.00	0.00	0.00	0.00	0.00	0.73	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00

```
0.00
  L45                     1.00   0.94  0.02  0.00  0.04  0.00  0.00  0.00  0.96
0.00
  L46                     1.00   0.99  0.01  0.00  0.00  0.00  0.00  0.00  1.00
0.00
  L47                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L5                      1.00   0.01  0.00  0.00  0.00  0.00  0.00  0.99  0.00
0.00
  L53                     1.00   0.21  0.00  0.00  0.00  0.00  0.00  0.79  0.00
0.00
  L6                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L7                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L9                      1.00   0.00  0.00  0.00  0.13  0.00  0.00  0.87  0.06
0.00
  58                      1.00   0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.99
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
26	0.11	0.11	0.15	0.15	0.11
29	0.01	0.01	0.01	0.09	0.01
L8	0.01	0.01	18.13	0.01	0.01
BLD_MTN_OF	0.01	0.01	0.25	0.01	0.01
L1	0.32	0.32	0.52	0.01	0.01
L10	0.43	0.43	0.59	0.01	0.01
L11	0.01	0.01	0.43	0.01	0.01
L12	0.01	0.01	0.35	0.01	0.01
L13	0.02	0.02	0.41	0.13	0.01
L14	0.01	0.01	0.26	0.01	0.01
L2	0.27	0.27	0.32	0.01	0.01
L20	0.16	0.16	11.45	0.06	0.06
L22	0.01	0.01	0.01	0.15	0.01
L23	0.01	0.01	0.01	0.01	0.01
L24	0.01	0.04	0.01	0.16	0.01
L25	0.09	0.09	0.09	0.11	0.09
L26	0.01	0.32	0.04	0.47	0.01
L27	0.10	0.26	0.11	0.43	0.10
L28	0.19	0.47	0.19	0.53	0.19
L29	0.67	0.73	0.67	0.78	0.67

L3	0.01	0.01	0.32	0.01	0.01
L32	0.01	0.01	0.01	0.02	0.01
L4	0.01	0.22	0.01	0.27	0.01
L44	0.49	0.59	0.49	0.66	0.49
L45	0.35	0.35	0.54	0.01	0.01
L5	0.52	0.52	0.57	0.52	0.46
L6	0.01	0.01	0.08	0.01	0.01
L9	0.92	0.92	12.76	0.63	0.60

Analysis begun on: Sat May 9 20:20:04 2026
Analysis ended on: Sat May 9 20:20:10 2026
Total elapsed time: 00:00:06

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - Q50

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

```
****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 04/16/2026 00:00:00
Ending Date .............. 04/30/2026 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 01:00:00
Routing Time Step ........ 20.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 1
Head Tolerance ........... 0.005000 ft
```

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	47.487	2.518
Evaporation Loss	0.000	0.000
Infiltration Loss	18.555	0.984
Surface Runoff	28.980	1.537
Final Storage	0.268	0.014
Continuity Error (%)	-0.666	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	28.980	9.443
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	28.983	9.444
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.039	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (70.86%)
Link 58 (23.85%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.31 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	15.45 %
9.564 - 4.573 sec	:	10.56 %
4.573 - 2.187 sec	:	20.88 %
2.187 - 1.046 sec	:	43.88 %
1.046 - 0.500 sec	:	9.23 %

****

Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	2.52	0.00	0.00	0.68	1.37	0.47	1.84	0.33	39.06	0.731
A2F	2.52	0.00	0.00	1.01	0.70	0.84	1.54	0.01	2.04	0.610
A3F	2.52	0.00	0.00	0.93	0.90	0.72	1.61	0.05	7.59	0.641
A4F	2.52	0.00	0.00	0.54	1.60	0.38	1.98	0.30	36.39	0.786
A5F	2.52	0.00	0.00	0.71	1.28	0.54	1.82	0.11	14.63	0.723
B1F	2.52	0.00	0.00	0.60	1.51	0.41	1.92	0.26	30.45	0.763
B2F	2.52	0.00	0.00	0.77	1.16	0.61	1.77	0.01	2.16	0.702
B3F	2.52	0.00	0.00	0.33	1.91	0.27	2.18	0.02	2.75	0.867
B4F	2.52	0.00	0.00	0.42	1.76	0.34	2.10	0.03	3.38	0.835
B5F	2.52	0.00	0.00	0.36	1.86	0.29	2.15	0.06	8.35	0.855
B6F	2.52	0.00	0.00	0.59	1.52	0.41	1.93	0.18	21.06	0.766
B7F	2.52	0.00	0.00	0.55	1.54	0.43	1.98	0.04	5.30	0.784
B8F	2.52	0.00	0.00	0.42	1.75	0.35	2.10	0.01	1.51	0.834
B9F	2.52	0.00	0.00	0.16	2.14	0.20	2.34	0.07	9.16	0.929
C1F	2.52	0.00	0.00	0.74	1.10	0.68	1.78	0.47	48.68	0.707
D1F	2.52	0.00	0.00	0.72	1.11	0.70	1.80	0.36	40.21	0.716
D2F	2.52	0.00	0.00	0.60	1.22	0.71	1.93	0.03	4.48	0.765
JJ	2.52	0.00	0.00	1.08	0.40					

1.05	1.45	0.27	28.26	0.575				
MD2			2.52	0.00	0.00	0.87	1.15	
0.50	1.65	0.54	55.82	0.655				
MD5			2.52	0.00	0.00	1.22	0.30	
1.01	1.31	0.06	4.47	0.519				
ME			2.52	0.00	0.00	0.63	1.21	
0.69	1.90	0.17	21.04	0.753				
MO1			2.52	0.00	0.00	1.31	0.00	
1.23	1.23	0.25	23.77	0.488				
MO2			2.52	0.00	0.00	0.41	1.76	
0.34	2.11	0.03	3.87	0.837				
MO3			2.52	0.00	0.00	0.59	1.47	
0.47	1.94	0.07	9.78	0.770				
MO4			2.52	0.00	0.00	0.44	1.72	
0.35	2.07	0.04	5.42	0.824				
MO5			2.52	0.00	0.00	1.02	0.99	
0.51	1.50	2.44	229.05	0.594				
MO6			2.52	0.00	0.00	1.23	0.00	
1.32	1.32	0.02	3.10	0.523				
MO7A			2.52	0.00	0.00	1.18	0.76	
0.58	1.34	2.39	216.27	0.533				
MO7B			2.52	0.00	0.00	1.05	0.85	
0.62	1.47	0.73	76.20	0.583				
MO8			2.52	0.00	0.00	0.61	1.45	
0.47	1.91	0.07	9.41	0.760				

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Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.02	1.38	7299.74	0 00:45	1.37
2	JUNCTION	0.03	1.59	7298.91	0 00:45	1.57
3	JUNCTION	0.03	1.56	7288.13	0 00:45	1.52
4	JUNCTION	0.02	1.35	7306.46	0 00:45	1.31
5	JUNCTION	0.02	1.51	7307.44	0 00:45	1.51
6	JUNCTION	0.00	0.75	7307.46	0 00:45	0.72
23	JUNCTION	0.18	4.81	7310.44	0 00:55	4.81
24	JUNCTION	0.08	1.20	7306.35	0 00:56	1.20
27	JUNCTION	0.01	0.95	7268.89	0 00:56	0.94
28	JUNCTION	0.05	2.51	7268.89	0 00:56	2.50
29	JUNCTION	0.05	2.24	7268.80	0 00:57	2.21
30	JUNCTION	0.33	3.11	7269.89	0 00:45	3.10
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00

33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.01	1.65	7269.89	0	00:45	1.64
36	JUNCTION	0.09	1.75	7272.05	0	00:51	1.73
37	JUNCTION	0.12	3.30	7270.08	0	00:52	3.16
38	JUNCTION	0.10	2.00	7265.03	0	00:57	1.98
39	JUNCTION	0.14	3.77	7262.81	0	00:57	3.69
40	JUNCTION	0.03	1.50	7278.26	0	00:45	1.45
41	JUNCTION	0.21	6.71	7291.11	0	00:54	6.70
42	JUNCTION	0.17	4.27	7287.90	0	00:54	4.26
43	JUNCTION	0.15	3.41	7285.23	0	00:54	3.41
44	JUNCTION	0.15	3.47	7279.96	0	00:55	3.47
45	JUNCTION	0.20	5.88	7273.82	0	00:45	5.81
46	JUNCTION	0.20	5.72	7269.71	0	00:45	5.51
47	JUNCTION	0.19	5.51	7268.48	0	00:45	5.00
48	JUNCTION	0.01	0.67	7301.40	0	00:45	0.67
49	JUNCTION	0.07	4.80	7275.30	0	00:44	4.76
54	JUNCTION	0.02	1.23	7300.80	0	00:45	1.23
55	JUNCTION	0.02	0.99	7310.57	0	00:45	0.98
56	JUNCTION	0.03	1.48	7311.76	0	00:45	1.48
59	JUNCTION	1.13	4.86	7271.02	0	00:45	4.76
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.16	2.51	7311.47	0	00:56	2.48
64	JUNCTION	0.09	1.69	7272.85	0	00:50	1.69
F18	JUNCTION	0.08	2.84	7275.54	0	00:45	2.83
F8	JUNCTION	0.01	0.41	7269.05	0	00:45	0.41
pnd_4_Outlet	JUNCTION	0.12	2.51	7262.84	0	00:57	2.43
POND_3FUT	JUNCTION	0.04	2.05	7270.77	0	00:53	2.02
POND_5_OUT	JUNCTION	0.03	0.90	7267.73	0	00:47	0.77
CNTY_LN_RD	JUNCTION	0.10	1.21	7255.72	0	00:58	1.21
SITE_OUTFALL	OUTFALL	0.11	1.21	7255.21	0	00:58	1.21
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.17	5.65	7262.63	0	00:58	5.63
POND_4B	STORAGE	1.59	5.42	7266.75	0	01:01	5.42
POND_4A	STORAGE	0.36	4.56	7268.82	0	00:57	4.54
POND_5	STORAGE	1.31	4.50	7273.83	0	00:47	4.43
POND_2	STORAGE	0.80	3.53	7276.86	0	00:50	3.53
POND_1B	STORAGE	1.18	5.13	7311.46	0	00:55	5.12
POND_1A	STORAGE	0.04	2.29	7318.29	0	00:46	2.06
BALD_MTN_DETENTION	STORAGE	0.09	1.76	7292.76	0	00:54	1.76
POND_3	STORAGE	0.05	2.53	7271.50	0	00:53	2.52

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	46.71	0 00:45	0	0.389	-0.000
2	JUNCTION	0.00	66.31	0 00:45	0	0.566	-0.002
3	JUNCTION	0.00	66.65	0 00:45	0	0.566	-0.001
4	JUNCTION	0.00	20.85	0 00:45	0	0.177	-0.000
5	JUNCTION	21.06	21.06	0 00:45	0.177	0.177	-0.001
6	JUNCTION	0.00	0.12	0 00:45	0	0.000242	0.226
23	JUNCTION	0.00	50.49	0 00:56	0	1.2	0.001
24	JUNCTION	0.00	50.49	0 00:56	0	1.2	-0.001
27	JUNCTION	0.00	0.31	0 00:45	0	0.00039	0.171
28	JUNCTION	40.21	40.21	0 00:45	0.363	0.364	0.249
29	JUNCTION	0.00	55.88	0 00:45	0	0.544	0.064
30	JUNCTION	55.82	55.84	0 00:45	0.544	0.545	0.034
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
35	JUNCTION	0.00	1.23	0 00:43	0	0.000222	0.306
36	JUNCTION	0.00	42.07	0 00:50	0	0.691	0.128
37	JUNCTION	0.00	66.40	0 00:50	0	1.16	-0.056

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  38                JUNCTION      0.00    62.29     0  00:52           0
1.16      -0.037
  39                JUNCTION      0.00    95.78     0  00:57           0
2.16       0.006
  40                JUNCTION      0.00    66.95     0  00:45           0
0.566       0.145
  41                JUNCTION      0.00   165.15     0  00:54           0
3.66       0.001
  42                JUNCTION      0.00   165.15     0  00:54           0
3.66       0.001
  43                JUNCTION      0.00   165.15     0  00:54           0
3.66       0.001
  44                JUNCTION      0.00   165.16     0  00:54           0
3.66      -0.142
  45                JUNCTION      0.00   416.32     0  00:45           0
6.79       0.036
  46                JUNCTION      0.00   422.36     0  00:45           0
6.78       0.000
  47                JUNCTION      0.00   426.69     0  00:45           0
6.78      -0.000
  48                JUNCTION      8.35     8.35     0  00:45      0.0649
0.0649      -0.000
  49                JUNCTION    292.46   292.46     0  00:45        3.12
3.12       0.021
  54                JUNCTION      8.29    38.51     0  00:45      0.0619
0.324      -0.000
  55                JUNCTION      0.00    30.49     0  00:45           0
0.262      -0.000
  56                JUNCTION     30.45    30.45     0  00:45       0.262
0.262      -0.001
  59                JUNCTION      0.00   421.12     0  00:45           0
6.79       0.000
  61                JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                JUNCTION      0.00     0.43     0  00:46           0
0.0038       0.032
  64                JUNCTION      0.00    42.05     0  00:50           0
0.691      -0.004
  F18               JUNCTION     21.04    21.04     0  00:45       0.165
0.165       0.047
  F8                JUNCTION      4.48     4.48     0  00:45      0.0319
0.0319       0.065
  pnd_4_Outlet      JUNCTION      0.00    35.72     0  01:01           0
0.998      -0.050
  POND_3FUT         JUNCTION      0.00    24.87     0  00:56           0
0.467      -0.003
  POND_5_OUT        JUNCTION      0.00    16.46     0  00:47           0
0.165      -0.006
```

CNTY_LN_RD	JUNCTION	0.00	403.49	0	00:58	0	9.44	0.002
SITE_OUTFALL	OUTFALL	0.00	403.49	0	00:58	0	9.44	0.000
RD_OVERTOP	OUTFALL	0.00	0.00	0	00:00	0	0	0.000 gal
EX-WETLAND	STORAGE	37.68	496.68	0	00:48	0.338	9.44	0.006
POND_4B	STORAGE	4.47	40.90	0	00:46	0.056	0.991	-0.585
POND_4A	STORAGE	0.00	96.01	0	00:45	0	0.906	0.350
POND_5	STORAGE	0.00	21.03	0	00:45	0	0.165	-0.130
POND_2	STORAGE	15.97	81.78	0	00:45	0.125	0.691	-0.141
POND_1B	STORAGE	68.27	129.90	0	00:45	0.539	1.2	0.001
POND_1A	STORAGE	74.30	74.30	0	00:45	0.659	0.659	-0.000
BALD_MTN_DETENTION	STORAGE	232.15	232.84	0	00:45	2.47	3.66	0.000
POND_3	STORAGE	48.68	48.68	0	00:45	0.467	0.467	0.000

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
28	JUNCTION	0.05	0.011	4.389
30	JUNCTION	0.08	0.356	3.404
42	JUNCTION	0.24	0.265	3.725
49	JUNCTION	0.03	0.301	3.699
F18	JUNCTION	0.11	1.338	0.832

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Node Flooding Summary
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No nodes were flooded.

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Storage Volume Summary
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Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	1.769	0.6	0.0	0.0	115.908	41.6	0 00:58	403.49
POND_4B	8.116	18.7	0.0	0.0	37.791	86.9	0 01:01	35.72
POND_4A	1.944	3.4	0.0	0.0	37.563	66.0	0 00:57	33.32
POND_5	1.907	19.3	0.0	0.0	9.016	91.4	0 00:47	16.46
POND_2	9.297	15.0	0.0	0.0	46.416	75.0	0 00:50	42.05
POND_1B	14.724	8.6	0.0	0.0	87.465	50.8	0 00:55	50.69
POND_1A	0.030	0.1	0.0	0.0	4.081	15.6	0 00:46	63.67
BALD_MTN_DETENTION	0.849	0.1	0.0	0.0	52.870	4.0	0 00:54	165.15
POND_3	0.252	0.5	0.0	0.0	16.929	36.7	0 00:53	24.87

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	79.10	10.54	403.49	9.444
RD_OVERTOP	0.00	0.00	0.00	0.000
System	39.55	10.54	403.49	9.444

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Link Flow Summary
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Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	63.67	0	00:47	14.48	1.03	0.96
29	CONDUIT	427.37	0	00:45	14.30	1.03	0.84
51	CONDUIT	30.49	0	00:45	10.16	0.65	0.59
L8	CONDUIT	4.47	0	00:45	7.81	0.16	0.64
54	CONDUIT	16.46	0	00:47	14.97	0.67	0.60
BLD_MTN_OF	CONDUIT	165.15	0	00:54	40.15	0.60	0.71
C1	CONDUIT	20.32	0	00:45	9.05	0.80	0.67
EX_MISTY_AC_BLVD_PIPE	CONDUIT	50.49	0	00:56	15.94	0.20	0.30
L1	CONDUIT	95.94	0	00:57	11.15	0.48	0.97
L10	CONDUIT	40.02	0	00:45	10.29	0.90	1.00
L11	CONDUIT	0.33	0	00:45	0.29	0.01	0.74
L12	CONDUIT	56.03	0	00:45	12.29	0.70	0.85
L13	CONDUIT	55.88	0	00:45	11.49	1.31	0.97
L14	CONDUIT	1.23	0	00:43	0.30	0.01	0.83
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.50
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	35.77	0	01:01	8.67	0.60	0.88
L20	CONDUIT	21.03	0	00:45	11.90	1.07	1.00
L22	CONDUIT	426.69	0	00:45	14.11	1.15	0.86
L23	CONDUIT	422.36	0	00:45	16.48	0.47	0.74
L24	CONDUIT	421.12	0	00:45	13.87	1.14	0.87
L25	CONDUIT	292.68	0	00:45	18.40	1.18	1.00
L26	CONDUIT	165.15	0	00:55	14.49	1.04	0.90
L27	CONDUIT	165.16	0	00:54	14.76	1.02	0.89
L28	CONDUIT	165.15	0	00:54	13.31	1.17	0.96
L29	CONDUIT	165.15	0	00:54	23.36	2.49	1.00
L3	CONDUIT	62.25	0	00:52	12.67	0.75	0.80
L30	CONDUIT	67.08	0	00:45	16.99	0.38	0.47
L31	CONDUIT	66.95	0	00:45	16.33	0.41	0.44
L32	CONDUIT	20.85	0	00:45	8.23	0.92	0.75
L33	CONDUIT	0.25	0	00:45	0.22	0.01	0.50
L34	CONDUIT	46.81	0	00:45	14.87	0.43	0.46
L35	CONDUIT	8.36	0	00:45	11.09	0.41	0.44
L36	CONDUIT	38.55	0	00:45	14.19	0.35	0.41
L38	CONDUIT	30.44	0	00:45	16.89	0.33	0.40
L4	CONDUIT	62.29	0	00:52	9.31	1.12	0.92
L44	CONDUIT	50.49	0	00:56	16.07	3.17	1.00
L45	CONDUIT	0.43	0	00:46	0.42	0.01	1.00

L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.24
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	24.88	0	00:56	14.08	1.43	1.00
L53	CONDUIT	66.65	0	00:45	15.82	0.42	0.45
L6	CONDUIT	41.91	0	00:50	9.71	0.63	0.67
L7	CONDUIT	42.07	0	00:50	10.27	0.61	0.56
L9	CONDUIT	33.32	0	00:56	6.95	1.13	1.00
58	CONDUIT	403.49	0	00:58	18.43	0.00	0.12
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:47			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:47			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:47			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:47			1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:33			1.00
PND_4B_OF_2	ORIFICE	0.09	0	01:01			1.00
PND_4B_OF_3	ORIFICE	0.08	0	01:01			1.00
PND_4B_OF_4	ORIFICE	0.07	0	01:01			1.00
PND_4B_OF_5	ORIFICE	0.06	0	01:01			1.00
PND_4B_GRATE	ORIFICE	35.26	0	01:01			
PND_5_GRATE	ORIFICE	16.38	0	00:47			
PND_2_OF_1	ORIFICE	0.24	0	00:50			1.00
PND_2_OF_2	ORIFICE	0.09	0	00:50			1.00
PND_2_OF_3	ORIFICE	0.07	0	00:50			1.00
PND_2_GRATE	ORIFICE	41.66	0	00:50			
PND_1_OF_1	ORIFICE	0.07	0	00:46			1.00
PND_1_OF_2	ORIFICE	0.07	0	01:31			1.00
PND_1_OF_3	ORIFICE	0.07	0	01:31			1.00
PND_1_OF_4	ORIFICE	0.07	0	01:23			1.00
PND_1_OF_5	ORIFICE	0.07	0	01:23			1.00
PND_1_OF_6	ORIFICE	0.10	0	01:18			1.00
PND_1_OF_7	ORIFICE	0.10	0	01:18			1.00
PND_1_OF_8	ORIFICE	0.16	0	00:48			1.00
PND_1_OF_9	ORIFICE	0.16	0	00:48			1.00
PND_1_OF_10	ORIFICE	0.22	0	01:04			1.00
PND_1_OF_11	ORIFICE	0.22	0	01:04			1.00
PND_1_GRATE	ORIFICE	49.58	0	00:56			
PND_3_OF_1	ORIFICE	0.06	0	00:56			1.00
PND_3_OF_2	ORIFICE	0.03	0	00:56			1.00
PND_3_OF_3	ORIFICE	0.02	0	00:53			1.00
PND3_GRATE	ORIFICE	24.76	0	00:56			
CNTY_LN_RD_CULV_1_EX	ORIFICE	125.25	0	00:58			1.00
CNTY_LN_RD_CULV_2	ORIFICE	125.25	0	00:58			1.00
CNTY_LN_RD_CULV_3	ORIFICE	152.99	0	00:58			1.00
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.17	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L8	1.00	0.00	0.08	0.00	0.02	0.00	0.00	0.89	1.00	0.00
54	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.22	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00
L1	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.02	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L12	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
L13	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
L14	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00

L20	1.00	0.00	0.03	0.00	0.06	0.00	0.00	0.91	0.08
0.00									
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L23	1.00	0.00	0.10	0.00	0.76	0.14	0.00	0.00	1.00
0.00									
L24	1.00	0.00	0.67	0.00	0.32	0.00	0.00	0.00	1.00
0.00									
L25	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00
0.00									
L26	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00
0.00									
L27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L30	1.00	0.18	0.00	0.00	0.06	0.00	0.00	0.76	0.06
0.00									
L31	1.00	0.35	0.00	0.00	0.00	0.00	0.00	0.65	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.30	0.00	0.00	0.00	0.00	0.00	0.70	0.00
0.00									
L38	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.04	0.00	0.00	0.00	0.96
0.00									
L46	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									

L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.06
0.00									
58	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99
0.00									

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
26	0.01	0.01	0.06	0.06	0.01
29	0.01	0.01	0.01	0.02	0.01
L8	0.01	0.01	18.10	0.01	0.01
L1	0.01	0.01	0.34	0.01	0.01
L10	0.05	0.05	0.44	0.01	0.01
L11	0.01	0.01	0.05	0.01	0.01
L13	0.01	0.01	0.10	0.09	0.01
L14	0.01	0.01	0.08	0.01	0.01
L20	0.11	0.11	11.42	0.02	0.02
L22	0.01	0.01	0.01	0.07	0.01
L24	0.01	0.01	0.01	0.08	0.01
L25	0.03	0.03	0.04	0.06	0.03
L26	0.01	0.01	0.01	0.21	0.01
L27	0.01	0.01	0.01	0.16	0.01
L28	0.01	0.24	0.01	0.35	0.01
L29	0.54	0.61	0.54	0.67	0.54
L4	0.01	0.10	0.01	0.17	0.01
L44	0.34	0.48	0.34	0.57	0.34
L45	0.02	0.02	0.41	0.01	0.01
L5	0.39	0.39	0.45	0.46	0.39
L9	0.80	0.81	12.71	0.48	0.44

Analysis begun on: Sat May 9 20:25:16 2026
Analysis ended on: Sat May 9 20:25:23 2026
Total elapsed time: 00:00:07

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - Q25

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	42.207	2.238
Evaporation Loss	0.000	0.000
Infiltration Loss	17.911	0.950
Surface Runoff	24.300	1.288
Final Storage	0.268	0.014
Continuity Error (%)	-0.644	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	24.299	7.918
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	24.298	7.918
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.029	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (70.77%)
Link 58 (24.05%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.31 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	15.54 %
9.564 - 4.573 sec	:	10.56 %
4.573 - 2.187 sec	:	20.86 %
2.187 - 1.046 sec	:	43.91 %
1.046 - 0.500 sec	:	9.13 %

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Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	2.24	0.00	0.00	0.66	1.22	0.36	1.58	0.28	33.22	0.707
A2F	2.24	0.00	0.00	0.98	0.62	0.67	1.29	0.01	1.76	0.577
A3F	2.24	0.00	0.00	0.89	0.80	0.57	1.36	0.04	6.39	0.609
A4F	2.24	0.00	0.00	0.52	1.42	0.30	1.72	0.26	31.22	0.766
A5F	2.24	0.00	0.00	0.68	1.14	0.42	1.56	0.09	12.46	0.698
B1F	2.24	0.00	0.00	0.58	1.34	0.32	1.66	0.23	26.03	0.741
B2F	2.24	0.00	0.00	0.74	1.03	0.49	1.51	0.01	1.85	0.675
B3F	2.24	0.00	0.00	0.32	1.69	0.22	1.91	0.02	2.42	0.855
B4F	2.24	0.00	0.00	0.40	1.56	0.27	1.84	0.02	2.96	0.820
B5F	2.24	0.00	0.00	0.35	1.65	0.23	1.88	0.06	7.32	0.842
B6F	2.24	0.00	0.00	0.57	1.35	0.32	1.67	0.15	18.01	0.745
B7F	2.24	0.00	0.00	0.53	1.37	0.34	1.71	0.03	4.58	0.765
B8F	2.24	0.00	0.00	0.40	1.56	0.28	1.84	0.01	1.33	0.820
B9F	2.24	0.00	0.00	0.16	1.90	0.17	2.06	0.07	8.12	0.922
C1F	2.24	0.00	0.00	0.72	0.98	0.54	1.52	0.40	41.27	0.679
D1F	2.24	0.00	0.00	0.70	0.98	0.56	1.54	0.31	34.11	0.689
D2F	2.24	0.00	0.00	0.58	1.08	0.58	1.67	0.03	3.92	0.745
JJ	2.24	0.00	0.00	1.05	0.36					

0.84	1.20	0.22	23.00	0.535				
MD2			2.24	0.00	0.00	0.84	1.02	
0.37	1.40	0.46	47.25	0.624				
MD5			2.24	0.00	0.00	1.19	0.27	
0.79	1.06	0.05	3.59	0.473				
ME			2.24	0.00	0.00	0.61	1.07	
0.56	1.63	0.14	18.05	0.730				
MO1			2.24	0.00	0.00	1.27	0.00	
0.98	0.98	0.20	18.45	0.439				
MO2			2.24	0.00	0.00	0.40	1.56	
0.28	1.84	0.03	3.40	0.823				
MO3			2.24	0.00	0.00	0.57	1.31	
0.37	1.68	0.06	8.46	0.749				
MO4			2.24	0.00	0.00	0.43	1.53	
0.28	1.81	0.04	4.72	0.807				
MO5			2.24	0.00	0.00	0.99	0.87	
0.38	1.25	2.04	193.63	0.559				
MO6			2.24	0.00	0.00	1.19	0.00	
1.07	1.07	0.02	2.51	0.479				
MO7A			2.24	0.00	0.00	1.14	0.67	
0.43	1.10	1.96	180.90	0.492				
MO7B			2.24	0.00	0.00	1.02	0.75	
0.47	1.22	0.61	63.37	0.546				
MO8			2.24	0.00	0.00	0.59	1.29	
0.37	1.65	0.06	8.08	0.738				

****
Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.02	1.27	7299.63	0 00:45	1.26
2	JUNCTION	0.03	1.46	7298.78	0 00:45	1.44
3	JUNCTION	0.03	1.43	7288.00	0 00:45	1.39
4	JUNCTION	0.02	1.21	7306.32	0 00:45	1.18
5	JUNCTION	0.02	1.34	7307.27	0 00:45	1.34
6	JUNCTION	0.00	0.57	7307.28	0 00:45	0.56
23	JUNCTION	0.16	3.84	7309.47	0 00:56	3.78
24	JUNCTION	0.08	1.09	7306.24	0 00:56	1.08
27	JUNCTION	0.00	0.27	7268.21	0 00:57	0.24
28	JUNCTION	0.04	1.82	7268.20	0 00:57	1.79
29	JUNCTION	0.04	1.71	7268.27	0 00:44	1.65
30	JUNCTION	0.32	2.94	7269.72	0 00:44	2.91
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00

33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	1.49	7269.73	0	00:44	1.46
36	JUNCTION	0.09	1.43	7271.73	0	00:52	1.38
37	JUNCTION	0.12	2.30	7269.08	0	00:53	2.25
38	JUNCTION	0.09	1.73	7264.76	0	00:53	1.71
39	JUNCTION	0.12	2.54	7261.58	0	00:56	2.53
40	JUNCTION	0.03	1.38	7278.14	0	00:45	1.34
41	JUNCTION	0.18	5.09	7289.49	0	00:51	5.08
42	JUNCTION	0.15	3.46	7287.09	0	00:50	3.46
43	JUNCTION	0.14	2.92	7284.74	0	00:50	2.90
44	JUNCTION	0.14	2.97	7279.46	0	00:51	2.95
45	JUNCTION	0.18	5.10	7273.04	0	00:45	4.96
46	JUNCTION	0.19	5.09	7269.08	0	00:46	4.80
47	JUNCTION	0.17	4.66	7267.63	0	00:46	4.36
48	JUNCTION	0.01	0.62	7301.35	0	00:45	0.62
49	JUNCTION	0.06	3.65	7274.15	0	00:45	3.65
54	JUNCTION	0.02	1.13	7300.70	0	00:45	1.13
55	JUNCTION	0.02	0.91	7310.49	0	00:45	0.90
56	JUNCTION	0.02	1.34	7311.62	0	00:45	1.34
59	JUNCTION	1.12	4.33	7270.49	0	00:45	4.18
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.15	2.19	7311.15	0	00:56	2.18
64	JUNCTION	0.09	1.40	7272.56	0	00:52	1.36
F18	JUNCTION	0.08	2.31	7275.01	0	00:44	2.11
F8	JUNCTION	0.01	0.38	7269.02	0	00:45	0.38
pnd_4_Outlet	JUNCTION	0.10	1.52	7261.85	0	01:01	1.51
POND_3FUT	JUNCTION	0.04	1.73	7270.45	0	00:52	1.71
POND_5_OUT	JUNCTION	0.03	0.75	7267.58	0	00:48	0.70
CNTY_LN_RD	JUNCTION	0.10	1.15	7255.66	0	00:56	1.15
SITE_OUTFALL	OUTFALL	0.10	1.15	7255.15	0	00:56	1.15
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.15	4.79	7261.77	0	00:56	4.78
POND_4B	STORAGE	1.58	5.34	7266.67	0	01:01	5.34
POND_4A	STORAGE	0.34	3.95	7268.21	0	00:57	3.92
POND_5	STORAGE	1.31	4.41	7273.74	0	00:48	4.38
POND_2	STORAGE	0.80	3.35	7276.68	0	00:52	3.32
POND_1B	STORAGE	1.18	4.80	7311.13	0	00:56	4.80
POND_1A	STORAGE	0.03	1.88	7317.88	0	00:46	1.80
BALD_MTN_DETENTION	STORAGE	0.08	1.54	7292.54	0	00:52	1.53
POND_3	STORAGE	0.04	2.18	7271.15	0	00:52	2.15

****
Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	40.24	0 00:45	0	0.337	-0.000
2	JUNCTION	0.00	57.02	0 00:45	0	0.49	-0.002
3	JUNCTION	0.00	57.30	0 00:45	0	0.49	-0.001
4	JUNCTION	0.00	17.87	0 00:45	0	0.153	-0.002
5	JUNCTION	18.01	18.01	0 00:45	0.153	0.153	-0.001
6	JUNCTION	0.00	0.09	0 00:40	0	0.000174	0.280
23	JUNCTION	0.00	41.85	0 00:56	0	1.02	0.001
24	JUNCTION	0.00	41.86	0 00:56	0	1.02	-0.001
27	JUNCTION	0.00	0.11	0 00:44	0	0.000114	0.526
28	JUNCTION	34.11	34.11	0 00:45	0.311	0.311	0.236
29	JUNCTION	0.00	47.49	0 00:45	0	0.461	0.090
30	JUNCTION	47.25	47.37	0 00:45	0.461	0.461	0.006
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
35	JUNCTION	0.00	0.75	0 00:44	0	0.000155	0.151
36	JUNCTION	0.00	30.71	0 00:52	0	0.6	-0.014
37	JUNCTION	0.00	52.19	0 00:52	0	0.999	0.006

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  38                JUNCTION      0.00    52.15     0  00:53           0
0.999      -0.069
  39                JUNCTION      0.00    77.16     0  00:56           0
1.85       0.029
  40                JUNCTION      0.00    57.54     0  00:45           0
0.49       0.141
  41                JUNCTION      0.00   142.98     0  00:52           0
3.08       0.001
  42                JUNCTION      0.00   142.98     0  00:52           0
3.08       0.000
  43                JUNCTION      0.00   142.99     0  00:52           0
3.08      -0.000
  44                JUNCTION      0.00   142.99     0  00:52           0
3.08      -0.058
  45                JUNCTION      0.00   354.72     0  00:45           0
5.65       0.018
  46                JUNCTION      0.00   354.92     0  00:46           0
5.65      -0.000
  47                JUNCTION      0.00   356.44     0  00:46           0
5.65      -0.000
  48                JUNCTION      7.32     7.32     0  00:45      0.0568
0.0568      -0.001
  49                JUNCTION    244.27   244.27     0  00:45        2.57
2.57      -0.000
  54                JUNCTION      7.24    33.05     0  00:45      0.0539
0.28      -0.000
  55                JUNCTION      0.00    26.06     0  00:45           0
0.226      -0.000
  56                JUNCTION     26.03    26.03     0  00:45       0.226
0.226      -0.001
  59                JUNCTION      0.00   354.39     0  00:46           0
5.65       0.000
  61                JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                JUNCTION      0.00     0.36     0  00:47           0
0.00353       0.032
  64                JUNCTION      0.00    30.70     0  00:52           0
0.6       -0.005
  F18               JUNCTION     18.05    18.05     0  00:45       0.142
0.142       0.060
  F8                JUNCTION      3.92     3.92     0  00:45      0.0276
0.0276       0.090
  pnd_4_Outlet      JUNCTION      0.00    30.30     0  01:01           0
0.846      -0.053
  POND_3FUT         JUNCTION      0.00    21.47     0  00:52           0
0.399      -0.004
  POND_5_OUT        JUNCTION      0.00    12.43     0  00:48           0
0.142      -0.007
```

```
  CNTY_LN_RD           JUNCTION      0.00    351.46      0  00:56           0
7.92       0.002
  SITE_OUTFALL         OUTFALL       0.00    351.46      0  00:56           0
7.92       0.000
  RD_OVERTOP           OUTFALL       0.00      0.00      0  00:00           0
 0       0.000 gal
  EX-WETLAND           STORAGE      31.08    410.29      0  00:46       0.282
7.92       0.008
  POND_4B              STORAGE       3.59     40.49      0  00:44      0.0454
0.84      -0.693
  POND_4A              STORAGE       0.00     81.71      0  00:45           0
0.771       0.491
  POND_5               STORAGE       0.00     18.05      0  00:45           0
0.142      -0.164
  POND_2               STORAGE      14.03     70.54      0  00:45        0.11
0.599      -0.142
  POND_1B              STORAGE      58.63    111.47      0  00:45       0.466
1.02       0.000
  POND_1A              STORAGE      61.46     61.46      0  00:45       0.551
0.551      -0.000
  BALD_MTN_DETENTION   STORAGE     196.14    196.74      0  00:45        2.06
3.08       0.000
  POND_3               STORAGE      41.27     41.27      0  00:45       0.399
0.399       0.000


  **********************
  Node Surcharge Summary
  **********************

  Surcharging occurs when water rises above the top of the highest conduit.
  -------------------------------------------------------------------------
                                                 Max. Height   Min. Depth
                                   Hours       Above Crown     Below Rim
  Node                 Type      Surcharged          Feet          Feet
  -------------------------------------------------------------------------
  30                   JUNCTION        0.03         0.194         3.566
  F18                  JUNCTION        0.08         0.808         1.362


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************
```

Is this height from top of pipe or road crown? If it's road crown does it meet overtopping criteria from DCM Table 6-4?

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	1.249	0.4	0.0	0.0	80.682	28.9	0 00:56	351.46
POND_4B	8.049	18.5	0.0	0.0	36.722	84.4	0 01:01	30.30
POND_4A	1.798	3.2	0.0	0.0	29.736	52.2	0 00:57	33.24
POND_5	1.897	19.2	0.0	0.0	8.690	88.1	0 00:48	12.43
POND_2	9.235	14.9	0.0	0.0	43.477	70.3	0 00:52	30.70
POND_1B	14.566	8.5	0.0	0.0	79.517	46.2	0 00:56	42.03
POND_1A	0.023	0.1	0.0	0.0	2.804	10.7	0 00:46	56.65
BALD_MTN_DETENTION	0.640	0.0	0.0	0.0	35.510	2.7	0 00:52	142.98
POND_3	0.201	0.4	0.0	0.0	13.596	29.5	0 00:52	21.47

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	79.05	8.71	351.46	7.917
RD_OVERTOP	0.00	0.00	0.00	0.000
System	39.53	8.71	351.46	7.917

****
Link Flow Summary

****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	56.65	0	00:46	14.32	0.91	0.75
29	CONDUIT	356.54	0	00:46	14.01	0.86	0.72
51	CONDUIT	26.06	0	00:45	9.79	0.56	0.54
L8	CONDUIT	3.91	0	00:45	8.10	0.14	0.63
54	CONDUIT	12.43	0	00:48	14.01	0.50	0.50
BLD_MTN_OF	CONDUIT	142.98	0	00:52	39.38	0.52	0.51
C1	CONDUIT	17.37	0	00:45	8.76	0.68	0.61
EX_MISTY_AC_BLVD_PIPE	CONDUIT	41.86	0	00:56	15.11	0.16	0.27
L1	CONDUIT	77.17	0	00:56	11.02	0.38	0.80
L10	CONDUIT	34.02	0	00:45	10.03	0.76	0.86
L11	CONDUIT	0.12	0	00:45	0.15	0.00	0.40
L12	CONDUIT	47.69	0	00:45	11.89	0.60	0.62
L13	CONDUIT	47.49	0	00:45	9.85	1.12	0.95
L14	CONDUIT	0.75	0	00:44	0.18	0.00	0.80
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.50
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	30.30	0	01:01	8.46	0.51	0.51
L20	CONDUIT	18.05	0	00:45	10.21	0.92	1.00
L22	CONDUIT	356.44	0	00:46	12.87	0.96	0.78
L23	CONDUIT	354.92	0	00:46	15.75	0.40	0.65
L24	CONDUIT	354.39	0	00:46	12.83	0.96	0.78
L25	CONDUIT	244.51	0	00:45	17.84	0.99	0.81
L26	CONDUIT	143.01	0	00:51	14.32	0.90	0.74
L27	CONDUIT	142.99	0	00:52	14.55	0.88	0.73
L28	CONDUIT	142.99	0	00:52	12.81	1.02	0.87
L29	CONDUIT	142.98	0	00:52	20.23	2.15	1.00
L3	CONDUIT	52.16	0	00:53	12.37	0.63	0.58
L30	CONDUIT	57.68	0	00:45	16.48	0.33	0.41
L31	CONDUIT	57.54	0	00:45	15.68	0.35	0.41
L32	CONDUIT	17.87	0	00:45	8.04	0.79	0.67
L33	CONDUIT	0.21	0	00:45	0.22	0.01	0.41
L34	CONDUIT	40.32	0	00:45	14.28	0.37	0.42
L35	CONDUIT	7.32	0	00:45	10.71	0.35	0.41
L36	CONDUIT	33.09	0	00:45	13.61	0.30	0.38
L38	CONDUIT	26.01	0	00:45	16.18	0.28	0.36
L4	CONDUIT	52.15	0	00:53	8.98	0.93	0.77
L44	CONDUIT	41.86	0	00:56	13.32	2.63	1.00
L45	CONDUIT	0.36	0	00:47	0.43	0.01	0.94
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.17
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	21.47	0	00:52	12.15	1.23	1.00

L53	CONDUIT	57.30	0	00:45	15.19	0.36	0.42
L6	CONDUIT	30.73	0	00:52	9.25	0.46	0.48
L7	CONDUIT	30.71	0	00:52	9.50	0.44	0.47
L9	CONDUIT	33.24	0	00:44	7.09	1.12	1.00
58	CONDUIT	351.46	0	00:56	17.80	0.00	0.11
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:48			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:48			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:48			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:48			1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:27			1.00
PND_4B_OF_2	ORIFICE	0.09	0	01:01			1.00
PND_4B_OF_3	ORIFICE	0.08	0	01:01			1.00
PND_4B_OF_4	ORIFICE	0.07	0	01:01			1.00
PND_4B_OF_5	ORIFICE	0.06	0	01:01			1.00
PND_4B_GRATE	ORIFICE	29.83	0	01:01			
PND_5_GRATE	ORIFICE	12.35	0	00:48			
PND_2_OF_1	ORIFICE	0.23	0	00:52			1.00
PND_2_OF_2	ORIFICE	0.09	0	00:52			1.00
PND_2_OF_3	ORIFICE	0.07	0	00:52			1.00
PND_2_GRATE	ORIFICE	30.32	0	00:52			
PND_1_OF_1	ORIFICE	0.07	0	00:47			1.00
PND_1_OF_2	ORIFICE	0.07	0	01:28			1.00
PND_1_OF_3	ORIFICE	0.07	0	01:28			1.00
PND_1_OF_4	ORIFICE	0.07	0	01:20			1.00
PND_1_OF_5	ORIFICE	0.07	0	01:20			1.00
PND_1_OF_6	ORIFICE	0.10	0	01:15			1.00
PND_1_OF_7	ORIFICE	0.10	0	01:15			1.00
PND_1_OF_8	ORIFICE	0.16	0	01:02			1.00
PND_1_OF_9	ORIFICE	0.16	0	01:02			1.00
PND_1_OF_10	ORIFICE	0.22	0	00:56			1.00
PND_1_OF_11	ORIFICE	0.22	0	00:56			1.00
PND_1_GRATE	ORIFICE	40.76	0	00:56			
PND_3_OF_1	ORIFICE	0.05	0	00:52			1.00
PND_3_OF_2	ORIFICE	0.03	0	00:52			1.00
PND_3_OF_3	ORIFICE	0.01	0	00:52			1.00
PND3_GRATE	ORIFICE	21.37	0	00:52			
CNTY_LN_RD_CULV_1_EX	ORIFICE	109.57	0	00:56			1.00
CNTY_LN_RD_CULV_2	ORIFICE	109.57	0	00:56			1.00
CNTY_LN_RD_CULV_3	ORIFICE	132.32	0	00:56			1.00
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

-

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.19	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00
51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L8	1.00	0.00	0.08	0.00	0.02	0.00	0.00	0.89	1.00	0.00
54	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.28	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00
L1	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.02	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L12	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
L13	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
L14	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L20	1.00	0.00	0.03	0.00	0.06	0.00	0.00	0.91	0.08	0.00
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00

0.00									
L23	1.00	0.00	0.16	0.00	0.70	0.14	0.00	0.00	1.00
0.00									
L24	1.00	0.00	0.67	0.00	0.32	0.00	0.00	0.00	1.00
0.00									
L25	1.00	0.10	0.00	0.00	0.00	0.00	0.00	0.90	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L30	1.00	0.06	0.00	0.00	0.06	0.00	0.00	0.88	0.06
0.00									
L31	1.00	0.13	0.00	0.00	0.00	0.00	0.00	0.87	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.31	0.00	0.00	0.00	0.00	0.00	0.69	0.00
0.00									
L38	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.04	0.00	0.00	0.00	0.96
0.00									
L46	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00

```
0.00
  L9                     1.00   0.00  0.00  0.00  0.13  0.00  0.00  0.87  0.06
0.00
  58                     1.00   0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.99
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
L8	0.01	0.01	18.04	0.01	0.01
L10	0.01	0.01	0.15	0.01	0.01
L13	0.01	0.01	0.06	0.04	0.01
L14	0.01	0.01	0.03	0.01	0.01
L20	0.08	0.08	11.39	0.01	0.01
L28	0.01	0.01	0.01	0.12	0.01
L29	0.42	0.51	0.42	0.58	0.42
L44	0.18	0.39	0.18	0.49	0.18
L45	0.01	0.01	0.29	0.01	0.01
L5	0.27	0.27	0.34	0.35	0.27
L9	0.68	0.69	12.66	0.16	0.12

Analysis begun on: Sat May 9 20:26:11 2026
Analysis ended on: Sat May 9 20:26:18 2026
Total elapsed time: 00:00:07

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - Q10

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

```
****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 04/16/2026 00:00:00
Ending Date .............. 04/30/2026 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 01:00:00
Routing Time Step ........ 20.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 1
Head Tolerance ........... 0.005000 ft
```

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	36.926	1.958
Evaporation Loss	0.000	0.000
Infiltration Loss	17.108	0.907
Surface Runoff	19.773	1.048
Final Storage	0.268	0.014
Continuity Error (%)	-0.604	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	19.773	6.443
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	19.770	6.442
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.029	

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (70.73%)
Link 58 (24.04%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.32 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	15.54 %
9.564 - 4.573 sec	:	10.58 %
4.573 - 2.187 sec	:	20.89 %
2.187 - 1.046 sec	:	43.99 %
1.046 - 0.500 sec	:	9.00 %

****

Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	1.96	0.00	0.00	0.63	1.06	0.26	1.33	0.24	27.55	0.677
A2F	1.96	0.00	0.00	0.94	0.54	0.50	1.04	0.01	1.46	0.533
A3F	1.96	0.00	0.00	0.86	0.69	0.42	1.11	0.04	5.18	0.569
A4F	1.96	0.00	0.00	0.50	1.24	0.22	1.45	0.22	26.15	0.742
A5F	1.96	0.00	0.00	0.65	0.99	0.31	1.30	0.08	10.30	0.666
B1F	1.96	0.00	0.00	0.55	1.17	0.23	1.40	0.19	21.73	0.715
B2F	1.96	0.00	0.00	0.71	0.90	0.36	1.26	0.01	1.54	0.642
B3F	1.96	0.00	0.00	0.31	1.48	0.16	1.64	0.02	2.09	0.839
B4F	1.96	0.00	0.00	0.38	1.37	0.20	1.57	0.02	2.53	0.801
B5F	1.96	0.00	0.00	0.33	1.44	0.17	1.61	0.05	6.27	0.825
B6F	1.96	0.00	0.00	0.55	1.18	0.23	1.41	0.13	15.03	0.718
B7F	1.96	0.00	0.00	0.51	1.20	0.25	1.45	0.03	3.86	0.740
B8F	1.96	0.00	0.00	0.39	1.36	0.21	1.57	0.01	1.14	0.800
B9F	1.96	0.00	0.00	0.15	1.66	0.13	1.79	0.06	7.08	0.915
C1F	1.96	0.00	0.00	0.69	0.85	0.41	1.27	0.33	34.19	0.646
D1F	1.96	0.00	0.00	0.67	0.86	0.43	1.29	0.26	28.23	0.657
D2F	1.96	0.00	0.00	0.55	0.95	0.47	1.41	0.02	3.34	0.721
JJ	1.96	0.00	0.00	1.01	0.31					

```
0.64       0.95       0.18    18.05   0.488
  MD2                        1.96       0.00       0.00       0.80       0.89
0.26       1.15       0.38    39.12   0.587
  MD5                        1.96       0.00       0.00       1.14       0.23
0.59       0.82       0.04     2.79   0.420
  ME                         1.96       0.00       0.00       0.58       0.94
0.44       1.38       0.12    15.08   0.702
  MO1                        1.96       0.00       0.00       1.22       0.00
0.75       0.75       0.15    13.57   0.383
  MO2                        1.96       0.00       0.00       0.38       1.37
0.21       1.57       0.02     2.93   0.803
  MO3                        1.96       0.00       0.00       0.54       1.14
0.28       1.42       0.05     7.12   0.723
  MO4                        1.96       0.00       0.00       0.41       1.33
0.21       1.54       0.03     4.00   0.787
  MO5                        1.96       0.00       0.00       0.94       0.76
0.25       1.01       1.66   160.27   0.518
  MO6                        1.96       0.00       0.00       1.14       0.00
0.84       0.84       0.01     1.93   0.427
  MO7A                       1.96       0.00       0.00       1.08       0.59
0.29       0.87       1.56   148.03   0.446
  MO7B                       1.96       0.00       0.00       0.97       0.66
0.33       0.98       0.49    51.38   0.502
  MO8                        1.96       0.00       0.00       0.56       1.12
0.27       1.39       0.05     6.74   0.711


  ******************
  Node Depth Summary
  ******************

  ----------------------------------------------------------------------------------
                                Average  Maximum  Maximum  Time of Max    Reported
                                  Depth    Depth      HGL   Occurrence   Max Depth
  Node                  Type       Feet     Feet     Feet  days hr:min        Feet
  ----------------------------------------------------------------------------------
  1                     JUNCTION   0.02     1.15  7299.51     0  00:45        1.15
  2                     JUNCTION   0.02     1.33  7298.65     0  00:45        1.31
  3                     JUNCTION   0.02     1.30  7287.87     0  00:45        1.27
  4                     JUNCTION   0.02     1.08  7306.19     0  00:45        1.05
  5                     JUNCTION   0.02     1.19  7307.12     0  00:45        1.18
  6                     JUNCTION   0.00     0.42  7307.13     0  00:45        0.40
  23                    JUNCTION   0.15     2.33  7307.96     0  00:59        2.32
  24                    JUNCTION   0.07     0.86  7306.01     0  00:59        0.86
  27                    JUNCTION   0.00     0.00  7267.94     0  00:00        0.00
  28                    JUNCTION   0.03     1.45  7267.83     0  00:45        1.45
  29                    JUNCTION   0.03     1.48  7268.04     0  00:45        1.46
  30                    JUNCTION   0.32     2.40  7269.18     0  00:45        2.37
  31                    JUNCTION   0.00     0.00  7272.09     0  00:00        0.00
  32                    JUNCTION   0.00     0.00  7277.02     0  00:00        0.00
```

33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	0.94	7269.18	0	00:45	0.91
36	JUNCTION	0.08	1.15	7271.45	0	00:54	1.15
37	JUNCTION	0.11	1.83	7268.61	0	00:55	1.82
38	JUNCTION	0.09	1.44	7264.47	0	00:56	1.43
39	JUNCTION	0.11	1.94	7260.98	0	00:59	1.94
40	JUNCTION	0.02	1.25	7278.01	0	00:45	1.22
41	JUNCTION	0.16	4.21	7288.61	0	00:48	4.14
42	JUNCTION	0.14	2.86	7286.49	0	00:48	2.82
43	JUNCTION	0.13	2.58	7284.40	0	00:48	2.56
44	JUNCTION	0.13	2.62	7279.11	0	00:49	2.61
45	JUNCTION	0.17	4.43	7272.37	0	00:45	4.36
46	JUNCTION	0.17	4.42	7268.41	0	00:45	4.22
47	JUNCTION	0.16	4.09	7267.06	0	00:45	3.87
48	JUNCTION	0.01	0.57	7301.30	0	00:45	0.57
49	JUNCTION	0.06	3.08	7273.58	0	00:45	3.07
54	JUNCTION	0.02	1.03	7300.60	0	00:45	1.03
55	JUNCTION	0.02	0.83	7310.41	0	00:45	0.82
56	JUNCTION	0.02	1.21	7311.49	0	00:45	1.21
59	JUNCTION	1.11	3.86	7270.02	0	00:45	3.79
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.15	1.94	7310.90	0	00:59	1.94
64	JUNCTION	0.08	1.13	7272.29	0	00:54	1.12
F18	JUNCTION	0.07	1.27	7273.97	0	00:46	1.22
F8	JUNCTION	0.01	0.35	7268.99	0	00:45	0.35
pnd_4_Outlet	JUNCTION	0.10	1.32	7261.65	0	01:02	1.31
POND_3FUT	JUNCTION	0.03	1.49	7270.21	0	00:52	1.47
POND_5_OUT	JUNCTION	0.03	0.60	7267.43	0	00:49	0.60
CNTY_LN_RD	JUNCTION	0.10	1.07	7255.58	0	00:52	1.06
SITE_OUTFALL	OUTFALL	0.10	1.07	7255.07	0	00:52	1.06
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.13	3.99	7260.97	0	00:52	3.97
POND_4B	STORAGE	1.57	5.23	7266.56	0	01:02	5.23
POND_4A	STORAGE	0.33	3.30	7267.56	0	00:57	3.28
POND_5	STORAGE	1.30	4.32	7273.65	0	00:49	4.32
POND_2	STORAGE	0.79	3.18	7276.51	0	00:54	3.18
POND_1B	STORAGE	1.17	4.56	7310.89	0	00:59	4.56
POND_1A	STORAGE	0.03	1.61	7317.61	0	00:45	1.56
BALD_MTN_DETENTION	STORAGE	0.08	1.39	7292.39	0	00:48	1.38
POND_3	STORAGE	0.03	1.85	7270.82	0	00:52	1.83

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Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	33.85	0 00:45	0	0.285	-0.000
2	JUNCTION	0.00	47.85	0 00:45	0	0.414	-0.002
3	JUNCTION	0.00	48.06	0 00:45	0	0.414	-0.001
4	JUNCTION	0.00	14.93	0 00:45	0	0.129	-0.004
5	JUNCTION	15.03	15.03	0 00:45	0.129	0.129	-0.001
6	JUNCTION	0.00	0.07	0 00:40	0	0.000117	0.396
23	JUNCTION	0.00	26.12	0 00:59	0	0.839	-0.000
24	JUNCTION	0.00	26.12	0 00:59	0	0.839	-0.000
27	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
28	JUNCTION	28.23	28.23	0 00:45	0.259	0.259	0.227
29	JUNCTION	0.00	38.50	0 00:45	0	0.38	0.086
30	JUNCTION	39.12	39.12	0 00:45	0.38	0.38	0.009
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
35	JUNCTION	0.00	0.06	0 00:45	0	8.83e-05	0.084
36	JUNCTION	0.00	20.72	0 00:54	0	0.509	-0.012
37	JUNCTION	0.00	38.42	0 00:55	0	0.841	0.004

38		JUNCTION	0.00	38.37	0	00:56	0	
0.841	-0.004							
39		JUNCTION	0.00	59.43	0	00:59	0	
1.54	-0.013							
40		JUNCTION	0.00	48.24	0	00:45	0	
0.414	0.137							
41		JUNCTION	0.00	121.05	0	00:48	0	
2.51	0.000							
42		JUNCTION	0.00	121.05	0	00:48	0	
2.51	-0.000							
43		JUNCTION	0.00	121.10	0	00:48	0	
2.51	-0.001							
44		JUNCTION	0.00	121.19	0	00:49	0	
2.51	-0.001							
45		JUNCTION	0.00	294.32	0	00:45	0	
4.56	-0.016							
46		JUNCTION	0.00	295.88	0	00:45	0	
4.56	-0.000							
47		JUNCTION	0.00	297.55	0	00:46	0	
4.56	-0.000							
48		JUNCTION	6.27	6.27	0	00:45	0.0487	
0.0487	-0.001							
49		JUNCTION	199.41	199.41	0	00:45	2.05	
2.05	-0.000							
54		JUNCTION	6.16	27.69	0	00:45	0.0458	
0.236	-0.000							
55		JUNCTION	0.00	21.76	0	00:45	0	
0.191	-0.000							
56		JUNCTION	21.73	21.73	0	00:45	0.191	
0.191	-0.001							
59		JUNCTION	0.00	295.64	0	00:45	0	
4.56	0.000							
61		JUNCTION	0.00	0.00	0	00:00	0	
0	0.000 gal							
62		JUNCTION	0.00	0.00	0	00:00	0	
0	0.000 gal							
63		JUNCTION	0.00	0.28	0	00:47	0	
0.00344	0.030							
64		JUNCTION	0.00	20.72	0	00:54	0	
0.509	-0.005							
F18		JUNCTION	15.08	15.08	0	00:45	0.12	
0.12	0.075							
F8		JUNCTION	3.34	3.34	0	00:45	0.0234	
0.0234	0.108							
pnd_4_Outlet		JUNCTION	0.00	23.86	0	01:02	0	
0.699	-0.019							
POND_3FUT		JUNCTION	0.00	17.89	0	00:48	0	
0.332	-0.008							
POND_5_OUT		JUNCTION	0.00	8.37	0	00:49	0	
0.12	-0.008							

```
  CNTY_LN_RD           JUNCTION      0.00   288.82     0  00:52           0
6.44       0.002
  SITE_OUTFALL         OUTFALL       0.00   288.82     0  00:52           0
6.44       0.000
  RD_OVERTOP           OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND           STORAGE      24.79   337.34     0  00:46       0.228
6.44       0.010
  POND_4B              STORAGE       2.79    39.09     0  00:45      0.0353
0.692      -0.853
  POND_4A              STORAGE       0.00    66.69     0  00:45           0
0.638       0.677
  POND_5               STORAGE       0.00    15.05     0  00:45           0
0.12       -0.181
  POND_2               STORAGE      12.07    59.41     0  00:45      0.0945
0.508      -0.140
  POND_1B              STORAGE      49.03    92.27     0  00:45       0.393
0.843       0.000
  POND_1A              STORAGE      49.22    49.22     0  00:45       0.446
0.446      -0.000
  BALD_MTN_DETENTION   STORAGE     162.20   162.66     0  00:45        1.67
2.51       -0.000
  POND_3               STORAGE      34.19    34.19     0  00:45       0.332
0.332       0.001


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


-------------------------------------------------------------------------------
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                         Average    Avg    Evap  Exfil     Maximum    Max    Time of
Max    Maximum
                          Volume    Pcnt    Pcnt   Pcnt      Volume    Pcnt
```

Occurrence	Outflow								
Storage Unit		1000 ft	Full	Loss	Loss	1000 ft	Full	days	
hr:min	CFS								
EX-WETLAND		0.888	0.3	0.0	0.0	53.949	19.3	0	
00:52	288.82								
POND_4B		7.978	18.3	0.0	0.0	35.391	81.4	0	
01:02	23.86								
POND_4A		1.674	2.9	0.0	0.0	22.479	39.5	0	
00:57	33.30								
POND_5		1.887	19.1	0.0	0.0	8.332	84.4	0	
00:49	8.37								
POND_2		9.167	14.8	0.0	0.0	40.636	65.7	0	
00:54	20.72								
POND_1B		14.411	8.4	0.0	0.0	73.736	42.9	0	
00:59	26.28								
POND_1A		0.018	0.1	0.0	0.0	2.078	8.0	0	
00:45	46.15								
BALD_MTN_DETENTION		0.493	0.0	0.0	0.0	26.684	2.0	0	
00:48	121.05								
POND_3		0.156	0.3	0.0	0.0	10.798	23.4	0	
00:52	17.89								

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	79.14	6.92	288.82	6.442
RD_OVERTOP	0.00	0.00	0.00	0.000
System	39.57	6.92	288.82	6.442

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth

26	CONDUIT	46.15	0	00:46	13.84	0.74	0.64
29	CONDUIT	297.66	0	00:46	13.56	0.72	0.63
51	CONDUIT	21.76	0	00:45	9.37	0.47	0.48
L8	CONDUIT	3.33	0	00:45	8.17	0.12	0.62
54	CONDUIT	8.37	0	00:49	12.63	0.34	0.40
BLD_MTN_OF	CONDUIT	121.05	0	00:48	37.76	0.44	0.46
C1	CONDUIT	14.49	0	00:45	8.40	0.57	0.54
EX_MISTY_AC_BLVD_PIPE	CONDUIT	26.13	0	00:59	13.19	0.10	0.21
L1	CONDUIT	59.43	0	00:59	10.95	0.30	0.61
L10	CONDUIT	28.22	0	00:45	9.64	0.63	0.60
L11	CONDUIT	0.00	0	00:00	0.00	0.00	0.24
L12	CONDUIT	38.58	0	00:45	11.20	0.48	0.49
L13	CONDUIT	38.50	0	00:45	8.66	0.90	0.85
L14	CONDUIT	0.06	0	00:45	0.04	0.00	0.62
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.43
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	23.86	0	01:03	7.96	0.40	0.44
L20	CONDUIT	15.05	0	00:45	9.75	0.76	0.92
L22	CONDUIT	297.55	0	00:46	12.48	0.80	0.68
L23	CONDUIT	295.88	0	00:45	15.63	0.33	0.56
L24	CONDUIT	295.64	0	00:45	12.45	0.80	0.68
L25	CONDUIT	199.76	0	00:45	17.42	0.81	0.68
L26	CONDUIT	121.28	0	00:49	13.94	0.76	0.65
L27	CONDUIT	121.19	0	00:49	14.15	0.75	0.65
L28	CONDUIT	121.10	0	00:48	12.59	0.86	0.72
L29	CONDUIT	121.05	0	00:48	17.13	1.82	1.00
L3	CONDUIT	38.38	0	00:56	11.49	0.46	0.48
L30	CONDUIT	48.36	0	00:45	15.70	0.27	0.36
L31	CONDUIT	48.24	0	00:45	14.94	0.29	0.37
L32	CONDUIT	14.93	0	00:45	7.74	0.66	0.59
L33	CONDUIT	0.17	0	00:45	0.21	0.01	0.34
L34	CONDUIT	33.92	0	00:45	13.64	0.31	0.38
L35	CONDUIT	6.27	0	00:45	10.27	0.30	0.38
L36	CONDUIT	27.72	0	00:45	12.97	0.25	0.34
L38	CONDUIT	21.70	0	00:45	15.38	0.24	0.33
L4	CONDUIT	38.37	0	00:56	8.51	0.69	0.61
L44	CONDUIT	26.12	0	00:59	8.49	1.64	0.95
L45	CONDUIT	0.28	0	00:47	0.42	0.01	0.88
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.12
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	17.85	0	00:48	11.24	1.02	1.00
L53	CONDUIT	48.06	0	00:45	14.48	0.30	0.38
L6	CONDUIT	20.73	0	00:55	8.33	0.31	0.38
L7	CONDUIT	20.72	0	00:54	8.56	0.30	0.38
L9	CONDUIT	33.30	0	00:45	7.20	1.13	1.00
58	CONDUIT	288.82	0	00:52	16.95	0.00	0.11
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:49			1.00

PND_5_OF_2	ORIFICE	0.02	0	00:49	1.00
PND_5_OF_3	ORIFICE	0.02	0	00:49	1.00
PND_5_OF_4	ORIFICE	0.01	0	00:49	1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:20	1.00
PND_4B_OF_2	ORIFICE	0.09	0	01:02	1.00
PND_4B_OF_3	ORIFICE	0.08	0	01:02	1.00
PND_4B_OF_4	ORIFICE	0.07	0	01:02	1.00
PND_4B_OF_5	ORIFICE	0.06	0	01:02	1.00
PND_4B_GRATE	ORIFICE	23.39	0	01:02	
PND_5_GRATE	ORIFICE	8.29	0	00:49	
PND_2_OF_1	ORIFICE	0.22	0	00:54	1.00
PND_2_OF_2	ORIFICE	0.08	0	00:54	1.00
PND_2_OF_3	ORIFICE	0.06	0	00:54	1.00
PND_2_GRATE	ORIFICE	20.35	0	00:54	
PND_1_OF_1	ORIFICE	0.07	0	00:50	1.00
PND_1_OF_2	ORIFICE	0.07	0	01:24	1.00
PND_1_OF_3	ORIFICE	0.07	0	01:24	1.00
PND_1_OF_4	ORIFICE	0.07	0	01:17	1.00
PND_1_OF_5	ORIFICE	0.07	0	01:17	1.00
PND_1_OF_6	ORIFICE	0.10	0	01:10	1.00
PND_1_OF_7	ORIFICE	0.10	0	01:10	1.00
PND_1_OF_8	ORIFICE	0.15	0	00:59	1.00
PND_1_OF_9	ORIFICE	0.15	0	00:59	1.00
PND_1_OF_10	ORIFICE	0.19	0	00:59	1.00
PND_1_OF_11	ORIFICE	0.19	0	00:59	1.00
PND_1_GRATE	ORIFICE	24.93	0	00:59	
PND_3_OF_1	ORIFICE	0.05	0	00:48	1.00
PND_3_OF_2	ORIFICE	0.02	0	00:48	1.00
PND_3_OF_3	ORIFICE	0.00	0	00:00	0.00
PND3_GRATE	ORIFICE	17.82	0	00:48	
CNTY_LN_RD_CULV_1_EX	ORIFICE	92.42	0	00:52	1.00
CNTY_LN_RD_CULV_2	ORIFICE	92.42	0	00:52	1.00
CNTY_LN_RD_CULV_3	ORIFICE	103.98	0	00:52	0.89
CTY_LN_RD	WEIR	0.00	0	00:00	0.00

****
Flow Classification Summary
****

	Adjusted	---------- Fraction of Time in Flow Class ----------							
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd Ctrl

```
--------------------------------------------------------------------------------
-
  26                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  29                      1.00   0.21  0.00  0.00  0.00  0.00  0.00  0.79  0.00
0.00
  51                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L8                      1.00   0.00  0.08  0.00  0.02  0.00  0.00  0.89  1.00
0.00
  54                      1.00   0.18  0.00  0.00  0.00  0.00  0.00  0.82  0.00
0.00
  BLD_MTN_OF              1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  C1                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  EX_MISTY_AC_BLVD_PIPE    1.00   0.17  0.00  0.00  0.00  0.00  0.00  0.83  0.00
0.00
  L1                      1.00   0.10  0.00  0.00  0.00  0.00  0.00  0.90  0.00
0.00
  L10                     1.00   0.00  0.00  0.00  0.02  0.00  0.00  0.98  0.02
0.00
  L11                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L12                     1.00   0.06  0.00  0.00  0.00  0.00  0.00  0.94  0.00
0.00
  L13                     1.00   0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00
0.00
  L14                     1.00   0.00  1.00  0.00  0.00  0.00  0.00  0.00  1.00
0.00
  L15                     1.00   0.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L16                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L17                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L18                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L2                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L20                     1.00   0.00  0.03  0.00  0.06  0.00  0.00  0.91  0.08
0.00
  L22                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L23                     1.00   0.00  0.12  0.00  0.74  0.14  0.00  0.00  1.00
0.00
  L24                     1.00   0.00  0.67  0.00  0.32  0.00  0.00  0.00  1.00
0.00
  L25                     1.00   0.09  0.00  0.00  0.00  0.00  0.00  0.91  0.00
0.00
```

L26	1.00	0.18	0.00	0.00	0.00	0.00	0.00	0.82	0.00
0.00									
L27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L30	1.00	0.05	0.00	0.00	0.06	0.00	0.00	0.89	0.06
0.00									
L31	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.25	0.00	0.00	0.00	0.00	0.00	0.75	0.00
0.00									
L38	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.04	0.00	0.00	0.00	0.96
0.00									
L46	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L53	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.06
0.00									
58	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99
0.00									

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
L8	0.01	0.01	17.99	0.01	0.01
L20	0.01	0.01	11.36	0.01	0.01
L29	0.24	0.36	0.24	0.46	0.24
L44	0.01	0.20	0.01	0.36	0.01
L5	0.01	0.01	0.20	0.21	0.01
L9	0.54	0.55	12.61	0.08	0.03

Analysis begun on: Sat May 9 20:26:55 2026
Analysis ended on: Sat May 9 20:27:02 2026
Total elapsed time: 00:00:07

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - Q5

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

```
****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 04/16/2026 00:00:00
Ending Date .............. 04/30/2026 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 01:00:00
Routing Time Step ........ 20.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 1
Head Tolerance ........... 0.005000 ft


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        31.665         1.679
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        16.146         0.856
Surface Runoff ...........        15.427         0.818
Final Storage ............         0.268         0.014
Continuity Error (%) .....        -0.557


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
```

Wet Weather Inflow	15.427	5.027
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	15.423	5.026
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.032	

****
Highest Continuity Errors
****
Node POND_4B (-1.09%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (70.64%)
Link 58 (24.19%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.32 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	15.60 %
9.564 - 4.573 sec	:	10.59 %

```
      4.573 -  2.187 sec      :    20.95 %
      2.187 -  1.046 sec      :    44.04 %
      1.046 -  0.500 sec      :     8.82 %


  **************************
  Subcatchment Runoff Summary
  **************************


-----------------------------------------------------------------------------------------
----------------------------------------
                             Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                          Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                 in         in         in         in         in
 in         in    10^6 gal      CFS

-----------------------------------------------------------------------------------------
----------------------------------------
  A1F                        1.68       0.00       0.00       0.60       0.91
0.16       1.07        0.19    22.05   0.638
  A2F                        1.68       0.00       0.00       0.90       0.47
0.33       0.80        0.01     1.15   0.476
  A3F                        1.68       0.00       0.00       0.82       0.59
0.27       0.87        0.03     3.95   0.516
  A4F                        1.68       0.00       0.00       0.48       1.06
0.14       1.19        0.18    21.17   0.710
  A5F                        1.68       0.00       0.00       0.62       0.85
0.20       1.05        0.06     8.13   0.625
  B1F                        1.68       0.00       0.00       0.53       1.00
0.14       1.14        0.16    17.55   0.680
  B2F                        1.68       0.00       0.00       0.68       0.76
0.24       1.00        0.01     1.21   0.598
  B3F                        1.68       0.00       0.00       0.29       1.26
0.11       1.37        0.01     1.75   0.817
  B4F                        1.68       0.00       0.00       0.37       1.17
0.13       1.30        0.02     2.09   0.775
  B5F                        1.68       0.00       0.00       0.32       1.23
0.12       1.35        0.04     5.19   0.802
  B6F                        1.68       0.00       0.00       0.52       1.00
0.14       1.15        0.11    12.13   0.684
  B7F                        1.68       0.00       0.00       0.48       1.02
0.17       1.19        0.02     3.12   0.708
  B8F                        1.68       0.00       0.00       0.37       1.16
0.14       1.30        0.01     0.95   0.773
  B9F                        1.68       0.00       0.00       0.14       1.41
0.10       1.52        0.05     6.04   0.904
  C1F                        1.68       0.00       0.00       0.66       0.73
```

0.28	1.01	0.27	27.35	0.604				
D1F			1.68	0.00	0.00	0.64	0.73	
0.30	1.03	0.21	22.51	0.616				
D2F			1.68	0.00	0.00	0.53	0.81	
0.35	1.15	0.02	2.75	0.687				
JJ			1.68	0.00	0.00	0.97	0.27	
0.45	0.72	0.13	13.34	0.426				
MD2			1.68	0.00	0.00	0.76	0.76	
0.15	0.91	0.30	31.41	0.543				
MD5			1.68	0.00	0.00	1.09	0.20	
0.40	0.60	0.03	2.05	0.355				
ME			1.68	0.00	0.00	0.56	0.80	
0.32	1.12	0.10	12.09	0.666				
MO1			1.68	0.00	0.00	1.17	0.00	
0.52	0.52	0.11	9.38	0.310				
MO2			1.68	0.00	0.00	0.36	1.17	
0.14	1.30	0.02	2.45	0.776				
MO3			1.68	0.00	0.00	0.52	0.97	
0.18	1.16	0.04	5.74	0.689				
MO4			1.68	0.00	0.00	0.39	1.14	
0.14	1.28	0.03	3.28	0.760				
MO5			1.68	0.00	0.00	0.88	0.65	
0.14	0.79	1.29	128.75	0.471				
MO6			1.68	0.00	0.00	1.09	0.00	
0.60	0.60	0.01	1.35	0.359				
MO7A			1.68	0.00	0.00	1.01	0.50	
0.16	0.66	1.17	117.34	0.393				
MO7B			1.68	0.00	0.00	0.92	0.56	
0.19	0.75	0.38	40.15	0.448				
MO8			1.68	0.00	0.00	0.54	0.96	
0.18	1.13	0.04	5.39	0.675				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.02	1.03	7299.39	0 00:45	1.03
2	JUNCTION	0.02	1.19	7298.51	0 00:45	1.17
3	JUNCTION	0.02	1.16	7287.73	0 00:45	1.13
4	JUNCTION	0.02	0.95	7306.06	0 00:45	0.93
5	JUNCTION	0.02	1.04	7306.97	0 00:45	1.04
6	JUNCTION	0.00	0.27	7306.98	0 00:45	0.26
23	JUNCTION	0.13	1.30	7306.93	0 01:08	1.30
24	JUNCTION	0.07	0.60	7305.75	0 01:09	0.60

27	JUNCTION	0.00	0.00	7267.94	0	00:00	0.00
28	JUNCTION	0.02	1.26	7267.64	0	00:45	1.26
29	JUNCTION	0.03	1.31	7267.87	0	00:45	1.30
30	JUNCTION	0.32	2.07	7268.85	0	00:45	2.06
31	JUNCTION	0.00	0.00	7272.09	0	00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0	00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	0.61	7268.85	0	00:45	0.60
36	JUNCTION	0.08	0.85	7271.15	0	00:59	0.85
37	JUNCTION	0.10	1.44	7268.22	0	00:57	1.41
38	JUNCTION	0.08	1.15	7264.18	0	00:57	1.14
39	JUNCTION	0.10	1.52	7260.56	0	00:50	1.41
40	JUNCTION	0.02	1.12	7277.88	0	00:45	1.09
41	JUNCTION	0.15	3.69	7288.09	0	00:47	3.59
42	JUNCTION	0.13	2.52	7286.15	0	00:47	2.45
43	JUNCTION	0.12	2.29	7284.11	0	00:48	2.25
44	JUNCTION	0.12	2.32	7278.81	0	00:48	2.30
45	JUNCTION	0.15	3.85	7271.79	0	00:45	3.79
46	JUNCTION	0.16	3.84	7267.83	0	00:45	3.68
47	JUNCTION	0.15	3.58	7266.55	0	00:45	3.39
48	JUNCTION	0.01	0.51	7301.24	0	00:45	0.51
49	JUNCTION	0.05	2.62	7273.12	0	00:45	2.62
54	JUNCTION	0.02	0.92	7300.49	0	00:45	0.92
55	JUNCTION	0.01	0.74	7310.32	0	00:45	0.73
56	JUNCTION	0.02	1.07	7311.35	0	00:45	1.07
59	JUNCTION	1.10	3.47	7269.63	0	00:45	3.41
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.14	1.68	7310.64	0	01:09	1.67
64	JUNCTION	0.08	0.84	7272.00	0	00:58	0.83
F18	JUNCTION	0.07	0.93	7273.63	0	00:46	0.90
F8	JUNCTION	0.01	0.32	7268.96	0	00:45	0.32
pnd_4_Outlet	JUNCTION	0.09	1.05	7261.38	0	01:04	1.05
POND_3FUT	JUNCTION	0.03	1.17	7269.89	0	00:50	1.17
POND_5_OUT	JUNCTION	0.03	0.45	7267.28	0	00:53	0.43
CNTY_LN_RD	JUNCTION	0.09	0.98	7255.49	0	00:50	0.98
SITE_OUTFALL	OUTFALL	0.10	0.98	7254.98	0	00:50	0.98
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.11	3.44	7260.42	0	00:50	3.44
POND_4B	STORAGE	1.56	5.09	7266.42	0	01:04	5.09
POND_4A	STORAGE	0.32	2.61	7266.87	0	00:58	2.60
POND_5	STORAGE	1.30	4.23	7273.56	0	00:53	4.22
POND_2	STORAGE	0.79	2.99	7276.32	0	00:58	2.99
POND_1B	STORAGE	1.16	4.30	7310.63	0	01:08	4.30
POND_1A	STORAGE	0.02	1.36	7317.36	0	00:45	1.32
BALD_MTN_DETENTION	STORAGE	0.07	1.26	7292.26	0	00:47	1.23
POND_3	STORAGE	0.02	1.48	7270.45	0	00:50	1.48

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	27.53	0 00:45	0	0.234	-0.001
2	JUNCTION	0.00	38.81	0 00:45	0	0.34	-0.002
3	JUNCTION	0.00	38.96	0 00:45	0	0.34	-0.002
4	JUNCTION	0.00	12.05	0 00:45	0	0.105	-0.005
5	JUNCTION	12.13	12.13	0 00:45	0.105	0.106	-0.002
6	JUNCTION	0.00	0.05	0 00:41	0	6.87e-05	0.671
23	JUNCTION	0.00	12.50	0 01:08	0	0.664	-0.000
24	JUNCTION	0.00	12.50	0 01:08	0	0.664	-0.000
27	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
28	JUNCTION	22.51	22.51	0 00:45	0.208	0.208	0.200
29	JUNCTION	0.00	31.19	0 00:45	0	0.301	0.055
30	JUNCTION	31.41	31.41	0 00:45	0.301	0.301	0.011
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal

```
  35                 JUNCTION      0.00     0.06     0  00:40           0
5.71e-05       0.098
  36                 JUNCTION      0.00    11.75     0  00:58           0
0.419      -0.003
  37                 JUNCTION      0.00    25.93     0  00:57           0
0.685       0.000
  38                 JUNCTION      0.00    25.91     0  00:57           0
0.685      -0.004
  39                 JUNCTION      0.00    39.55     0  01:00           0
1.24       -0.026
  40                 JUNCTION      0.00    39.09     0  00:45           0
0.34        0.125
  41                 JUNCTION      0.00   101.30     0  00:47           0
1.97        0.000
  42                 JUNCTION      0.00   101.31     0  00:47           0
1.97       -0.001
  43                 JUNCTION      0.00   101.36     0  00:48           0
1.97       -0.001
  44                 JUNCTION      0.00   101.46     0  00:48           0
1.97       -0.002
  45                 JUNCTION      0.00   238.38     0  00:45           0
3.52       -0.018
  46                 JUNCTION      0.00   240.17     0  00:45           0
3.51       -0.001
  47                 JUNCTION      0.00   241.93     0  00:46           0
3.51       -0.000
  48                 JUNCTION      5.19     5.19     0  00:45      0.0406
0.0406       -0.001
  49                 JUNCTION    157.50   157.50     0  00:45        1.55
1.55       -0.000
  54                 JUNCTION      5.06    22.43     0  00:45      0.0378
0.193        0.000
  55                 JUNCTION      0.00    17.57     0  00:45           0
0.156       -0.000
  56                 JUNCTION     17.55    17.55     0  00:45       0.156
0.156       -0.001
  59                 JUNCTION      0.00   239.93     0  00:45           0
3.52        0.000
  61                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                 JUNCTION      0.00     0.18     0  00:48           0
0.00288       0.025
  64                 JUNCTION      0.00    11.75     0  00:58           0
0.419      -0.005
  F18                JUNCTION     12.09    12.09     0  00:45      0.0975
0.0975       0.103
  F8                 JUNCTION      2.75     2.75     0  00:45      0.0191
0.0191       0.159
```

pnd_4_Outlet	JUNCTION	0.00	15.78	0	01:04	0	0.554 -0.004
POND_3FUT	JUNCTION	0.00	16.52	0	00:50	0	0.266 0.001
POND_5_OUT	JUNCTION	0.00	4.77	0	00:53	0	0.0976 -0.009
CNTY_LN_RD	JUNCTION	0.00	231.21	0	00:50	0	5.03 0.002
SITE_OUTFALL	OUTFALL	0.00	231.22	0	00:50	0	5.03 0.000
RD_OVERTOP	OUTFALL	0.00	0.00	0	00:00	0	0 0.000 gal
EX-WETLAND	STORAGE	18.73	272.43	0	00:46	0.174	5.03 0.012
POND_4B	STORAGE	2.05	36.10	0	00:47	0.0255	0.549 -1.078
POND_4A	STORAGE	0.00	53.78	0	00:45	0	0.509 0.947
POND_5	STORAGE	0.00	12.07	0	00:45	0	0.0974 -0.197
POND_2	STORAGE	10.10	48.42	0	00:45	0.0792	0.418 -0.132
POND_1B	STORAGE	39.47	72.86	0	00:45	0.321	0.667 0.000
POND_1A	STORAGE	37.45	37.45	0	00:45	0.343	0.343 -0.001
BALD_MTN_DETENTION	STORAGE	130.10	130.47	0	00:45	1.3	1.97 -0.000
POND_3	STORAGE	27.35	27.35	0	00:45	0.266	0.266 -0.001

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	0.621	0.2	0.0	0.0	39.067	14.0	0 00:50	231.21
POND_4B	7.890	18.1	0.0	0.0	33.580	77.2	0 01:04	15.78
POND_4A	1.568	2.8	0.0	0.0	15.780	27.7	0 00:58	32.20
POND_5	1.873	19.0	0.0	0.0	7.971	80.8	0 00:53	4.77
POND_2	9.079	14.7	0.0	0.0	37.718	61.0	0 00:58	11.75
POND_1B	14.201	8.3	0.0	0.0	67.845	39.4	0 01:08	12.62
POND_1A	0.014	0.1	0.0	0.0	1.499	5.7	0 00:45	35.46
BALD_MTN_DETENTION	0.384	0.0	0.0	0.0	20.020	1.5	0 00:47	101.30
POND_3	0.115	0.2	0.0	0.0	7.963	17.3	0 00:50	16.52

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	78.93	5.23	231.22	5.026
RD_OVERTOP	0.00	0.00	0.00	0.000
System	39.47	5.23	231.22	5.026

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	35.46	0	00:45	13.05	0.57	0.54
29	CONDUIT	242.04	0	00:46	12.95	0.59	0.55
51	CONDUIT	17.57	0	00:45	8.85	0.38	0.43
L8	CONDUIT	2.74	0	00:45	8.51	0.10	0.60
54	CONDUIT	4.77	0	00:53	10.81	0.19	0.30
BLD_MTN_OF	CONDUIT	101.30	0	00:47	36.02	0.37	0.42
C1	CONDUIT	11.67	0	00:45	7.96	0.46	0.47
EX_MISTY_AC_BLVD_PIPE	CONDUIT	12.50	0	01:09	10.62	0.05	0.15
L1	CONDUIT	39.60	0	01:00	11.03	0.20	0.50
L10	CONDUIT	22.51	0	00:45	9.13	0.51	0.50
L11	CONDUIT	0.00	0	00:00	0.00	0.00	0.19
L12	CONDUIT	31.31	0	00:45	10.62	0.39	0.44
L13	CONDUIT	31.19	0	00:45	8.12	0.73	0.73
L14	CONDUIT	0.06	0	00:40	0.06	0.00	0.48
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.36
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	15.78	0	01:05	7.11	0.27	0.35
L20	CONDUIT	12.07	0	00:45	10.08	0.61	0.81
L22	CONDUIT	241.93	0	00:46	11.96	0.65	0.59
L23	CONDUIT	240.17	0	00:45	15.20	0.27	0.48
L24	CONDUIT	239.93	0	00:45	11.92	0.65	0.59
L25	CONDUIT	157.80	0	00:45	16.59	0.64	0.58
L26	CONDUIT	101.56	0	00:48	13.42	0.64	0.58
L27	CONDUIT	101.46	0	00:48	13.62	0.63	0.57
L28	CONDUIT	101.36	0	00:48	12.19	0.72	0.63
L29	CONDUIT	101.31	0	00:47	14.33	1.53	1.00
L3	CONDUIT	25.92	0	00:58	10.35	0.31	0.38
L30	CONDUIT	39.18	0	00:45	14.80	0.22	0.32
L31	CONDUIT	39.09	0	00:45	14.09	0.24	0.33
L32	CONDUIT	12.05	0	00:45	7.36	0.53	0.52
L33	CONDUIT	0.13	0	00:45	0.21	0.01	0.26
L34	CONDUIT	27.59	0	00:45	12.88	0.25	0.34
L35	CONDUIT	5.19	0	00:45	9.75	0.25	0.34
L36	CONDUIT	22.45	0	00:45	12.21	0.20	0.31
L38	CONDUIT	17.51	0	00:45	14.47	0.19	0.30
L4	CONDUIT	25.91	0	00:57	7.75	0.46	0.48
L44	CONDUIT	12.50	0	01:08	5.86	0.79	0.64
L45	CONDUIT	0.18	0	00:48	0.35	0.00	0.78
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.07
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	16.52	0	00:50	11.21	0.95	0.78
L53	CONDUIT	38.96	0	00:45	13.66	0.25	0.34

L6	CONDUIT	11.75	0	00:59	7.11	0.18	0.28
L7	CONDUIT	11.75	0	00:58	7.30	0.17	0.28
L9	CONDUIT	32.20	0	00:47	7.25	1.09	1.00
58	CONDUIT	231.22	0	00:50	16.03	0.00	0.10
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	00:53			1.00
PND_5_OF_2	ORIFICE	0.02	0	00:53			1.00
PND_5_OF_3	ORIFICE	0.02	0	00:53			1.00
PND_5_OF_4	ORIFICE	0.01	0	00:53			1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:04			1.00
PND_4B_OF_2	ORIFICE	0.09	0	01:04			1.00
PND_4B_OF_3	ORIFICE	0.07	0	01:04			1.00
PND_4B_OF_4	ORIFICE	0.07	0	01:04			1.00
PND_4B_OF_5	ORIFICE	0.06	0	01:04			1.00
PND_4B_GRATE	ORIFICE	15.32	0	01:04			
PND_5_GRATE	ORIFICE	4.69	0	00:53			
PND_2_OF_1	ORIFICE	0.22	0	00:58			1.00
PND_2_OF_2	ORIFICE	0.08	0	00:58			1.00
PND_2_OF_3	ORIFICE	0.06	0	00:58			1.00
PND_2_GRATE	ORIFICE	11.40	0	00:58			
PND_1_OF_1	ORIFICE	0.07	0	00:57			1.00
PND_1_OF_2	ORIFICE	0.07	0	01:19			1.00
PND_1_OF_3	ORIFICE	0.07	0	01:19			1.00
PND_1_OF_4	ORIFICE	0.07	0	01:08			1.00
PND_1_OF_5	ORIFICE	0.07	0	01:08			1.00
PND_1_OF_6	ORIFICE	0.10	0	01:08			1.00
PND_1_OF_7	ORIFICE	0.10	0	01:08			1.00
PND_1_OF_8	ORIFICE	0.14	0	01:08			1.00
PND_1_OF_9	ORIFICE	0.14	0	01:08			1.00
PND_1_OF_10	ORIFICE	0.17	0	01:08			1.00
PND_1_OF_11	ORIFICE	0.17	0	01:08			1.00
PND_1_GRATE	ORIFICE	11.34	0	01:08			
PND_3_OF_1	ORIFICE	0.05	0	00:50			1.00
PND_3_OF_2	ORIFICE	0.02	0	00:50			1.00
PND_3_OF_3	ORIFICE	0.00	0	00:00			0.00
PND3_GRATE	ORIFICE	16.45	0	00:50			
CNTY_LN_RD_CULV_1_EX	ORIFICE	73.99	0	00:50			0.86
CNTY_LN_RD_CULV_2	ORIFICE	73.99	0	00:50			0.86
CNTY_LN_RD_CULV_3	ORIFICE	83.24	0	00:50			0.76
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

	Adjusted	---------- Fraction of Time in Flow Class

```
----------
                        /Actual         Up    Down  Sub   Sup   Up    Down  Norm
Inlet
  Conduit                Length    Dry  Dry   Dry   Crit  Crit  Crit  Crit  Ltd
Ctrl

-------------------------------------------------------------------------------
-
  26                       1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  29                       1.00   0.06  0.00  0.00  0.00  0.00  0.00  0.94  0.00
0.00
  51                       1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L8                       1.00   0.00  0.08  0.00  0.02  0.00  0.00  0.89  1.00
0.00
  54                       1.00   0.01  0.00  0.00  0.00  0.00  0.00  0.99  0.00
0.00
  BLD_MTN_OF               1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  C1                       1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  EX_MISTY_AC_BLVD_PIPE    1.00   0.25  0.00  0.00  0.00  0.00  0.00  0.75  0.00
0.00
  L1                       1.00   0.10  0.00  0.00  0.00  0.00  0.00  0.90  0.00
0.00
  L10                      1.00   0.00  0.00  0.00  0.02  0.00  0.00  0.98  0.02
0.00
  L11                      1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L12                      1.00   0.05  0.00  0.00  0.00  0.00  0.00  0.95  0.00
0.00
  L13                      1.00   0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00
0.00
  L14                      1.00   0.00  1.00  0.00  0.00  0.00  0.00  0.00  1.00
0.00
  L15                      1.00   0.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L16                      1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L17                      1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L18                      1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L2                       1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L20                      1.00   0.21  0.03  0.00  0.06  0.00  0.00  0.70  0.08
0.00
  L22                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
```

L23	1.00	0.00	0.12	0.00	0.74	0.14	0.00	0.00	1.00
0.00									
L24	1.00	0.00	0.67	0.00	0.32	0.00	0.00	0.00	1.00
0.00									
L25	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L26	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00
0.00									
L27	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L30	1.00	0.13	0.00	0.00	0.06	0.00	0.00	0.81	0.06
0.00									
L31	1.00	0.22	0.00	0.00	0.00	0.00	0.00	0.78	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0.00									
L34	1.00	0.25	0.00	0.00	0.00	0.00	0.00	0.75	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L38	1.00	0.29	0.00	0.00	0.00	0.00	0.00	0.71	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.94	0.02	0.00	0.04	0.00	0.00	0.00	0.96
0.00									
L46	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									

```
  L9                     1.00   0.00  0.00  0.00  0.13  0.00  0.00  0.87  0.06
0.00
  58                     1.00   0.00  0.00  0.00  0.00  1.00  0.00  0.00  0.99
0.00


  ************************
  Conduit Surcharge Summary
  ************************

  ------------------------------------------------------------------------------
                                                          Hours        Hours
                        --------- Hours Full --------   Above Full   Capacity
  Conduit               Both Ends  Upstream  Dnstream   Normal Flow   Limited
  ------------------------------------------------------------------------------
  L8                         0.01      0.01     17.93      0.01         0.01
  L20                        0.01      0.01     11.32      0.01         0.01
  L29                        0.07      0.17      0.07      0.23         0.07
  L9                         0.25      0.25     12.55      0.06         0.01


  Analysis begun on:  Sat May  9 20:27:32 2026
  Analysis ended on:  Sat May  9 20:27:39 2026
  Total elapsed time: 00:00:07
```

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - Q2

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

```
****************
Analysis Options
****************
Flow Units ..............  CFS
Process Models:
  Rainfall/Runoff ........  YES
  RDII ...................  NO
  Snowmelt ...............  NO
  Groundwater ............  NO
  Flow Routing ...........  YES
  Ponding Allowed ........  NO
  Water Quality ..........  NO
Infiltration Method ......  HORTON
Flow Routing Method ......  DYNWAVE
Surcharge Method .........  EXTRAN
Starting Date ............  04/16/2026 00:00:00
Ending Date ..............  04/30/2026 00:00:00
Antecedent Dry Days ......  0.0
Report Time Step .........  00:05:00
Wet Time Step ............  00:05:00
Dry Time Step ............  01:00:00
Routing Time Step ........  20.00 sec
Variable Time Step .......  YES
Maximum Trials ...........  8
Number of Threads ........  1
Head Tolerance ...........  0.005000 ft


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        25.120         1.332
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        14.402         0.764
Surface Runoff ...........        10.576         0.561
Final Storage ............         0.268         0.014
Continuity Error (%) .....        -0.500


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
```

Wet Weather Inflow	10.575	3.446
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	10.572	3.445
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.041	

****
Highest Continuity Errors
****
Node POND_4A (1.18%)
Node POND_4B (-1.18%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (67.71%)
Link 58 (26.93%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.40 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	15.82 %

```
      9.564 -  4.573 sec      :    11.08 %
      4.573 -  2.187 sec      :    21.27 %
      2.187 -  1.046 sec      :    44.59 %
      1.046 -  0.500 sec      :     7.25 %


  **************************
  Subcatchment Runoff Summary
  **************************


-------------------------------------------------------------------------------
----------------------------------------
                             Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                          Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                in         in         in         in         in
 in         in    10^6 gal      CFS

-------------------------------------------------------------------------------
----------------------------------------
  A1F                         1.33       0.00       0.00       0.55       0.72
0.05       0.77        0.14    15.67   0.578
  A2F                         1.33       0.00       0.00       0.83       0.36
0.16       0.52        0.00     0.70   0.391
  A3F                         1.33       0.00       0.00       0.76       0.47
0.11       0.57        0.02     2.42   0.429
  A4F                         1.33       0.00       0.00       0.44       0.83
0.05       0.88        0.13    15.29   0.660
  A5F                         1.33       0.00       0.00       0.58       0.67
0.07       0.74        0.04     5.52   0.558
  B1F                         1.33       0.00       0.00       0.48       0.79
0.04       0.84        0.11    12.68   0.627
  B2F                         1.33       0.00       0.00       0.63       0.60
0.10       0.70        0.01     0.79   0.525
  B3F                         1.33       0.00       0.00       0.27       0.99
0.05       1.05        0.01     1.31   0.786
  B4F                         1.33       0.00       0.00       0.34       0.92
0.06       0.98        0.01     1.52   0.735
  B5F                         1.33       0.00       0.00       0.30       0.97
0.05       1.02        0.03     3.81   0.766
  B6F                         1.33       0.00       0.00       0.48       0.79
0.05       0.84        0.08     8.73   0.631
  B7F                         1.33       0.00       0.00       0.45       0.80
0.07       0.87        0.02     2.19   0.654
  B8F                         1.33       0.00       0.00       0.34       0.91
0.07       0.98        0.01     0.69   0.735
  B9F                         1.33       0.00       0.00       0.13       1.11
0.06       1.17        0.04     4.74   0.882
```

```
  C1F                     1.33       0.00       0.00       0.60       0.58
0.14       0.72       0.19    19.73   0.540
  D1F                     1.33       0.00       0.00       0.59       0.58
0.16       0.74       0.15    16.12   0.552
  D2F                     1.33       0.00       0.00       0.49       0.63
0.20       0.84       0.01     1.99   0.630
  JJ                      1.33       0.00       0.00       0.89       0.21
0.23       0.44       0.08     8.42   0.333
  MD2                     1.33       0.00       0.00       0.68       0.60
0.04       0.64       0.21    22.64   0.481
  MD5                     1.33       0.00       0.00       0.99       0.16
0.19       0.35       0.01     1.31   0.260
  ME                      1.33       0.00       0.00       0.52       0.63
0.18       0.81       0.07     8.60   0.607
  MO1                     1.33       0.00       0.00       1.07       0.00
0.27       0.27       0.05     5.04   0.200
  MO2                     1.33       0.00       0.00       0.34       0.92
0.07       0.98       0.01     1.81   0.739
  MO3                     1.33       0.00       0.00       0.48       0.77
0.07       0.84       0.03     3.97   0.632
  MO4                     1.33       0.00       0.00       0.37       0.90
0.06       0.95       0.02     2.36   0.716
  MO5                     1.33       0.00       0.00       0.78       0.51
0.03       0.55       0.89    93.07   0.411
  MO6                     1.33       0.00       0.00       1.01       0.00
0.33       0.33       0.01     0.73   0.250
  MO7A                    1.33       0.00       0.00       0.89       0.40
0.04       0.43       0.77    83.31   0.325
  MO7B                    1.33       0.00       0.00       0.83       0.44
0.05       0.49       0.25    27.76   0.371
  MO8                     1.33       0.00       0.00       0.50       0.76
0.07       0.82       0.03     3.76   0.617


  ******************
  Node Depth Summary
  ******************

  ----------------------------------------------------------------------------
                              Average  Maximum  Maximum  Time of Max    Reported
                                Depth    Depth      HGL   Occurrence   Max Depth
  Node                 Type      Feet     Feet     Feet  days hr:min        Feet
  ----------------------------------------------------------------------------
  1                    JUNCTION  0.02     0.87  7299.23     0  00:45        0.87
  2                    JUNCTION  0.02     1.00  7298.32     0  00:45        0.99
  3                    JUNCTION  0.02     0.98  7287.55     0  00:45        0.96
  4                    JUNCTION  0.02     0.79  7305.90     0  00:45        0.77
  5                    JUNCTION  0.02     0.86  7306.79     0  00:45        0.86
  6                    JUNCTION  0.00     0.09  7306.80     0  00:45        0.07
  23                   JUNCTION  0.11     0.32  7305.95     0  02:09        0.32
```

24	JUNCTION	0.06	0.17	7305.32	0	02:09	0.17
27	JUNCTION	0.00	0.00	7267.94	0	00:00	0.00
28	JUNCTION	0.02	1.04	7267.42	0	00:45	1.04
29	JUNCTION	0.02	1.10	7267.66	0	00:45	1.09
30	JUNCTION	0.31	1.74	7268.52	0	00:45	1.74
31	JUNCTION	0.00	0.00	7272.09	0	00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0	00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	0.28	7268.52	0	00:45	0.28
36	JUNCTION	0.07	0.44	7270.74	0	01:14	0.44
37	JUNCTION	0.09	0.97	7267.75	0	00:50	0.96
38	JUNCTION	0.08	0.79	7263.82	0	00:50	0.79
39	JUNCTION	0.09	0.68	7259.72	0	00:51	0.68
40	JUNCTION	0.02	0.95	7277.71	0	00:45	0.92
41	JUNCTION	0.13	2.85	7287.25	0	00:47	2.71
42	JUNCTION	0.12	2.12	7285.75	0	00:47	2.00
43	JUNCTION	0.11	1.95	7283.77	0	00:47	1.87
44	JUNCTION	0.11	1.97	7278.46	0	00:47	1.92
45	JUNCTION	0.13	3.15	7271.09	0	00:45	3.11
46	JUNCTION	0.14	3.15	7267.14	0	00:45	3.02
47	JUNCTION	0.13	2.95	7265.92	0	00:46	2.80
48	JUNCTION	0.01	0.44	7301.17	0	00:45	0.44
49	JUNCTION	0.04	2.13	7272.63	0	00:45	2.12
54	JUNCTION	0.01	0.78	7300.35	0	00:45	0.78
55	JUNCTION	0.01	0.63	7310.21	0	00:45	0.62
56	JUNCTION	0.02	0.90	7311.18	0	00:45	0.89
59	JUNCTION	1.08	3.00	7269.16	0	00:45	2.95
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.10	1.14	7310.10	0	02:09	1.14
64	JUNCTION	0.07	0.43	7271.59	0	01:14	0.43
F18	JUNCTION	0.06	0.75	7273.45	0	01:04	0.73
F8	JUNCTION	0.00	0.27	7268.91	0	00:45	0.27
pnd_4_Outlet	JUNCTION	0.08	0.57	7260.90	0	01:15	0.57
POND_3FUT	JUNCTION	0.02	0.93	7269.65	0	00:49	0.93
POND_5_OUT	JUNCTION	0.03	0.23	7267.06	0	01:06	0.23
CNTY_LN_RD	JUNCTION	0.09	0.87	7255.38	0	00:49	0.87
SITE_OUTFALL	OUTFALL	0.09	0.87	7254.87	0	00:49	0.87
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.09	2.81	7259.79	0	00:49	2.80
POND_4B	STORAGE	1.53	4.82	7266.15	0	01:15	4.82
POND_4A	STORAGE	0.30	1.91	7266.17	0	01:13	1.91
POND_5	STORAGE	1.28	4.10	7273.43	0	01:06	4.10
POND_2	STORAGE	0.77	2.75	7276.08	0	01:14	2.75
POND_1B	STORAGE	1.08	3.77	7310.10	0	02:09	3.77
POND_1A	STORAGE	0.02	1.06	7317.06	0	00:45	1.04
BALD_MTN_DETENTION	STORAGE	0.06	1.09	7292.09	0	00:47	1.03
POND_3	STORAGE	0.02	1.14	7270.11	0	00:49	1.14

****
Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	19.89	0 00:45	0	0.173	-0.001
2	JUNCTION	0.00	28.00	0 00:45	0	0.25	-0.002
3	JUNCTION	0.00	28.08	0 00:45	0	0.25	-0.002
4	JUNCTION	0.00	8.67	0 00:45	0	0.0771	-0.005
5	JUNCTION	8.73	8.73	0 00:45	0.0771	0.0771	-0.002
6	JUNCTION	0.00	0.03	0 00:44	0	1.7e-05	2.838
23	JUNCTION	0.00	0.91	0 02:09	0	0.457	-0.000
24	JUNCTION	0.00	0.91	0 02:09	0	0.457	0.000
27	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
28	JUNCTION	16.12	16.12	0 00:45	0.148	0.148	0.089
29	JUNCTION	0.00	22.49	0 00:45	0	0.212	-0.001
30	JUNCTION	22.64	22.64	0 00:45	0.212	0.212	0.015
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0		

```
 0       0.000 gal
  35                    JUNCTION      0.00     0.04     0  00:41           0
2.67e-05       0.124
  36                    JUNCTION      0.00     3.14     0  01:14           0
0.31      -0.000
  37                    JUNCTION      0.00    12.54     0  00:49           0
0.499       0.001
  38                    JUNCTION      0.00    12.50     0  00:50           0
0.499      -0.006
  39                    JUNCTION      0.00    12.81     0  00:51           0
0.887      -0.012
  40                    JUNCTION      0.00    28.15     0  00:45           0
0.25       0.093
  41                    JUNCTION      0.00    77.15     0  00:47           0
1.36       0.000
  42                    JUNCTION      0.00    77.16     0  00:47           0
1.36      -0.001
  43                    JUNCTION      0.00    77.24     0  00:47           0
1.36      -0.002
  44                    JUNCTION      0.00    77.30     0  00:47           0
1.36      -0.003
  45                    JUNCTION      0.00   171.77     0  00:45           0
2.38      -0.029
  46                    JUNCTION      0.00   173.23     0  00:45           0
2.37      -0.002
  47                    JUNCTION      0.00   174.68     0  00:46           0
2.37      -0.000
  48                    JUNCTION      3.81     3.81     0  00:45      0.0307
0.0307      -0.001
  49                    JUNCTION    111.07   111.07     0  00:45        1.02
1.02      -0.001
  54                    JUNCTION      3.61    16.15     0  00:45      0.0281
0.142       0.000
  55                    JUNCTION      0.00    12.69     0  00:45           0
0.114      -0.000
  56                    JUNCTION     12.68    12.68     0  00:45       0.114
0.114      -0.001
  59                    JUNCTION      0.00   173.06     0  00:45           0
2.38       0.000
  61                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                    JUNCTION      0.00     0.06     0  00:52           0
0.00102       0.012
  64                    JUNCTION      0.00     3.14     0  01:14           0
0.31      -0.006
  F18                   JUNCTION      8.60     8.60     0  00:45      0.0705
0.0705       0.147
  F8                    JUNCTION      1.99     1.99     0  00:45      0.0139
```

0.0139 0.244
pnd_4_Outlet JUNCTION 0.00 4.63 0 01:15 0
0.389 -0.003
POND_3FUT JUNCTION 0.00 12.32 0 00:49 0
0.189 0.001
POND_5_OUT JUNCTION 0.00 1.28 0 01:06 0
0.0706 -0.011
CNTY_LN_RD JUNCTION 0.00 170.55 0 00:49 0
3.44 0.002
SITE_OUTFALL OUTFALL 0.00 170.55 0 00:49 0
3.44 0.000
RD_OVERTOP OUTFALL 0.00 0.00 0 00:00 0
0 0.000 gal
EX-WETLAND STORAGE 12.18 195.51 0 00:46 0.112
3.44 0.004
POND_4B STORAGE 1.31 28.79 0 00:48 0.0149
0.384 -1.165
POND_4A STORAGE 0.00 38.65 0 00:45 0
0.36 1.195
POND_5 STORAGE 0.00 8.59 0 00:45 0
0.0704 -0.222
POND_2 STORAGE 7.61 35.15 0 00:45 0.0601
0.31 -0.100
POND_1B STORAGE 27.84 49.98 0 00:45 0.234
0.458 0.000
POND_1A STORAGE 24.43 24.43 0 00:45 0.223
0.223 -0.001
BALD_MTN_DETENTION STORAGE 93.79 94.09 0 00:45 0.9
1.36 -0.000
POND_3 STORAGE 19.73 19.73 0 00:45 0.189
0.189 -0.001

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	0.383	0.1	0.0	0.0	25.415	9.1	0 00:49	170.55
POND_4B	7.695	17.7	0.0	0.0	30.505	70.1	0 01:15	4.63
POND_4A	1.441	2.5	0.0	0.0	10.318	18.1	0 01:13	26.46
POND_5	1.834	18.6	0.0	0.0	7.522	76.2	0 01:06	1.28
POND_2	8.863	14.3	0.0	0.0	34.070	55.1	0 01:14	3.14
POND_1B	12.849	7.5	0.0	0.0	56.268	32.7	0 02:09	0.94
POND_1A	0.009	0.0	0.0	0.0	0.944	3.6	0 00:45	23.29
BALD_MTN_DETENTION	0.277	0.0	0.0	0.0	13.713	1.0	0 00:47	77.15
POND_3	0.080	0.2	0.0	0.0	5.661	12.3	0 00:49	12.32

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	78.61	3.36	170.55	3.445
RD_OVERTOP	0.00	0.00	0.00	0.000
System	39.30	3.36	170.55	3.445

****
Link Flow Summary

****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	23.29	0	00:45	11.73	0.38	0.42
29	CONDUIT	174.77	0	00:46	11.94	0.42	0.45
51	CONDUIT	12.69	0	00:45	8.11	0.27	0.36
L8	CONDUIT	1.98	0	00:45	8.69	0.07	0.56
54	CONDUIT	1.28	0	01:06	7.37	0.05	0.15
BLD_MTN_OF	CONDUIT	77.15	0	00:47	33.47	0.28	0.36
C1	CONDUIT	8.36	0	00:45	7.29	0.33	0.39
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.91	0	02:09	4.77	0.00	0.04
L1	CONDUIT	12.81	0	00:51	8.91	0.06	0.32
L10	CONDUIT	16.11	0	00:45	8.37	0.36	0.42
L11	CONDUIT	0.00	0	00:00	0.00	0.00	0.14
L12	CONDUIT	22.57	0	00:45	9.73	0.28	0.36
L13	CONDUIT	22.49	0	00:45	7.23	0.53	0.61
L14	CONDUIT	0.04	0	00:41	0.04	0.00	0.36
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.30
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	4.63	0	01:15	5.01	0.08	0.19
L20	CONDUIT	8.59	0	00:45	10.21	0.44	0.75
L22	CONDUIT	174.68	0	00:46	11.06	0.47	0.48
L23	CONDUIT	173.23	0	00:45	14.29	0.19	0.40
L24	CONDUIT	173.06	0	00:45	11.01	0.47	0.48
L25	CONDUIT	111.27	0	00:45	15.25	0.45	0.47
L26	CONDUIT	77.42	0	00:48	12.58	0.49	0.49
L27	CONDUIT	77.30	0	00:47	12.75	0.48	0.49
L28	CONDUIT	77.24	0	00:47	11.45	0.55	0.53
L29	CONDUIT	77.16	0	00:47	11.26	1.16	0.93
L3	CONDUIT	12.50	0	00:51	8.44	0.15	0.26
L30	CONDUIT	28.21	0	00:45	13.47	0.16	0.27
L31	CONDUIT	28.15	0	00:45	12.83	0.17	0.28
L32	CONDUIT	8.67	0	00:45	6.77	0.38	0.43
L33	CONDUIT	0.06	0	00:45	0.17	0.00	0.17
L34	CONDUIT	19.93	0	00:45	11.74	0.18	0.29
L35	CONDUIT	3.81	0	00:45	8.92	0.18	0.29
L36	CONDUIT	16.16	0	00:45	11.12	0.15	0.26
L38	CONDUIT	12.64	0	00:45	13.18	0.14	0.25
L4	CONDUIT	12.50	0	00:50	6.37	0.22	0.32
L44	CONDUIT	0.91	0	02:09	2.75	0.06	0.16
L45	CONDUIT	0.06	0	00:52	0.16	0.00	0.56
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	12.32	0	00:49	10.68	0.71	0.62

L53	CONDUIT	28.08	0	00:45	12.45	0.18	0.29
L6	CONDUIT	3.13	0	01:14	4.83	0.05	0.15
L7	CONDUIT	3.14	0	01:14	4.97	0.05	0.14
L9	CONDUIT	26.46	0	00:48	6.99	0.89	0.88
58	CONDUIT	170.55	0	00:49	14.86	0.00	0.09
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	01:06			1.00
PND_5_OF_2	ORIFICE	0.02	0	01:06			1.00
PND_5_OF_3	ORIFICE	0.01	0	01:06			1.00
PND_5_OF_4	ORIFICE	0.01	0	01:06			1.00
PND_4B_OF_1	ORIFICE	0.17	0	01:15			1.00
PND_4B_OF_2	ORIFICE	0.08	0	01:15			1.00
PND_4B_OF_3	ORIFICE	0.07	0	01:15			1.00
PND_4B_OF_4	ORIFICE	0.06	0	01:15			1.00
PND_4B_OF_5	ORIFICE	0.05	0	01:15			1.00
PND_4B_GRATE	ORIFICE	4.20	0	01:15			
PND_5_GRATE	ORIFICE	1.21	0	01:06			
PND_2_OF_1	ORIFICE	0.21	0	01:14			1.00
PND_2_OF_2	ORIFICE	0.08	0	01:14			1.00
PND_2_OF_3	ORIFICE	0.05	0	01:14			1.00
PND_2_GRATE	ORIFICE	2.81	0	01:14			
PND_1_OF_1	ORIFICE	0.07	0	02:09			1.00
PND_1_OF_2	ORIFICE	0.07	0	02:09			1.00
PND_1_OF_3	ORIFICE	0.07	0	02:09			1.00
PND_1_OF_4	ORIFICE	0.06	0	02:09			1.00
PND_1_OF_5	ORIFICE	0.06	0	02:09			1.00
PND_1_OF_6	ORIFICE	0.09	0	02:09			1.00
PND_1_OF_7	ORIFICE	0.09	0	02:09			1.00
PND_1_OF_8	ORIFICE	0.12	0	02:09			1.00
PND_1_OF_9	ORIFICE	0.12	0	02:09			1.00
PND_1_OF_10	ORIFICE	0.08	0	02:09			1.00
PND_1_OF_11	ORIFICE	0.08	0	02:09			1.00
PND_1_GRATE	ORIFICE	0.00	0	00:00			
PND_3_OF_1	ORIFICE	0.04	0	00:49			1.00
PND_3_OF_2	ORIFICE	0.01	0	00:49			1.00
PND_3_OF_3	ORIFICE	0.00	0	00:00			0.00
PND3_GRATE	ORIFICE	12.27	0	00:49			
CNTY_LN_RD_CULV_1_EX	ORIFICE	54.58	0	00:49			0.70
CNTY_LN_RD_CULV_2	ORIFICE	54.58	0	00:49			0.70
CNTY_LN_RD_CULV_3	ORIFICE	61.40	0	00:49			0.62
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

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Flow Classification Summary
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Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.17	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L8	1.00	0.00	0.08	0.00	0.02	0.00	0.00	0.89	1.00	0.00
54	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.18	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00
L1	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.02	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L12	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
L13	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
L14	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L20	1.00	0.00	0.03	0.00	0.06	0.00	0.00	0.91	0.08	0.00
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00

0.00									
L23	1.00	0.00	0.12	0.00	0.74	0.14	0.00	0.00	1.00
0.00									
L24	1.00	0.00	0.68	0.00	0.32	0.00	0.00	0.00	1.00
0.00									
L25	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00
0.00									
L26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.91	0.00
0.00									
L30	1.00	0.05	0.00	0.00	0.06	0.00	0.00	0.89	0.06
0.00									
L31	1.00	0.16	0.00	0.00	0.00	0.00	0.00	0.84	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
0.00									
L34	1.00	0.18	0.00	0.00	0.00	0.00	0.00	0.82	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00
0.00									
L38	1.00	0.22	0.00	0.00	0.00	0.00	0.00	0.78	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	0.95	0.02	0.00	0.03	0.00	0.00	0.00	0.96
0.00									
L46	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00

```
0.00
  L9                     1.00   0.00  0.00  0.00  0.13  0.00  0.00  0.87  0.06
0.00
  58                     1.00   0.00  0.00  0.00  0.00  1.00  0.00  0.00  1.00
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
L8	0.01	0.01	17.83	0.01	0.01
L20	0.01	0.01	11.25	0.01	0.01
L29	0.01	0.01	0.01	0.10	0.01
L9	0.01	0.01	12.44	0.01	0.01

Analysis begun on: Sat May 9 20:28:12 2026
Analysis ended on: Sat May 9 20:28:19 2026
Total elapsed time: 00:00:07

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - EURV

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... DYNWAVE
Surcharge Method ..... EXTRAN
Starting Date 04/16/2026 00:00:00
Ending Date 04/30/2026 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 01:00:00
Routing Time Step ..... 20.00 sec
Variable Time Step ..... YES
Maximum Trials 8
Number of Threads 1
Head Tolerance ..... 0.005000 ft

Runoff Quantity Continuity	Volume acre-feet	Depth inches
Total Precipitation	22.574	1.197
Evaporation Loss	0.000	0.000
Infiltration Loss	13.390	0.710
Surface Runoff	9.021	0.478
Final Storage	0.268	0.014
Continuity Error (%)	-0.464	

Flow Routing Continuity	Volume acre-feet	Volume 10^6 gal
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	9.021	2.940
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	9.018	2.939
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.055	

****
Highest Continuity Errors
****
Node POND_4A (1.24%)
Node POND_4B (-1.22%)

****
Time-Step Critical Elements
****
Link BLD_MTN_OF (52.95%)
Link 58 (41.64%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	4.54 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	16.37 %

```
      9.564 -  4.573 sec      :    12.07 %
      4.573 -  2.187 sec      :    20.64 %
      2.187 -  1.046 sec      :    44.68 %
      1.046 -  0.500 sec      :     6.24 %


  **************************
  Subcatchment Runoff Summary
  **************************


-----------------------------------------------------------------------------------
-----------------------------------------
                            Total      Total      Total      Total     Imperv
Perv      Total       Total     Peak  Runoff
                         Precip      Runon       Evap      Infil     Runoff
Runoff     Runoff      Runoff   Runoff   Coeff
  Subcatchment                in         in         in         in         in
 in         in    10^6 gal      CFS

-----------------------------------------------------------------------------------
-----------------------------------------
  A1F                        1.20       0.00       0.00       0.52       0.64
0.02       0.67        0.12    13.66   0.556
  A2F                        1.20       0.00       0.00       0.79       0.33
0.09       0.42        0.00     0.54   0.350
  A3F                        1.20       0.00       0.00       0.72       0.42
0.05       0.47        0.02     1.98   0.394
  A4F                        1.20       0.00       0.00       0.41       0.75
0.02       0.77        0.12    13.38   0.641
  A5F                        1.20       0.00       0.00       0.55       0.60
0.04       0.64        0.04     4.72   0.532
  B1F                        1.20       0.00       0.00       0.45       0.71
0.02       0.73        0.10    11.10   0.608
  B2F                        1.20       0.00       0.00       0.60       0.54
0.05       0.59        0.00     0.65   0.495
  B3F                        1.20       0.00       0.00       0.26       0.89
0.03       0.92        0.01     1.14   0.771
  B4F                        1.20       0.00       0.00       0.32       0.82
0.03       0.86        0.01     1.31   0.717
  B5F                        1.20       0.00       0.00       0.28       0.87
0.03       0.90        0.03     3.32   0.750
  B6F                        1.20       0.00       0.00       0.45       0.71
0.02       0.73        0.07     7.63   0.611
  B7F                        1.20       0.00       0.00       0.43       0.72
0.04       0.76        0.02     1.88   0.632
  B8F                        1.20       0.00       0.00       0.33       0.82
0.04       0.86        0.00     0.60   0.717
  B9F                        1.20       0.00       0.00       0.13       1.00
0.05       1.04        0.03     4.24   0.871
```

```
  C1F                     1.20       0.00       0.00       0.58       0.52
0.10       0.61       0.16    17.00   0.510
  D1F                     1.20       0.00       0.00       0.56       0.52
0.11       0.62       0.13    13.83   0.521
  D2F                     1.20       0.00       0.00       0.47       0.57
0.15       0.72       0.01     1.69   0.602
  JJ                      1.20       0.00       0.00       0.85       0.19
0.16       0.35       0.06     6.74   0.288
  MD2                     1.20       0.00       0.00       0.63       0.54
0.02       0.55       0.18    19.82   0.463
  MD5                     1.20       0.00       0.00       0.93       0.14
0.12       0.26       0.01     1.06   0.218
  ME                      1.20       0.00       0.00       0.50       0.57
0.13       0.69       0.06     7.32   0.578
  MO1                     1.20       0.00       0.00       1.02       0.00
0.18       0.18       0.04     3.50   0.149
  MO2                     1.20       0.00       0.00       0.32       0.82
0.04       0.86       0.01     1.56   0.722
  MO3                     1.20       0.00       0.00       0.46       0.69
0.04       0.73       0.03     3.39   0.608
  MO4                     1.20       0.00       0.00       0.35       0.80
0.03       0.83       0.02     2.05   0.697
  MO5                     1.20       0.00       0.00       0.71       0.46
0.01       0.47       0.77    81.49   0.395
  MO6                     1.20       0.00       0.00       0.97       0.00
0.23       0.23       0.00     0.51   0.195
  MO7A                    1.20       0.00       0.00       0.82       0.35
0.01       0.37       0.66    72.76   0.308
  MO7B                    1.20       0.00       0.00       0.77       0.40
0.02       0.42       0.21    24.09   0.348
  MO8                     1.20       0.00       0.00       0.47       0.68
0.03       0.71       0.03     3.24   0.593


  ******************
  Node Depth Summary
  ******************

  ---------------------------------------------------------------------------
                                Average  Maximum  Maximum  Time of Max    Reported
                                  Depth    Depth      HGL   Occurrence   Max Depth
  Node                 Type        Feet     Feet     Feet  days hr:min        Feet
  ---------------------------------------------------------------------------
  1                    JUNCTION    0.02     0.81  7299.17     0  00:45        0.81
  2                    JUNCTION    0.02     0.93  7298.25     0  00:45        0.92
  3                    JUNCTION    0.02     0.91  7287.48     0  00:45        0.89
  4                    JUNCTION    0.01     0.73  7305.84     0  00:45        0.72
  5                    JUNCTION    0.02     0.80  7306.73     0  00:45        0.80
  6                    JUNCTION    0.00     0.03  7306.74     0  00:45        0.01
  23                   JUNCTION    0.10     0.28  7305.91     0  02:10        0.28
```

24	JUNCTION	0.05	0.15	7305.30	0	02:10	0.15
27	JUNCTION	0.00	0.00	7267.94	0	00:00	0.00
28	JUNCTION	0.02	0.96	7267.34	0	00:45	0.96
29	JUNCTION	0.02	1.02	7267.58	0	00:45	1.01
30	JUNCTION	0.31	1.64	7268.42	0	00:45	1.63
31	JUNCTION	0.00	0.00	7272.09	0	00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0	00:00	0.00
33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	0.18	7268.42	0	00:45	0.17
36	JUNCTION	0.07	0.25	7270.55	0	02:06	0.25
37	JUNCTION	0.09	0.89	7267.67	0	00:50	0.89
38	JUNCTION	0.07	0.73	7263.76	0	00:50	0.73
39	JUNCTION	0.09	0.65	7259.69	0	00:55	0.64
40	JUNCTION	0.02	0.88	7277.64	0	00:45	0.86
41	JUNCTION	0.12	2.63	7287.03	0	00:46	2.28
42	JUNCTION	0.11	1.97	7285.60	0	00:46	1.85
43	JUNCTION	0.10	1.82	7283.64	0	00:47	1.72
44	JUNCTION	0.10	1.84	7278.33	0	00:47	1.78
45	JUNCTION	0.12	2.91	7270.85	0	00:45	2.87
46	JUNCTION	0.13	2.91	7266.90	0	00:45	2.79
47	JUNCTION	0.12	2.74	7265.71	0	00:46	2.60
48	JUNCTION	0.01	0.41	7301.14	0	00:45	0.41
49	JUNCTION	0.04	1.97	7272.47	0	00:45	1.96
54	JUNCTION	0.01	0.73	7300.30	0	00:45	0.72
55	JUNCTION	0.01	0.59	7310.17	0	00:45	0.58
56	JUNCTION	0.02	0.83	7311.11	0	00:45	0.83
59	JUNCTION	1.08	2.84	7269.00	0	00:45	2.80
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.05	0.71	7309.67	0	02:10	0.71
64	JUNCTION	0.07	0.25	7271.41	0	02:05	0.25
F18	JUNCTION	0.06	0.89	7273.59	0	01:13	0.80
F8	JUNCTION	0.00	0.25	7268.89	0	00:45	0.25
pnd_4_Outlet	JUNCTION	0.07	0.29	7260.62	0	02:02	0.29
POND_3FUT	JUNCTION	0.02	0.85	7269.57	0	00:49	0.85
POND_5_OUT	JUNCTION	0.03	0.10	7266.93	0	01:46	0.09
CNTY_LN_RD	JUNCTION	0.08	0.83	7255.34	0	00:49	0.83
SITE_OUTFALL	OUTFALL	0.09	0.83	7254.83	0	00:49	0.83
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.08	2.58	7259.56	0	00:49	2.57
POND_4B	STORAGE	1.51	4.69	7266.02	0	02:02	4.69
POND_4A	STORAGE	0.29	1.76	7266.02	0	01:57	1.76
POND_5	STORAGE	1.26	4.04	7273.37	0	01:46	4.04
POND_2	STORAGE	0.75	2.66	7275.99	0	02:05	2.66
POND_1B	STORAGE	0.95	3.34	7309.67	0	02:10	3.34
POND_1A	STORAGE	0.02	0.96	7316.96	0	00:45	0.94
BALD_MTN_DETENTION	STORAGE	0.06	1.02	7292.02	0	00:47	0.97
POND_3	STORAGE	0.02	1.01	7269.98	0	00:49	1.01

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal	Flow Balance Error Percent
1	JUNCTION	0.00	17.33	0 00:45	0	0.151	-0.001
2	JUNCTION	0.00	24.43	0 00:45	0	0.218	-0.002
3	JUNCTION	0.00	24.49	0 00:45	0	0.218	-0.002
4	JUNCTION	0.00	7.59	0 00:45	0	0.0671	-0.005
5	JUNCTION	7.63	7.63	0 00:45	0.0671	0.0671	-0.002
6	JUNCTION	0.00	0.02	0 00:45	0	4.23e-06	0.342 gal
23	JUNCTION	0.00	0.66	0 02:10	0	0.385	-0.000
24	JUNCTION	0.00	0.66	0 02:10	0	0.385	-0.000
27	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
28	JUNCTION	13.83	13.83	0 00:45	0.126	0.126	0.048
29	JUNCTION	0.00	19.69	0 00:45	0	0.183	-0.001
30	JUNCTION	19.82	19.82	0 00:45	0.183	0.183	0.018
31	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
32	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
33	JUNCTION	0.00	0.00	0 00:00	0	0	0.000 gal
34	JUNCTION	0.00	0.00	0 00:00	0		

```
 0       0.000 gal
  35                    JUNCTION      0.00     0.03     0  00:42           0
1.67e-05       0.173
  36                    JUNCTION      0.00     0.98     0  02:06           0
0.271       0.000
  37                    JUNCTION      0.00    10.84     0  00:49           0
0.431       0.002
  38                    JUNCTION      0.00    10.80     0  00:50           0
0.431      -0.007
  39                    JUNCTION      0.00    11.06     0  00:51           0
0.763      -0.011
  40                    JUNCTION      0.00    24.54     0  00:45           0
0.218       0.080
  41                    JUNCTION      0.00    68.30     0  00:47           0
1.16        0.000
  42                    JUNCTION      0.00    68.37     0  00:47           0
1.16       -0.001
  43                    JUNCTION      0.00    68.51     0  00:47           0
1.16       -0.002
  44                    JUNCTION      0.00    68.56     0  00:47           0
1.16       -0.003
  45                    JUNCTION      0.00   149.96     0  00:45           0
2.03       -0.045
  46                    JUNCTION      0.00   151.14     0  00:45           0
2.02       -0.002
  47                    JUNCTION      0.00   152.43     0  00:46           0
2.03       -0.000
  48                    JUNCTION      3.32     3.32     0  00:45      0.0271
0.0271      -0.001
  49                    JUNCTION     96.85    96.85     0  00:45       0.865
0.865       -0.001
  54                    JUNCTION      3.11    14.07     0  00:45      0.0245
0.124       -0.000
  55                    JUNCTION      0.00    11.10     0  00:45           0
0.0992        0.000
  56                    JUNCTION     11.10    11.10     0  00:45      0.0992
0.0992      -0.001
  59                    JUNCTION      0.00   151.00     0  00:45           0
2.03        0.000
  61                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                    JUNCTION      0.00     0.03     0  00:56           0
0.000339       0.008
  64                    JUNCTION      0.00     0.98     0  02:05           0
0.271       -0.007
  F18                   JUNCTION      7.32     7.32     0  00:45      0.0603
0.0654        0.188
  F8                    JUNCTION      1.69     1.69     0  00:45      0.0119
```

```
0.0119       0.272
  pnd_4_Outlet         JUNCTION      0.00     1.14     0  02:02           0
0.332      -0.004
  POND_3FUT            JUNCTION      0.00    10.64     0  00:49           0
0.16       0.001
  POND_5_OUT           JUNCTION      0.00     0.20     0  01:46           0
0.0603      -0.015
  CNTY_LN_RD           JUNCTION      0.00   149.65     0  00:49           0
2.94       0.002
  SITE_OUTFALL         OUTFALL       0.00   149.65     0  00:49           0
2.94       0.000
  RD_OVERTOP           OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND           STORAGE       9.98   169.85     0  00:46      0.0901
2.94       0.004
  POND_4B              STORAGE       1.06    25.16     0  00:48      0.0112
0.328      -1.200
  POND_4A              STORAGE       0.00    33.54     0  00:45           0
0.309       1.253
  POND_5               STORAGE       0.00     7.31     0  00:45           0
0.0653      -0.250
  POND_2               STORAGE       6.72    30.70     0  00:45       0.053
0.271      -0.086
  POND_1B              STORAGE      24.08    42.56     0  00:45       0.203
0.385       0.000
  POND_1A              STORAGE      20.28    20.28     0  00:45       0.182
0.182      -0.001
  BALD_MTN_DETENTION   STORAGE      82.00    82.27     0  00:45       0.777
1.16      -0.000
  POND_3               STORAGE      17.00    17.00     0  00:45        0.16
0.16      -0.001


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************
```

Storage Unit	Average Volume 1000 ft	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 ft	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
EX-WETLAND	0.325	0.1	0.0	0.0	21.284	7.6	0 00:49	149.65
POND_4B	7.533	17.3	0.0	0.0	29.015	66.7	0 02:02	1.14
POND_4A	1.381	2.4	0.0	0.0	9.255	16.2	0 01:57	23.36
POND_5	1.799	18.2	0.0	0.0	7.293	73.9	0 01:46	1.18
POND_2	8.681	14.0	0.0	0.0	32.640	52.8	0 02:05	0.98
POND_1B	10.740	6.2	0.0	0.0	47.554	27.6	0 02:10	0.67
POND_1A	0.008	0.0	0.0	0.0	0.781	3.0	0 00:45	19.35
BALD_MTN_DETENTION	0.248	0.0	0.0	0.0	11.963	0.9	0 00:47	68.30
POND_3	0.069	0.2	0.0	0.0	4.867	10.6	0 00:49	10.64

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	77.89	2.88	149.65	2.938
RD_OVERTOP	0.00	0.00	0.00	0.000
System	38.94	2.88	149.65	2.938

****
Link Flow Summary

****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
26	CONDUIT	19.35	0	00:45	11.16	0.31	0.38
29	CONDUIT	152.52	0	00:46	11.51	0.37	0.42
51	CONDUIT	11.10	0	00:45	7.81	0.24	0.33
L8	CONDUIT	1.68	0	00:45	8.57	0.06	0.55
54	CONDUIT	0.20	0	01:46	4.21	0.01	0.06
BLD_MTN_OF	CONDUIT	68.30	0	00:47	32.36	0.25	0.34
C1	CONDUIT	7.30	0	00:45	7.02	0.29	0.37
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.66	0	02:11	4.36	0.00	0.04
L1	CONDUIT	11.06	0	00:51	7.72	0.06	0.28
L10	CONDUIT	13.82	0	00:45	8.03	0.31	0.38
L11	CONDUIT	0.00	0	00:00	0.00	0.00	0.12
L12	CONDUIT	19.76	0	00:45	9.37	0.25	0.34
L13	CONDUIT	19.69	0	00:45	6.88	0.46	0.57
L14	CONDUIT	0.03	0	00:42	0.03	0.00	0.31
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.28
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	1.14	0	02:02	3.31	0.02	0.10
L20	CONDUIT	7.31	0	00:45	10.12	0.37	0.80
L22	CONDUIT	152.43	0	00:46	10.68	0.41	0.45
L23	CONDUIT	151.14	0	00:45	13.86	0.17	0.37
L24	CONDUIT	151.00	0	00:45	10.63	0.41	0.45
L25	CONDUIT	97.02	0	00:45	14.72	0.39	0.44
L26	CONDUIT	68.62	0	00:48	12.20	0.43	0.46
L27	CONDUIT	68.56	0	00:47	12.37	0.42	0.45
L28	CONDUIT	68.51	0	00:47	11.13	0.49	0.49
L29	CONDUIT	68.37	0	00:47	10.77	1.03	0.88
L3	CONDUIT	10.80	0	00:50	8.09	0.13	0.24
L30	CONDUIT	24.58	0	00:45	12.95	0.14	0.25
L31	CONDUIT	24.54	0	00:45	12.34	0.15	0.26
L32	CONDUIT	7.59	0	00:45	6.53	0.33	0.40
L33	CONDUIT	0.02	0	00:45	0.09	0.00	0.14
L34	CONDUIT	17.37	0	00:45	11.30	0.16	0.27
L35	CONDUIT	3.32	0	00:45	8.58	0.16	0.27
L36	CONDUIT	14.09	0	00:45	10.69	0.13	0.24
L38	CONDUIT	11.05	0	00:45	12.68	0.12	0.23
L4	CONDUIT	10.80	0	00:50	6.11	0.19	0.30
L44	CONDUIT	0.66	0	02:10	2.51	0.04	0.14
L45	CONDUIT	0.03	0	00:56	0.09	0.00	0.39
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	10.64	0	00:49	10.34	0.61	0.56

L53	CONDUIT	24.49	0	00:45	11.97	0.15	0.27
L6	CONDUIT	0.98	0	02:06	3.40	0.01	0.08
L7	CONDUIT	0.98	0	02:06	3.49	0.01	0.08
L9	CONDUIT	23.36	0	00:48	6.76	0.79	0.85
58	CONDUIT	149.65	0	00:49	14.38	0.00	0.08
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.03	0	01:46			1.00
PND_5_OF_2	ORIFICE	0.02	0	01:46			1.00
PND_5_OF_3	ORIFICE	0.01	0	01:46			1.00
PND_5_OF_4	ORIFICE	0.01	0	01:46			1.00
PND_4B_OF_1	ORIFICE	0.16	0	02:02			1.00
PND_4B_OF_2	ORIFICE	0.08	0	02:02			1.00
PND_4B_OF_3	ORIFICE	0.07	0	02:02			1.00
PND_4B_OF_4	ORIFICE	0.06	0	02:02			1.00
PND_4B_OF_5	ORIFICE	0.05	0	02:02			1.00
PND_4B_GRATE	ORIFICE	0.71	0	02:02			
PND_5_GRATE	ORIFICE	0.13	0	01:46			
PND_2_OF_1	ORIFICE	0.20	0	02:05			1.00
PND_2_OF_2	ORIFICE	0.07	0	02:05			1.00
PND_2_OF_3	ORIFICE	0.04	0	02:05			1.00
PND_2_GRATE	ORIFICE	0.66	0	02:05			
PND_1_OF_1	ORIFICE	0.07	0	02:10			1.00
PND_1_OF_2	ORIFICE	0.06	0	02:10			1.00
PND_1_OF_3	ORIFICE	0.06	0	02:10			1.00
PND_1_OF_4	ORIFICE	0.06	0	02:10			1.00
PND_1_OF_5	ORIFICE	0.06	0	02:10			1.00
PND_1_OF_6	ORIFICE	0.08	0	02:10			1.00
PND_1_OF_7	ORIFICE	0.08	0	02:10			1.00
PND_1_OF_8	ORIFICE	0.09	0	02:10			1.00
PND_1_OF_9	ORIFICE	0.09	0	02:10			1.00
PND_1_OF_10	ORIFICE	0.00	0	00:00			0.00
PND_1_OF_11	ORIFICE	0.00	0	00:00			0.00
PND_1_GRATE	ORIFICE	0.00	0	00:00			
PND_3_OF_1	ORIFICE	0.04	0	00:49			1.00
PND_3_OF_2	ORIFICE	0.00	0	00:49			0.15
PND_3_OF_3	ORIFICE	0.00	0	00:00			0.00
PND3_GRATE	ORIFICE	10.60	0	00:49			
CNTY_LN_RD_CULV_1_EX	ORIFICE	47.89	0	00:49			0.64
CNTY_LN_RD_CULV_2	ORIFICE	47.89	0	00:49			0.64
CNTY_LN_RD_CULV_3	ORIFICE	53.87	0	00:49			0.57
CTY_LN_RD	WEIR	0.00	0	00:00			0.00

****
Flow Classification Summary
****

-

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
26	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
29	1.00	0.19	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00
51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L8	1.00	0.00	0.08	0.00	0.02	0.00	0.00	0.89	1.00	0.00
54	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
BLD_MTN_OF	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C1	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
EX_MISTY_AC_BLVD_PIPE	1.00	0.23	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00
L1	1.00	0.10	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00
L10	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.02	0.00
L11	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L12	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
L13	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
L14	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
L15	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L16	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L17	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L18	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
L2	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
L20	1.00	0.00	0.03	0.00	0.06	0.00	0.00	0.91	0.08	0.00
L22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00

0.00
  L23 1.00 0.00 0.14 0.00 0.73 0.13 0.00 0.00 1.00
0.00
  L24 1.00 0.00 0.69 0.00 0.31 0.00 0.00 0.00 1.00
0.00
  L25 1.00 0.08 0.00 0.00 0.00 0.00 0.00 0.92 0.00
0.00
  L26 1.00 0.13 0.00 0.00 0.00 0.00 0.00 0.87 0.00
0.00
  L27 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L28 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L29 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L3 1.00 0.09 0.00 0.00 0.00 0.00 0.00 0.91 0.00
0.00
  L30 1.00 0.21 0.00 0.00 0.06 0.00 0.00 0.73 0.06
0.00
  L31 1.00 0.15 0.00 0.00 0.00 0.00 0.00 0.85 0.00
0.00
  L32 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L33 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00
0.00
  L34 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L35 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L36 1.00 0.24 0.00 0.00 0.00 0.00 0.00 0.76 0.00
0.00
  L38 1.00 0.04 0.00 0.00 0.00 0.00 0.00 0.96 0.00
0.00
  L4 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L44 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L45 1.00 0.96 0.02 0.00 0.02 0.00 0.00 0.00 0.97
0.00
  L46 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L47 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00
  L5 1.00 0.02 0.00 0.00 0.00 0.00 0.00 0.98 0.00
0.00
  L53 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L6 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00
0.00
  L7 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00

```
0.00
  L9                     1.00   0.00  0.00  0.00  0.13  0.00  0.00  0.87  0.06
0.00
  58                     1.00   0.00  0.00  0.00  0.00  1.00  0.00  0.00  1.00
0.00
```

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
L8	0.01	0.01	17.75	0.01	0.01
L20	0.01	0.01	11.19	0.01	0.01
L29	0.01	0.01	0.01	0.04	0.01
L9	0.01	0.01	12.35	0.01	0.01

Analysis begun on: Sat May 9 20:28:49 2026
Analysis ended on: Sat May 9 20:28:56 2026
Total elapsed time: 00:00:07

MONUMENT RIDGE EAST - PR COND PH II PONDS SWMM REPORT FILE - WQCV

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

WARNING 02: maximum depth increased for Node CNTY_LN_RD

```
****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 04/16/2026 00:00:00
Ending Date .............. 04/30/2026 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 01:00:00
Routing Time Step ........ 20.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 1
Head Tolerance ........... 0.005000 ft


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......         9.071         0.481
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         5.636         0.299
Surface Runoff ...........         3.196         0.169
Final Storage ............         0.268         0.014
Continuity Error (%) .....        -0.320


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
```

Wet Weather Inflow	3.196	1.041
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	3.190	1.040
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.008	0.003
Continuity Error (%)	-0.076	

****
Time-Step Critical Elements
****
Link 58 (49.09%)
Link BLD_MTN_OF (41.58%)

****
Highest Flow Instability Indexes
****
All links are stable.

****
Most Frequent Nonconverging Nodes
****
Convergence obtained at all time steps.

****
Routing Time Step Summary
****

Minimum Time Step	:	0.50 sec
Average Time Step	:	5.93 sec
Maximum Time Step	:	20.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	2.00
% of Steps Not Converging	:	0.00
Time Step Frequencies	:	
20.000 - 9.564 sec	:	23.47 %
9.564 - 4.573 sec	:	15.14 %
4.573 - 2.187 sec	:	27.60 %
2.187 - 1.046 sec	:	28.66 %
1.046 - 0.500 sec	:	5.13 %

****

Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Imperv Runoff in	Perv Runoff in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
A1F	0.48	0.00	0.00	0.22	0.25	0.00	0.25	0.04	4.85	0.511
A2F	0.48	0.00	0.00	0.35	0.12	0.00	0.12	0.00	0.12	0.260
A3F	0.48	0.00	0.00	0.31	0.16	0.00	0.16	0.01	0.64	0.333
A4F	0.48	0.00	0.00	0.17	0.29	0.00	0.29	0.04	4.70	0.594
A5F	0.48	0.00	0.00	0.23	0.23	0.00	0.23	0.01	1.68	0.478
B1F	0.48	0.00	0.00	0.19	0.27	0.00	0.27	0.04	3.86	0.564
B2F	0.48	0.00	0.00	0.26	0.21	0.00	0.21	0.00	0.22	0.430
B3F	0.48	0.00	0.00	0.11	0.34	0.00	0.34	0.00	0.41	0.711
B4F	0.48	0.00	0.00	0.14	0.32	0.00	0.32	0.00	0.47	0.657
B5F	0.48	0.00	0.00	0.12	0.33	0.00	0.33	0.01	1.20	0.694
B6F	0.48	0.00	0.00	0.19	0.27	0.00	0.27	0.02	2.68	0.565
B7F	0.48	0.00	0.00	0.18	0.28	0.00	0.28	0.01	0.67	0.575
B8F	0.48	0.00	0.00	0.14	0.31	0.00	0.31	0.00	0.21	0.653
B9F	0.48	0.00	0.00	0.07	0.38	0.00	0.38	0.01	1.51	0.795
C1F	0.48	0.00	0.00	0.27	0.20	0.00	0.20	0.05	5.42	0.410
D1F	0.48	0.00	0.00	0.27	0.20	0.00	0.20	0.04	4.41	0.412
D2F	0.48	0.00	0.00	0.25	0.22	0.00	0.22	0.00	0.45	0.454
JJ	0.48	0.00	0.00	0.40	0.07					

0.00	0.07	0.01	1.64	0.150				
MD2			0.48	0.00	0.00	0.26	0.21	
0.00	0.21	0.07	6.75	0.429				
MD5			0.48	0.00	0.00	0.42	0.05	
0.00	0.05	0.00	0.28	0.112				
ME			0.48	0.00	0.00	0.25	0.22	
0.00	0.22	0.02	2.25	0.451				
MO1			0.48	0.00	0.00	0.48	0.00	
0.00	0.00	0.00	0.00	0.000				
MO2			0.48	0.00	0.00	0.14	0.32	
0.00	0.32	0.00	0.54	0.655				
MO3			0.48	0.00	0.00	0.20	0.26	
0.00	0.26	0.01	1.19	0.549				
MO4			0.48	0.00	0.00	0.15	0.31	
0.00	0.31	0.01	0.74	0.642				
MO5			0.48	0.00	0.00	0.29	0.18	
0.00	0.18	0.29	27.25	0.366				
MO6			0.48	0.00	0.00	0.48	0.00	
0.00	0.00	0.00	0.00	0.000				
MO7A			0.48	0.00	0.00	0.34	0.14	
0.00	0.14	0.24	25.27	0.282				
MO7B			0.48	0.00	0.00	0.32	0.15	
0.00	0.15	0.08	8.56	0.315				
MO8			0.48	0.00	0.00	0.20	0.26	
0.00	0.26	0.01	1.16	0.540				

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min	Reported Max Depth Feet
1	JUNCTION	0.01	0.48	7298.84	0 00:45	0.48
2	JUNCTION	0.01	0.55	7297.87	0 00:45	0.54
3	JUNCTION	0.01	0.54	7287.11	0 00:45	0.52
4	JUNCTION	0.01	0.42	7305.53	0 00:45	0.41
5	JUNCTION	0.01	0.46	7306.39	0 00:45	0.46
6	JUNCTION	0.00	0.00	7306.71	0 00:00	0.00
23	JUNCTION	0.06	0.18	7305.81	0 02:13	0.18
24	JUNCTION	0.03	0.10	7305.25	0 02:14	0.10
27	JUNCTION	0.00	0.00	7267.94	0 00:00	0.00
28	JUNCTION	0.01	0.53	7266.91	0 00:45	0.53
29	JUNCTION	0.02	0.60	7267.16	0 00:45	0.59
30	JUNCTION	0.30	1.10	7267.88	0 00:45	1.10
31	JUNCTION	0.00	0.00	7272.09	0 00:00	0.00
32	JUNCTION	0.00	0.00	7277.02	0 00:00	0.00

33	JUNCTION	0.00	0.00	7279.33	0	00:00	0.00
34	JUNCTION	0.00	0.00	7278.07	0	00:00	0.00
35	JUNCTION	0.00	0.00	7268.24	0	00:00	0.00
36	JUNCTION	0.04	0.10	7270.40	0	02:22	0.10
37	JUNCTION	0.06	0.50	7267.28	0	00:51	0.49
38	JUNCTION	0.05	0.41	7263.44	0	00:52	0.41
39	JUNCTION	0.05	0.36	7259.40	0	00:52	0.36
40	JUNCTION	0.01	0.52	7277.28	0	00:45	0.50
41	JUNCTION	0.07	1.21	7285.61	0	00:47	1.17
42	JUNCTION	0.07	1.09	7284.72	0	00:47	1.06
43	JUNCTION	0.06	1.01	7282.83	0	00:48	1.00
44	JUNCTION	0.06	1.02	7277.51	0	00:48	1.02
45	JUNCTION	0.08	1.65	7269.59	0	00:45	1.63
46	JUNCTION	0.08	1.63	7265.62	0	00:45	1.56
47	JUNCTION	0.07	1.54	7264.51	0	00:46	1.45
48	JUNCTION	0.01	0.25	7300.98	0	00:45	0.25
49	JUNCTION	0.03	1.13	7271.63	0	00:45	1.13
54	JUNCTION	0.01	0.43	7300.00	0	00:45	0.43
55	JUNCTION	0.01	0.35	7309.93	0	00:45	0.34
56	JUNCTION	0.01	0.49	7310.77	0	00:45	0.49
59	JUNCTION	1.05	2.04	7268.20	0	00:45	2.01
61	JUNCTION	0.00	0.00	7315.51	0	00:00	0.00
62	JUNCTION	0.00	0.00	7311.98	0	00:00	0.00
63	JUNCTION	0.00	0.00	7308.96	0	00:00	0.00
64	JUNCTION	0.04	0.10	7271.26	0	02:20	0.10
F18	JUNCTION	0.01	0.34	7273.04	0	00:45	0.34
F8	JUNCTION	0.00	0.13	7268.77	0	00:45	0.13
pnd_4_Outlet	JUNCTION	0.04	0.13	7260.46	0	02:41	0.13
POND_3FUT	JUNCTION	0.01	0.44	7269.16	0	00:49	0.44
POND_5_OUT	JUNCTION	0.01	0.04	7266.87	0	02:13	0.04
CNTY_LN_RD	JUNCTION	0.06	0.56	7255.07	0	00:49	0.56
SITE_OUTFALL	OUTFALL	0.06	0.56	7254.56	0	00:49	0.56
RD_OVERTOP	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
EX-WETLAND	STORAGE	0.04	1.26	7258.24	0	00:49	1.25
POND_4B	STORAGE	0.66	2.85	7264.18	0	02:41	2.85
POND_4A	STORAGE	0.03	0.83	7265.09	0	00:50	0.83
POND_5	STORAGE	0.45	2.00	7271.33	0	02:13	2.00
POND_2	STORAGE	0.27	1.13	7274.46	0	02:20	1.13
POND_1B	STORAGE	0.40	1.48	7307.81	0	02:13	1.48
POND_1A	STORAGE	0.01	0.51	7316.51	0	00:45	0.51
BALD_MTN_DETENTION	STORAGE	0.03	0.58	7291.58	0	00:47	0.57
POND_3	STORAGE	0.01	0.38	7269.35	0	00:49	0.38

****
Node Inflow Summary
****

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-------------
                                  Maximum  Maximum                  Lateral
Total        Flow
                                  Lateral    Total  Time of Max      Inflow
Inflow     Balance
                                   Inflow   Inflow   Occurrence      Volume
Volume       Error
  Node                 Type           CFS      CFS  days hr:min    10^6 gal    10^6
gal     Percent

-------------------------------------------------------------------------------
-------------
  1                    JUNCTION      0.00     6.06     0  00:45           0
0.056      -0.003
  2                    JUNCTION      0.00     8.49     0  00:45           0
0.0809       0.001
  3                    JUNCTION      0.00     8.47     0  00:45           0
0.0809      -0.004
  4                    JUNCTION      0.00     2.67     0  00:45           0
0.025      -0.007
  5                    JUNCTION      2.68     2.68     0  00:45       0.025
0.025      -0.004
  6                    JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  23                   JUNCTION      0.00     0.25     0  02:13           0
0.128      -0.001
  24                   JUNCTION      0.00     0.25     0  02:13           0
0.128      -0.000
  27                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  28                   JUNCTION      4.41     4.41     0  00:45      0.0399
0.0399      -0.003
  29                   JUNCTION      0.00     6.88     0  00:45           0
0.0681      -0.002
  30                   JUNCTION      6.75     6.75     0  00:45      0.0681
0.0681       0.048
  31                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  32                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  33                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  34                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  35                   JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  36                   JUNCTION      0.00     0.15     0  02:20           0
0.1       0.000
  37                   JUNCTION      0.00     3.38     0  00:50           0
0.152       0.012
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  38                 JUNCTION      0.00     3.35     0  00:51           0
0.152      -0.021
  39                 JUNCTION      0.00     3.44     0  00:52           0
0.266       0.014
  40                 JUNCTION      0.00     8.47     0  00:45           0
0.0809       0.001
  41                 JUNCTION      0.00    22.84     0  00:47           0
0.416       0.001
  42                 JUNCTION      0.00    22.84     0  00:47           0
0.416      -0.002
  43                 JUNCTION      0.00    22.86     0  00:47           0
0.416      -0.003
  44                 JUNCTION      0.00    22.85     0  00:48           0
0.416      -0.004
  45                 JUNCTION      0.00    49.46     0  00:45           0
0.733      -0.029
  46                 JUNCTION      0.00    50.09     0  00:45           0
0.732      -0.001
  47                 JUNCTION      0.00    50.52     0  00:46           0
0.732      -0.000
  48                 JUNCTION      1.20     1.20     0  00:45      0.0101
0.0101      -0.001
  49                 JUNCTION     33.84    33.84     0  00:45       0.318
0.318      -0.002
  54                 JUNCTION      1.10     4.89     0  00:45     0.00895
0.0459       0.001
  55                 JUNCTION      0.00     3.86     0  00:45           0
0.037       0.000
  56                 JUNCTION      3.86     3.86     0  00:45       0.037
0.037      -0.003
  59                 JUNCTION      0.00    50.11     0  00:45           0
0.734       0.000
  61                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  62                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  63                 JUNCTION      0.00     0.00     0  00:00           0
 0       0.000 gal
  64                 JUNCTION      0.00     0.15     0  02:20           0
0.1      -0.023
  F18                JUNCTION      2.25     2.25     0  00:45      0.0189
0.0189       0.028
  F8                 JUNCTION      0.45     0.45     0  00:45     0.00361
0.00361      -0.036
  pnd_4_Outlet       JUNCTION      0.00     0.21     0  02:41           0
0.114      -0.011
  POND_3FUT          JUNCTION      0.00     3.30     0  00:50           0
0.0518       0.003
  POND_5_OUT         JUNCTION      0.00     0.03     0  02:13           0
0.0189      -0.041
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  CNTY_LN_RD           JUNCTION      0.00    51.11     0  00:49           0
1.04       0.002
  SITE_OUTFALL         OUTFALL       0.00    51.11     0  00:49           0
1.04       0.000
  RD_OVERTOP           OUTFALL       0.00     0.00     0  00:00           0
 0       0.000 gal
  EX-WETLAND           STORAGE       2.80    55.34     0  00:46       0.023
1.04      -0.007
  POND_4B              STORAGE       0.28     7.34     0  00:49     0.00231
0.113      -0.899
  POND_4A              STORAGE       0.00    11.24     0  00:45           0
0.108       0.888
  POND_5               STORAGE       0.00     2.24     0  00:45           0
0.0189      -0.037
  POND_2               STORAGE       2.39    10.62     0  00:45      0.0194
0.1       0.000
  POND_1B              STORAGE       8.43    14.00     0  00:45      0.0746
0.128       0.002
  POND_1A              STORAGE       6.03     6.03     0  00:45      0.0533
0.0533      -0.004
  BALD_MTN_DETENTION   STORAGE      27.25    27.34     0  00:45       0.288
0.416      -0.001
  POND_3               STORAGE       5.42     5.42     0  00:45      0.0518
0.0518      -0.003


  **********************
  Node Surcharge Summary
  **********************

  No nodes were surcharged.


  **********************
  Node Flooding Summary
  **********************

  No nodes were flooded.


  **********************
  Storage Volume Summary
  **********************


-------------------------------------------------------------------------------
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                         Average    Avg    Evap  Exfil     Maximum    Max    Time of
Max    Maximum
                          Volume    Pcnt    Pcnt   Pcnt      Volume    Pcnt
```

Occurrence	Outflow								
Storage Unit		1000 ft	Full	Loss	Loss	1000 ft	Full	days	
hr:min	CFS								
EX-WETLAND		0.139	0.0	0.0	0.0	6.221	2.2	0	
00:49	51.11								
POND_4B		2.527	5.8	0.0	0.0	12.691	29.2	0	
02:41	0.21								
POND_4A		0.118	0.2	0.0	0.0	3.670	6.4	0	
00:50	7.02								
POND_5		0.470	4.8	0.0	0.0	2.323	23.5	0	
02:13	0.03								
POND_2		2.950	4.8	0.0	0.0	12.422	20.1	0	
02:20	0.15								
POND_1B		3.154	1.8	0.0	0.0	15.498	9.0	0	
02:13	0.25								
POND_1A		0.004	0.0	0.0	0.0	0.250	1.0	0	
00:45	5.76								
BALD_MTN_DETENTION		0.127	0.0	0.0	0.0	4.434	0.3	0	
00:47	22.84								
POND_3		0.026	0.1	0.0	0.0	1.515	3.3	0	
00:49	3.30								

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal
SITE_OUTFALL	69.03	1.36	51.11	1.040
RD_OVERTOP	0.00	0.00	0.00	0.000
System	34.52	1.36	51.11	1.040

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth

26	CONDUIT	5.76	0	00:45	7.91	0.09	0.21
29	CONDUIT	50.57	0	00:46	8.45	0.12	0.24
51	CONDUIT	3.86	0	00:45	5.76	0.08	0.19
L8	CONDUIT	0.44	0	00:45	5.76	0.02	0.33
54	CONDUIT	0.03	0	02:13	2.39	0.00	0.03
BLD_MTN_OF	CONDUIT	22.84	0	00:47	23.62	0.08	0.19
C1	CONDUIT	2.51	0	00:46	5.18	0.10	0.21
EX_MISTY_AC_BLVD_PIPE	CONDUIT	0.25	0	02:14	3.25	0.00	0.02
L1	CONDUIT	3.44	0	00:52	6.06	0.02	0.09
L10	CONDUIT	4.40	0	00:45	5.79	0.10	0.21
L11	CONDUIT	0.00	0	00:00	0.00	0.00	0.01
L12	CONDUIT	6.89	0	00:45	6.92	0.09	0.20
L13	CONDUIT	6.88	0	00:45	4.47	0.16	0.35
L14	CONDUIT	0.00	0	00:00	0.00	0.00	0.17
L15	CONDUIT	0.00	0	00:00	0.00	0.00	0.17
L16	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L17	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L18	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L2	CONDUIT	0.21	0	02:42	1.95	0.00	0.04
L20	CONDUIT	2.24	0	00:45	7.41	0.11	0.23
L22	CONDUIT	50.52	0	00:46	7.85	0.14	0.25
L23	CONDUIT	50.09	0	00:45	10.26	0.06	0.21
L24	CONDUIT	50.11	0	00:45	7.18	0.14	0.26
L25	CONDUIT	33.90	0	00:45	10.96	0.14	0.25
L26	CONDUIT	22.81	0	00:49	8.99	0.14	0.26
L27	CONDUIT	22.85	0	00:48	9.11	0.14	0.25
L28	CONDUIT	22.86	0	00:47	8.24	0.16	0.27
L29	CONDUIT	22.84	0	00:47	8.52	0.34	0.40
L3	CONDUIT	3.35	0	00:52	5.73	0.04	0.14
L30	CONDUIT	8.48	0	00:45	9.47	0.05	0.15
L31	CONDUIT	8.47	0	00:45	9.02	0.05	0.15
L32	CONDUIT	2.67	0	00:45	4.86	0.12	0.23
L33	CONDUIT	0.00	0	00:00	0.00	0.00	0.05
L34	CONDUIT	6.07	0	00:45	8.31	0.06	0.16
L35	CONDUIT	1.20	0	00:45	6.38	0.06	0.16
L36	CONDUIT	4.89	0	00:45	7.83	0.04	0.14
L38	CONDUIT	3.82	0	00:45	9.27	0.04	0.14
L4	CONDUIT	3.35	0	00:51	4.35	0.06	0.17
L44	CONDUIT	0.25	0	02:13	1.91	0.02	0.09
L45	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L46	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L47	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
L5	CONDUIT	3.30	0	00:50	7.57	0.19	0.29
L53	CONDUIT	8.47	0	00:45	8.76	0.05	0.16
L6	CONDUIT	0.15	0	02:22	1.91	0.00	0.03
L7	CONDUIT	0.15	0	02:20	1.95	0.00	0.03
L9	CONDUIT	7.02	0	00:50	4.94	0.24	0.35
58	CONDUIT	51.11	0	00:49	10.99	0.00	0.06
GRATE	ORIFICE	0.00	0	00:00			
PND_5_OF_1	ORIFICE	0.02	0	02:13			1.00

PND_5_OF_2	ORIFICE	0.01	0	02:13	1.00
PND_5_OF_3	ORIFICE	0.00	0	00:00	0.00
PND_5_OF_4	ORIFICE	0.00	0	00:00	0.00
PND_4B_OF_1	ORIFICE	0.13	0	02:41	1.00
PND_4B_OF_2	ORIFICE	0.05	0	02:41	1.00
PND_4B_OF_3	ORIFICE	0.03	0	02:41	1.00
PND_4B_OF_4	ORIFICE	0.00	0	00:00	0.00
PND_4B_OF_5	ORIFICE	0.00	0	00:00	0.00
PND_4B_GRATE	ORIFICE	0.00	0	00:00	
PND_5_GRATE	ORIFICE	0.00	0	00:00	
PND_2_OF_1	ORIFICE	0.13	0	02:20	1.00
PND_2_OF_2	ORIFICE	0.02	0	02:20	1.00
PND_2_OF_3	ORIFICE	0.00	0	00:00	0.00
PND_2_GRATE	ORIFICE	0.00	0	00:00	
PND_1_OF_1	ORIFICE	0.04	0	02:13	1.00
PND_1_OF_2	ORIFICE	0.04	0	02:13	1.00
PND_1_OF_3	ORIFICE	0.04	0	02:13	1.00
PND_1_OF_4	ORIFICE	0.03	0	02:13	1.00
PND_1_OF_5	ORIFICE	0.03	0	02:13	1.00
PND_1_OF_6	ORIFICE	0.04	0	02:13	1.00
PND_1_OF_7	ORIFICE	0.04	0	02:13	1.00
PND_1_OF_8	ORIFICE	0.00	0	00:00	0.00
PND_1_OF_9	ORIFICE	0.00	0	00:00	0.00
PND_1_OF_10	ORIFICE	0.00	0	00:00	0.00
PND_1_OF_11	ORIFICE	0.00	0	00:00	0.00
PND_1_GRATE	ORIFICE	0.00	0	00:00	
PND_3_OF_1	ORIFICE	0.03	0	00:49	1.00
PND_3_OF_2	ORIFICE	0.00	0	00:00	0.00
PND_3_OF_3	ORIFICE	0.00	0	00:00	0.00
PND3_GRATE	ORIFICE	3.27	0	00:50	
CNTY_LN_RD_CULV_1_EX	ORIFICE	16.35	0	00:49	0.31
CNTY_LN_RD_CULV_2	ORIFICE	16.35	0	00:49	0.31
CNTY_LN_RD_CULV_3	ORIFICE	18.40	0	00:49	0.28
CTY_LN_RD	WEIR	0.00	0	00:00	0.00

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class: Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl

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--------------------------------------------------------------------------------
-
  26                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  29                      1.00   0.26  0.00  0.00  0.00  0.00  0.00  0.74  0.00
0.00
  51                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L8                      1.00   0.00  0.02  0.00  0.02  0.00  0.00  0.96  1.00
0.00
  54                      1.00   0.01  0.00  0.00  0.00  0.00  0.00  0.99  0.00
0.00
  BLD_MTN_OF              1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  C1                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  EX_MISTY_AC_BLVD_PIPE    1.00   0.23  0.00  0.00  0.00  0.00  0.00  0.77  0.00
0.00
  L1                      1.00   0.11  0.00  0.00  0.00  0.00  0.00  0.89  0.00
0.00
  L10                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L11                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L12                     1.00   0.08  0.00  0.00  0.00  0.00  0.00  0.92  0.00
0.00
  L13                     1.00   0.00  0.00  0.00  0.00  0.00  1.00  0.00  0.00
0.00
  L14                     1.00   0.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L15                     1.00   0.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L16                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L17                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L18                     1.00   1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
0.00
  L2                      1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L20                     1.00   0.00  0.00  0.00  0.01  0.00  0.00  0.99  0.01
0.00
  L22                     1.00   0.00  0.00  0.00  0.00  0.00  0.00  1.00  0.00
0.00
  L23                     1.00   0.00  0.14  0.00  0.80  0.06  0.00  0.00  1.00
0.00
  L24                     1.00   0.00  0.73  0.00  0.26  0.00  0.00  0.00  1.00
0.00
  L25                     1.00   0.11  0.00  0.00  0.00  0.00  0.00  0.89  0.00
0.00
```

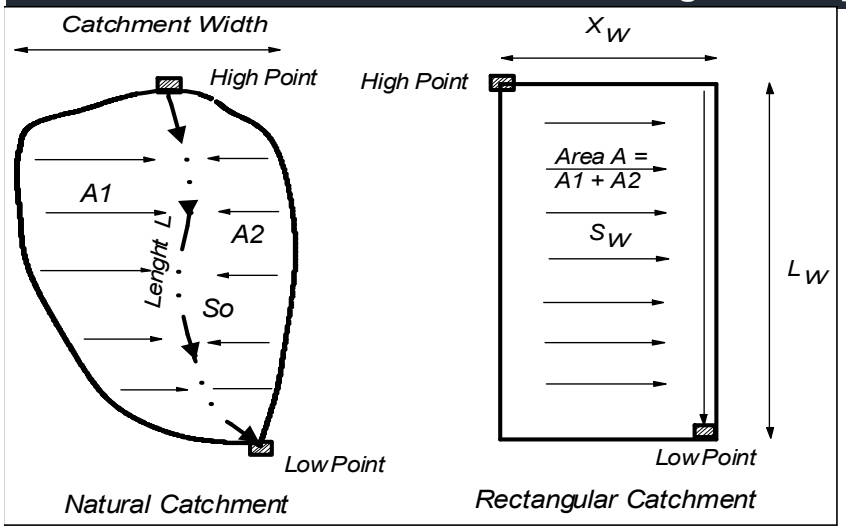
L26	1.00	0.28	0.00	0.00	0.00	0.00	0.00	0.72	0.00
0.00									
L27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L28	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L29	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L3	1.00	0.12	0.00	0.00	0.00	0.00	0.00	0.88	0.00
0.00									
L30	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
0.00									
L31	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00
0.00									
L32	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L33	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L34	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L35	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L36	1.00	0.38	0.00	0.00	0.00	0.00	0.00	0.62	0.00
0.00									
L38	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
0.00									
L4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L45	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L46	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L47	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00									
L5	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00
0.00									
L53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
0.00									
L9	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.94	0.06
0.00									
58	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
0.00									

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Sat May 9 20:29:26 2026
Analysis ended on: Sat May 9 20:29:31 2026
Total elapsed time: 00:00:05

Convert Natural Catchment to a Rectangular Shape



Subcatchment Center	Z=0.5
Side Collector	Z=1
Skewed Location	0.5<Z<1

Dimensionless Variables

$$Y = \frac{L}{L_w}; \qquad X = \frac{A}{L^2}$$

$$Y = (1.5 - Z)(2.286X - 0.286X^2)$$

$$\frac{Lw}{L} = (1.5 - Z)[2.286(\frac{A}{L^2}) - 0.286(\frac{A}{L^2})^2]$$

$$S_o/S_w = A/(LL_w) + L_w/L$$

$$X_w = A/L_w$$

Subarea ID	Area acre	A1 acre	A2 acre	L ft	High Pt Elev. ft	Low Pt Elev. ft	Z=Am/A	X=A/L²	Y=Lw/L	Lw ft	Xw ft	So %	So/Sw	Sw %
A1F	6.55	2.77	3.78	863	354.2	322.0	0.58	0.38	0.77	664	430	3.73	1.27	2.94
A2F	2.41	0.12	2.29	174	352.4	338.8	0.95	3.47	2.47	429	245	7.82	3.87	2.02
A3F	1.18	0.71	0.47	331	343.6	316.3	0.60	0.47	0.91	301	171	8.26	1.43	5.79
A4F	4.65	2.85	1.80	748	352.9	322.7	0.61	0.36	0.70	524	386	4.04	1.22	3.32
A5F	2.22	1.48	0.74	355	328.1	307.2	0.67	0.77	1.32	469	206	5.89	1.90	3.10
B1F	5.02	1.11	3.91	917	349.8	316.3	0.78	0.26	0.41	380	575	3.65	1.04	3.51
B2F	0.31	0.09	0.22	160	327.9	321.6	0.71	0.53	0.89	142	95	3.94	1.48	2.66
B3F	0.36	0.11	0.25	172	324.7	315.8	0.69	0.53	0.91	157	100	5.17	1.49	3.47
B4F	0.45	0.15	0.30	205	321.2	313.9	0.67	0.47	0.84	172	114	3.56	1.39	2.55
B5F	1.11	0.34	0.77	260	316.7	304.2	0.69	0.72	1.20	312	155	4.81	1.80	2.68
B6F	3.38	1.53	1.85	1,493	371.8	311.3	0.55	0.07	0.14	213	691	4.05	0.61	6.69
B7F	0.74	0.44	0.30	254	314.6	307.7	0.59	0.50	0.97	246	131	2.72	1.48	1.83
B8F	0.20	0.08	0.12	125	303.7	299.9	0.60	0.56	1.07	133	65	3.04	1.59	1.91
B9F	2.94	2.12	0.82	407	374.1	298.1	0.72	0.77	1.24	506	253	18.67	1.87	10.01
C1F	9.66	1.56	8.10	1,160	328.3	279.5	0.84	0.31	0.45	527	798	4.21	1.14	3.68
D1F	7.42	3.24	4.18	1,230	312.6	273.2	0.56	0.21	0.45	548	590	3.20	0.93	3.46
D2F	0.61	0.36	0.25	229	288.2	273.1	0.59	0.51	0.99	226	118	6.59	1.50	4.39
MO1	7.52	3.53	3.99	887	378.1	329.6	0.53	0.42	0.87	776	422	5.47	1.35	4.05
MO2	0.51	0.21	0.30	149	355.2	348.8	0.59	1.00	1.82	272	82	4.30	2.37	1.81
MO3	1.37	0.69	0.68	311	390.6	359.5	0.50	0.62	1.30	403	148	10.00	1.77	5.64
MO4	0.74	0.14	0.60	244	356.6	348.5	0.81	0.54	0.80	194	166	3.32	1.48	2.25

100-Year; 99%; 120 Hours

Table - Node South_Detention Max Volume(CF)= 143179.8

Table - Node EX-WETLAND

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	44.74	0.03%
0	0:15:00	897.77	0.63%
0	0:20:00	3899.95	2.72%
0	0:25:00	5832.93	4.07%
0	0:30:00	8611.03	6.01%
0	0:35:00	13481.71	9.42%
0	0:40:00	26336.96	18.39%
0	0:45:00	68603.14	47.91%
0	0:50:00	123548.6	86.29%
0	0:55:00	142979.6	99.86%
0	1:00:00	143179.8	100.00%
0	1:05:00	130295.1	91.00%
0	1:10:00	111533.7	77.90%
0	1:15:00	89100.12	62.23%
0	1:20:00	64654.64	45.16%
0	1:25:00	44508.36	31.09%
0	1:30:00	29147.22	20.36%
0	1:35:00	20059.78	14.01%
0	1:40:00	14571.96	10.18%
0	1:45:00	11171.21	7.80%
0	1:50:00	8889.77	6.21%
0	1:55:00	6423.84	4.49%
0	2:00:00	5357.89	3.74%
0	2:05:00	5357.56	3.74%
0	2:10:00	5356.5	3.74%
0	2:15:00	4737.06	3.31%
0	2:20:00	3708.9	2.59%
0	2:25:00	2912.94	2.03%
0	2:30:00	2325.88	1.62%
0	2:35:00	1890.18	1.32%
0	2:40:00	1605.66	1.12%
0	2:45:00	1370.85	0.96%
0	2:50:00	1232.79	0.86%
0	2:55:00	1126.86	0.79%
0	3:00:00	1048.02	0.73%

5-Year: 97%; 72 Hours

0 Max Volume(CF)= 44417.2

Table - Node EX-WETLAND

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	14.18	0.03%
0	0:15:00	252.34	0.57%
0	0:20:00	1301.23	2.93%
0	0:25:00	3530.09	7.95%
0	0:30:00	5360.75	12.07%
0	0:35:00	6736.09	15.17%
0	0:40:00	12333.37	27.77%
0	0:45:00	29016.03	65.33%
0	0:50:00	44417.2	100.00%
0	0:55:00	40588.26	91.38%
0	1:00:00	31462.05	70.83%
0	1:05:00	23006.98	51.80%
0	1:10:00	17101.12	38.50%
0	1:15:00	13159.13	29.63%
0	1:20:00	9471.43	21.32%
0	1:25:00	6442.12	14.50%
0	1:30:00	5357.51	12.06%
0	1:35:00	5356.57	12.06%
0	1:40:00	5055.28	11.38%
0	1:45:00	4482.6	10.09%
0	1:50:00	4067.59	9.16%
0	1:55:00	3827.59	8.62%
0	2:00:00	3656.61	8.23%
0	2:05:00	3575.91	8.05%
0	2:10:00	3413.48	7.69%
0	2:15:00	2926.15	6.59%
0	2:20:00	2408.05	5.42%
0	2:25:00	1959.87	4.41%
0	2:30:00	1659.76	3.74%
0	2:35:00	1403.82	3.16%
0	2:40:00	1258.58	2.83%
0	2:45:00	1140.41	2.57%
0	2:50:00	1047.71	2.36%
0	2:55:00	960.75	2.16%
0	3:00:00	917.51	2.07%

EURV 97% 72 Hours

Max Volume(CF)= 24850.58

Table - Node EX-WETLAND

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	8.89	0.04%
0	0:15:00	97.14	0.39%
0	0:20:00	541.15	2.18%
0	0:25:00	1746.1	7.03%
0	0:30:00	3916.25	15.76%
0	0:35:00	5359.17	21.57%
0	0:40:00	7643.73	30.76%
0	0:45:00	17398.3	70.01%
0	0:50:00	24850.58	100.00%
0	0:55:00	19628.21	78.98%
0	1:00:00	12865.39	51.77%
0	1:05:00	8505.83	34.23%
0	1:10:00	5471.23	22.02%
0	1:15:00	5356.26	21.55%
0	1:20:00	5138.22	20.68%
0	1:25:00	4345.99	17.49%
0	1:30:00	3756.73	15.12%
0	1:35:00	3340.34	13.44%
0	1:40:00	3039.95	12.23%
0	1:45:00	2829.73	11.39%
0	1:50:00	2691.34	10.83%
0	1:55:00	2571.67	10.35%
0	2:00:00	2495.34	10.04%
0	2:05:00	2452.11	9.87%
0	2:10:00	2344.38	9.43%
0	2:15:00	2020.46	8.13%
0	2:20:00	1732.93	6.97%
0	2:25:00	1429.91	5.75%
0	2:30:00	1255.42	5.05%
0	2:35:00	1109.68	4.47%
0	2:40:00	971.94	3.91%
0	2:45:00	899.03	3.62%
0	2:50:00	827.89	3.33%
0	2:55:00	776.84	3.13%
0	3:00:00	734.88	2.96%

100-Year; 99%; 120 Hours

Table - Node South_Detention Max Volume(CF)= 55234.12

Table - Node BALD_MTN_DETENTION

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	75.85	0.14%
0	0:15:00	972.21	1.76%
0	0:20:00	2483.7	4.50%
0	0:25:00	3973.68	7.19%
0	0:30:00	5749.12	10.41%
0	0:35:00	7967.75	14.43%
0	0:40:00	15230.52	27.57%
0	0:45:00	39684.77	71.85%
0	0:50:00	55234.12	100.00%
0	0:55:00	54536.8	98.74%
0	1:00:00	49662.31	89.91%
0	1:05:00	41420.45	74.99%
0	1:10:00	33614.74	60.86%
0	1:15:00	24938.79	45.15%
0	1:20:00	16343.9	29.59%
0	1:25:00	10816.94	19.58%
0	1:30:00	8163.33	14.78%
0	1:35:00	6600.9	11.95%
0	1:40:00	5407.99	9.79%
0	1:45:00	4516.78	8.18%
0	1:50:00	3818.71	6.91%
0	1:55:00	3255.3	5.89%
0	2:00:00	2832.17	5.13%
0	2:05:00	2544.85	4.61%
0	2:10:00	2038.35	3.69%
0	2:15:00	1507.96	2.73%
0	2:20:00	1160.31	2.10%
0	2:25:00	930.11	1.68%
0	2:30:00	770.63	1.40%
0	2:35:00	661.47	1.20%
0	2:40:00	583.52	1.06%
0	2:45:00	533.58	0.97%
0	2:50:00	501.97	0.91%
0	2:55:00	479.84	0.87%
0	3:00:00	463.37	0.84%
0	3:05:00	450.61	0.82%
0	3:10:00	440.48	0.80%

5-Year: 97%; 72 Hours

0 Max Volume(CF)= 18711.13

Table - Node BALD_MTN_DETENTION

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	34.38	0.18%
0	0:15:00	324.62	1.73%
0	0:20:00	1084.83	5.80%
0	0:25:00	2077.68	11.10%
0	0:30:00	3281.22	17.54%
0	0:35:00	4695.44	25.09%
0	0:40:00	8135.79	43.48%
0	0:45:00	16803.51	89.80%
0	0:50:00	18711.13	100.00%
0	0:55:00	12980.95	69.38%
0	1:00:00	8883.19	47.48%
0	1:05:00	6766.94	36.17%
0	1:10:00	5584.02	29.84%
0	1:15:00	4383.32	23.43%
0	1:20:00	3316.2	17.72%
0	1:25:00	2598.39	13.89%
0	1:30:00	2112.43	11.29%
0	1:35:00	1796.6	9.60%
0	1:40:00	1553.76	8.30%
0	1:45:00	1421.8	7.60%
0	1:50:00	1364.65	7.29%
0	1:55:00	1318.98	7.05%
0	2:00:00	1293.76	6.91%
0	2:05:00	1297.32	6.93%
0	2:10:00	1153.09	6.16%
0	2:15:00	943.69	5.04%
0	2:20:00	787.06	4.21%
0	2:25:00	681.9	3.64%
0	2:30:00	608.89	3.25%
0	2:35:00	555.06	2.97%
0	2:40:00	515.85	2.76%
0	2:45:00	486.95	2.60%
0	2:50:00	465.21	2.49%
0	2:55:00	448.52	2.40%
0	3:00:00	435.43	2.33%
0	3:05:00	424.99	2.27%
0	3:10:00	416.52	2.23%

EURV 97% 72 Hours

Max Volume(CF)=

Table - Node BALD_MTN_DETENTION

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	20.13	0.19%
0	0:15:00	152.14	1.41%
0	0:20:00	563.97	5.23%
0	0:25:00	1245.38	11.55%
0	0:30:00	2181.33	20.23%
0	0:35:00	3278.27	30.41%
0	0:40:00	5679.2	52.67%
0	0:45:00	10781.8	100.00%
0	0:50:00	10580.77	98.14%
0	0:55:00	7281.67	67.54%
0	1:00:00	5003.63	46.41%
0	1:05:00	3719.37	34.50%
0	1:10:00	3001.58	27.84%
0	1:15:00	2356.3	21.85%
0	1:20:00	1841.93	17.08%
0	1:25:00	1530.48	14.20%
0	1:30:00	1351.78	12.54%
0	1:35:00	1235.85	11.46%
0	1:40:00	1148.12	10.65%
0	1:45:00	1095.65	10.16%
0	1:50:00	1050.69	9.75%
0	1:55:00	1017.32	9.44%
0	2:00:00	1000.59	9.28%
0	2:05:00	991.07	9.19%
0	2:10:00	887.86	8.23%
0	2:15:00	739.75	6.86%
0	2:20:00	626.41	5.81%
0	2:25:00	541.61	5.02%
0	2:30:00	480.23	4.45%
0	2:35:00	435.94	4.04%
0	2:40:00	403.43	3.74%
0	2:45:00	379.01	3.52%
0	2:50:00	359.6	3.34%
0	2:55:00	343.51	3.19%
0	3:00:00	330.22	3.06%
0	3:05:00	319.18	2.96%
0	3:10:00	309.94	2.87%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 1A (UPPER PORTION)

Max Volume(CF)= 2091.26

Table - Node POND_1A

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	7.03	0.34%
0	0:15:00	40.92	1.96%
0	0:20:00	50	2.39%
0	0:25:00	57.6	2.75%
0	0:30:00	75.62	3.62%
0	0:35:00	95.97	4.59%
0	0:40:00	440.8	21.08%
0	0:45:00	1972.96	94.34%
0	0:50:00	2091.26	100.00%
0	0:55:00	1672.64	79.98%
0	1:00:00	1259.95	60.25%
0	1:05:00	987.2	47.21%
0	1:10:00	795.49	38.04%
0	1:15:00	577.97	27.64%
0	1:20:00	426.88	20.41%
0	1:25:00	318.79	15.24%
0	1:30:00	243.05	11.62%
0	1:35:00	187.03	8.94%
0	1:40:00	137.69	6.58%
0	1:45:00	104.99	5.02%
0	1:50:00	76.65	3.67%
0	1:55:00	55.41	2.65%
0	2:00:00	38.92	1.86%
0	2:05:00	28.3	1.35%
0	2:10:00	12.92	0.62%
0	2:15:00	5.54	0.26%
0	2:20:00	3.43	0.16%

5-Year: 97%; 72 Hours

0

Max Volume(CF)= 506.89

Table - Node POND_1A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	4.45	0.88%
0	0:15:00	22.11	4.36%
0	0:20:00	32.83	6.48%
0	0:25:00	38.82	7.66%
0	0:30:00	50.57	9.98%
0	0:35:00	63.46	12.52%
0	0:40:00	115.43	22.77%
0	0:45:00	506.89	100.00%
0	0:50:00	505.78	99.78%
0	0:55:00	437.21	86.25%
0	1:00:00	354.01	69.84%
0	1:05:00	290.33	57.28%
0	1:10:00	239.35	47.22%
0	1:15:00	168.79	33.30%
0	1:20:00	115.22	22.73%
0	1:25:00	76.42	15.08%
0	1:30:00	48.98	9.66%
0	1:35:00	30.4	6.00%
0	1:40:00	17.64	3.48%
0	1:45:00	15.07	2.97%
0	1:50:00	14.87	2.93%
0	1:55:00	14.25	2.81%
0	2:00:00	14.46	2.85%
0	2:05:00	15.09	2.98%
0	2:10:00	9.08	1.79%
0	2:15:00	4.87	0.96%
0	2:20:00	3.15	0.62%

EURV 97% 72 Hours

Max Volume(CF)= 194.53

Table - Node POND_1A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	3.21	1.65%
0	0:15:00	8.85	4.55%
0	0:20:00	22.63	11.63%
0	0:25:00	29.93	15.39%
0	0:30:00	39.24	20.17%
0	0:35:00	48.95	25.16%
0	0:40:00	82.8	42.56%
0	0:45:00	194.53	100.00%
0	0:50:00	147.66	75.91%
0	0:55:00	104.61	53.78%
0	1:00:00	70.69	36.34%
0	1:05:00	49.72	25.56%
0	1:10:00	34.68	17.83%
0	1:15:00	20.06	10.31%
0	1:20:00	14.82	7.62%
0	1:25:00	13.63	7.01%
0	1:30:00	13.33	6.85%
0	1:35:00	12.85	6.61%
0	1:40:00	12.16	6.25%
0	1:45:00	12.34	6.34%
0	1:50:00	11.65	5.99%
0	1:55:00	11.64	5.98%
0	2:00:00	11.81	6.07%
0	2:05:00	11.84	6.09%
0	2:10:00	7.65	3.93%
0	2:15:00	4.46	2.29%
0	2:20:00	2.93	1.51%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 1B (LOWER PORTION)

Max Volume(CF)= 100325.5

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	56.19	0.06%
0	0:15:00	921.7	0.92%
0	0:20:00	3167.04	3.16%
0	0:25:00	6369.55	6.35%
0	0:30:00	10816	10.78%
0	0:35:00	17149.25	17.09%
0	0:40:00	30555.08	30.46%
0	0:45:00	62348.97	62.15%
0	0:50:00	89188.03	88.90%
0	0:55:00	100325.5	100.00%
0	1:00:00	100098.8	99.77%
0	1:05:00	95047.21	94.74%
0	1:10:00	88028.72	87.74%
0	1:15:00	79548.37	79.29%
0	1:20:00	73527.3	73.29%
0	1:25:00	69965.88	69.74%
0	1:30:00	67712.68	67.49%
0	1:35:00	66244.1	66.03%
0	1:40:00	65184.65	64.97%
0	1:45:00	64400.95	64.19%
0	1:50:00	63833.67	63.63%
0	1:55:00	63380.23	63.17%
0	2:00:00	63045.61	62.84%
0	2:05:00	62820.38	62.62%
0	2:10:00	62467.45	62.26%
0	2:15:00	61913.18	61.71%
0	2:20:00	61404.71	61.21%
0	2:25:00	60975.18	60.78%
0	2:30:00	60615.88	60.42%
0	2:35:00	60311.37	60.12%
0	2:40:00	60047.13	59.85%
0	2:45:00	59810.93	59.62%
0	2:50:00	59589.42	59.40%
0	2:55:00	59367.45	59.17%
0	3:00:00	59143.78	58.95%
0	3:05:00	58919.21	58.73%
0	3:10:00	58694.33	58.50%
0	3:15:00	58469.54	58.28%
0	3:20:00	58245.21	58.06%
0	3:25:00	58021.79	57.83%
0	3:30:00	57799.41	57.61%
0	3:35:00	57577.78	57.39%
0	3:40:00	57357.45	57.17%
0	3:45:00	57138.68	56.95%
0	3:50:00	56920.96	56.74%
0	3:55:00	56705.16	56.52%
0	4:00:00	56490.64	56.31%
0	4:05:00	56277.88	56.10%
0	4:10:00	56067.04	55.89%
0	4:15:00	55857.78	55.68%
0	4:20:00	55650.36	55.47%
0	4:25:00	55444.96	55.27%
0	4:30:00	55241.63	55.06%
0	4:35:00	55040.8	54.86%
0	4:40:00	54842.82	54.66%
0	4:45:00	54647.58	54.47%
0	4:50:00	54455.02	54.28%
0	4:55:00	54265.09	54.09%
0	5:00:00	54077.74	53.90%
0	5:05:00	53892.89	53.72%
0	5:10:00	53710.33	53.54%
0	5:15:00	53529.97	53.36%
0	5:20:00	53351.97	53.18%
0	5:25:00	53176.09	53.00%
0	5:30:00	53002.15	52.83%
0	5:35:00	52830.36	52.66%
0	5:40:00	52660.3	52.49%
0	5:45:00	52492.23	52.32%
0	5:50:00	52325.77	52.16%
0	5:55:00	52161.05	51.99%
0	6:00:00	51997.95	51.83%
0	6:05:00	51836.26	51.67%

5-Year: 97%; 72 Hours

0

Max Volume(CF)= 52219.19

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	19.02	0.04%
0	0:15:00	202.33	0.39%
0	0:20:00	753.31	1.44%
0	0:25:00	1636.63	3.13%
0	0:30:00	2876.11	5.51%
0	0:35:00	4610.98	8.83%
0	0:40:00	7682.15	14.71%
0	0:45:00	15556.88	29.79%
0	0:50:00	25822.47	49.45%
0	0:55:00	33082.49	63.35%
0	1:00:00	38651.24	74.02%
0	1:05:00	42939.69	82.23%
0	1:10:00	46382.73	88.82%
0	1:15:00	48878.83	93.60%
0	1:20:00	50398.02	96.51%
0	1:25:00	51318.5	98.28%
0	1:30:00	51835.16	99.26%
0	1:35:00	52095.02	99.76%
0	1:40:00	52188.07	99.94%
0	1:45:00	52202.5	99.97%
0	1:50:00	52215.19	99.99%
0	1:55:00	52215.78	99.99%
0	2:00:00	52211.92	99.99%
0	2:05:00	52219.19	100.00%
0	2:10:00	52158.43	99.88%
0	2:15:00	51988.41	99.56%
0	2:20:00	51784.43	99.17%
0	2:25:00	51566.52	98.75%
0	2:30:00	51341.72	98.32%
0	2:35:00	51113.2	97.88%
0	2:40:00	50882.58	97.44%
0	2:45:00	50650.78	97.00%
0	2:50:00	50418.31	96.55%
0	2:55:00	50185.52	96.11%
0	3:00:00	49952.64	95.66%
0	3:05:00	49719.83	95.21%
0	3:10:00	49487.19	94.77%
0	3:15:00	49254.81	94.32%
0	3:20:00	49022.76	93.88%
0	3:25:00	48791.13	93.44%
0	3:30:00	48559.84	92.99%
0	3:35:00	48329.06	92.55%
0	3:40:00	48098.67	92.11%
0	3:45:00	47868.77	91.67%
0	3:50:00	47639.38	91.23%
0	3:55:00	47410.5	90.79%
0	4:00:00	47182.13	90.35%
0	4:05:00	46954.3	89.92%
0	4:10:00	46726.95	89.48%
0	4:15:00	46500.16	89.05%
0	4:20:00	46273.94	88.61%
0	4:25:00	46048.22	88.18%
0	4:30:00	45823.07	87.75%
0	4:35:00	45598.5	87.32%
0	4:40:00	45374.46	86.89%
0	4:45:00	45150.98	86.46%
0	4:50:00	44928.06	86.04%
0	4:55:00	44705.72	85.61%
0	5:00:00	44483.95	85.19%
0	5:05:00	44262.75	84.76%
0	5:10:00	44042.13	84.34%
0	5:15:00	43822.09	83.92%
0	5:20:00	43602.62	83.50%
0	5:25:00	43383.71	83.08%
0	5:30:00	43165.39	82.66%
0	5:35:00	42947.67	82.24%
0	5:40:00	42730.5	81.83%
0	5:45:00	42513.95	81.41%
0	5:50:00	42297.96	81.00%
0	5:55:00	42082.57	80.59%
0	6:00:00	41867.77	80.18%
0	6:05:00	41653.56	79.77%

EURV 97% 72 Hours

Max Volume(CF)= 47944.59

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	15.12	0.03%
0	0:15:00	119.09	0.25%
0	0:20:00	553.55	1.15%
0	0:25:00	1553.27	3.24%
0	0:30:00	3226.39	6.73%
0	0:35:00	5720.7	11.93%
0	0:40:00	10076.17	21.02%
0	0:45:00	19255.15	40.16%
0	0:50:00	29555.15	61.64%
0	0:55:00	35279.59	73.58%
0	1:00:00	38871.66	81.08%
0	1:05:00	41315.83	86.17%
0	1:10:00	43201.54	90.11%
0	1:15:00	44521.39	92.86%
0	1:20:00	45286.34	94.46%
0	1:25:00	45786.46	95.50%
0	1:30:00	46153.78	96.26%
0	1:35:00	46460.34	96.90%
0	1:40:00	46725.7	97.46%
0	1:45:00	46970.31	97.97%
0	1:50:00	47198.53	98.44%
0	1:55:00	47404.66	98.87%
0	2:00:00	47611.7	99.31%
0	2:05:00	47818.66	99.74%
0	2:10:00	47944.59	100.00%
0	2:15:00	47932.93	99.98%
0	2:20:00	47859.03	99.82%
0	2:25:00	47752.91	99.60%
0	2:30:00	47627.65	99.34%
0	2:35:00	47490.25	99.05%
0	2:40:00	47345	98.75%
0	2:45:00	47194.61	98.44%
0	2:50:00	47040.5	98.11%
0	2:55:00	46883.72	97.79%
0	3:00:00	46725.01	97.46%
0	3:05:00	46564.92	97.12%
0	3:10:00	46403.83	96.79%
0	3:15:00	46242.04	96.45%
0	3:20:00	46079.74	96.11%
0	3:25:00	45917.14	95.77%
0	3:30:00	45754.44	95.43%
0	3:35:00	45591.75	95.09%
0	3:40:00	45429	94.75%
0	3:45:00	45266.32	94.41%
0	3:50:00	45103.95	94.08%
0	3:55:00	44941.68	93.74%
0	4:00:00	44779.73	93.40%
0	4:05:00	44618.06	93.06%
0	4:10:00	44456.73	92.73%
0	4:15:00	44295.7	92.39%
0	4:20:00	44135.16	92.05%
0	4:25:00	43974.9	91.72%
0	4:30:00	43815.08	91.39%
0	4:35:00	43655.75	91.05%
0	4:40:00	43496.85	90.72%
0	4:45:00	43338.36	90.39%
0	4:50:00	43180.33	90.06%
0	4:55:00	43022.78	89.73%
0	5:00:00	42865.72	89.41%
0	5:05:00	42709.16	89.08%
0	5:10:00	42553.12	88.75%
0	5:15:00	42397.58	88.43%
0	5:20:00	42242.56	88.11%
0	5:25:00	42088.03	87.78%
0	5:30:00	41934	87.46%
0	5:35:00	41780.54	87.14%
0	5:40:00	41627.66	86.82%
0	5:45:00	41475.25	86.51%
0	5:50:00	41323.39	86.19%
0	5:55:00	41172.14	85.87%
0	6:00:00	41021.36	85.56%
0	6:05:00	40871.23	85.25%

WQCV: 40 Hours Minimum

Max Volume(CF)= 15910.89

Table - Node POND_1B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	3.55	0.02%
0	0:15:00	30.74	0.19%
0	0:20:00	100.84	0.63%
0	0:25:00	211.62	1.33%
0	0:30:00	506.65	3.18%
0	0:35:00	1216.28	7.64%
0	0:40:00	2733.34	17.18%
0	0:45:00	5864.41	36.86%
0	0:50:00	9239.63	58.07%
0	0:55:00	11123.33	69.91%
0	1:00:00	12303.05	77.32%
0	1:05:00	13106.14	82.37%
0	1:10:00	13743.59	86.38%
0	1:15:00	14218.19	89.36%
0	1:20:00	14524.66	91.29%
0	1:25:00	14750.86	92.71%
0	1:30:00	14931.41	93.84%
0	1:35:00	15085.8	94.81%
0	1:40:00	15228.16	95.71%
0	1:45:00	15354.07	96.50%
0	1:50:00	15470.56	97.23%
0	1:55:00	15581.54	97.93%
0	2:00:00	15689.13	98.61%
0	2:05:00	15794.58	99.27%
0	2:10:00	15873.34	99.76%
0	2:15:00	15905.22	99.96%
0	2:20:00	15910.89	100.00%
0	2:25:00	15900.93	99.94%
0	2:30:00	15880.66	99.81%
0	2:35:00	15853.72	99.64%
0	2:40:00	15822.07	99.44%
0	2:45:00	15786.94	99.22%
0	2:50:00	15749.18	98.98%
0	2:55:00	15709.42	98.73%
0	3:00:00	15668.1	98.47%
0	3:05:00	15625.54	98.21%
0	3:10:00	15582.01	97.93%
0	3:15:00	15537.7	97.65%
0	3:20:00	15492.75	97.37%
0	3:25:00	15447.29	97.09%
0	3:30:00	15401.4	96.80%
0	3:35:00	15355.17	96.51%
0	3:40:00	15308.67	96.22%
0	3:45:00	15261.93	95.92%
0	3:50:00	15215.01	95.63%
0	3:55:00	15167.95	95.33%
0	4:00:00	15120.76	95.03%
0	4:05:00	15073.49	94.74%
0	4:10:00	15026.14	94.44%
0	4:15:00	14978.75	94.14%
0	4:20:00	14931.33	93.84%
0	4:25:00	14883.88	93.55%
0	4:30:00	14836.43	93.25%
0	4:35:00	14788.98	92.95%
0	4:40:00	14741.54	92.65%
0	4:45:00	14694.13	92.35%
0	4:50:00	14646.75	92.05%
0	4:55:00	14599.4	91.76%
0	5:00:00	14552.1	91.46%
0	5:05:00	14504.84	91.16%
0	5:10:00	14457.64	90.87%
0	5:15:00	14410.49	90.57%
0	5:20:00	14363.41	90.27%
0	5:25:00	14316.38	89.98%
0	5:30:00	14269.43	89.68%
0	5:35:00	14222.54	89.39%
0	5:40:00	14175.73	89.09%
0	5:45:00	14128.99	88.80%
0	5:50:00	14082.33	88.51%
0	5:55:00	14035.75	88.21%
0	6:00:00	13989.25	87.92%
0	6:05:00	13942.83	87.63%

0	6:10:00	51676.03	51.51%	0	6:10:00	41439.96	79.36%	0	6:10:00	40721.6	84.93%	0	6:10:00	13896.5	87.34%
0	6:15:00	51517.19	51.35%	0	6:15:00	41226.95	78.95%	0	6:15:00	40572.54	84.62%	0	6:15:00	13850.25	87.05%
0	6:20:00	51359.57	51.19%	0	6:20:00	41014.53	78.54%	0	6:20:00	40424.11	84.31%	0	6:20:00	13804.09	86.76%
0	6:25:00	51203.08	51.04%	0	6:25:00	40802.71	78.14%	0	6:25:00	40276.2	84.01%	0	6:25:00	13758.03	86.47%
0	6:30:00	51047.61	50.88%	0	6:30:00	40591.5	77.73%	0	6:30:00	40128.87	83.70%	0	6:30:00	13712.04	86.18%
0	6:35:00	50893.04	50.73%	0	6:35:00	40380.89	77.33%	0	6:35:00	39982.15	83.39%	0	6:35:00	13666.16	85.89%
0	6:40:00	50739.24	50.57%	0	6:40:00	40170.87	76.93%	0	6:40:00	39836.04	83.09%	0	6:40:00	13620.36	85.60%
0	6:45:00	50585.91	50.42%	0	6:45:00	39961.46	76.53%	0	6:45:00	39690.5	82.78%	0	6:45:00	13574.66	85.32%
0	6:50:00	50432.96	50.27%	0	6:50:00	39752.65	76.13%	0	6:50:00	39545.55	82.48%	0	6:50:00	13529.05	85.03%
0	6:55:00	50280.37	50.12%	0	6:55:00	39544.45	75.73%	0	6:55:00	39401.2	82.18%	0	6:55:00	13483.53	84.74%
0	7:00:00	50128.15	49.97%	0	7:00:00	39336.84	75.33%	0	7:00:00	39257.46	81.88%	0	7:00:00	13438.11	84.46%
0	7:05:00	49976.28	49.81%	0	7:05:00	39129.85	74.93%	0	7:05:00	39114.34	81.58%	0	7:05:00	13392.79	84.17%
0	7:10:00	49824.77	49.66%	0	7:10:00	38923.46	74.54%	0	7:10:00	38971.82	81.29%	0	7:10:00	13347.56	83.89%
0	7:15:00	49673.64	49.51%	0	7:15:00	38717.68	74.14%	0	7:15:00	38829.93	80.99%	0	7:15:00	13302.44	83.61%
0	7:20:00	49522.92	49.36%	0	7:20:00	38512.51	73.75%	0	7:20:00	38688.64	80.69%	0	7:20:00	13257.41	83.32%
0	7:25:00	49372.57	49.21%	0	7:25:00	38307.95	73.36%	0	7:25:00	38547.98	80.40%	0	7:25:00	13212.48	83.04%
0	7:30:00	49222.55	49.06%	0	7:30:00	38104	72.97%	0	7:30:00	38407.98	80.11%	0	7:30:00	13167.65	82.76%
0	7:35:00	49072.95	48.91%	0	7:35:00	37900.66	72.58%	0	7:35:00	38268.63	79.82%	0	7:35:00	13122.92	82.48%
0	7:40:00	48923.71	48.76%	0	7:40:00	37697.93	72.19%	0	7:40:00	38129.89	79.53%	0	7:40:00	13078.29	82.20%
0	7:45:00	48774.84	48.62%	0	7:45:00	37495.81	71.80%	0	7:45:00	37991.8	79.24%	0	7:45:00	13033.77	81.92%
0	7:50:00	48626.38	48.47%	0	7:50:00	37294.31	71.42%	0	7:50:00	37854.39	78.95%	0	7:50:00	12989.34	81.64%
0	7:55:00	48478.28	48.32%	0	7:55:00	37093.43	71.03%	0	7:55:00	37717.6	78.67%	0	7:55:00	12945.02	81.36%
0	8:00:00	48330.57	48.17%	0	8:00:00	36893.16	70.65%	0	8:00:00	37581.52	78.39%	0	8:00:00	12900.81	81.08%
0	8:05:00	48183.24	48.03%	0	8:05:00	36693.5	70.27%	0	8:05:00	37446.07	78.10%	0	8:05:00	12856.69	80.80%
0	8:10:00	48036.3	47.88%	0	8:10:00	36494.46	69.89%	0	8:10:00	37311.33	77.82%	0	8:10:00	12812.68	80.53%
0	8:15:00	47889.75	47.73%	0	8:15:00	36296.05	69.51%	0	8:15:00	37177.25	77.54%	0	8:15:00	12768.78	80.25%
0	8:20:00	47743.58	47.59%	0	8:20:00	36098.25	69.13%	0	8:20:00	37043.88	77.26%	0	8:20:00	12724.97	79.98%
0	8:25:00	47597.8	47.44%	0	8:25:00	35901.07	68.75%	0	8:25:00	36911.18	76.99%	0	8:25:00	12681.28	79.70%
0	8:30:00	47452.41	47.30%	0	8:30:00	35704.52	68.37%	0	8:30:00	36779.2	76.71%	0	8:30:00	12637.69	79.43%
0	8:35:00	47307.41	47.15%	0	8:35:00	35508.58	68.00%	0	8:35:00	36647.94	76.44%	0	8:35:00	12594.21	79.15%
0	8:40:00	47162.8	47.01%	0	8:40:00	35313.27	67.63%	0	8:40:00	36517.4	76.17%	0	8:40:00	12550.83	78.88%
0	8:45:00	47018.59	46.87%	0	8:45:00	35118.57	67.25%	0	8:45:00	36387.58	75.90%	0	8:45:00	12507.56	78.61%
0	8:50:00	46874.78	46.72%	0	8:50:00	34924.51	66.88%	0	8:50:00	36258.5	75.63%	0	8:50:00	12464.4	78.34%
0	8:55:00	46731.35	46.58%	0	8:55:00	34731.08	66.51%	0	8:55:00	36130.17	75.36%	0	8:55:00	12421.34	78.07%
0	9:00:00	46588.32	46.44%	0	9:00:00	34538.28	66.14%	0	9:00:00	36002.6	75.09%	0	9:00:00	12378.4	77.80%
0	9:05:00	46445.69	46.29%	0	9:05:00	34346.1	65.77%	0	9:05:00	35875.8	74.83%	0	9:05:00	12335.56	77.53%
0	9:10:00	46303.46	46.15%	0	9:10:00	34154.46	65.41%	0	9:10:00	35749.77	74.56%	0	9:10:00	12292.83	77.26%
0	9:15:00	46161.62	46.01%	0	9:15:00	33963.43	65.04%	0	9:15:00	35624.55	74.30%	0	9:15:00	12250.21	76.99%
0	9:20:00	46020.18	45.87%	0	9:20:00	33773.04	64.68%	0	9:20:00	35500.13	74.04%	0	9:20:00	12207.7	76.73%
0	9:25:00	45879.15	45.73%	0	9:25:00	33583.27	64.31%	0	9:25:00	35376.53	73.79%	0	9:25:00	12165.3	76.46%
0	9:30:00	45738.53	45.59%	0	9:30:00	33394.15	63.95%	0	9:30:00	35253.77	73.53%	0	9:30:00	12123.01	76.19%
0	9:35:00	45598.3	45.45%	0	9:35:00	33205.66	63.59%	0	9:35:00	35131.86	73.28%	0	9:35:00	12080.83	75.93%
0	9:40:00	45458.48	45.31%	0	9:40:00	33017.81	63.23%	0	9:40:00	35010.83	73.02%	0	9:40:00	12038.76	75.66%
0	9:45:00	45319.06	45.17%	0	9:45:00	32830.6	62.87%	0	9:45:00	34890.7	72.77%	0	9:45:00	11996.81	75.40%
0	9:50:00	45180.05	45.03%	0	9:50:00	32644.03	62.51%	0	9:50:00	34771.6	72.52%	0	9:50:00	11954.96	75.14%
0	9:55:00	45041.45	44.90%	0	9:55:00	32458.1	62.16%	0	9:55:00	34653.77	72.28%	0	9:55:00	11913.23	74.87%
0	10:00:00	44903.26	44.76%	0	10:00:00	32272.82	61.80%	0	10:00:00	34537.19	72.04%	0	10:00:00	11871.61	74.61%
0	10:05:00	44765.48	44.62%	0	10:05:00	32088.18	61.45%	0	10:05:00	34421.81	71.79%	0	10:05:00	11830.1	74.35%
0	10:10:00	44628.11	44.48%	0	10:10:00	31904.19	61.10%	0	10:10:00	34307.6	71.56%	0	10:10:00	11788.71	74.09%
0	10:15:00	44491.15	44.35%	0	10:15:00	31720.84	60.75%	0	10:15:00	34194.45	71.32%	0	10:15:00	11747.43	73.83%
0	10:20:00	44354.61	44.21%	0	10:20:00	31538.13	60.40%	0	10:20:00	34082.4	71.09%	0	10:20:00	11706.26	73.57%
0	10:25:00	44218.48	44.08%	0	10:25:00	31356.08	60.05%	0	10:25:00	33971.43	70.86%	0	10:25:00	11665.21	73.32%
0	10:30:00	44082.77	43.94%	0	10:30:00	31174.68	59.70%	0	10:30:00	33861.49	70.63%	0	10:30:00	11624.27	73.06%
0	10:35:00	43947.47	43.80%	0	10:35:00	30993.92	59.35%	0	10:35:00	33752.57	70.40%	0	10:35:00	11583.45	72.80%
0	10:40:00	43812.59	43.67%	0	10:40:00	30813.82	59.01%	0	10:40:00	33644.62	70.17%	0	10:40:00	11542.74	72.55%
0	10:45:00	43678.13	43.54%	0	10:45:00	30634.37	58.66%	0	10:45:00	33537.62	69.95%	0	10:45:00	11502.15	72.29%
0	10:50:00	43544.1	43.40%	0	10:50:00	30455.56	58.32%	0	10:50:00	33431.52	69.73%	0	10:50:00	11461.68	72.04%
0	10:55:00	43410.48	43.27%	0	10:55:00	30277.42	57.98%	0	10:55:00	33326.3	69.51%	0	10:55:00	11421.32	71.78%
0	11:00:00	43277.29	43.14%	0	11:00:00	30099.93	57.64%	0	11:00:00	33221.93	69.29%	0	11:00:00	11381.08	71.53%
0	11:05:00	43144.52	43.00%	0	11:05:00	29923.09	57.30%	0	11:05:00	33118.37	69.08%	0	11:05:00	11340.95	71.28%
0	11:10:00	43012.18	42.87%	0	11:10:00	29746.91	56.97%	0	11:10:00	33015.59	68.86%	0	11:10:00	11300.95	71.03%
0	11:15:00	42880.27	42.74%	0	11:15:00	29571.39	56.63%	0	11:15:00	32913.54	68.65%	0	11:15:00	11261.06	70.78%
0	11:20:00	42748.78	42.61%	0	11:20:00	29396.52	56.29%	0	11:20:00	32812.21	68.44%	0	11:20:00	11221.29	70.53%
0	11:25:00	42617.73	42.48%	0	11:25:00	29222.32	55.96%	0	11:25:00	32711.54	68.23%	0	11:25:00	11181.64	70.28%
0	11:30:00	42487.1	42.35%	0	11:30:00	29048.77	55.63%	0	11:30:00	32611.52	68.02%	0	11:30:00	11142.11	70.03%
0	11:35:00	42356.91	42.22%	0	11:35:00	28875.89	55.30%	0	11:35:00	32512.08	67.81%	0	11:35:00	11102.7	69.78%
0	11:40:00	42227.15	42.09%	0	11:40:00	28703.67	54.97%	0	11:40:00	32413.2	67.61%	0	11:40:00	11063.41	69.53%
0	11:45:00	42097.83	41.96%	0	11:45:00	28532.11	54.64%	0	11:45:00	32314.83	67.40%	0	11:45:00	11024.24	69.29%
0	11:50:00	41968.94	41.83%	0	11:50:00	28361.22	54.31%	0	11:50:00	32216.92	67.20%	0	11:50:00	10985.19	69.04%
0	11:55:00	41840.5	41.70%	0	11:55:00	28190.99	53.99%	0	11:55:00	32119.41	66.99%	0	11:55:00	10946.26	68.80%
0	12:00:00	41712.49	41.58%	0	12:00:00	28021.42	53.66%	0	12:00:00	32022.23	66.79%	0	12:00:00	10907.46	68.55%
0	12:05:00	41584.92	41.45%	0	12:05:00	27852.53	53.34%	0	12:05:00	31925.27	66.59%	0	12:05:00	10868.78	68.31%
0	12:10:00	41457.79	41.32%	0	12:10:00	27684.3	53.02%	0	12:10:00	31828.45	66.39%	0	12:10:00	10830.22	68.07%
0	12:15:00	41331.11	41.20%	0	12:15:00	27516.74	52.69%	0	12:15:00	31731.77	66.18%	0	12:15:00	10791.79	67.83%
0	12:20:00	41204.88	41.07%	0	12:20:00	27349.85	52.38%	0	12:20:00	31635.23	65.98%	0	12:20:00	10753.48	67.59%
0	12:25:00	41079.1	40.95%	0	12:25:00	27183.63	52.06%	0	12:25:00	31538.84	65.78%	0	12:25:00	10715.3	67.35%
0	12:30:00	40953.76	40.82%	0	12:30:00	27018.08	51.74%	0	12:30:00	31442.58	65.58%	0	12:30:00	10677.24	67.11%
0	12:35:00	40828.88	40.70%	0	12:35:00	26853.21	51.42%	0	12:35:00	31346.47	65.38%	0	12:35:00	10639.31	66.87%
0	12:40:00	40704.44	40.57%	0	12:40:00	26689.01	51.11%	0	12:40:00	31250.5	65.18%	0	12:40:00	10601.5	66.63%
0	12:45:00	40580.46	40.45%	0	12:45:00	26525.48	50.80%	0	12:45:00	31154.67	64.98%	0	12:45:00	10563.83	66.39%

0	12:50:00	40456.95	40.33%
0	12:55:00	40333.88	40.20%
0	13:00:00	40211.28	40.08%
0	13:05:00	40089.14	39.96%
0	13:10:00	39967.46	39.84%
0	13:15:00	39846.25	39.72%
0	13:20:00	39725.51	39.60%
0	13:25:00	39605.23	39.48%
0	13:30:00	39485.44	39.36%
0	13:35:00	39366.11	39.24%
0	13:40:00	39247.26	39.12%
0	13:45:00	39128.89	39.00%
0	13:50:00	39011.01	38.88%
0	13:55:00	38893.61	38.77%
0	14:00:00	38776.69	38.65%
0	14:05:00	38660.26	38.53%
0	14:10:00	38544.32	38.42%
0	14:15:00	38428.88	38.30%
0	14:20:00	38313.94	38.19%
0	14:25:00	38199.5	38.08%
0	14:30:00	38085.55	37.96%
0	14:35:00	37972.12	37.85%
0	14:40:00	37859.2	37.74%
0	14:45:00	37746.78	37.62%
0	14:50:00	37634.89	37.51%
0	14:55:00	37523.51	37.40%
0	15:00:00	37412.66	37.29%
0	15:05:00	37302.33	37.18%
0	15:10:00	37192.53	37.07%
0	15:15:00	37083.27	36.96%
0	15:20:00	36974.55	36.85%
0	15:25:00	36866.38	36.75%
0	15:30:00	36758.75	36.64%
0	15:35:00	36651.67	36.53%
0	15:40:00	36545.15	36.43%
0	15:45:00	36439.2	36.32%
0	15:50:00	36333.81	36.22%
0	15:55:00	36229	36.11%
0	16:00:00	36124.77	36.01%
0	16:05:00	36021.13	35.90%
0	16:10:00	35918.08	35.80%
0	16:15:00	35815.63	35.70%
0	16:20:00	35713.79	35.60%
0	16:25:00	35612.57	35.50%
0	16:30:00	35511.97	35.40%
0	16:35:00	35412	35.30%
0	16:40:00	35312.68	35.20%
0	16:45:00	35214.02	35.10%
0	16:50:00	35116.02	35.00%
0	16:55:00	35018.69	34.91%
0	17:00:00	34922.05	34.81%
0	17:05:00	34826.15	34.71%
0	17:10:00	34731.21	34.62%
0	17:15:00	34637.25	34.52%
0	17:20:00	34544.25	34.43%
0	17:25:00	34452.19	34.34%
0	17:30:00	34361.03	34.25%
0	17:35:00	34270.75	34.16%
0	17:40:00	34181.29	34.07%
0	17:45:00	34092.66	33.98%
0	17:50:00	34004.87	33.89%
0	17:55:00	33917.88	33.81%
0	18:00:00	33831.66	33.72%
0	18:05:00	33746.21	33.64%
0	18:10:00	33661.5	33.55%
0	18:15:00	33577.5	33.47%
0	18:20:00	33494.2	33.39%
0	18:25:00	33411.57	33.30%
0	18:30:00	33329.6	33.22%
0	18:35:00	33248.25	33.14%
0	18:40:00	33167.52	33.06%
0	18:45:00	33087.38	32.98%
0	18:50:00	33007.81	32.90%
0	18:55:00	32928.78	32.82%
0	19:00:00	32850.28	32.74%
0	19:05:00	32772.29	32.67%
0	19:10:00	32694.77	32.59%
0	19:15:00	32617.72	32.51%
0	19:20:00	32541.1	32.44%
0	19:25:00	32464.88	32.36%

0	12:50:00	26362.63	50.48%
0	12:55:00	26200.45	50.17%
0	13:00:00	26038.95	49.86%
0	13:05:00	25878.12	49.56%
0	13:10:00	25717.98	49.25%
0	13:15:00	25558.51	48.94%
0	13:20:00	25399.72	48.64%
0	13:25:00	25241.6	48.34%
0	13:30:00	25084.15	48.04%
0	13:35:00	24927.38	47.74%
0	13:40:00	24771.3	47.44%
0	13:45:00	24615.91	47.14%
0	13:50:00	24461.21	46.84%
0	13:55:00	24307.21	46.55%
0	14:00:00	24153.91	46.25%
0	14:05:00	24001.3	45.96%
0	14:10:00	23849.39	45.67%
0	14:15:00	23698.17	45.38%
0	14:20:00	23547.66	45.09%
0	14:25:00	23397.84	44.81%
0	14:30:00	23248.73	44.52%
0	14:35:00	23100.32	44.24%
0	14:40:00	22952.62	43.95%
0	14:45:00	22805.62	43.67%
0	14:50:00	22659.32	43.39%
0	14:55:00	22513.74	43.11%
0	15:00:00	22368.86	42.84%
0	15:05:00	22224.69	42.56%
0	15:10:00	22081.23	42.29%
0	15:15:00	21938.49	42.01%
0	15:20:00	21796.45	41.74%
0	15:25:00	21655.13	41.47%
0	15:30:00	21514.53	41.20%
0	15:35:00	21374.64	40.93%
0	15:40:00	21235.47	40.67%
0	15:45:00	21097.02	40.40%
0	15:50:00	20959.29	40.14%
0	15:55:00	20822.28	39.87%
0	16:00:00	20686	39.61%
0	16:05:00	20550.43	39.35%
0	16:10:00	20415.59	39.10%
0	16:15:00	20281.48	38.84%
0	16:20:00	20148.1	38.58%
0	16:25:00	20015.44	38.33%
0	16:30:00	19883.51	38.08%
0	16:35:00	19752.31	37.83%
0	16:40:00	19621.85	37.58%
0	16:45:00	19492.12	37.33%
0	16:50:00	19363.12	37.08%
0	16:55:00	19234.85	36.83%
0	17:00:00	19107.33	36.59%
0	17:05:00	18980.54	36.35%
0	17:10:00	18854.49	36.11%
0	17:15:00	18729.19	35.87%
0	17:20:00	18604.62	35.63%
0	17:25:00	18480.8	35.39%
0	17:30:00	18357.72	35.16%
0	17:35:00	18235.39	34.92%
0	17:40:00	18113.81	34.69%
0	17:45:00	17992.97	34.46%
0	17:50:00	17872.88	34.23%
0	17:55:00	17753.55	34.00%
0	18:00:00	17634.97	33.77%
0	18:05:00	17517.14	33.55%
0	18:10:00	17400.07	33.32%
0	18:15:00	17283.76	33.10%
0	18:20:00	17168.21	32.88%
0	18:25:00	17053.41	32.66%
0	18:30:00	16939.38	32.44%
0	18:35:00	16826.11	32.22%
0	18:40:00	16713.61	32.01%
0	18:45:00	16601.87	31.79%
0	18:50:00	16490.9	31.58%
0	18:55:00	16380.7	31.37%
0	19:00:00	16271.27	31.16%
0	19:05:00	16162.62	30.95%
0	19:10:00	16054.74	30.74%
0	19:15:00	15947.64	30.54%
0	19:20:00	15841.31	30.34%
0	19:25:00	15735.76	30.13%

0	12:50:00	31058.99	64.78%
0	12:55:00	30963.44	64.58%
0	13:00:00	30868.04	64.38%
0	13:05:00	30772.79	64.18%
0	13:10:00	30677.67	63.99%
0	13:15:00	30582.7	63.79%
0	13:20:00	30487.88	63.59%
0	13:25:00	30393.19	63.39%
0	13:30:00	30298.65	63.20%
0	13:35:00	30204.26	63.00%
0	13:40:00	30110	62.80%
0	13:45:00	30015.89	62.61%
0	13:50:00	29921.93	62.41%
0	13:55:00	29828.11	62.21%
0	14:00:00	29734.44	62.02%
0	14:05:00	29640.9	61.82%
0	14:10:00	29547.52	61.63%
0	14:15:00	29454.27	61.43%
0	14:20:00	29361.18	61.24%
0	14:25:00	29268.22	61.05%
0	14:30:00	29175.42	60.85%
0	14:35:00	29082.75	60.66%
0	14:40:00	28990.24	60.47%
0	14:45:00	28897.87	60.27%
0	14:50:00	28805.64	60.08%
0	14:55:00	28713.56	59.89%
0	15:00:00	28621.62	59.70%
0	15:05:00	28529.84	59.51%
0	15:10:00	28438.19	59.31%
0	15:15:00	28346.7	59.12%
0	15:20:00	28255.35	58.93%
0	15:25:00	28164.14	58.74%
0	15:30:00	28073.08	58.55%
0	15:35:00	27982.17	58.36%
0	15:40:00	27891.41	58.17%
0	15:45:00	27800.79	57.99%
0	15:50:00	27710.32	57.80%
0	15:55:00	27620	57.61%
0	16:00:00	27529.82	57.42%
0	16:05:00	27439.79	57.23%
0	16:10:00	27349.91	57.04%
0	16:15:00	27260.17	56.86%
0	16:20:00	27170.58	56.67%
0	16:25:00	27081.14	56.48%
0	16:30:00	26991.85	56.30%
0	16:35:00	26902.71	56.11%
0	16:40:00	26813.71	55.93%
0	16:45:00	26724.86	55.74%
0	16:50:00	26636.16	55.56%
0	16:55:00	26547.61	55.37%
0	17:00:00	26459.21	55.19%
0	17:05:00	26370.95	55.00%
0	17:10:00	26282.84	54.82%
0	17:15:00	26194.88	54.64%
0	17:20:00	26107.06	54.45%
0	17:25:00	26019.39	54.27%
0	17:30:00	25931.88	54.09%
0	17:35:00	25844.51	53.90%
0	17:40:00	25757.28	53.72%
0	17:45:00	25670.21	53.54%
0	17:50:00	25583.28	53.36%
0	17:55:00	25496.5	53.18%
0	18:00:00	25409.86	53.00%
0	18:05:00	25323.37	52.82%
0	18:10:00	25237.03	52.64%
0	18:15:00	25150.83	52.46%
0	18:20:00	25064.78	52.28%
0	18:25:00	24978.88	52.10%
0	18:30:00	24893.13	51.92%
0	18:35:00	24807.54	51.74%
0	18:40:00	24722.1	51.56%
0	18:45:00	24636.81	51.39%
0	18:50:00	24551.67	51.21%
0	18:55:00	24466.69	51.03%
0	19:00:00	24381.87	50.85%
0	19:05:00	24297.2	50.68%
0	19:10:00	24212.68	50.50%
0	19:15:00	24128.31	50.33%
0	19:20:00	24044.1	50.15%
0	19:25:00	23960.04	49.97%

0	12:50:00	10526.28	66.16%
0	12:55:00	10488.86	65.92%
0	13:00:00	10451.58	65.69%
0	13:05:00	10414.42	65.45%
0	13:10:00	10377.4	65.22%
0	13:15:00	10340.5	64.99%
0	13:20:00	10303.75	64.76%
0	13:25:00	10267.12	64.53%
0	13:30:00	10230.63	64.30%
0	13:35:00	10194.28	64.07%
0	13:40:00	10158.07	63.84%
0	13:45:00	10121.99	63.62%
0	13:50:00	10086.06	63.39%
0	13:55:00	10050.26	63.17%
0	14:00:00	10014.61	62.94%
0	14:05:00	9979.1	62.72%
0	14:10:00	9943.74	62.50%
0	14:15:00	9908.53	62.28%
0	14:20:00	9873.46	62.05%
0	14:25:00	9838.55	61.84%
0	14:30:00	9803.79	61.62%
0	14:35:00	9769.18	61.40%
0	14:40:00	9734.75	61.18%
0	14:45:00	9700.53	60.97%
0	14:50:00	9666.51	60.75%
0	14:55:00	9632.69	60.54%
0	15:00:00	9599.06	60.33%
0	15:05:00	9565.63	60.12%
0	15:10:00	9532.38	59.91%
0	15:15:00	9499.32	59.70%
0	15:20:00	9466.44	59.50%
0	15:25:00	9433.73	59.29%
0	15:30:00	9401.21	59.09%
0	15:35:00	9368.85	58.88%
0	15:40:00	9336.67	58.68%
0	15:45:00	9304.64	58.48%
0	15:50:00	9272.79	58.28%
0	15:55:00	9241.09	58.08%
0	16:00:00	9209.54	57.88%
0	16:05:00	9178.15	57.68%
0	16:10:00	9146.91	57.49%
0	16:15:00	9115.82	57.29%
0	16:20:00	9084.87	57.10%
0	16:25:00	9054.05	56.90%
0	16:30:00	9023.37	56.71%
0	16:35:00	8992.83	56.52%
0	16:40:00	8962.41	56.33%
0	16:45:00	8932.12	56.14%
0	16:50:00	8901.95	55.95%
0	16:55:00	8871.9	55.76%
0	17:00:00	8841.96	55.57%
0	17:05:00	8812.12	55.38%
0	17:10:00	8782.39	55.20%
0	17:15:00	8752.76	55.01%
0	17:20:00	8723.23	54.83%
0	17:25:00	8693.78	54.64%
0	17:30:00	8664.41	54.46%
0	17:35:00	8635.1	54.27%
0	17:40:00	8605.85	54.09%
0	17:45:00	8576.65	53.90%
0	17:50:00	8547.51	53.72%
0	17:55:00	8518.42	53.54%
0	18:00:00	8489.39	53.36%
0	18:05:00	8460.41	53.17%
0	18:10:00	8431.49	52.99%
0	18:15:00	8402.62	52.81%
0	18:20:00	8373.8	52.63%
0	18:25:00	8345.04	52.45%
0	18:30:00	8316.34	52.27%
0	18:35:00	8287.69	52.09%
0	18:40:00	8259.09	51.91%
0	18:45:00	8230.55	51.73%
0	18:50:00	8202.06	51.55%
0	18:55:00	8173.63	51.37%
0	19:00:00	8145.26	51.19%
0	19:05:00	8116.94	51.01%
0	19:10:00	8088.67	50.84%
0	19:15:00	8060.46	50.66%
0	19:20:00	8032.31	50.48%
0	19:25:00	8004.21	50.31%

0	19:30:00	32389.06	32.28%
0	19:35:00	32313.59	32.21%
0	19:40:00	32238.45	32.13%
0	19:45:00	32163.61	32.06%
0	19:50:00	32089.02	31.98%
0	19:55:00	32014.64	31.91%
0	20:00:00	31940.38	31.84%
0	20:05:00	31866.21	31.76%
0	20:10:00	31792.13	31.69%
0	20:15:00	31718.13	31.62%
0	20:20:00	31644.21	31.54%
0	20:25:00	31570.37	31.47%
0	20:30:00	31496.62	31.39%
0	20:35:00	31422.95	31.32%
0	20:40:00	31349.36	31.25%
0	20:45:00	31275.86	31.17%
0	20:50:00	31202.44	31.10%
0	20:55:00	31129.11	31.03%
0	21:00:00	31055.86	30.96%
0	21:05:00	30982.69	30.88%
0	21:10:00	30909.61	30.81%
0	21:15:00	30836.61	30.74%
0	21:20:00	30763.69	30.66%
0	21:25:00	30690.86	30.59%
0	21:30:00	30618.12	30.52%
0	21:35:00	30545.45	30.45%
0	21:40:00	30472.88	30.37%
0	21:45:00	30400.38	30.30%
0	21:50:00	30327.97	30.23%
0	21:55:00	30255.65	30.16%
0	22:00:00	30183.41	30.09%
0	22:05:00	30111.25	30.01%
0	22:10:00	30039.18	29.94%
0	22:15:00	29967.19	29.87%
0	22:20:00	29895.29	29.80%
0	22:25:00	29823.47	29.73%
0	22:30:00	29751.74	29.66%
0	22:35:00	29680.09	29.58%
0	22:40:00	29608.53	29.51%
0	22:45:00	29537.05	29.44%
0	22:50:00	29465.65	29.37%
0	22:55:00	29394.35	29.30%
0	23:00:00	29323.12	29.23%
0	23:05:00	29251.98	29.16%
0	23:10:00	29180.93	29.09%
0	23:15:00	29109.96	29.02%
0	23:20:00	29039.08	28.94%
0	23:25:00	28968.28	28.87%
0	23:30:00	28897.57	28.80%
0	23:35:00	28826.94	28.73%
0	23:40:00	28756.4	28.66%
0	23:45:00	28685.95	28.59%
0	23:50:00	28615.58	28.52%
0	23:55:00	28545.29	28.45%
0	0:00:00	28475.09	28.38%
1	0:05:00	28404.98	28.31%
1	0:10:00	28334.95	28.24%
1	0:15:00	28265.01	28.17%
1	0:20:00	28195.15	28.10%
1	0:25:00	28125.38	28.03%
1	0:30:00	28055.7	27.96%
1	0:35:00	27986.1	27.90%
1	0:40:00	27916.59	27.83%
1	0:45:00	27847.17	27.76%
1	0:50:00	27777.83	27.69%
1	0:55:00	27708.57	27.62%
1	1:00:00	27639.4	27.55%
1	1:05:00	27570.32	27.48%
1	1:10:00	27501.33	27.41%
1	1:15:00	27432.42	27.34%
1	1:20:00	27363.6	27.27%
1	1:25:00	27294.86	27.21%
1	1:30:00	27226.21	27.14%
1	1:35:00	27157.65	27.07%
1	1:40:00	27089.17	27.00%
1	1:45:00	27020.79	26.93%
1	1:50:00	26952.48	26.87%
1	1:55:00	26884.27	26.80%
1	2:00:00	26816.14	26.73%
1	2:05:00	26748.09	26.66%

0	19:30:00	15631	29.93%
0	19:35:00	15527.02	29.73%
0	19:40:00	15423.82	29.54%
0	19:45:00	15321.41	29.34%
0	19:50:00	15219.79	29.15%
0	19:55:00	15118.96	28.95%
0	20:00:00	15018.92	28.76%
0	20:05:00	14919.68	28.57%
0	20:10:00	14821.23	28.38%
0	20:15:00	14723.58	28.20%
0	20:20:00	14626.73	28.01%
0	20:25:00	14530.68	27.83%
0	20:30:00	14435.43	27.64%
0	20:35:00	14341	27.46%
0	20:40:00	14247.36	27.28%
0	20:45:00	14154.54	27.11%
0	20:50:00	14062.54	26.93%
0	20:55:00	13971.35	26.76%
0	21:00:00	13880.97	26.58%
0	21:05:00	13791.42	26.41%
0	21:10:00	13702.68	26.24%
0	21:15:00	13614.77	26.07%
0	21:20:00	13527.69	25.91%
0	21:25:00	13441.44	25.74%
0	21:30:00	13356.02	25.58%
0	21:35:00	13271.43	25.41%
0	21:40:00	13187.69	25.25%
0	21:45:00	13104.78	25.10%
0	21:50:00	13022.71	24.94%
0	21:55:00	12941.5	24.78%
0	22:00:00	12861.13	24.63%
0	22:05:00	12781.62	24.48%
0	22:10:00	12702.96	24.33%
0	22:15:00	12625.16	24.18%
0	22:20:00	12548.22	24.03%
0	22:25:00	12472.15	23.88%
0	22:30:00	12396.95	23.74%
0	22:35:00	12322.63	23.60%
0	22:40:00	12249.18	23.46%
0	22:45:00	12176.62	23.32%
0	22:50:00	12104.95	23.18%
0	22:55:00	12034.16	23.05%
0	23:00:00	11964.28	22.91%
0	23:05:00	11895.29	22.78%
0	23:10:00	11827.21	22.65%
0	23:15:00	11760.05	22.52%
0	23:20:00	11693.88	22.39%
0	23:25:00	11629	22.27%
0	23:30:00	11565.4	22.15%
0	23:35:00	11503.05	22.03%
0	23:40:00	11441.9	21.91%
0	23:45:00	11381.93	21.80%
0	23:50:00	11323.1	21.68%
0	23:55:00	11265.38	21.57%
0	0:00:00	11208.74	21.46%
1	0:05:00	11153.15	21.36%
1	0:10:00	11098.57	21.25%
1	0:15:00	11045	21.15%
1	0:20:00	10992.38	21.05%
1	0:25:00	10940.71	20.95%
1	0:30:00	10889.95	20.85%
1	0:35:00	10840.08	20.76%
1	0:40:00	10791.08	20.66%
1	0:45:00	10742.92	20.57%
1	0:50:00	10695.58	20.48%
1	0:55:00	10649.04	20.39%
1	1:00:00	10603.28	20.31%
1	1:05:00	10558.28	20.22%
1	1:10:00	10514.02	20.13%
1	1:15:00	10470.47	20.05%
1	1:20:00	10427.62	19.97%
1	1:25:00	10385.46	19.89%
1	1:30:00	10343.96	19.81%
1	1:35:00	10303.11	19.73%
1	1:40:00	10262.89	19.65%
1	1:45:00	10223.28	19.58%
1	1:50:00	10184.27	19.50%
1	1:55:00	10145.85	19.43%
1	2:00:00	10107.99	19.36%
1	2:05:00	10070.69	19.29%

0	19:30:00	23876.14	49.80%
0	19:35:00	23792.4	49.62%
0	19:40:00	23708.81	49.45%
0	19:45:00	23625.37	49.28%
0	19:50:00	23542.09	49.10%
0	19:55:00	23458.96	48.93%
0	20:00:00	23375.99	48.76%
0	20:05:00	23293.18	48.58%
0	20:10:00	23210.52	48.41%
0	20:15:00	23128.01	48.24%
0	20:20:00	23045.67	48.07%
0	20:25:00	22963.47	47.90%
0	20:30:00	22881.44	47.72%
0	20:35:00	22799.56	47.55%
0	20:40:00	22717.84	47.38%
0	20:45:00	22636.27	47.21%
0	20:50:00	22554.86	47.04%
0	20:55:00	22473.61	46.87%
0	21:00:00	22392.52	46.70%
0	21:05:00	22311.58	46.54%
0	21:10:00	22230.8	46.37%
0	21:15:00	22150.18	46.20%
0	21:20:00	22069.71	46.03%
0	21:25:00	21989.4	45.86%
0	21:30:00	21909.25	45.70%
0	21:35:00	21829.26	45.53%
0	21:40:00	21749.43	45.36%
0	21:45:00	21669.75	45.20%
0	21:50:00	21590.24	45.03%
0	21:55:00	21510.88	44.87%
0	22:00:00	21431.68	44.70%
0	22:05:00	21352.64	44.54%
0	22:10:00	21273.76	44.37%
0	22:15:00	21195.04	44.21%
0	22:20:00	21116.48	44.04%
0	22:25:00	21038.07	43.88%
0	22:30:00	20959.83	43.72%
0	22:35:00	20881.75	43.55%
0	22:40:00	20803.82	43.39%
0	22:45:00	20726.06	43.23%
0	22:50:00	20648.46	43.07%
0	22:55:00	20571.02	42.91%
0	23:00:00	20493.73	42.74%
0	23:05:00	20416.61	42.58%
0	23:10:00	20339.65	42.42%
0	23:15:00	20262.85	42.26%
0	23:20:00	20186.21	42.10%
0	23:25:00	20109.74	41.94%
0	23:30:00	20033.42	41.78%
0	23:35:00	19957.27	41.63%
0	23:40:00	19881.28	41.47%
0	23:45:00	19805.44	41.31%
0	23:50:00	19729.78	41.15%
0	23:55:00	19654.27	40.99%
0	0:00:00	19578.93	40.84%
1	0:05:00	19503.74	40.68%
1	0:10:00	19428.72	40.52%
1	0:15:00	19353.87	40.37%
1	0:20:00	19279.18	40.21%
1	0:25:00	19204.65	40.06%
1	0:30:00	19130.28	39.90%
1	0:35:00	19056.08	39.75%
1	0:40:00	18982.04	39.59%
1	0:45:00	18908.16	39.44%
1	0:50:00	18834.45	39.28%
1	0:55:00	18760.9	39.13%
1	1:00:00	18687.52	38.98%
1	1:05:00	18614.3	38.82%
1	1:10:00	18541.24	38.67%
1	1:15:00	18468.35	38.52%
1	1:20:00	18395.63	38.37%
1	1:25:00	18323.07	38.22%
1	1:30:00	18250.67	38.07%
1	1:35:00	18178.44	37.92%
1	1:40:00	18106.38	37.77%
1	1:45:00	18034.48	37.62%
1	1:50:00	17962.75	37.47%
1	1:55:00	17891.18	37.32%
1	2:00:00	17819.78	37.17%
1	2:05:00	17748.55	37.02%

0	19:30:00	7976.17	50.13%
0	19:35:00	7948.18	49.95%
0	19:40:00	7920.25	49.78%
0	19:45:00	7892.37	49.60%
0	19:50:00	7864.55	49.43%
0	19:55:00	7836.78	49.25%
0	20:00:00	7809.07	49.08%
0	20:05:00	7781.42	48.91%
0	20:10:00	7753.82	48.73%
0	20:15:00	7726.28	48.56%
0	20:20:00	7698.79	48.39%
0	20:25:00	7671.36	48.21%
0	20:30:00	7643.99	48.04%
0	20:35:00	7616.67	47.87%
0	20:40:00	7589.41	47.70%
0	20:45:00	7562.21	47.53%
0	20:50:00	7535.06	47.36%
0	20:55:00	7507.97	47.19%
0	21:00:00	7480.93	47.02%
0	21:05:00	7453.95	46.85%
0	21:10:00	7427.03	46.68%
0	21:15:00	7400.16	46.51%
0	21:20:00	7373.35	46.34%
0	21:25:00	7346.6	46.17%
0	21:30:00	7319.91	46.01%
0	21:35:00	7293.27	45.84%
0	21:40:00	7266.69	45.67%
0	21:45:00	7240.16	45.50%
0	21:50:00	7213.7	45.34%
0	21:55:00	7187.29	45.17%
0	22:00:00	7160.94	45.01%
0	22:05:00	7134.64	44.84%
0	22:10:00	7108.4	44.68%
0	22:15:00	7082.22	44.51%
0	22:20:00	7056.1	44.35%
0	22:25:00	7030.04	44.18%
0	22:30:00	7004.03	44.02%
0	22:35:00	6978.08	43.86%
0	22:40:00	6952.19	43.69%
0	22:45:00	6926.36	43.53%
0	22:50:00	6900.58	43.37%
0	22:55:00	6874.87	43.21%
0	23:00:00	6849.21	43.05%
0	23:05:00	6823.61	42.89%
0	23:10:00	6798.07	42.73%
0	23:15:00	6772.58	42.57%
0	23:20:00	6747.16	42.41%
0	23:25:00	6721.79	42.25%
0	23:30:00	6696.49	42.09%
0	23:35:00	6671.24	41.93%
0	23:40:00	6646.05	41.77%
0	23:45:00	6620.92	41.61%
0	23:50:00	6595.85	41.45%
0	23:55:00	6570.84	41.30%
0	0:00:00	6545.88	41.14%
1	0:05:00	6520.99	40.98%
1	0:10:00	6496.16	40.83%
1	0:15:00	6471.38	40.67%
1	0:20:00	6446.67	40.52%
1	0:25:00	6422.02	40.36%
1	0:30:00	6397.42	40.21%
1	0:35:00	6372.89	40.05%
1	0:40:00	6348.41	39.90%
1	0:45:00	6324	39.75%
1	0:50:00	6299.65	39.59%
1	0:55:00	6275.35	39.44%
1	1:00:00	6251.12	39.29%
1	1:05:00	6226.95	39.14%
1	1:10:00	6202.84	38.98%
1	1:15:00	6178.79	38.83%
1	1:20:00	6154.81	38.68%
1	1:25:00	6130.88	38.53%
1	1:30:00	6107.01	38.38%
1	1:35:00	6083.21	38.23%
1	1:40:00	6059.47	38.08%
1	1:45:00	6035.79	37.93%
1	1:50:00	6012.17	37.79%
1	1:55:00	5988.62	37.64%
1	2:00:00	5965.12	37.49%
1	2:05:00	5941.69	37.34%

1	2:10:00	26680.14	26.59%
1	2:15:00	26612.27	26.53%
1	2:20:00	26544.49	26.46%
1	2:25:00	26476.79	26.39%
1	2:30:00	26409.18	26.32%
1	2:35:00	26341.66	26.26%
1	2:40:00	26274.22	26.19%
1	2:45:00	26206.87	26.12%
1	2:50:00	26139.61	26.05%
1	2:55:00	26072.44	25.99%
1	3:00:00	26005.35	25.92%
1	3:05:00	25938.34	25.85%
1	3:10:00	25871.43	25.79%
1	3:15:00	25804.6	25.72%
1	3:20:00	25737.86	25.65%
1	3:25:00	25671.2	25.59%
1	3:30:00	25604.63	25.52%
1	3:35:00	25538.15	25.46%
1	3:40:00	25471.75	25.39%
1	3:45:00	25405.44	25.32%
1	3:50:00	25339.21	25.26%
1	3:55:00	25273.07	25.19%
1	4:00:00	25207.01	25.13%
1	4:05:00	25141.04	25.06%
1	4:10:00	25075.16	24.99%
1	4:15:00	25009.36	24.93%
1	4:20:00	24943.66	24.86%
1	4:25:00	24878.04	24.80%
1	4:30:00	24812.52	24.73%
1	4:35:00	24747.08	24.67%
1	4:40:00	24681.73	24.60%
1	4:45:00	24616.47	24.54%
1	4:50:00	24551.31	24.47%
1	4:55:00	24486.23	24.41%
1	5:00:00	24421.24	24.34%
1	5:05:00	24356.35	24.28%
1	5:10:00	24291.54	24.21%
1	5:15:00	24226.83	24.15%
1	5:20:00	24162.2	24.08%
1	5:25:00	24097.67	24.02%
1	5:30:00	24033.22	23.96%
1	5:35:00	23968.87	23.89%
1	5:40:00	23904.61	23.83%
1	5:45:00	23840.44	23.76%
1	5:50:00	23776.35	23.70%
1	5:55:00	23712.36	23.64%
1	6:00:00	23648.46	23.57%
1	6:05:00	23584.66	23.51%
1	6:10:00	23520.94	23.44%
1	6:15:00	23457.31	23.38%
1	6:20:00	23393.78	23.32%
1	6:25:00	23330.33	23.25%
1	6:30:00	23266.98	23.19%
1	6:35:00	23203.72	23.13%
1	6:40:00	23140.55	23.07%
1	6:45:00	23077.47	23.00%
1	6:50:00	23014.48	22.94%
1	6:55:00	22951.59	22.88%
1	7:00:00	22888.79	22.81%
1	7:05:00	22826.07	22.75%
1	7:10:00	22763.45	22.69%
1	7:15:00	22700.93	22.63%
1	7:20:00	22638.49	22.57%
1	7:25:00	22576.14	22.50%
1	7:30:00	22513.89	22.44%
1	7:35:00	22451.73	22.38%
1	7:40:00	22389.66	22.32%
1	7:45:00	22327.69	22.26%
1	7:50:00	22265.81	22.19%
1	7:55:00	22204.02	22.13%
1	8:00:00	22142.32	22.07%
1	8:05:00	22080.71	22.01%
1	8:10:00	22019.2	21.95%
1	8:15:00	21957.78	21.89%
1	8:20:00	21896.45	21.83%
1	8:25:00	21835.21	21.76%
1	8:30:00	21774.07	21.70%
1	8:35:00	21713.02	21.64%
1	8:40:00	21652.06	21.58%
1	8:45:00	21591.2	21.52%

1	2:10:00	10033.93	19.22%
1	2:15:00	9997.7	19.15%
1	2:20:00	9961.98	19.08%
1	2:25:00	9926.76	19.01%
1	2:30:00	9892.03	18.94%
1	2:35:00	9857.77	18.88%
1	2:40:00	9823.98	18.81%
1	2:45:00	9790.64	18.75%
1	2:50:00	9757.74	18.69%
1	2:55:00	9725.27	18.62%
1	3:00:00	9693.21	18.56%
1	3:05:00	9661.57	18.50%
1	3:10:00	9630.32	18.44%
1	3:15:00	9599.46	18.38%
1	3:20:00	9568.98	18.32%
1	3:25:00	9538.86	18.27%
1	3:30:00	9509.11	18.21%
1	3:35:00	9479.7	18.15%
1	3:40:00	9450.63	18.10%
1	3:45:00	9421.89	18.04%
1	3:50:00	9393.48	17.99%
1	3:55:00	9365.38	17.93%
1	4:00:00	9337.58	17.88%
1	4:05:00	9310.08	17.83%
1	4:10:00	9282.87	17.78%
1	4:15:00	9255.94	17.73%
1	4:20:00	9229.29	17.67%
1	4:25:00	9202.89	17.62%
1	4:30:00	9176.76	17.57%
1	4:35:00	9150.88	17.52%
1	4:40:00	9125.24	17.47%
1	4:45:00	9099.83	17.43%
1	4:50:00	9074.65	17.38%
1	4:55:00	9049.7	17.33%
1	5:00:00	9024.95	17.28%
1	5:05:00	9000.42	17.24%
1	5:10:00	8976.08	17.19%
1	5:15:00	8951.93	17.14%
1	5:20:00	8927.97	17.10%
1	5:25:00	8904.18	17.05%
1	5:30:00	8880.56	17.01%
1	5:35:00	8857.11	16.96%
1	5:40:00	8833.81	16.92%
1	5:45:00	8810.66	16.87%
1	5:50:00	8787.64	16.83%
1	5:55:00	8764.75	16.78%
1	6:00:00	8741.99	16.74%
1	6:05:00	8719.33	16.70%
1	6:10:00	8696.78	16.65%
1	6:15:00	8674.31	16.61%
1	6:20:00	8651.91	16.57%
1	6:25:00	8629.55	16.53%
1	6:30:00	8607.23	16.48%
1	6:35:00	8584.94	16.44%
1	6:40:00	8562.68	16.40%
1	6:45:00	8540.46	16.36%
1	6:50:00	8518.27	16.31%
1	6:55:00	8496.12	16.27%
1	7:00:00	8474	16.23%
1	7:05:00	8451.91	16.19%
1	7:10:00	8429.85	16.14%
1	7:15:00	8407.83	16.10%
1	7:20:00	8385.85	16.06%
1	7:25:00	8363.89	16.02%
1	7:30:00	8341.98	15.97%
1	7:35:00	8320.09	15.93%
1	7:40:00	8298.24	15.89%
1	7:45:00	8276.42	15.85%
1	7:50:00	8254.64	15.81%
1	7:55:00	8232.89	15.77%
1	8:00:00	8211.18	15.72%
1	8:05:00	8189.5	15.68%
1	8:10:00	8167.85	15.64%
1	8:15:00	8146.24	15.60%
1	8:20:00	8124.66	15.56%
1	8:25:00	8103.11	15.52%
1	8:30:00	8081.6	15.48%
1	8:35:00	8060.13	15.44%
1	8:40:00	8038.69	15.39%
1	8:45:00	8017.28	15.35%

1	2:10:00	17677.48	36.87%
1	2:15:00	17606.58	36.72%
1	2:20:00	17535.85	36.58%
1	2:25:00	17465.28	36.43%
1	2:30:00	17394.88	36.28%
1	2:35:00	17324.65	36.13%
1	2:40:00	17254.59	35.99%
1	2:45:00	17184.7	35.84%
1	2:50:00	17114.97	35.70%
1	2:55:00	17045.41	35.55%
1	3:00:00	16976.02	35.41%
1	3:05:00	16906.8	35.26%
1	3:10:00	16837.75	35.12%
1	3:15:00	16768.86	34.98%
1	3:20:00	16700.15	34.83%
1	3:25:00	16631.6	34.69%
1	3:30:00	16563.23	34.55%
1	3:35:00	16495.02	34.40%
1	3:40:00	16426.99	34.26%
1	3:45:00	16359.12	34.12%
1	3:50:00	16291.43	33.98%
1	3:55:00	16223.9	33.84%
1	4:00:00	16156.55	33.70%
1	4:05:00	16089.37	33.56%
1	4:10:00	16022.36	33.42%
1	4:15:00	15955.52	33.28%
1	4:20:00	15888.85	33.14%
1	4:25:00	15822.36	33.00%
1	4:30:00	15756.04	32.86%
1	4:35:00	15689.88	32.73%
1	4:40:00	15623.91	32.59%
1	4:45:00	15558.1	32.45%
1	4:50:00	15492.47	32.31%
1	4:55:00	15427.01	32.18%
1	5:00:00	15361.72	32.04%
1	5:05:00	15296.61	31.90%
1	5:10:00	15231.67	31.77%
1	5:15:00	15166.91	31.63%
1	5:20:00	15102.32	31.50%
1	5:25:00	15037.91	31.37%
1	5:30:00	14973.67	31.23%
1	5:35:00	14909.6	31.10%
1	5:40:00	14845.71	30.96%
1	5:45:00	14782	30.83%
1	5:50:00	14718.46	30.70%
1	5:55:00	14655.1	30.57%
1	6:00:00	14591.91	30.43%
1	6:05:00	14528.9	30.30%
1	6:10:00	14466.07	30.17%
1	6:15:00	14403.41	30.04%
1	6:20:00	14340.93	29.91%
1	6:25:00	14278.63	29.78%
1	6:30:00	14216.51	29.65%
1	6:35:00	14154.56	29.52%
1	6:40:00	14092.8	29.39%
1	6:45:00	14031.21	29.27%
1	6:50:00	13969.8	29.14%
1	6:55:00	13908.57	29.01%
1	7:00:00	13847.52	28.88%
1	7:05:00	13786.65	28.76%
1	7:10:00	13725.95	28.63%
1	7:15:00	13665.44	28.50%
1	7:20:00	13605.11	28.38%
1	7:25:00	13544.96	28.25%
1	7:30:00	13485	28.13%
1	7:35:00	13425.21	28.00%
1	7:40:00	13365.6	27.88%
1	7:45:00	13306.18	27.75%
1	7:50:00	13246.94	27.63%
1	7:55:00	13187.88	27.51%
1	8:00:00	13129.01	27.38%
1	8:05:00	13070.32	27.26%
1	8:10:00	13011.81	27.14%
1	8:15:00	12953.48	27.02%
1	8:20:00	12895.34	26.90%
1	8:25:00	12837.39	26.78%
1	8:30:00	12779.62	26.65%
1	8:35:00	12722.04	26.53%
1	8:40:00	12664.64	26.42%
1	8:45:00	12607.43	26.30%

1	2:10:00	5918.33	37.20%
1	2:15:00	5895.02	37.05%
1	2:20:00	5871.78	36.90%
1	2:25:00	5848.6	36.76%
1	2:30:00	5825.48	36.61%
1	2:35:00	5802.43	36.47%
1	2:40:00	5779.44	36.32%
1	2:45:00	5756.52	36.18%
1	2:50:00	5733.66	36.04%
1	2:55:00	5710.86	35.89%
1	3:00:00	5688.13	35.75%
1	3:05:00	5665.47	35.61%
1	3:10:00	5642.87	35.47%
1	3:15:00	5620.33	35.32%
1	3:20:00	5597.86	35.18%
1	3:25:00	5575.46	35.04%
1	3:30:00	5553.12	34.90%
1	3:35:00	5530.85	34.76%
1	3:40:00	5508.64	34.62%
1	3:45:00	5486.5	34.48%
1	3:50:00	5464.43	34.34%
1	3:55:00	5442.42	34.21%
1	4:00:00	5420.49	34.07%
1	4:05:00	5398.62	33.93%
1	4:10:00	5376.82	33.79%
1	4:15:00	5355.09	33.66%
1	4:20:00	5333.43	33.52%
1	4:25:00	5311.83	33.38%
1	4:30:00	5290.31	33.25%
1	4:35:00	5268.86	33.11%
1	4:40:00	5247.48	32.98%
1	4:45:00	5226.17	32.85%
1	4:50:00	5204.93	32.71%
1	4:55:00	5183.76	32.58%
1	5:00:00	5162.67	32.45%
1	5:05:00	5141.65	32.32%
1	5:10:00	5120.7	32.18%
1	5:15:00	5099.83	32.05%
1	5:20:00	5079.03	31.92%
1	5:25:00	5058.31	31.79%
1	5:30:00	5037.67	31.66%
1	5:35:00	5017.1	31.53%
1	5:40:00	4996.62	31.40%
1	5:45:00	4976.24	31.28%
1	5:50:00	4955.96	31.15%
1	5:55:00	4935.77	31.02%
1	6:00:00	4915.69	30.90%
1	6:05:00	4895.7	30.77%
1	6:10:00	4875.8	30.64%
1	6:15:00	4856	30.52%
1	6:20:00	4836.29	30.40%
1	6:25:00	4816.67	30.27%
1	6:30:00	4797.14	30.15%
1	6:35:00	4777.7	30.03%
1	6:40:00	4758.35	29.91%
1	6:45:00	4739.09	29.79%
1	6:50:00	4719.91	29.66%
1	6:55:00	4700.81	29.54%
1	7:00:00	4681.8	29.43%
1	7:05:00	4662.87	29.31%
1	7:10:00	4644.02	29.19%
1	7:15:00	4625.24	29.07%
1	7:20:00	4606.55	28.95%
1	7:25:00	4587.93	28.84%
1	7:30:00	4569.39	28.72%
1	7:35:00	4550.92	28.60%
1	7:40:00	4532.53	28.49%
1	7:45:00	4514.21	28.37%
1	7:50:00	4495.96	28.26%
1	7:55:00	4477.78	28.14%
1	8:00:00	4459.66	28.03%
1	8:05:00	4441.61	27.92%
1	8:10:00	4423.63	27.80%
1	8:15:00	4405.72	27.69%
1	8:20:00	4387.86	27.58%
1	8:25:00	4370.07	27.47%
1	8:30:00	4352.34	27.35%
1	8:35:00	4334.66	27.24%
1	8:40:00	4317.04	27.13%
1	8:45:00	4299.48	27.02%

1	8:50:00	21530.43	21.46%
1	8:55:00	21469.75	21.40%
1	9:00:00	21409.17	21.34%
1	9:05:00	21348.68	21.28%
1	9:10:00	21288.28	21.22%
1	9:15:00	21227.98	21.16%
1	9:20:00	21167.77	21.10%
1	9:25:00	21107.65	21.04%
1	9:30:00	21047.63	20.98%
1	9:35:00	20987.7	20.92%
1	9:40:00	20927.86	20.86%
1	9:45:00	20868.12	20.80%
1	9:50:00	20808.47	20.74%
1	9:55:00	20748.92	20.68%
1	10:00:00	20689.46	20.62%
1	10:05:00	20630.1	20.56%
1	10:10:00	20570.82	20.50%
1	10:15:00	20511.65	20.45%
1	10:20:00	20452.56	20.39%
1	10:25:00	20393.58	20.33%
1	10:30:00	20334.68	20.27%
1	10:35:00	20275.88	20.21%
1	10:40:00	20217.18	20.15%
1	10:45:00	20158.57	20.09%
1	10:50:00	20100.05	20.03%
1	10:55:00	20041.63	19.98%
1	11:00:00	19983.31	19.92%
1	11:05:00	19925.07	19.86%
1	11:10:00	19866.94	19.80%
1	11:15:00	19808.9	19.74%
1	11:20:00	19750.95	19.69%
1	11:25:00	19693.1	19.63%
1	11:30:00	19635.35	19.57%
1	11:35:00	19577.69	19.51%
1	11:40:00	19520.13	19.46%
1	11:45:00	19462.66	19.40%
1	11:50:00	19405.29	19.34%
1	11:55:00	19348.01	19.29%
1	12:00:00	19290.83	19.23%
1	12:05:00	19233.74	19.17%
1	12:10:00	19176.75	19.11%
1	12:15:00	19119.86	19.06%
1	12:20:00	19063.06	19.00%
1	12:25:00	19006.36	18.94%
1	12:30:00	18949.75	18.89%
1	12:35:00	18893.24	18.83%
1	12:40:00	18836.83	18.78%
1	12:45:00	18780.52	18.72%
1	12:50:00	18724.3	18.66%
1	12:55:00	18668.17	18.61%
1	13:00:00	18612.15	18.55%
1	13:05:00	18556.22	18.50%
1	13:10:00	18500.38	18.44%
1	13:15:00	18444.65	18.38%
1	13:20:00	18389.01	18.33%
1	13:25:00	18333.47	18.27%
1	13:30:00	18278.02	18.22%
1	13:35:00	18222.68	18.16%
1	13:40:00	18167.43	18.11%
1	13:45:00	18112.27	18.05%
1	13:50:00	18057.22	18.00%
1	13:55:00	18002.26	17.94%
1	14:00:00	17947.4	17.89%
1	14:05:00	17892.64	17.83%
1	14:10:00	17837.97	17.78%
1	14:15:00	17783.41	17.73%
1	14:20:00	17728.94	17.67%
1	14:25:00	17674.57	17.62%
1	14:30:00	17620.29	17.56%
1	14:35:00	17566.12	17.51%
1	14:40:00	17512.04	17.46%
1	14:45:00	17458.07	17.40%
1	14:50:00	17404.19	17.35%
1	14:55:00	17350.41	17.29%
1	15:00:00	17296.73	17.24%
1	15:05:00	17243.14	17.19%
1	15:10:00	17189.66	17.13%
1	15:15:00	17136.28	17.08%
1	15:20:00	17082.99	17.03%
1	15:25:00	17029.8	16.97%

1	8:50:00	7995.9	15.31%
1	8:55:00	7974.57	15.27%
1	9:00:00	7953.26	15.23%
1	9:05:00	7931.99	15.19%
1	9:10:00	7910.75	15.15%
1	9:15:00	7889.55	15.11%
1	9:20:00	7868.39	15.07%
1	9:25:00	7847.25	15.03%
1	9:30:00	7826.16	14.99%
1	9:35:00	7805.09	14.95%
1	9:40:00	7784.06	14.91%
1	9:45:00	7763.07	14.87%
1	9:50:00	7742.11	14.83%
1	9:55:00	7721.18	14.79%
1	10:00:00	7700.29	14.75%
1	10:05:00	7679.44	14.71%
1	10:10:00	7658.62	14.67%
1	10:15:00	7637.83	14.63%
1	10:20:00	7617.08	14.59%
1	10:25:00	7596.36	14.55%
1	10:30:00	7575.68	14.51%
1	10:35:00	7555.03	14.47%
1	10:40:00	7534.42	14.43%
1	10:45:00	7513.84	14.39%
1	10:50:00	7493.3	14.35%
1	10:55:00	7472.79	14.31%
1	11:00:00	7452.32	14.27%
1	11:05:00	7431.88	14.23%
1	11:10:00	7411.48	14.19%
1	11:15:00	7391.12	14.15%
1	11:20:00	7370.78	14.12%
1	11:25:00	7350.49	14.08%
1	11:30:00	7330.23	14.04%
1	11:35:00	7310	14.00%
1	11:40:00	7289.81	13.96%
1	11:45:00	7269.65	13.92%
1	11:50:00	7249.53	13.88%
1	11:55:00	7229.45	13.84%
1	12:00:00	7209.4	13.81%
1	12:05:00	7189.39	13.77%
1	12:10:00	7169.41	13.73%
1	12:15:00	7149.47	13.69%
1	12:20:00	7129.56	13.65%
1	12:25:00	7109.69	13.62%
1	12:30:00	7089.85	13.58%
1	12:35:00	7070.05	13.54%
1	12:40:00	7050.29	13.50%
1	12:45:00	7030.56	13.46%
1	12:50:00	7010.87	13.43%
1	12:55:00	6991.21	13.39%
1	13:00:00	6971.59	13.35%
1	13:05:00	6952	13.31%
1	13:10:00	6932.46	13.28%
1	13:15:00	6912.94	13.24%
1	13:20:00	6893.47	13.20%
1	13:25:00	6874.02	13.16%
1	13:30:00	6854.62	13.13%
1	13:35:00	6835.25	13.09%
1	13:40:00	6815.92	13.05%
1	13:45:00	6796.62	13.02%
1	13:50:00	6777.36	12.98%
1	13:55:00	6758.14	12.94%
1	14:00:00	6738.95	12.91%
1	14:05:00	6719.8	12.87%
1	14:10:00	6700.69	12.83%
1	14:15:00	6681.61	12.80%
1	14:20:00	6662.57	12.76%
1	14:25:00	6643.57	12.72%
1	14:30:00	6624.6	12.69%
1	14:35:00	6605.67	12.65%
1	14:40:00	6586.78	12.61%
1	14:45:00	6567.92	12.58%
1	14:50:00	6549.1	12.54%
1	14:55:00	6530.31	12.51%
1	15:00:00	6511.57	12.47%
1	15:05:00	6492.86	12.43%
1	15:10:00	6474.19	12.40%
1	15:15:00	6455.55	12.36%
1	15:20:00	6436.96	12.33%
1	15:25:00	6418.4	12.29%

1	8:50:00	12550.4	26.18%
1	8:55:00	12493.56	26.06%
1	9:00:00	12436.91	25.94%
1	9:05:00	12380.45	25.82%
1	9:10:00	12324.17	25.71%
1	9:15:00	12268.09	25.59%
1	9:20:00	12212.19	25.47%
1	9:25:00	12156.48	25.36%
1	9:30:00	12100.96	25.24%
1	9:35:00	12045.64	25.12%
1	9:40:00	11990.5	25.01%
1	9:45:00	11935.55	24.89%
1	9:50:00	11880.8	24.78%
1	9:55:00	11826.24	24.67%
1	10:00:00	11771.87	24.55%
1	10:05:00	11717.7	24.44%
1	10:10:00	11663.72	24.33%
1	10:15:00	11609.93	24.22%
1	10:20:00	11556.34	24.10%
1	10:25:00	11502.95	23.99%
1	10:30:00	11449.75	23.88%
1	10:35:00	11396.75	23.77%
1	10:40:00	11343.94	23.66%
1	10:45:00	11291.33	23.55%
1	10:50:00	11238.93	23.44%
1	10:55:00	11186.72	23.33%
1	11:00:00	11134.71	23.22%
1	11:05:00	11082.91	23.12%
1	11:10:00	11031.3	23.01%
1	11:15:00	10979.9	22.90%
1	11:20:00	10928.71	22.79%
1	11:25:00	10877.71	22.69%
1	11:30:00	10826.92	22.58%
1	11:35:00	10776.34	22.48%
1	11:40:00	10725.97	22.37%
1	11:45:00	10675.8	22.27%
1	11:50:00	10625.85	22.16%
1	11:55:00	10576.1	22.06%
1	12:00:00	10526.57	21.96%
1	12:05:00	10477.25	21.85%
1	12:10:00	10428.15	21.75%
1	12:15:00	10379.26	21.65%
1	12:20:00	10330.58	21.55%
1	12:25:00	10282.13	21.45%
1	12:30:00	10233.9	21.35%
1	12:35:00	10185.89	21.25%
1	12:40:00	10138.11	21.15%
1	12:45:00	10090.55	21.05%
1	12:50:00	10043.22	20.95%
1	12:55:00	9996.12	20.85%
1	13:00:00	9949.26	20.75%
1	13:05:00	9902.63	20.65%
1	13:10:00	9856.24	20.56%
1	13:15:00	9810.1	20.46%
1	13:20:00	9764.21	20.37%
1	13:25:00	9718.6	20.27%
1	13:30:00	9673.3	20.18%
1	13:35:00	9628.31	20.08%
1	13:40:00	9583.62	19.99%
1	13:45:00	9539.23	19.90%
1	13:50:00	9495.12	19.80%
1	13:55:00	9451.29	19.71%
1	14:00:00	9407.75	19.62%
1	14:05:00	9364.48	19.53%
1	14:10:00	9321.47	19.44%
1	14:15:00	9278.72	19.35%
1	14:20:00	9236.23	19.26%
1	14:25:00	9193.99	19.18%
1	14:30:00	9151.99	19.09%
1	14:35:00	9110.23	19.00%
1	14:40:00	9068.7	18.91%
1	14:45:00	9027.4	18.83%
1	14:50:00	8986.31	18.74%
1	14:55:00	8945.44	18.66%
1	15:00:00	8904.78	18.57%
1	15:05:00	8864.31	18.49%
1	15:10:00	8824.03	18.40%
1	15:15:00	8783.94	18.32%
1	15:20:00	8744.02	18.24%
1	15:25:00	8704.27	18.15%

1	8:50:00	4281.98	26.91%
1	8:55:00	4264.52	26.80%
1	9:00:00	4247.11	26.69%
1	9:05:00	4229.76	26.58%
1	9:10:00	4212.45	26.48%
1	9:15:00	4195.18	26.37%
1	9:20:00	4177.96	26.26%
1	9:25:00	4160.77	26.15%
1	9:30:00	4143.62	26.04%
1	9:35:00	4126.49	25.94%
1	9:40:00	4109.4	25.83%
1	9:45:00	4092.33	25.72%
1	9:50:00	4075.29	25.61%
1	9:55:00	4058.29	25.51%
1	10:00:00	4041.31	25.40%
1	10:05:00	4024.37	25.29%
1	10:10:00	4007.46	25.19%
1	10:15:00	3990.57	25.08%
1	10:20:00	3973.72	24.97%
1	10:25:00	3956.9	24.87%
1	10:30:00	3940.1	24.76%
1	10:35:00	3923.34	24.66%
1	10:40:00	3906.61	24.55%
1	10:45:00	3889.92	24.45%
1	10:50:00	3873.25	24.34%
1	10:55:00	3856.61	24.24%
1	11:00:00	3840	24.13%
1	11:05:00	3823.43	24.03%
1	11:10:00	3806.89	23.93%
1	11:15:00	3790.38	23.82%
1	11:20:00	3773.9	23.72%
1	11:25:00	3757.45	23.62%
1	11:30:00	3741.03	23.51%
1	11:35:00	3724.65	23.41%
1	11:40:00	3708.29	23.31%
1	11:45:00	3691.97	23.20%
1	11:50:00	3675.68	23.10%
1	11:55:00	3659.42	23.00%
1	12:00:00	3643.2	22.90%
1	12:05:00	3627.01	22.80%
1	12:10:00	3610.85	22.69%
1	12:15:00	3594.72	22.59%
1	12:20:00	3578.62	22.49%
1	12:25:00	3562.56	22.39%
1	12:30:00	3546.53	22.29%
1	12:35:00	3530.53	22.19%
1	12:40:00	3514.56	22.09%
1	12:45:00	3498.63	21.99%
1	12:50:00	3482.73	21.89%
1	12:55:00	3466.87	21.79%
1	13:00:00	3451.03	21.69%
1	13:05:00	3435.23	21.59%
1	13:10:00	3419.47	21.49%
1	13:15:00	3403.73	21.39%
1	13:20:00	3388.03	21.29%
1	13:25:00	3372.37	21.20%
1	13:30:00	3356.74	21.10%
1	13:35:00	3341.14	21.00%
1	13:40:00	3325.57	20.90%
1	13:45:00	3310.04	20.80%
1	13:50:00	3294.55	20.71%
1	13:55:00	3279.08	20.61%
1	14:00:00	3263.66	20.51%
1	14:05:00	3248.26	20.42%
1	14:10:00	3232.9	20.32%
1	14:15:00	3217.58	20.22%
1	14:20:00	3202.29	20.13%
1	14:25:00	3187.03	20.03%
1	14:30:00	3171.81	19.93%
1	14:35:00	3156.62	19.84%
1	14:40:00	3141.47	19.74%
1	14:45:00	3126.36	19.65%
1	14:50:00	3111.28	19.55%
1	14:55:00	3096.23	19.46%
1	15:00:00	3081.22	19.37%
1	15:05:00	3066.25	19.27%
1	15:10:00	3051.31	19.18%
1	15:15:00	3036.41	19.08%
1	15:20:00	3021.54	18.99%
1	15:25:00	3006.71	18.90%

1	15:30:00	16976.72	16.92%
1	15:35:00	16923.73	16.87%
1	15:40:00	16870.84	16.82%
1	15:45:00	16818.05	16.76%
1	15:50:00	16765.36	16.71%
1	15:55:00	16712.77	16.66%
1	16:00:00	16660.28	16.61%
1	16:05:00	16607.89	16.55%
1	16:10:00	16555.6	16.50%
1	16:15:00	16503.41	16.45%
1	16:20:00	16451.32	16.40%
1	16:25:00	16399.33	16.35%
1	16:30:00	16347.44	16.29%
1	16:35:00	16295.66	16.24%
1	16:40:00	16243.97	16.19%
1	16:45:00	16192.38	16.14%
1	16:50:00	16140.89	16.09%
1	16:55:00	16089.51	16.04%
1	17:00:00	16038.22	15.99%
1	17:05:00	15987.04	15.94%
1	17:10:00	15935.96	15.88%
1	17:15:00	15884.98	15.83%
1	17:20:00	15834.1	15.78%
1	17:25:00	15783.32	15.73%
1	17:30:00	15732.64	15.68%
1	17:35:00	15682.07	15.63%
1	17:40:00	15631.6	15.58%
1	17:45:00	15581.23	15.53%
1	17:50:00	15530.96	15.48%
1	17:55:00	15480.79	15.43%
1	18:00:00	15430.73	15.38%
1	18:05:00	15380.77	15.33%
1	18:10:00	15330.91	15.28%
1	18:15:00	15281.15	15.23%
1	18:20:00	15231.5	15.18%
1	18:25:00	15181.94	15.13%
1	18:30:00	15132.5	15.08%
1	18:35:00	15083.15	15.03%
1	18:40:00	15033.91	14.99%
1	18:45:00	14984.77	14.94%
1	18:50:00	14935.74	14.89%
1	18:55:00	14886.8	14.84%
1	19:00:00	14837.98	14.79%
1	19:05:00	14789.25	14.74%
1	19:10:00	14740.63	14.69%
1	19:15:00	14692.11	14.64%
1	19:20:00	14643.7	14.60%
1	19:25:00	14595.39	14.55%
1	19:30:00	14547.19	14.50%
1	19:35:00	14499.09	14.45%
1	19:40:00	14451.1	14.40%
1	19:45:00	14403.21	14.36%
1	19:50:00	14355.42	14.31%
1	19:55:00	14307.74	14.26%
1	20:00:00	14260.17	14.21%
1	20:05:00	14212.7	14.17%
1	20:10:00	14165.33	14.12%
1	20:15:00	14118.08	14.07%
1	20:20:00	14070.92	14.03%
1	20:25:00	14023.88	13.98%
1	20:30:00	13976.94	13.93%
1	20:35:00	13930.1	13.88%
1	20:40:00	13883.37	13.84%
1	20:45:00	13836.75	13.79%
1	20:50:00	13790.23	13.75%
1	20:55:00	13743.83	13.70%
1	21:00:00	13697.52	13.65%
1	21:05:00	13651.33	13.61%
1	21:10:00	13605.24	13.56%
1	21:15:00	13559.26	13.52%
1	21:20:00	13513.39	13.47%
1	21:25:00	13467.62	13.42%
1	21:30:00	13421.96	13.38%
1	21:35:00	13376.41	13.33%
1	21:40:00	13330.97	13.29%
1	21:45:00	13285.64	13.24%
1	21:50:00	13240.41	13.20%
1	21:55:00	13195.3	13.15%
1	22:00:00	13150.29	13.11%
1	22:05:00	13105.39	13.06%

1	15:30:00	6399.87	12.26%
1	15:35:00	6381.39	12.22%
1	15:40:00	6362.94	12.19%
1	15:45:00	6344.53	12.15%
1	15:50:00	6326.15	12.11%
1	15:55:00	6307.82	12.08%
1	16:00:00	6289.52	12.04%
1	16:05:00	6271.26	12.01%
1	16:10:00	6253.04	11.97%
1	16:15:00	6234.85	11.94%
1	16:20:00	6216.71	11.91%
1	16:25:00	6198.6	11.87%
1	16:30:00	6180.53	11.84%
1	16:35:00	6162.5	11.80%
1	16:40:00	6144.5	11.77%
1	16:45:00	6126.55	11.73%
1	16:50:00	6108.63	11.70%
1	16:55:00	6090.75	11.66%
1	17:00:00	6072.91	11.63%
1	17:05:00	6055.11	11.60%
1	17:10:00	6037.35	11.56%
1	17:15:00	6019.62	11.53%
1	17:20:00	6001.94	11.49%
1	17:25:00	5984.29	11.46%
1	17:30:00	5966.68	11.43%
1	17:35:00	5949.11	11.39%
1	17:40:00	5931.58	11.36%
1	17:45:00	5914.09	11.33%
1	17:50:00	5896.64	11.29%
1	17:55:00	5879.23	11.26%
1	18:00:00	5861.86	11.23%
1	18:05:00	5844.53	11.19%
1	18:10:00	5827.23	11.16%
1	18:15:00	5809.98	11.13%
1	18:20:00	5792.77	11.09%
1	18:25:00	5775.59	11.06%
1	18:30:00	5758.46	11.03%
1	18:35:00	5741.37	10.99%
1	18:40:00	5724.32	10.96%
1	18:45:00	5707.3	10.93%
1	18:50:00	5690.33	10.90%
1	18:55:00	5673.4	10.86%
1	19:00:00	5656.51	10.83%
1	19:05:00	5639.66	10.80%
1	19:10:00	5622.85	10.77%
1	19:15:00	5606.09	10.74%
1	19:20:00	5589.36	10.70%
1	19:25:00	5572.68	10.67%
1	19:30:00	5556.03	10.64%
1	19:35:00	5539.43	10.61%
1	19:40:00	5522.87	10.58%
1	19:45:00	5506.36	10.54%
1	19:50:00	5489.88	10.51%
1	19:55:00	5473.45	10.48%
1	20:00:00	5457.06	10.45%
1	20:05:00	5440.71	10.42%
1	20:10:00	5424.4	10.39%
1	20:15:00	5408.14	10.36%
1	20:20:00	5391.92	10.33%
1	20:25:00	5375.75	10.29%
1	20:30:00	5359.61	10.26%
1	20:35:00	5343.52	10.23%
1	20:40:00	5327.48	10.20%
1	20:45:00	5311.48	10.17%
1	20:50:00	5295.52	10.14%
1	20:55:00	5279.61	10.11%
1	21:00:00	5263.74	10.08%
1	21:05:00	5247.92	10.05%
1	21:10:00	5232.14	10.02%
1	21:15:00	5216.41	9.99%
1	21:20:00	5200.72	9.96%
1	21:25:00	5185.08	9.93%
1	21:30:00	5169.49	9.90%
1	21:35:00	5153.94	9.87%
1	21:40:00	5138.44	9.84%
1	21:45:00	5122.99	9.81%
1	21:50:00	5107.58	9.78%
1	21:55:00	5092.22	9.75%
1	22:00:00	5076.91	9.72%
1	22:05:00	5061.65	9.69%

1	15:30:00	8664.66	18.07%
1	15:35:00	8625.19	17.99%
1	15:40:00	8585.83	17.91%
1	15:45:00	8546.58	17.83%
1	15:50:00	8507.45	17.74%
1	15:55:00	8468.43	17.66%
1	16:00:00	8429.53	17.58%
1	16:05:00	8390.74	17.50%
1	16:10:00	8352.07	17.42%
1	16:15:00	8313.51	17.34%
1	16:20:00	8275.07	17.26%
1	16:25:00	8236.74	17.18%
1	16:30:00	8198.52	17.10%
1	16:35:00	8160.43	17.02%
1	16:40:00	8122.45	16.94%
1	16:45:00	8084.58	16.86%
1	16:50:00	8046.83	16.78%
1	16:55:00	8009.2	16.71%
1	17:00:00	7971.69	16.63%
1	17:05:00	7934.29	16.55%
1	17:10:00	7897	16.47%
1	17:15:00	7859.84	16.39%
1	17:20:00	7822.79	16.32%
1	17:25:00	7785.86	16.24%
1	17:30:00	7749.04	16.16%
1	17:35:00	7712.35	16.09%
1	17:40:00	7675.77	16.01%
1	17:45:00	7639.31	15.93%
1	17:50:00	7602.97	15.86%
1	17:55:00	7566.74	15.78%
1	18:00:00	7530.64	15.71%
1	18:05:00	7494.65	15.63%
1	18:10:00	7458.79	15.56%
1	18:15:00	7423.04	15.48%
1	18:20:00	7387.41	15.41%
1	18:25:00	7351.9	15.33%
1	18:30:00	7316.51	15.26%
1	18:35:00	7281.24	15.19%
1	18:40:00	7246.09	15.11%
1	18:45:00	7211.07	15.04%
1	18:50:00	7176.16	14.97%
1	18:55:00	7141.37	14.90%
1	19:00:00	7106.71	14.82%
1	19:05:00	7072.17	14.75%
1	19:10:00	7037.74	14.68%
1	19:15:00	7003.44	14.61%
1	19:20:00	6969.27	14.54%
1	19:25:00	6935.21	14.47%
1	19:30:00	6901.28	14.39%
1	19:35:00	6867.47	14.32%
1	19:40:00	6833.78	14.25%
1	19:45:00	6800.22	14.18%
1	19:50:00	6766.78	14.11%
1	19:55:00	6733.47	14.04%
1	20:00:00	6700.28	13.98%
1	20:05:00	6667.21	13.91%
1	20:10:00	6634.27	13.84%
1	20:15:00	6601.46	13.77%
1	20:20:00	6568.77	13.70%
1	20:25:00	6536.2	13.63%
1	20:30:00	6503.77	13.57%
1	20:35:00	6471.46	13.50%
1	20:40:00	6439.27	13.43%
1	20:45:00	6407.22	13.36%
1	20:50:00	6375.29	13.30%
1	20:55:00	6343.49	13.23%
1	21:00:00	6311.82	13.16%
1	21:05:00	6280.28	13.10%
1	21:10:00	6248.87	13.03%
1	21:15:00	6217.59	12.97%
1	21:20:00	6186.44	12.90%
1	21:25:00	6155.42	12.84%
1	21:30:00	6124.53	12.77%
1	21:35:00	6093.77	12.71%
1	21:40:00	6063.15	12.65%
1	21:45:00	6032.66	12.58%
1	21:50:00	6002.3	12.52%
1	21:55:00	5972.07	12.46%
1	22:00:00	5941.98	12.39%
1	22:05:00	5912.03	12.33%

1	15:30:00	2991.92	18.80%
1	15:35:00	2977.16	18.71%
1	15:40:00	2962.43	18.62%
1	15:45:00	2947.75	18.53%
1	15:50:00	2933.1	18.43%
1	15:55:00	2918.49	18.34%
1	16:00:00	2903.91	18.25%
1	16:05:00	2889.37	18.16%
1	16:10:00	2874.87	18.07%
1	16:15:00	2860.4	17.98%
1	16:20:00	2845.98	17.89%
1	16:25:00	2831.59	17.80%
1	16:30:00	2817.23	17.71%
1	16:35:00	2802.92	17.62%
1	16:40:00	2788.64	17.53%
1	16:45:00	2774.4	17.44%
1	16:50:00	2760.2	17.35%
1	16:55:00	2746.03	17.26%
1	17:00:00	2731.91	17.17%
1	17:05:00	2717.82	17.08%
1	17:10:00	2703.77	16.99%
1	17:15:00	2689.76	16.91%
1	17:20:00	2675.79	16.82%
1	17:25:00	2661.85	16.73%
1	17:30:00	2647.96	16.64%
1	17:35:00	2634.1	16.56%
1	17:40:00	2620.29	16.47%
1	17:45:00	2606.51	16.38%
1	17:50:00	2592.78	16.30%
1	17:55:00	2579.08	16.21%
1	18:00:00	2565.42	16.12%
1	18:05:00	2551.8	16.04%
1	18:10:00	2538.22	15.95%
1	18:15:00	2524.69	15.87%
1	18:20:00	2511.19	15.78%
1	18:25:00	2497.73	15.70%
1	18:30:00	2484.32	15.61%
1	18:35:00	2470.94	15.53%
1	18:40:00	2457.61	15.45%
1	18:45:00	2444.31	15.36%
1	18:50:00	2431.06	15.28%
1	18:55:00	2417.85	15.20%
1	19:00:00	2404.68	15.11%
1	19:05:00	2391.55	15.03%
1	19:10:00	2378.47	14.95%
1	19:15:00	2365.42	14.87%
1	19:20:00	2352.42	14.78%
1	19:25:00	2339.46	14.70%
1	19:30:00	2326.55	14.62%
1	19:35:00	2313.67	14.54%
1	19:40:00	2300.84	14.46%
1	19:45:00	2288.05	14.38%
1	19:50:00	2275.31	14.30%
1	19:55:00	2262.61	14.22%
1	20:00:00	2249.95	14.14%
1	20:05:00	2237.34	14.06%
1	20:10:00	2224.77	13.98%
1	20:15:00	2212.24	13.90%
1	20:20:00	2199.76	13.83%
1	20:25:00	2187.32	13.75%
1	20:30:00	2174.93	13.67%
1	20:35:00	2162.58	13.59%
1	20:40:00	2150.28	13.51%
1	20:45:00	2138.02	13.44%
1	20:50:00	2125.81	13.36%
1	20:55:00	2113.64	13.28%
1	21:00:00	2101.52	13.21%
1	21:05:00	2089.45	13.13%
1	21:10:00	2077.42	13.06%
1	21:15:00	2065.44	12.98%
1	21:20:00	2053.51	12.91%
1	21:25:00	2041.62	12.83%
1	21:30:00	2029.78	12.76%
1	21:35:00	2017.99	12.68%
1	21:40:00	2006.24	12.61%
1	21:45:00	1994.55	12.54%
1	21:50:00	1982.9	12.46%
1	21:55:00	1971.3	12.39%
1	22:00:00	1959.75	12.32%
1	22:05:00	1948.24	12.24%

1	22:10:00	13060.6	13.02%
1	22:15:00	13015.92	12.97%
1	22:20:00	12971.35	12.93%
1	22:25:00	12926.89	12.88%
1	22:30:00	12882.54	12.84%
1	22:35:00	12838.29	12.80%
1	22:40:00	12794.16	12.75%
1	22:45:00	12750.14	12.71%
1	22:50:00	12706.23	12.67%
1	22:55:00	12662.43	12.62%
1	23:00:00	12618.74	12.58%
1	23:05:00	12575.16	12.53%
1	23:10:00	12531.7	12.49%
1	23:15:00	12488.34	12.45%
1	23:20:00	12445.1	12.40%
1	23:25:00	12401.97	12.36%
1	23:30:00	12358.95	12.32%
1	23:35:00	12316.04	12.28%
1	23:40:00	12273.25	12.23%
1	23:45:00	12230.57	12.19%
1	23:50:00	12188	12.15%
1	23:55:00	12145.55	12.11%
1	0:00:00	12103.21	12.06%
2	0:05:00	12060.98	12.02%
2	0:10:00	12018.87	11.98%
2	0:15:00	11976.87	11.94%
2	0:20:00	11934.99	11.90%
2	0:25:00	11893.22	11.85%
2	0:30:00	11851.57	11.81%
2	0:35:00	11810.03	11.77%
2	0:40:00	11768.6	11.73%
2	0:45:00	11727.3	11.69%
2	0:50:00	11686.11	11.65%
2	0:55:00	11645.04	11.61%
2	1:00:00	11604.08	11.57%
2	1:05:00	11563.24	11.53%
2	1:10:00	11522.52	11.49%
2	1:15:00	11481.91	11.44%
2	1:20:00	11441.43	11.40%
2	1:25:00	11401.06	11.36%
2	1:30:00	11360.81	11.32%
2	1:35:00	11320.69	11.28%
2	1:40:00	11280.68	11.24%
2	1:45:00	11240.79	11.20%
2	1:50:00	11201.02	11.16%
2	1:55:00	11161.37	11.13%
2	2:00:00	11121.84	11.09%
2	2:05:00	11082.44	11.05%
2	2:10:00	11043.16	11.01%
2	2:15:00	11004	10.97%
2	2:20:00	10964.96	10.93%
2	2:25:00	10926.05	10.89%
2	2:30:00	10887.26	10.85%
2	2:35:00	10848.59	10.81%
2	2:40:00	10810.05	10.77%
2	2:45:00	10771.64	10.74%
2	2:50:00	10733.35	10.70%
2	2:55:00	10695.19	10.66%
2	3:00:00	10657.15	10.62%
2	3:05:00	10619.25	10.58%
2	3:10:00	10581.47	10.55%
2	3:15:00	10543.82	10.51%
2	3:20:00	10506.3	10.47%
2	3:25:00	10468.92	10.43%
2	3:30:00	10431.66	10.40%
2	3:35:00	10394.53	10.36%
2	3:40:00	10357.54	10.32%
2	3:45:00	10320.69	10.29%
2	3:50:00	10283.96	10.25%
2	3:55:00	10247.38	10.21%
2	4:00:00	10210.93	10.18%
2	4:05:00	10174.62	10.14%
2	4:10:00	10138.44	10.11%
2	4:15:00	10102.41	10.07%
2	4:20:00	10066.52	10.03%
2	4:25:00	10030.77	10.00%
2	4:30:00	9995.17	9.96%
2	4:35:00	9959.71	9.93%
2	4:40:00	9924.4	9.89%
2	4:45:00	9889.23	9.86%

1	22:10:00	5046.44	9.66%
1	22:15:00	5031.28	9.63%
1	22:20:00	5016.16	9.61%
1	22:25:00	5001.1	9.58%
1	22:30:00	4986.11	9.55%
1	22:35:00	4971.18	9.52%
1	22:40:00	4956.32	9.49%
1	22:45:00	4941.53	9.46%
1	22:50:00	4926.79	9.43%
1	22:55:00	4912.13	9.41%
1	23:00:00	4897.52	9.38%
1	23:05:00	4882.98	9.35%
1	23:10:00	4868.49	9.32%
1	23:15:00	4854.07	9.30%
1	23:20:00	4839.71	9.27%
1	23:25:00	4825.41	9.24%
1	23:30:00	4811.17	9.21%
1	23:35:00	4796.98	9.19%
1	23:40:00	4782.85	9.16%
1	23:45:00	4768.78	9.13%
1	23:50:00	4754.77	9.11%
1	23:55:00	4740.81	9.08%
1	0:00:00	4726.91	9.05%
2	0:05:00	4713.06	9.03%
2	0:10:00	4699.26	9.00%
2	0:15:00	4685.51	8.97%
2	0:20:00	4671.82	8.95%
2	0:25:00	4658.18	8.92%
2	0:30:00	4644.59	8.89%
2	0:35:00	4631.05	8.87%
2	0:40:00	4617.56	8.84%
2	0:45:00	4604.12	8.82%
2	0:50:00	4590.73	8.79%
2	0:55:00	4577.38	8.77%
2	1:00:00	4564.09	8.74%
2	1:05:00	4550.83	8.71%
2	1:10:00	4537.63	8.69%
2	1:15:00	4524.47	8.66%
2	1:20:00	4511.35	8.64%
2	1:25:00	4498.28	8.61%
2	1:30:00	4485.25	8.59%
2	1:35:00	4472.26	8.56%
2	1:40:00	4459.31	8.54%
2	1:45:00	4446.41	8.51%
2	1:50:00	4433.54	8.49%
2	1:55:00	4420.72	8.47%
2	2:00:00	4407.93	8.44%
2	2:05:00	4395.18	8.42%
2	2:10:00	4382.47	8.39%
2	2:15:00	4369.8	8.37%
2	2:20:00	4357.16	8.34%
2	2:25:00	4344.56	8.32%
2	2:30:00	4331.99	8.30%
2	2:35:00	4319.46	8.27%
2	2:40:00	4306.95	8.25%
2	2:45:00	4294.49	8.22%
2	2:50:00	4282.05	8.20%
2	2:55:00	4269.64	8.18%
2	3:00:00	4257.26	8.15%
2	3:05:00	4244.91	8.13%
2	3:10:00	4232.59	8.11%
2	3:15:00	4220.3	8.08%
2	3:20:00	4208.03	8.06%
2	3:25:00	4195.78	8.03%
2	3:30:00	4183.56	8.01%
2	3:35:00	4171.36	7.99%
2	3:40:00	4159.18	7.96%
2	3:45:00	4147.01	7.94%
2	3:50:00	4134.85	7.92%
2	3:55:00	4122.72	7.90%
2	4:00:00	4110.59	7.87%
2	4:05:00	4098.48	7.85%
2	4:10:00	4086.38	7.83%
2	4:15:00	4074.3	7.80%
2	4:20:00	4062.24	7.78%
2	4:25:00	4050.18	7.76%
2	4:30:00	4038.15	7.73%
2	4:35:00	4026.12	7.71%
2	4:40:00	4014.12	7.69%
2	4:45:00	4002.12	7.66%

1	22:10:00	5882.21	12.27%
1	22:15:00	5852.53	12.21%
1	22:20:00	5822.99	12.15%
1	22:25:00	5793.58	12.08%
1	22:30:00	5764.31	12.02%
1	22:35:00	5735.19	11.96%
1	22:40:00	5706.2	11.90%
1	22:45:00	5677.35	11.84%
1	22:50:00	5648.65	11.78%
1	22:55:00	5620.09	11.72%
1	23:00:00	5591.67	11.66%
1	23:05:00	5563.4	11.60%
1	23:10:00	5535.27	11.55%
1	23:15:00	5507.29	11.49%
1	23:20:00	5479.46	11.43%
1	23:25:00	5451.78	11.37%
1	23:30:00	5424.25	11.31%
1	23:35:00	5396.87	11.26%
1	23:40:00	5369.64	11.20%
1	23:45:00	5342.61	11.14%
1	23:50:00	5315.78	11.09%
1	23:55:00	5289.15	11.03%
1	0:00:00	5262.71	10.98%
2	0:05:00	5236.48	10.92%
2	0:10:00	5210.43	10.87%
2	0:15:00	5184.57	10.81%
2	0:20:00	5158.9	10.76%
2	0:25:00	5133.41	10.71%
2	0:30:00	5108.1	10.65%
2	0:35:00	5082.98	10.60%
2	0:40:00	5058.02	10.55%
2	0:45:00	5033.24	10.50%
2	0:50:00	5008.62	10.45%
2	0:55:00	4984.17	10.40%
2	1:00:00	4959.89	10.35%
2	1:05:00	4935.77	10.29%
2	1:10:00	4911.8	10.24%
2	1:15:00	4888	10.20%
2	1:20:00	4864.34	10.15%
2	1:25:00	4840.84	10.10%
2	1:30:00	4817.48	10.05%
2	1:35:00	4794.28	10.00%
2	1:40:00	4771.21	9.95%
2	1:45:00	4748.29	9.90%
2	1:50:00	4725.5	9.86%
2	1:55:00	4702.85	9.81%
2	2:00:00	4680.33	9.76%
2	2:05:00	4657.95	9.72%
2	2:10:00	4635.69	9.67%
2	2:15:00	4613.56	9.62%
2	2:20:00	4591.55	9.58%
2	2:25:00	4569.66	9.53%
2	2:30:00	4547.9	9.49%
2	2:35:00	4526.24	9.44%
2	2:40:00	4504.71	9.40%
2	2:45:00	4483.28	9.35%
2	2:50:00	4461.96	9.31%
2	2:55:00	4440.75	9.26%
2	3:00:00	4419.64	9.22%
2	3:05:00	4398.63	9.17%
2	3:10:00	4377.72	9.13%
2	3:15:00	4356.9	9.09%
2	3:20:00	4336.18	9.04%
2	3:25:00	4315.54	9.00%
2	3:30:00	4294.99	8.96%
2	3:35:00	4274.53	8.92%
2	3:40:00	4254.14	8.87%
2	3:45:00	4233.84	8.83%
2	3:50:00	4213.6	8.79%
2	3:55:00	4193.43	8.75%
2	4:00:00	4173.32	8.70%
2	4:05:00	4153.27	8.66%
2	4:10:00	4133.26	8.62%
2	4:15:00	4113.29	8.58%
2	4:20:00	4093.37	8.54%
2	4:25:00	4073.49	8.50%
2	4:30:00	4053.66	8.45%
2	4:35:00	4033.87	8.41%
2	4:40:00	4014.12	8.37%
2	4:45:00	3994.42	8.33%

1	22:10:00	1936.79	12.17%
1	22:15:00	1925.39	12.10%
1	22:20:00	1914.03	12.03%
1	22:25:00	1902.73	11.96%
1	22:30:00	1891.48	11.89%
1	22:35:00	1880.27	11.82%
1	22:40:00	1869.12	11.75%
1	22:45:00	1858.02	11.68%
1	22:50:00	1846.97	11.61%
1	22:55:00	1835.98	11.54%
1	23:00:00	1825.03	11.47%
1	23:05:00	1814.14	11.40%
1	23:10:00	1803.3	11.33%
1	23:15:00	1792.51	11.27%
1	23:20:00	1781.78	11.20%
1	23:25:00	1771.1	11.13%
1	23:30:00	1760.47	11.06%
1	23:35:00	1749.9	11.00%
1	23:40:00	1739.39	10.93%
1	23:45:00	1728.93	10.87%
1	23:50:00	1718.53	10.80%
1	23:55:00	1708.18	10.74%
1	0:00:00	1697.89	10.67%
2	0:05:00	1687.65	10.61%
2	0:10:00	1677.48	10.54%
2	0:15:00	1667.36	10.48%
2	0:20:00	1657.3	10.42%
2	0:25:00	1647.3	10.35%
2	0:30:00	1637.36	10.29%
2	0:35:00	1627.48	10.23%
2	0:40:00	1617.66	10.17%
2	0:45:00	1607.91	10.11%
2	0:50:00	1598.25	10.05%
2	0:55:00	1588.68	9.98%
2	1:00:00	1579.19	9.93%
2	1:05:00	1569.78	9.87%
2	1:10:00	1560.45	9.81%
2	1:15:00	1551.2	9.75%
2	1:20:00	1542.03	9.69%
2	1:25:00	1532.94	9.63%
2	1:30:00	1523.92	9.58%
2	1:35:00	1514.98	9.52%
2	1:40:00	1506.12	9.47%
2	1:45:00	1497.33	9.41%
2	1:50:00	1488.61	9.36%
2	1:55:00	1479.97	9.30%
2	2:00:00	1471.39	9.25%
2	2:05:00	1462.89	9.19%
2	2:10:00	1454.46	9.14%
2	2:15:00	1446.09	9.09%
2	2:20:00	1437.8	9.04%
2	2:25:00	1429.57	8.98%
2	2:30:00	1421.4	8.93%
2	2:35:00	1413.3	8.88%
2	2:40:00	1405.27	8.83%
2	2:45:00	1397.3	8.78%
2	2:50:00	1389.39	8.73%
2	2:55:00	1381.54	8.68%
2	3:00:00	1373.75	8.63%
2	3:05:00	1366.03	8.59%
2	3:10:00	1358.36	8.54%
2	3:15:00	1350.75	8.49%
2	3:20:00	1343.2	8.44%
2	3:25:00	1335.7	8.39%
2	3:30:00	1328.26	8.35%
2	3:35:00	1320.88	8.30%
2	3:40:00	1313.55	8.26%
2	3:45:00	1306.28	8.21%
2	3:50:00	1299.05	8.16%
2	3:55:00	1291.88	8.12%
2	4:00:00	1284.76	8.07%
2	4:05:00	1277.69	8.03%
2	4:10:00	1270.67	7.99%
2	4:15:00	1263.7	7.94%
2	4:20:00	1256.78	7.90%
2	4:25:00	1249.9	7.86%
2	4:30:00	1243.07	7.81%
2	4:35:00	1236.29	7.77%
2	4:40:00	1229.55	7.73%
2	4:45:00	1222.85	7.69%

2	4:50:00	9854.22	9.82%
2	4:55:00	9819.36	9.79%
2	5:00:00	9784.66	9.75%
2	5:05:00	9750.12	9.72%
2	5:10:00	9715.78	9.68%
2	5:15:00	9681.64	9.65%
2	5:20:00	9647.71	9.62%
2	5:25:00	9613.96	9.58%
2	5:30:00	9580.42	9.55%
2	5:35:00	9547.06	9.52%
2	5:40:00	9513.89	9.48%
2	5:45:00	9480.91	9.45%
2	5:50:00	9448.1	9.42%
2	5:55:00	9415.47	9.38%
2	6:00:00	9383.02	9.35%
2	6:05:00	9350.74	9.32%
2	6:10:00	9318.62	9.29%
2	6:15:00	9286.67	9.26%
2	6:20:00	9254.88	9.22%
2	6:25:00	9223.25	9.19%
2	6:30:00	9191.77	9.16%
2	6:35:00	9160.44	9.13%
2	6:40:00	9129.27	9.10%
2	6:45:00	9098.23	9.07%
2	6:50:00	9067.34	9.04%
2	6:55:00	9036.58	9.01%
2	7:00:00	9005.96	8.98%
2	7:05:00	8975.47	8.95%
2	7:10:00	8945.11	8.92%
2	7:15:00	8914.87	8.89%
2	7:20:00	8884.74	8.86%
2	7:25:00	8854.74	8.83%
2	7:30:00	8824.84	8.80%
2	7:35:00	8795.05	8.77%
2	7:40:00	8765.36	8.74%
2	7:45:00	8735.77	8.71%
2	7:50:00	8706.27	8.68%
2	7:55:00	8676.85	8.65%
2	8:00:00	8647.5	8.62%
2	8:05:00	8618.21	8.59%
2	8:10:00	8588.97	8.56%
2	8:15:00	8559.79	8.53%
2	8:20:00	8530.66	8.50%
2	8:25:00	8501.59	8.47%
2	8:30:00	8472.57	8.45%
2	8:35:00	8443.61	8.42%
2	8:40:00	8414.7	8.39%
2	8:45:00	8385.85	8.36%
2	8:50:00	8357.05	8.33%
2	8:55:00	8328.31	8.30%
2	9:00:00	8299.62	8.27%
2	9:05:00	8270.99	8.24%
2	9:10:00	8242.42	8.22%
2	9:15:00	8213.89	8.19%
2	9:20:00	8185.43	8.16%
2	9:25:00	8157.01	8.13%
2	9:30:00	8128.66	8.10%
2	9:35:00	8100.36	8.07%
2	9:40:00	8072.11	8.05%
2	9:45:00	8043.92	8.02%
2	9:50:00	8015.79	7.99%
2	9:55:00	7987.71	7.96%
2	10:00:00	7959.69	7.93%
2	10:05:00	7931.72	7.91%
2	10:10:00	7903.81	7.88%
2	10:15:00	7875.95	7.85%
2	10:20:00	7848.15	7.82%
2	10:25:00	7820.41	7.80%
2	10:30:00	7792.72	7.77%
2	10:35:00	7765.09	7.74%
2	10:40:00	7737.51	7.71%
2	10:45:00	7709.99	7.68%
2	10:50:00	7682.53	7.66%
2	10:55:00	7655.12	7.63%
2	11:00:00	7627.77	7.60%
2	11:05:00	7600.48	7.58%
2	11:10:00	7573.24	7.55%
2	11:15:00	7546.06	7.52%
2	11:20:00	7518.93	7.49%
2	11:25:00	7491.86	7.47%

2	4:50:00	3990.15	7.64%
2	4:55:00	3978.18	7.62%
2	5:00:00	3966.23	7.60%
2	5:05:00	3954.3	7.57%
2	5:10:00	3942.38	7.55%
2	5:15:00	3930.48	7.53%
2	5:20:00	3918.59	7.50%
2	5:25:00	3906.71	7.48%
2	5:30:00	3894.85	7.46%
2	5:35:00	3883.01	7.44%
2	5:40:00	3871.18	7.41%
2	5:45:00	3859.37	7.39%
2	5:50:00	3847.57	7.37%
2	5:55:00	3835.78	7.35%
2	6:00:00	3824.01	7.32%
2	6:05:00	3812.26	7.30%
2	6:10:00	3800.52	7.28%
2	6:15:00	3788.8	7.26%
2	6:20:00	3777.09	7.23%
2	6:25:00	3765.4	7.21%
2	6:30:00	3753.72	7.19%
2	6:35:00	3742.06	7.17%
2	6:40:00	3730.41	7.14%
2	6:45:00	3718.78	7.12%
2	6:50:00	3707.16	7.10%
2	6:55:00	3695.56	7.08%
2	7:00:00	3683.98	7.05%
2	7:05:00	3672.41	7.03%
2	7:10:00	3660.85	7.01%
2	7:15:00	3649.32	6.99%
2	7:20:00	3637.79	6.97%
2	7:25:00	3626.29	6.94%
2	7:30:00	3614.79	6.92%
2	7:35:00	3603.32	6.90%
2	7:40:00	3591.86	6.88%
2	7:45:00	3580.41	6.86%
2	7:50:00	3568.98	6.83%
2	7:55:00	3557.57	6.81%
2	8:00:00	3546.17	6.79%
2	8:05:00	3534.79	6.77%
2	8:10:00	3523.42	6.75%
2	8:15:00	3512.07	6.73%
2	8:20:00	3500.74	6.70%
2	8:25:00	3489.42	6.68%
2	8:30:00	3478.12	6.66%
2	8:35:00	3466.83	6.64%
2	8:40:00	3455.56	6.62%
2	8:45:00	3444.31	6.60%
2	8:50:00	3433.07	6.57%
2	8:55:00	3421.85	6.55%
2	9:00:00	3410.64	6.53%
2	9:05:00	3399.45	6.51%
2	9:10:00	3388.28	6.49%
2	9:15:00	3377.12	6.47%
2	9:20:00	3365.98	6.45%
2	9:25:00	3354.86	6.42%
2	9:30:00	3343.75	6.40%
2	9:35:00	3332.66	6.38%
2	9:40:00	3321.58	6.36%
2	9:45:00	3310.52	6.34%
2	9:50:00	3299.48	6.32%
2	9:55:00	3288.46	6.30%
2	10:00:00	3277.45	6.28%
2	10:05:00	3266.45	6.26%
2	10:10:00	3255.48	6.23%
2	10:15:00	3244.52	6.21%
2	10:20:00	3233.57	6.19%
2	10:25:00	3222.65	6.17%
2	10:30:00	3211.74	6.15%
2	10:35:00	3200.84	6.13%
2	10:40:00	3189.97	6.11%
2	10:45:00	3179.11	6.09%
2	10:50:00	3168.27	6.07%
2	10:55:00	3157.44	6.05%
2	11:00:00	3146.63	6.03%
2	11:05:00	3135.84	6.01%
2	11:10:00	3125.07	5.98%
2	11:15:00	3114.31	5.96%
2	11:20:00	3103.57	5.94%
2	11:25:00	3092.84	5.92%

2	4:50:00	3974.76	8.29%
2	4:55:00	3955.15	8.25%
2	5:00:00	3935.58	8.21%
2	5:05:00	3916.06	8.17%
2	5:10:00	3896.58	8.13%
2	5:15:00	3877.15	8.09%
2	5:20:00	3857.76	8.05%
2	5:25:00	3838.42	8.01%
2	5:30:00	3819.13	7.97%
2	5:35:00	3799.88	7.93%
2	5:40:00	3780.67	7.89%
2	5:45:00	3761.51	7.85%
2	5:50:00	3742.4	7.81%
2	5:55:00	3723.34	7.77%
2	6:00:00	3704.32	7.73%
2	6:05:00	3685.34	7.69%
2	6:10:00	3666.42	7.65%
2	6:15:00	3647.54	7.61%
2	6:20:00	3628.7	7.57%
2	6:25:00	3609.92	7.53%
2	6:30:00	3591.18	7.49%
2	6:35:00	3572.49	7.45%
2	6:40:00	3553.84	7.41%
2	6:45:00	3535.25	7.37%
2	6:50:00	3516.7	7.33%
2	6:55:00	3498.2	7.30%
2	7:00:00	3479.75	7.26%
2	7:05:00	3461.34	7.22%
2	7:10:00	3442.99	7.18%
2	7:15:00	3424.68	7.14%
2	7:20:00	3406.42	7.10%
2	7:25:00	3388.21	7.07%
2	7:30:00	3370.05	7.03%
2	7:35:00	3351.94	6.99%
2	7:40:00	3333.88	6.95%
2	7:45:00	3315.86	6.92%
2	7:50:00	3297.9	6.88%
2	7:55:00	3279.98	6.84%
2	8:00:00	3262.12	6.80%
2	8:05:00	3244.31	6.77%
2	8:10:00	3226.54	6.73%
2	8:15:00	3208.83	6.69%
2	8:20:00	3191.17	6.66%
2	8:25:00	3173.55	6.62%
2	8:30:00	3155.99	6.58%
2	8:35:00	3138.48	6.55%
2	8:40:00	3121.02	6.51%
2	8:45:00	3103.62	6.47%
2	8:50:00	3086.26	6.44%
2	8:55:00	3068.96	6.40%
2	9:00:00	3051.7	6.37%
2	9:05:00	3034.5	6.33%
2	9:10:00	3017.36	6.29%
2	9:15:00	3000.26	6.26%
2	9:20:00	2983.22	6.22%
2	9:25:00	2966.23	6.19%
2	9:30:00	2949.29	6.15%
2	9:35:00	2932.41	6.12%
2	9:40:00	2915.58	6.08%
2	9:45:00	2898.8	6.05%
2	9:50:00	2882.08	6.01%
2	9:55:00	2865.41	5.98%
2	10:00:00	2848.79	5.94%
2	10:05:00	2832.23	5.91%
2	10:10:00	2815.73	5.87%
2	10:15:00	2799.27	5.84%
2	10:20:00	2782.88	5.80%
2	10:25:00	2766.54	5.77%
2	10:30:00	2750.25	5.74%
2	10:35:00	2734.02	5.70%
2	10:40:00	2717.85	5.67%
2	10:45:00	2701.73	5.64%
2	10:50:00	2685.67	5.60%
2	10:55:00	2669.66	5.57%
2	11:00:00	2653.71	5.53%
2	11:05:00	2637.82	5.50%
2	11:10:00	2621.98	5.47%
2	11:15:00	2606.2	5.44%
2	11:20:00	2590.48	5.40%
2	11:25:00	2574.82	5.37%

2	4:50:00	1216.2	7.64%
2	4:55:00	1209.6	7.60%
2	5:00:00	1203.03	7.56%
2	5:05:00	1196.5	7.52%
2	5:10:00	1190.02	7.48%
2	5:15:00	1183.58	7.44%
2	5:20:00	1177.17	7.40%
2	5:25:00	1170.8	7.36%
2	5:30:00	1164.47	7.32%
2	5:35:00	1158.18	7.28%
2	5:40:00	1151.92	7.24%
2	5:45:00	1145.69	7.20%
2	5:50:00	1139.51	7.16%
2	5:55:00	1133.35	7.12%
2	6:00:00	1127.23	7.08%
2	6:05:00	1121.13	7.05%
2	6:10:00	1115.07	7.01%
2	6:15:00	1109.04	6.97%
2	6:20:00	1103.04	6.93%
2	6:25:00	1097.06	6.90%
2	6:30:00	1091.11	6.86%
2	6:35:00	1085.19	6.82%
2	6:40:00	1079.29	6.78%
2	6:45:00	1073.42	6.75%
2	6:50:00	1067.57	6.71%
2	6:55:00	1061.73	6.67%
2	7:00:00	1055.92	6.64%
2	7:05:00	1050.13	6.60%
2	7:10:00	1044.35	6.56%
2	7:15:00	1038.58	6.53%
2	7:20:00	1032.82	6.49%
2	7:25:00	1027.06	6.46%
2	7:30:00	1021.32	6.42%
2	7:35:00	1015.59	6.38%
2	7:40:00	1009.87	6.35%
2	7:45:00	1004.15	6.31%
2	7:50:00	998.45	6.28%
2	7:55:00	992.75	6.24%
2	8:00:00	987.07	6.20%
2	8:05:00	981.39	6.17%
2	8:10:00	975.73	6.13%
2	8:15:00	970.07	6.10%
2	8:20:00	964.42	6.06%
2	8:25:00	958.79	6.03%
2	8:30:00	953.16	5.99%
2	8:35:00	947.54	5.96%
2	8:40:00	941.94	5.92%
2	8:45:00	936.34	5.88%
2	8:50:00	930.75	5.85%
2	8:55:00	925.17	5.81%
2	9:00:00	919.61	5.78%
2	9:05:00	914.05	5.74%
2	9:10:00	908.5	5.71%
2	9:15:00	902.96	5.68%
2	9:20:00	897.44	5.64%
2	9:25:00	891.92	5.61%
2	9:30:00	886.41	5.57%
2	9:35:00	880.91	5.54%
2	9:40:00	875.43	5.50%
2	9:45:00	869.95	5.47%
2	9:50:00	864.48	5.43%
2	9:55:00	859.03	5.40%
2	10:00:00	853.58	5.36%
2	10:05:00	848.14	5.33%
2	10:10:00	842.72	5.30%
2	10:15:00	837.3	5.26%
2	10:20:00	831.9	5.23%
2	10:25:00	826.5	5.19%
2	10:30:00	821.12	5.16%
2	10:35:00	815.75	5.13%
2	10:40:00	810.38	5.09%
2	10:45:00	805.03	5.06%
2	10:50:00	799.69	5.03%
2	10:55:00	794.36	4.99%
2	11:00:00	789.04	4.96%
2	11:05:00	783.73	4.93%
2	11:10:00	778.43	4.89%
2	11:15:00	773.15	4.86%
2	11:20:00	767.87	4.83%
2	11:25:00	762.6	4.79%

2	11:30:00	7464.85	7.44%
2	11:35:00	7437.9	7.41%
2	11:40:00	7411	7.39%
2	11:45:00	7384.16	7.36%
2	11:50:00	7357.37	7.33%
2	11:55:00	7330.64	7.31%
2	12:00:00	7303.97	7.28%
2	12:05:00	7277.36	7.25%
2	12:10:00	7250.81	7.23%
2	12:15:00	7224.31	7.20%
2	12:20:00	7197.87	7.17%
2	12:25:00	7171.48	7.15%
2	12:30:00	7145.15	7.12%
2	12:35:00	7118.89	7.10%
2	12:40:00	7092.67	7.07%
2	12:45:00	7066.52	7.04%
2	12:50:00	7040.43	7.02%
2	12:55:00	7014.39	6.99%
2	13:00:00	6988.41	6.97%
2	13:05:00	6962.49	6.94%
2	13:10:00	6936.62	6.91%
2	13:15:00	6910.82	6.89%
2	13:20:00	6885.07	6.86%
2	13:25:00	6859.38	6.84%
2	13:30:00	6833.75	6.81%
2	13:35:00	6808.18	6.79%
2	13:40:00	6782.66	6.76%
2	13:45:00	6757.21	6.74%
2	13:50:00	6731.81	6.71%
2	13:55:00	6706.47	6.68%
2	14:00:00	6681.19	6.66%
2	14:05:00	6655.97	6.63%
2	14:10:00	6630.81	6.61%
2	14:15:00	6605.71	6.58%
2	14:20:00	6580.67	6.56%
2	14:25:00	6555.69	6.53%
2	14:30:00	6530.77	6.51%
2	14:35:00	6505.9	6.48%
2	14:40:00	6481.1	6.46%
2	14:45:00	6456.35	6.44%
2	14:50:00	6431.67	6.41%
2	14:55:00	6407.05	6.39%
2	15:00:00	6382.48	6.36%
2	15:05:00	6357.98	6.34%
2	15:10:00	6333.54	6.31%
2	15:15:00	6309.15	6.29%
2	15:20:00	6284.83	6.26%
2	15:25:00	6260.57	6.24%
2	15:30:00	6236.37	6.22%
2	15:35:00	6212.23	6.19%
2	15:40:00	6188.15	6.17%
2	15:45:00	6164.13	6.14%
2	15:50:00	6140.18	6.12%
2	15:55:00	6116.28	6.10%
2	16:00:00	6092.45	6.07%
2	16:05:00	6068.68	6.05%
2	16:10:00	6044.97	6.03%
2	16:15:00	6021.32	6.00%
2	16:20:00	5997.74	5.98%
2	16:25:00	5974.21	5.95%
2	16:30:00	5950.75	5.93%
2	16:35:00	5927.36	5.91%
2	16:40:00	5904.02	5.88%
2	16:45:00	5880.75	5.86%
2	16:50:00	5857.54	5.84%
2	16:55:00	5834.4	5.82%
2	17:00:00	5811.32	5.79%
2	17:05:00	5788.3	5.77%
2	17:10:00	5765.34	5.75%
2	17:15:00	5742.45	5.72%
2	17:20:00	5719.63	5.70%
2	17:25:00	5696.87	5.68%
2	17:30:00	5674.17	5.66%
2	17:35:00	5651.54	5.63%
2	17:40:00	5628.98	5.61%
2	17:45:00	5606.48	5.59%
2	17:50:00	5584.04	5.57%
2	17:55:00	5561.67	5.54%
2	18:00:00	5539.37	5.52%
2	18:05:00	5517.13	5.50%

2	11:30:00	3082.14	5.90%
2	11:35:00	3071.45	5.88%
2	11:40:00	3060.78	5.86%
2	11:45:00	3050.12	5.84%
2	11:50:00	3039.48	5.82%
2	11:55:00	3028.86	5.80%
2	12:00:00	3018.26	5.78%
2	12:05:00	3007.68	5.76%
2	12:10:00	2997.11	5.74%
2	12:15:00	2986.56	5.72%
2	12:20:00	2976.02	5.70%
2	12:25:00	2965.51	5.68%
2	12:30:00	2955.01	5.66%
2	12:35:00	2944.53	5.64%
2	12:40:00	2934.07	5.62%
2	12:45:00	2923.62	5.60%
2	12:50:00	2913.19	5.58%
2	12:55:00	2902.78	5.56%
2	13:00:00	2892.39	5.54%
2	13:05:00	2882.02	5.52%
2	13:10:00	2871.66	5.50%
2	13:15:00	2861.32	5.48%
2	13:20:00	2851	5.46%
2	13:25:00	2840.7	5.44%
2	13:30:00	2830.42	5.42%
2	13:35:00	2820.15	5.40%
2	13:40:00	2809.9	5.38%
2	13:45:00	2799.67	5.36%
2	13:50:00	2789.46	5.34%
2	13:55:00	2779.27	5.32%
2	14:00:00	2769.09	5.30%
2	14:05:00	2758.94	5.28%
2	14:10:00	2748.8	5.26%
2	14:15:00	2738.68	5.24%
2	14:20:00	2728.58	5.23%
2	14:25:00	2718.5	5.21%
2	14:30:00	2708.43	5.19%
2	14:35:00	2698.39	5.17%
2	14:40:00	2688.36	5.15%
2	14:45:00	2678.35	5.13%
2	14:50:00	2668.36	5.11%
2	14:55:00	2658.39	5.09%
2	15:00:00	2648.44	5.07%
2	15:05:00	2638.5	5.05%
2	15:10:00	2628.59	5.03%
2	15:15:00	2618.69	5.01%
2	15:20:00	2608.82	5.00%
2	15:25:00	2598.96	4.98%
2	15:30:00	2589.12	4.96%
2	15:35:00	2579.3	4.94%
2	15:40:00	2569.5	4.92%
2	15:45:00	2559.72	4.90%
2	15:50:00	2549.96	4.88%
2	15:55:00	2540.22	4.86%
2	16:00:00	2530.49	4.85%
2	16:05:00	2520.79	4.83%
2	16:10:00	2511.1	4.81%
2	16:15:00	2501.44	4.79%
2	16:20:00	2491.8	4.77%
2	16:25:00	2482.17	4.75%
2	16:30:00	2472.56	4.73%
2	16:35:00	2462.98	4.72%
2	16:40:00	2453.41	4.70%
2	16:45:00	2443.87	4.68%
2	16:50:00	2434.34	4.66%
2	16:55:00	2424.83	4.64%
2	17:00:00	2415.35	4.63%
2	17:05:00	2405.88	4.61%
2	17:10:00	2396.43	4.59%
2	17:15:00	2387.01	4.57%
2	17:20:00	2377.6	4.55%
2	17:25:00	2368.21	4.54%
2	17:30:00	2358.85	4.52%
2	17:35:00	2349.5	4.50%
2	17:40:00	2340.18	4.48%
2	17:45:00	2330.87	4.46%
2	17:50:00	2321.59	4.45%
2	17:55:00	2312.33	4.43%
2	18:00:00	2303.08	4.41%
2	18:05:00	2293.86	4.39%

2	11:30:00	2559.22	5.34%
2	11:35:00	2543.67	5.31%
2	11:40:00	2528.18	5.27%
2	11:45:00	2512.75	5.24%
2	11:50:00	2497.38	5.21%
2	11:55:00	2482.07	5.18%
2	12:00:00	2466.82	5.15%
2	12:05:00	2451.63	5.11%
2	12:10:00	2436.5	5.08%
2	12:15:00	2421.43	5.05%
2	12:20:00	2406.42	5.02%
2	12:25:00	2391.47	4.99%
2	12:30:00	2376.58	4.96%
2	12:35:00	2361.75	4.93%
2	12:40:00	2346.98	4.90%
2	12:45:00	2332.28	4.86%
2	12:50:00	2317.64	4.83%
2	12:55:00	2303.06	4.80%
2	13:00:00	2288.54	4.77%
2	13:05:00	2274.09	4.74%
2	13:10:00	2259.7	4.71%
2	13:15:00	2245.37	4.68%
2	13:20:00	2231.11	4.65%
2	13:25:00	2216.91	4.62%
2	13:30:00	2202.77	4.59%
2	13:35:00	2188.71	4.57%
2	13:40:00	2174.7	4.54%
2	13:45:00	2160.76	4.51%
2	13:50:00	2146.89	4.48%
2	13:55:00	2133.08	4.45%
2	14:00:00	2119.34	4.42%
2	14:05:00	2105.67	4.39%
2	14:10:00	2092.07	4.36%
2	14:15:00	2078.53	4.34%
2	14:20:00	2065.06	4.31%
2	14:25:00	2051.66	4.28%
2	14:30:00	2038.32	4.25%
2	14:35:00	2025.06	4.22%
2	14:40:00	2011.86	4.20%
2	14:45:00	1998.74	4.17%
2	14:50:00	1985.69	4.14%
2	14:55:00	1972.7	4.11%
2	15:00:00	1959.79	4.09%
2	15:05:00	1946.95	4.06%
2	15:10:00	1934.18	4.03%
2	15:15:00	1921.49	4.01%
2	15:20:00	1908.87	3.98%
2	15:25:00	1896.32	3.96%
2	15:30:00	1883.84	3.93%
2	15:35:00	1871.44	3.90%
2	15:40:00	1859.12	3.88%
2	15:45:00	1846.87	3.85%
2	15:50:00	1834.69	3.83%
2	15:55:00	1822.6	3.80%
2	16:00:00	1810.58	3.78%
2	16:05:00	1798.63	3.75%
2	16:10:00	1786.77	3.73%
2	16:15:00	1774.99	3.70%
2	16:20:00	1763.28	3.68%
2	16:25:00	1751.66	3.65%
2	16:30:00	1740.11	3.63%
2	16:35:00	1728.65	3.61%
2	16:40:00	1717.27	3.58%
2	16:45:00	1706.01	3.56%
2	16:50:00	1694.86	3.54%
2	16:55:00	1683.83	3.51%
2	17:00:00	1672.9	3.49%
2	17:05:00	1662.09	3.47%
2	17:10:00	1651.39	3.44%
2	17:15:00	1640.8	3.42%
2	17:20:00	1630.31	3.40%
2	17:25:00	1619.93	3.38%
2	17:30:00	1609.65	3.36%
2	17:35:00	1599.48	3.34%
2	17:40:00	1589.4	3.32%
2	17:45:00	1579.43	3.29%
2	17:50:00	1569.55	3.27%
2	17:55:00	1559.77	3.25%
2	18:00:00	1550.08	3.23%
2	18:05:00	1540.49	3.21%

2	11:30:00	757.35	4.76%
2	11:35:00	752.1	4.73%
2	11:40:00	746.87	4.69%
2	11:45:00	741.65	4.66%
2	11:50:00	736.44	4.63%
2	11:55:00	731.24	4.60%
2	12:00:00	726.05	4.56%
2	12:05:00	720.87	4.53%
2	12:10:00	715.71	4.50%
2	12:15:00	710.55	4.47%
2	12:20:00	705.41	4.43%
2	12:25:00	700.28	4.40%
2	12:30:00	695.16	4.37%
2	12:35:00	690.05	4.34%
2	12:40:00	684.95	4.30%
2	12:45:00	679.86	4.27%
2	12:50:00	674.79	4.24%
2	12:55:00	669.73	4.21%
2	13:00:00	664.68	4.18%
2	13:05:00	659.64	4.15%
2	13:10:00	654.61	4.11%
2	13:15:00	649.59	4.08%
2	13:20:00	644.59	4.05%
2	13:25:00	639.6	4.02%
2	13:30:00	634.62	3.99%
2	13:35:00	629.65	3.96%
2	13:40:00	624.69	3.93%
2	13:45:00	619.75	3.90%
2	13:50:00	614.82	3.86%
2	13:55:00	609.9	3.83%
2	14:00:00	604.99	3.80%
2	14:05:00	600.09	3.77%
2	14:10:00	595.21	3.74%
2	14:15:00	590.34	3.71%
2	14:20:00	585.48	3.68%
2	14:25:00	580.64	3.65%
2	14:30:00	575.8	3.62%
2	14:35:00	570.98	3.59%
2	14:40:00	566.17	3.56%
2	14:45:00	561.38	3.53%
2	14:50:00	556.6	3.50%
2	14:55:00	551.83	3.47%
2	15:00:00	547.07	3.44%
2	15:05:00	542.33	3.41%
2	15:10:00	537.6	3.38%
2	15:15:00	532.88	3.35%
2	15:20:00	528.17	3.32%
2	15:25:00	523.48	3.29%
2	15:30:00	518.8	3.26%
2	15:35:00	514.14	3.23%
2	15:40:00	509.49	3.20%
2	15:45:00	504.85	3.17%
2	15:50:00	500.22	3.14%
2	15:55:00	495.61	3.11%
2	16:00:00	491.01	3.09%
2	16:05:00	486.43	3.06%
2	16:10:00	481.86	3.03%
2	16:15:00	477.3	3.00%
2	16:20:00	472.76	2.97%
2	16:25:00	468.23	2.94%
2	16:30:00	463.71	2.91%
2	16:35:00	459.21	2.89%
2	16:40:00	454.73	2.86%
2	16:45:00	450.25	2.83%
2	16:50:00	445.79	2.80%
2	16:55:00	441.35	2.77%
2	17:00:00	436.92	2.75%
2	17:05:00	432.5	2.72%
2	17:10:00	428.1	2.69%
2	17:15:00	423.72	2.66%
2	17:20:00	419.34	2.64%
2	17:25:00	414.99	2.61%
2	17:30:00	410.65	2.58%
2	17:35:00	406.32	2.55%
2	17:40:00	402.01	2.53%
2	17:45:00	397.71	2.50%
2	17:50:00	393.43	2.47%
2	17:55:00	389.16	2.45%
2	18:00:00	384.91	2.42%
2	18:05:00	380.67	2.39%

2	18:10:00	5494.97	5.48%
2	18:15:00	5472.86	5.46%
2	18:20:00	5450.83	5.43%
2	18:25:00	5428.86	5.41%
2	18:30:00	5406.96	5.39%
2	18:35:00	5385.13	5.37%
2	18:40:00	5363.37	5.35%
2	18:45:00	5341.68	5.32%
2	18:50:00	5320.05	5.30%
2	18:55:00	5298.5	5.28%
2	19:00:00	5277.02	5.26%
2	19:05:00	5255.6	5.24%
2	19:10:00	5234.26	5.22%
2	19:15:00	5212.99	5.20%
2	19:20:00	5191.8	5.17%
2	19:25:00	5170.67	5.15%
2	19:30:00	5149.62	5.13%
2	19:35:00	5128.64	5.11%
2	19:40:00	5107.74	5.09%
2	19:45:00	5086.91	5.07%
2	19:50:00	5066.15	5.05%
2	19:55:00	5045.48	5.03%
2	20:00:00	5024.88	5.01%
2	20:05:00	5004.36	4.99%
2	20:10:00	4983.93	4.97%
2	20:15:00	4963.61	4.95%
2	20:20:00	4943.39	4.93%
2	20:25:00	4923.26	4.91%
2	20:30:00	4903.23	4.89%
2	20:35:00	4883.29	4.87%
2	20:40:00	4863.45	4.85%
2	20:45:00	4843.71	4.83%
2	20:50:00	4824.05	4.81%
2	20:55:00	4804.49	4.79%
2	21:00:00	4785.01	4.77%
2	21:05:00	4765.62	4.75%
2	21:10:00	4746.32	4.73%
2	21:15:00	4727.11	4.71%
2	21:20:00	4707.98	4.69%
2	21:25:00	4688.93	4.67%
2	21:30:00	4669.96	4.65%
2	21:35:00	4651.08	4.64%
2	21:40:00	4632.27	4.62%
2	21:45:00	4613.55	4.60%
2	21:50:00	4594.9	4.58%
2	21:55:00	4576.33	4.56%
2	22:00:00	4557.83	4.54%
2	22:05:00	4539.4	4.52%
2	22:10:00	4521.05	4.51%
2	22:15:00	4502.77	4.49%
2	22:20:00	4484.56	4.47%
2	22:25:00	4466.42	4.45%
2	22:30:00	4448.34	4.43%
2	22:35:00	4430.33	4.42%
2	22:40:00	4412.39	4.40%
2	22:45:00	4394.51	4.38%
2	22:50:00	4376.69	4.36%
2	22:55:00	4358.93	4.34%
2	23:00:00	4341.23	4.33%
2	23:05:00	4323.59	4.31%
2	23:10:00	4306.01	4.29%
2	23:15:00	4288.48	4.27%
2	23:20:00	4271	4.26%
2	23:25:00	4253.57	4.24%
2	23:30:00	4236.2	4.22%
2	23:35:00	4218.87	4.21%
2	23:40:00	4201.58	4.19%
2	23:45:00	4184.34	4.17%
2	23:50:00	4167.14	4.15%
2	23:55:00	4149.97	4.14%
2	0:00:00	4132.83	4.12%
3	0:05:00	4115.72	4.10%
3	0:10:00	4098.64	4.09%
3	0:15:00	4081.59	4.07%
3	0:20:00	4064.57	4.05%
3	0:25:00	4047.59	4.03%
3	0:30:00	4030.63	4.02%
3	0:35:00	4013.7	4.00%
3	0:40:00	3996.8	3.98%
3	0:45:00	3979.93	3.97%

2	18:10:00	2284.66	4.38%
2	18:15:00	2275.48	4.36%
2	18:20:00	2266.32	4.34%
2	18:25:00	2257.18	4.32%
2	18:30:00	2248.07	4.31%
2	18:35:00	2238.97	4.29%
2	18:40:00	2229.89	4.27%
2	18:45:00	2220.84	4.25%
2	18:50:00	2211.81	4.24%
2	18:55:00	2202.79	4.22%
2	19:00:00	2193.8	4.20%
2	19:05:00	2184.84	4.18%
2	19:10:00	2175.89	4.17%
2	19:15:00	2166.96	4.15%
2	19:20:00	2158.06	4.13%
2	19:25:00	2149.18	4.12%
2	19:30:00	2140.32	4.10%
2	19:35:00	2131.48	4.08%
2	19:40:00	2122.66	4.06%
2	19:45:00	2113.87	4.05%
2	19:50:00	2105.09	4.03%
2	19:55:00	2096.34	4.01%
2	20:00:00	2087.61	4.00%
2	20:05:00	2078.91	3.98%
2	20:10:00	2070.22	3.96%
2	20:15:00	2061.56	3.95%
2	20:20:00	2052.92	3.93%
2	20:25:00	2044.31	3.91%
2	20:30:00	2035.71	3.90%
2	20:35:00	2027.14	3.88%
2	20:40:00	2018.6	3.87%
2	20:45:00	2010.07	3.85%
2	20:50:00	2001.57	3.83%
2	20:55:00	1993.09	3.82%
2	21:00:00	1984.63	3.80%
2	21:05:00	1976.2	3.78%
2	21:10:00	1967.79	3.77%
2	21:15:00	1959.4	3.75%
2	21:20:00	1951.04	3.74%
2	21:25:00	1942.7	3.72%
2	21:30:00	1934.39	3.70%
2	21:35:00	1926.09	3.69%
2	21:40:00	1917.83	3.67%
2	21:45:00	1909.58	3.66%
2	21:50:00	1901.36	3.64%
2	21:55:00	1893.17	3.63%
2	22:00:00	1884.99	3.61%
2	22:05:00	1876.85	3.59%
2	22:10:00	1868.72	3.58%
2	22:15:00	1860.62	3.56%
2	22:20:00	1852.55	3.55%
2	22:25:00	1844.5	3.53%
2	22:30:00	1836.48	3.52%
2	22:35:00	1828.48	3.50%
2	22:40:00	1820.5	3.49%
2	22:45:00	1812.55	3.47%
2	22:50:00	1804.63	3.46%
2	22:55:00	1796.73	3.44%
2	23:00:00	1788.85	3.43%
2	23:05:00	1781	3.41%
2	23:10:00	1773.18	3.40%
2	23:15:00	1765.38	3.38%
2	23:20:00	1757.61	3.37%
2	23:25:00	1749.87	3.35%
2	23:30:00	1742.15	3.34%
2	23:35:00	1734.46	3.32%
2	23:40:00	1726.79	3.31%
2	23:45:00	1719.15	3.29%
2	23:50:00	1711.54	3.28%
2	23:55:00	1703.95	3.26%
2	0:00:00	1696.39	3.25%
3	0:05:00	1688.86	3.23%
3	0:10:00	1681.35	3.22%
3	0:15:00	1673.87	3.21%
3	0:20:00	1666.42	3.19%
3	0:25:00	1659	3.18%
3	0:30:00	1651.61	3.16%
3	0:35:00	1644.24	3.15%
3	0:40:00	1636.9	3.13%
3	0:45:00	1629.59	3.12%

2	18:10:00	1530.99	3.19%
2	18:15:00	1521.58	3.17%
2	18:20:00	1512.27	3.15%
2	18:25:00	1503.04	3.13%
2	18:30:00	1493.9	3.12%
2	18:35:00	1484.84	3.10%
2	18:40:00	1475.87	3.08%
2	18:45:00	1466.99	3.06%
2	18:50:00	1458.18	3.04%
2	18:55:00	1449.46	3.02%
2	19:00:00	1440.82	3.01%
2	19:05:00	1432.26	2.99%
2	19:10:00	1423.77	2.97%
2	19:15:00	1415.37	2.95%
2	19:20:00	1407.03	2.93%
2	19:25:00	1398.78	2.92%
2	19:30:00	1390.59	2.90%
2	19:35:00	1382.48	2.88%
2	19:40:00	1374.44	2.87%
2	19:45:00	1366.47	2.85%
2	19:50:00	1358.57	2.83%
2	19:55:00	1350.74	2.82%
2	20:00:00	1342.98	2.80%
2	20:05:00	1335.28	2.79%
2	20:10:00	1327.64	2.77%
2	20:15:00	1320.07	2.75%
2	20:20:00	1312.56	2.74%
2	20:25:00	1305.12	2.72%
2	20:30:00	1297.73	2.71%
2	20:35:00	1290.41	2.69%
2	20:40:00	1283.14	2.68%
2	20:45:00	1275.94	2.66%
2	20:50:00	1268.78	2.65%
2	20:55:00	1261.69	2.63%
2	21:00:00	1254.65	2.62%
2	21:05:00	1247.66	2.60%
2	21:10:00	1240.73	2.59%
2	21:15:00	1233.85	2.57%
2	21:20:00	1227.02	2.56%
2	21:25:00	1220.24	2.55%
2	21:30:00	1213.51	2.53%
2	21:35:00	1206.83	2.52%
2	21:40:00	1200.2	2.50%
2	21:45:00	1193.61	2.49%
2	21:50:00	1187.07	2.48%
2	21:55:00	1180.57	2.46%
2	22:00:00	1174.12	2.45%
2	22:05:00	1167.7	2.44%
2	22:10:00	1161.34	2.42%
2	22:15:00	1155.01	2.41%
2	22:20:00	1148.72	2.40%
2	22:25:00	1142.47	2.38%
2	22:30:00	1136.26	2.37%
2	22:35:00	1130.08	2.36%
2	22:40:00	1123.94	2.34%
2	22:45:00	1117.84	2.33%
2	22:50:00	1111.76	2.32%
2	22:55:00	1105.73	2.31%
2	23:00:00	1099.72	2.29%
2	23:05:00	1093.74	2.28%
2	23:10:00	1087.79	2.27%
2	23:15:00	1081.87	2.26%
2	23:20:00	1075.98	2.24%
2	23:25:00	1070.11	2.23%
2	23:30:00	1064.27	2.22%
2	23:35:00	1058.44	2.21%
2	23:40:00	1052.64	2.20%
2	23:45:00	1046.85	2.18%
2	23:50:00	1041.08	2.17%
2	23:55:00	1035.31	2.16%
2	0:00:00	1029.55	2.15%
3	0:05:00	1023.81	2.14%
3	0:10:00	1018.07	2.12%
3	0:15:00	1012.34	2.11%
3	0:20:00	1006.62	2.10%
3	0:25:00	1000.92	2.09%
3	0:30:00	995.22	2.08%
3	0:35:00	989.53	2.06%
3	0:40:00	983.85	2.05%
3	0:45:00	978.18	2.04%

2	18:10:00	376.45	2.37%
2	18:15:00	372.25	2.34%
2	18:20:00	368.06	2.31%
2	18:25:00	363.88	2.29%
2	18:30:00	359.73	2.26%
2	18:35:00	355.58	2.23%
2	18:40:00	351.46	2.21%
2	18:45:00	347.35	2.18%
2	18:50:00	343.25	2.16%
2	18:55:00	339.18	2.13%
2	19:00:00	335.12	2.11%
2	19:05:00	331.07	2.08%
2	19:10:00	327.04	2.06%
2	19:15:00	323.03	2.03%
2	19:20:00	319.04	2.01%
2	19:25:00	315.06	1.98%
2	19:30:00	311.1	1.96%
2	19:35:00	307.16	1.93%
2	19:40:00	303.23	1.91%
2	19:45:00	299.32	1.88%
2	19:50:00	295.43	1.86%
2	19:55:00	291.56	1.83%
2	20:00:00	287.7	1.81%
2	20:05:00	283.86	1.78%
2	20:10:00	280.04	1.76%
2	20:15:00	276.24	1.74%
2	20:20:00	272.46	1.71%
2	20:25:00	268.69	1.69%
2	20:30:00	264.95	1.67%
2	20:35:00	261.22	1.64%
2	20:40:00	257.51	1.62%
2	20:45:00	253.82	1.60%
2	20:50:00	250.14	1.57%
2	20:55:00	246.49	1.55%
2	21:00:00	242.86	1.53%
2	21:05:00	239.24	1.50%
2	21:10:00	235.65	1.48%
2	21:15:00	232.07	1.46%
2	21:20:00	228.52	1.44%
2	21:25:00	224.98	1.41%
2	21:30:00	221.47	1.39%
2	21:35:00	217.97	1.37%
2	21:40:00	214.5	1.35%
2	21:45:00	211.04	1.33%
2	21:50:00	207.61	1.30%
2	21:55:00	204.2	1.28%
2	22:00:00	200.81	1.26%
2	22:05:00	197.44	1.24%
2	22:10:00	194.09	1.22%
2	22:15:00	190.76	1.20%
2	22:20:00	187.46	1.18%
2	22:25:00	184.18	1.16%
2	22:30:00	180.92	1.14%
2	22:35:00	177.68	1.12%
2	22:40:00	174.46	1.10%
2	22:45:00	171.27	1.08%
2	22:50:00	168.1	1.06%
2	22:55:00	164.95	1.04%
2	23:00:00	161.83	1.02%
2	23:05:00	158.73	1.00%
2	23:10:00	155.66	0.98%
2	23:15:00	152.61	0.96%
2	23:20:00	149.58	0.94%
2	23:25:00	146.58	0.92%
2	23:30:00	143.6	0.90%
2	23:35:00	140.65	0.88%
2	23:40:00	137.73	0.87%
2	23:45:00	134.83	0.85%
2	23:50:00	131.95	0.83%
2	23:55:00	129.11	0.81%
2	0:00:00	126.28	0.79%
3	0:05:00	123.49	0.78%
3	0:10:00	120.72	0.76%
3	0:15:00	117.98	0.74%
3	0:20:00	115.27	0.72%
3	0:25:00	112.59	0.71%
3	0:30:00	109.93	0.69%
3	0:35:00	107.31	0.67%
3	0:40:00	104.71	0.66%
3	0:45:00	102.14	0.64%

3	0:50:00	3963.1	3.95%	3	0:50:00	1622.31	3.11%	3	0:50:00	972.52	2.03%	3	0:50:00	99.6	0.63%
3	0:55:00	3946.29	3.93%	3	0:55:00	1615.05	3.09%	3	0:55:00	966.87	2.02%	3	0:55:00	97.1	0.61%
3	1:00:00	3929.52	3.92%	3	1:00:00	1607.83	3.08%	3	1:00:00	961.22	2.00%	3	1:00:00	94.62	0.59%
3	1:05:00	3912.78	3.90%	3	1:05:00	1600.63	3.07%	3	1:05:00	955.59	1.99%	3	1:05:00	92.17	0.58%
3	1:10:00	3896.06	3.88%	3	1:10:00	1593.46	3.05%	3	1:10:00	949.97	1.98%	3	1:10:00	89.76	0.56%
3	1:15:00	3879.38	3.87%	3	1:15:00	1586.33	3.04%	3	1:15:00	944.36	1.97%	3	1:15:00	87.38	0.55%
3	1:20:00	3862.73	3.85%	3	1:20:00	1579.22	3.02%	3	1:20:00	938.76	1.96%	3	1:20:00	85.03	0.53%
3	1:25:00	3846.11	3.83%	3	1:25:00	1572.14	3.01%	3	1:25:00	933.16	1.95%	3	1:25:00	82.73	0.52%
3	1:30:00	3829.52	3.82%	3	1:30:00	1565.09	3.00%	3	1:30:00	927.58	1.93%	3	1:30:00	80.48	0.51%
3	1:35:00	3812.97	3.80%	3	1:35:00	1558.07	2.98%	3	1:35:00	922.01	1.92%	3	1:35:00	78.27	0.49%
3	1:40:00	3796.44	3.78%	3	1:40:00	1551.09	2.97%	3	1:40:00	916.45	1.91%	3	1:40:00	76.11	0.48%
3	1:45:00	3779.95	3.77%	3	1:45:00	1544.13	2.96%	3	1:45:00	910.9	1.90%	3	1:45:00	74	0.47%
3	1:50:00	3763.48	3.75%	3	1:50:00	1537.2	2.94%	3	1:50:00	905.35	1.89%	3	1:50:00	71.93	0.45%
3	1:55:00	3747.05	3.73%	3	1:55:00	1530.31	2.93%	3	1:55:00	899.82	1.88%	3	1:55:00	69.91	0.44%
3	2:00:00	3730.65	3.72%	3	2:00:00	1523.44	2.92%	3	2:00:00	894.3	1.87%	3	2:00:00	67.93	0.43%
3	2:05:00	3714.29	3.70%	3	2:05:00	1516.61	2.90%	3	2:05:00	888.79	1.85%	3	2:05:00	65.99	0.41%
3	2:10:00	3697.95	3.69%	3	2:10:00	1509.81	2.89%	3	2:10:00	883.28	1.84%	3	2:10:00	64.1	0.40%
3	2:15:00	3681.65	3.67%	3	2:15:00	1503.04	2.88%	3	2:15:00	877.79	1.83%	3	2:15:00	62.24	0.39%
3	2:20:00	3665.38	3.65%	3	2:20:00	1496.31	2.87%	3	2:20:00	872.31	1.82%	3	2:20:00	60.43	0.38%
3	2:25:00	3649.14	3.64%	3	2:25:00	1489.63	2.85%	3	2:25:00	866.84	1.81%	3	2:25:00	58.66	0.37%
3	2:30:00	3632.93	3.62%	3	2:30:00	1482.99	2.84%	3	2:30:00	861.38	1.80%	3	2:30:00	56.93	0.36%
3	2:35:00	3616.76	3.61%	3	2:35:00	1476.39	2.83%	3	2:35:00	855.93	1.79%	3	2:35:00	55.23	0.35%
3	2:40:00	3600.61	3.59%	3	2:40:00	1469.84	2.81%	3	2:40:00	850.49	1.77%	3	2:40:00	53.58	0.34%
3	2:45:00	3584.5	3.57%	3	2:45:00	1463.33	2.80%	3	2:45:00	845.05	1.76%	3	2:45:00	51.96	0.33%
3	2:50:00	3568.43	3.56%	3	2:50:00	1456.86	2.79%	3	2:50:00	839.63	1.75%	3	2:50:00	50.39	0.32%
3	2:55:00	3552.38	3.54%	3	2:55:00	1450.44	2.78%	3	2:55:00	834.23	1.74%	3	2:55:00	48.84	0.31%
3	3:00:00	3536.37	3.52%	3	3:00:00	1444.06	2.77%	3	3:00:00	828.83	1.73%	3	3:00:00	47.34	0.30%
3	3:05:00	3520.39	3.51%	3	3:05:00	1437.72	2.75%	3	3:05:00	823.44	1.72%	3	3:05:00	45.87	0.29%
3	3:10:00	3504.45	3.49%	3	3:10:00	1431.42	2.74%	3	3:10:00	818.06	1.71%	3	3:10:00	44.44	0.28%
3	3:15:00	3488.53	3.48%	3	3:15:00	1425.16	2.73%	3	3:15:00	812.69	1.70%	3	3:15:00	43.04	0.27%
3	3:20:00	3472.65	3.46%	3	3:20:00	1418.94	2.72%	3	3:20:00	807.34	1.68%	3	3:20:00	41.67	0.26%
3	3:25:00	3456.8	3.45%	3	3:25:00	1412.76	2.71%	3	3:25:00	801.99	1.67%	3	3:25:00	40.34	0.25%
3	3:30:00	3440.99	3.43%	3	3:30:00	1406.62	2.69%	3	3:30:00	796.65	1.66%	3	3:30:00	39.04	0.25%
3	3:35:00	3425.21	3.41%	3	3:35:00	1400.52	2.68%	3	3:35:00	791.33	1.65%	3	3:35:00	37.77	0.24%
3	3:40:00	3409.46	3.40%	3	3:40:00	1394.46	2.67%	3	3:40:00	786.01	1.64%	3	3:40:00	36.54	0.23%
3	3:45:00	3393.75	3.38%	3	3:45:00	1388.43	2.66%	3	3:45:00	780.71	1.63%	3	3:45:00	35.33	0.22%
3	3:50:00	3378.07	3.37%	3	3:50:00	1382.44	2.65%	3	3:50:00	775.42	1.62%	3	3:50:00	34.16	0.21%
3	3:55:00	3362.42	3.35%	3	3:55:00	1376.49	2.64%	3	3:55:00	770.14	1.61%	3	3:55:00	33.01	0.21%
3	4:00:00	3346.81	3.34%	3	4:00:00	1370.58	2.62%	3	4:00:00	764.87	1.60%	3	4:00:00	31.9	0.20%
3	4:05:00	3331.23	3.32%	3	4:05:00	1364.71	2.61%	3	4:05:00	759.61	1.58%	3	4:05:00	30.82	0.19%
3	4:10:00	3315.69	3.30%	3	4:10:00	1358.87	2.60%	3	4:10:00	754.36	1.57%	3	4:10:00	29.76	0.19%
3	4:15:00	3300.18	3.29%	3	4:15:00	1353.06	2.59%	3	4:15:00	749.12	1.56%	3	4:15:00	28.73	0.18%
3	4:20:00	3284.7	3.27%	3	4:20:00	1347.29	2.58%	3	4:20:00	743.89	1.55%	3	4:20:00	27.73	0.17%
3	4:25:00	3269.26	3.26%	3	4:25:00	1341.56	2.57%	3	4:25:00	738.68	1.54%	3	4:25:00	26.76	0.17%
3	4:30:00	3253.85	3.24%	3	4:30:00	1335.86	2.56%	3	4:30:00	733.47	1.53%	3	4:30:00	25.81	0.16%
3	4:35:00	3238.47	3.23%	3	4:35:00	1330.19	2.55%	3	4:35:00	728.28	1.52%	3	4:35:00	24.89	0.16%
3	4:40:00	3223.13	3.21%	3	4:40:00	1324.56	2.54%	3	4:40:00	723.1	1.51%	3	4:40:00	23.99	0.15%
3	4:45:00	3207.83	3.20%	3	4:45:00	1318.96	2.53%	3	4:45:00	717.93	1.50%	3	4:45:00	23.12	0.15%
3	4:50:00	3192.56	3.18%	3	4:50:00	1313.39	2.52%	3	4:50:00	712.77	1.49%	3	4:50:00	22.27	0.14%
3	4:55:00	3177.33	3.17%	3	4:55:00	1307.86	2.50%	3	4:55:00	707.62	1.48%	3	4:55:00	21.45	0.13%
3	5:00:00	3162.13	3.15%	3	5:00:00	1302.36	2.49%	3	5:00:00	702.48	1.47%	3	5:00:00	20.65	0.13%
3	5:05:00	3146.96	3.14%	3	5:05:00	1296.89	2.48%	3	5:05:00	697.35	1.45%	3	5:05:00	19.88	0.12%
3	5:10:00	3131.83	3.12%	3	5:10:00	1291.45	2.47%	3	5:10:00	692.24	1.44%	3	5:10:00	19.13	0.12%
3	5:15:00	3116.73	3.11%	3	5:15:00	1286.04	2.46%	3	5:15:00	687.14	1.43%	3	5:15:00	18.4	0.12%
3	5:20:00	3101.68	3.09%	3	5:20:00	1280.67	2.45%	3	5:20:00	682.05	1.42%	3	5:20:00	17.69	0.11%
3	5:25:00	3086.65	3.08%	3	5:25:00	1275.32	2.44%	3	5:25:00	676.97	1.41%	3	5:25:00	17	0.11%
3	5:30:00	3071.66	3.06%	3	5:30:00	1270.01	2.43%	3	5:30:00	671.9	1.40%	3	5:30:00	16.33	0.10%
3	5:35:00	3056.71	3.05%	3	5:35:00	1264.72	2.42%	3	5:35:00	666.84	1.39%	3	5:35:00	15.69	0.10%
3	5:40:00	3041.79	3.03%	3	5:40:00	1259.46	2.41%	3	5:40:00	661.8	1.38%	3	5:40:00	15.06	0.09%
3	5:45:00	3026.91	3.02%	3	5:45:00	1254.23	2.40%	3	5:45:00	656.76	1.37%	3	5:45:00	14.45	0.09%
3	5:50:00	3012.07	3.00%	3	5:50:00	1249.03	2.39%	3	5:50:00	651.74	1.36%	3	5:50:00	13.87	0.09%
3	5:55:00	2997.26	2.99%	3	5:55:00	1243.86	2.38%	3	5:55:00	646.73	1.35%	3	5:55:00	13.3	0.08%
3	6:00:00	2982.48	2.97%	3	6:00:00	1238.72	2.37%	3	6:00:00	641.73	1.34%	3	6:00:00	12.75	0.08%
3	6:05:00	2967.75	2.96%	3	6:05:00	1233.6	2.36%	3	6:05:00	636.75	1.33%	3	6:05:00	12.21	0.08%
3	6:10:00	2953.04	2.94%	3	6:10:00	1228.51	2.35%	3	6:10:00	631.78	1.32%	3	6:10:00	11.7	0.07%
3	6:15:00	2938.38	2.93%	3	6:15:00	1223.44	2.34%	3	6:15:00	626.81	1.31%	3	6:15:00	11.2	0.07%
3	6:20:00	2923.75	2.91%	3	6:20:00	1218.41	2.33%	3	6:20:00	621.86	1.30%	3	6:20:00	10.72	0.07%
3	6:25:00	2909.16	2.90%	3	6:25:00	1213.4	2.32%	3	6:25:00	616.93	1.29%	3	6:25:00	10.25	0.06%
3	6:30:00	2894.61	2.89%	3	6:30:00	1208.41	2.31%	3	6:30:00	612	1.28%	3	6:30:00	9.81	0.06%
3	6:35:00	2880.09	2.87%	3	6:35:00	1203.45	2.30%	3	6:35:00	607.09	1.27%	3	6:35:00	9.37	0.06%
3	6:40:00	2865.61	2.86%	3	6:40:00	1198.51	2.30%	3	6:40:00	602.19	1.26%	3	6:40:00	8.95	0.06%
3	6:45:00	2851.17	2.84%	3	6:45:00	1193.6	2.29%	3	6:45:00	597.3	1.25%	3	6:45:00	8.55	0.05%
3	6:50:00	2836.76	2.83%	3	6:50:00	1188.72	2.28%	3	6:50:00	592.42	1.24%	3	6:50:00	8.16	0.05%
3	6:55:00	2822.39	2.81%	3	6:55:00	1183.85	2.27%	3	6:55:00	587.56	1.23%	3	6:55:00	7.78	0.05%
3	7:00:00	2808.06	2.80%	3	7:00:00	1179.01	2.26%	3	7:00:00	582.71	1.22%	3	7:00:00	7.42	0.05%
3	7:05:00	2793.77	2.78%	3	7:05:00	1174.2	2.25%	3	7:05:00	577.87	1.21%	3	7:05:00	7.07	0.04%
3	7:10:00	2779.52	2.77%	3	7:10:00	1169.4	2.24%	3	7:10:00	573.04	1.20%	3	7:10:00	6.74	0.04%
3	7:15:00	2765.3	2.76%	3	7:15:00	1164.63	2.23%	3	7:15:00	568.23	1.19%	3	7:15:00	6.42	0.04%
3	7:20:00	2751.12	2.74%	3	7:20:00	1159.88	2.22%	3	7:20:00	563.43	1.18%	3	7:20:00	6.11	0.04%
3	7:25:00	2736.98	2.73%	3	7:25:00	1155.15	2.21%	3	7:25:00	558.64	1.17%	3	7:25:00	5.81	0.04%

3	7:30:00	2722.88	2.71%
3	7:35:00	2708.81	2.70%
3	7:40:00	2694.78	2.69%
3	7:45:00	2680.8	2.67%
3	7:50:00	2666.85	2.66%
3	7:55:00	2652.94	2.64%
3	8:00:00	2639.07	2.63%
3	8:05:00	2625.24	2.62%
3	8:10:00	2611.44	2.60%
3	8:15:00	2597.69	2.59%
3	8:20:00	2583.98	2.58%
3	8:25:00	2570.31	2.56%
3	8:30:00	2556.67	2.55%
3	8:35:00	2543.08	2.53%
3	8:40:00	2529.53	2.52%
3	8:45:00	2516.01	2.51%
3	8:50:00	2502.54	2.49%
3	8:55:00	2489.11	2.48%
3	9:00:00	2475.72	2.47%
3	9:05:00	2462.37	2.45%
3	9:10:00	2449.06	2.44%
3	9:15:00	2435.79	2.43%
3	9:20:00	2422.56	2.41%
3	9:25:00	2409.38	2.40%
3	9:30:00	2396.23	2.39%
3	9:35:00	2383.13	2.38%
3	9:40:00	2370.07	2.36%
3	9:45:00	2357.05	2.35%
3	9:50:00	2344.08	2.34%
3	9:55:00	2331.14	2.32%
3	10:00:00	2318.25	2.31%
3	10:05:00	2305.41	2.30%
3	10:10:00	2292.6	2.29%
3	10:15:00	2279.84	2.27%
3	10:20:00	2267.12	2.26%
3	10:25:00	2254.45	2.25%
3	10:30:00	2241.82	2.23%
3	10:35:00	2229.23	2.22%
3	10:40:00	2216.69	2.21%
3	10:45:00	2204.19	2.20%
3	10:50:00	2191.74	2.18%
3	10:55:00	2179.33	2.17%
3	11:00:00	2166.96	2.16%
3	11:05:00	2154.64	2.15%
3	11:10:00	2142.37	2.14%
3	11:15:00	2130.14	2.12%
3	11:20:00	2117.95	2.11%
3	11:25:00	2105.82	2.10%
3	11:30:00	2093.73	2.09%
3	11:35:00	2081.68	2.07%
3	11:40:00	2069.68	2.06%
3	11:45:00	2057.73	2.05%
3	11:50:00	2045.83	2.04%
3	11:55:00	2033.97	2.03%
3	12:00:00	2022.16	2.02%
3	12:05:00	2010.39	2.00%
3	12:10:00	1998.68	1.99%
3	12:15:00	1987.01	1.98%
3	12:20:00	1975.39	1.97%
3	12:25:00	1963.83	1.96%
3	12:30:00	1952.3	1.95%
3	12:35:00	1940.83	1.93%
3	12:40:00	1929.41	1.92%
3	12:45:00	1918.04	1.91%
3	12:50:00	1906.72	1.90%
3	12:55:00	1895.44	1.89%
3	13:00:00	1884.22	1.88%
3	13:05:00	1873.05	1.87%
3	13:10:00	1861.93	1.86%
3	13:15:00	1850.86	1.84%
3	13:20:00	1839.85	1.83%
3	13:25:00	1828.88	1.82%
3	13:30:00	1817.97	1.81%
3	13:35:00	1807.11	1.80%
3	13:40:00	1796.3	1.79%
3	13:45:00	1785.55	1.78%
3	13:50:00	1774.85	1.77%
3	13:55:00	1764.21	1.76%
3	14:00:00	1753.62	1.75%
3	14:05:00	1743.08	1.74%

3	7:30:00	1150.44	2.20%
3	7:35:00	1145.76	2.19%
3	7:40:00	1141.09	2.19%
3	7:45:00	1136.44	2.18%
3	7:50:00	1131.82	2.17%
3	7:55:00	1127.21	2.16%
3	8:00:00	1122.62	2.15%
3	8:05:00	1118.05	2.14%
3	8:10:00	1113.5	2.13%
3	8:15:00	1108.96	2.12%
3	8:20:00	1104.44	2.12%
3	8:25:00	1099.94	2.11%
3	8:30:00	1095.46	2.10%
3	8:35:00	1090.99	2.09%
3	8:40:00	1086.53	2.08%
3	8:45:00	1082.09	2.07%
3	8:50:00	1077.67	2.06%
3	8:55:00	1073.25	2.06%
3	9:00:00	1068.86	2.05%
3	9:05:00	1064.47	2.04%
3	9:10:00	1060.09	2.03%
3	9:15:00	1055.73	2.02%
3	9:20:00	1051.38	2.01%
3	9:25:00	1047.03	2.01%
3	9:30:00	1042.69	2.00%
3	9:35:00	1038.36	1.99%
3	9:40:00	1034.03	1.98%
3	9:45:00	1029.71	1.97%
3	9:50:00	1025.39	1.96%
3	9:55:00	1021.08	1.96%
3	10:00:00	1016.77	1.95%
3	10:05:00	1012.47	1.94%
3	10:10:00	1008.17	1.93%
3	10:15:00	1003.88	1.92%
3	10:20:00	999.6	1.91%
3	10:25:00	995.31	1.91%
3	10:30:00	991.04	1.90%
3	10:35:00	986.77	1.89%
3	10:40:00	982.5	1.88%
3	10:45:00	978.24	1.87%
3	10:50:00	973.99	1.87%
3	10:55:00	969.74	1.86%
3	11:00:00	965.5	1.85%
3	11:05:00	961.26	1.84%
3	11:10:00	957.03	1.83%
3	11:15:00	952.8	1.82%
3	11:20:00	948.58	1.82%
3	11:25:00	944.36	1.81%
3	11:30:00	940.15	1.80%
3	11:35:00	935.94	1.79%
3	11:40:00	931.74	1.78%
3	11:45:00	927.55	1.78%
3	11:50:00	923.36	1.77%
3	11:55:00	919.17	1.76%
3	12:00:00	914.99	1.75%
3	12:05:00	910.82	1.74%
3	12:10:00	906.65	1.74%
3	12:15:00	902.49	1.73%
3	12:20:00	898.33	1.72%
3	12:25:00	894.18	1.71%
3	12:30:00	890.04	1.70%
3	12:35:00	885.9	1.70%
3	12:40:00	881.76	1.69%
3	12:45:00	877.64	1.68%
3	12:50:00	873.51	1.67%
3	12:55:00	869.4	1.66%
3	13:00:00	865.28	1.66%
3	13:05:00	861.18	1.65%
3	13:10:00	857.08	1.64%
3	13:15:00	852.98	1.63%
3	13:20:00	848.89	1.63%
3	13:25:00	844.81	1.62%
3	13:30:00	840.73	1.61%
3	13:35:00	836.66	1.60%
3	13:40:00	832.6	1.59%
3	13:45:00	828.54	1.59%
3	13:50:00	824.48	1.58%
3	13:55:00	820.43	1.57%
3	14:00:00	816.39	1.56%
3	14:05:00	812.35	1.56%

3	7:30:00	553.87	1.16%
3	7:35:00	549.1	1.15%
3	7:40:00	544.35	1.14%
3	7:45:00	539.62	1.13%
3	7:50:00	534.89	1.12%
3	7:55:00	530.18	1.11%
3	8:00:00	525.48	1.10%
3	8:05:00	520.8	1.09%
3	8:10:00	516.13	1.08%
3	8:15:00	511.47	1.07%
3	8:20:00	506.83	1.06%
3	8:25:00	502.2	1.05%
3	8:30:00	497.58	1.04%
3	8:35:00	492.97	1.03%
3	8:40:00	488.38	1.02%
3	8:45:00	483.81	1.01%
3	8:50:00	479.24	1.00%
3	8:55:00	474.69	0.99%
3	9:00:00	470.16	0.98%
3	9:05:00	465.64	0.97%
3	9:10:00	461.13	0.96%
3	9:15:00	456.64	0.95%
3	9:20:00	452.16	0.94%
3	9:25:00	447.69	0.93%
3	9:30:00	443.24	0.92%
3	9:35:00	438.81	0.92%
3	9:40:00	434.38	0.91%
3	9:45:00	429.98	0.90%
3	9:50:00	425.58	0.89%
3	9:55:00	421.21	0.88%
3	10:00:00	416.84	0.87%
3	10:05:00	412.49	0.86%
3	10:10:00	408.16	0.85%
3	10:15:00	403.84	0.84%
3	10:20:00	399.54	0.83%
3	10:25:00	395.25	0.82%
3	10:30:00	390.97	0.82%
3	10:35:00	386.72	0.81%
3	10:40:00	382.47	0.80%
3	10:45:00	378.25	0.79%
3	10:50:00	374.03	0.78%
3	10:55:00	369.84	0.77%
3	11:00:00	365.66	0.76%
3	11:05:00	361.49	0.75%
3	11:10:00	357.34	0.75%
3	11:15:00	353.21	0.74%
3	11:20:00	349.09	0.73%
3	11:25:00	344.99	0.72%
3	11:30:00	340.91	0.71%
3	11:35:00	336.84	0.70%
3	11:40:00	332.79	0.69%
3	11:45:00	328.75	0.69%
3	11:50:00	324.74	0.68%
3	11:55:00	320.73	0.67%
3	12:00:00	316.75	0.66%
3	12:05:00	312.78	0.65%
3	12:10:00	308.83	0.64%
3	12:15:00	304.9	0.64%
3	12:20:00	300.98	0.63%
3	12:25:00	297.08	0.62%
3	12:30:00	293.2	0.61%
3	12:35:00	289.34	0.60%
3	12:40:00	285.49	0.60%
3	12:45:00	281.66	0.59%
3	12:50:00	277.85	0.58%
3	12:55:00	274.06	0.57%
3	13:00:00	270.29	0.56%
3	13:05:00	266.53	0.56%
3	13:10:00	262.8	0.55%
3	13:15:00	259.08	0.54%
3	13:20:00	255.38	0.53%
3	13:25:00	251.7	0.52%
3	13:30:00	248.04	0.52%
3	13:35:00	244.39	0.51%
3	13:40:00	240.77	0.50%
3	13:45:00	237.17	0.49%
3	13:50:00	233.58	0.49%
3	13:55:00	230.02	0.48%
3	14:00:00	226.48	0.47%
3	14:05:00	222.95	0.47%

3	7:30:00	5.52	0.03%
3	7:35:00	5.25	0.03%
3	7:40:00	4.98	0.03%
3	7:45:00	4.73	0.03%
3	7:50:00	4.48	0.03%
3	7:55:00	4.25	0.03%
3	8:00:00	4.03	0.03%
3	8:05:00	3.81	0.02%
3	8:10:00	3.61	0.02%
3	8:15:00	3.41	0.02%
3	8:20:00	3.23	0.02%
3	8:25:00	3.05	0.02%
3	8:30:00	2.88	0.02%
3	8:35:00	2.71	0.02%
3	8:40:00	2.56	0.02%
3	8:45:00	2.41	0.02%
3	8:50:00	2.27	0.01%
3	8:55:00	2.13	0.01%
3	9:00:00	2.01	0.01%
3	9:05:00	1.88	0.01%
3	9:10:00	1.77	0.01%
3	9:15:00	1.66	0.01%
3	9:20:00	1.56	0.01%
3	9:25:00	1.46	0.01%
3	9:30:00	1.37	0.01%
3	9:35:00	1.28	0.01%
3	9:40:00	1.19	0.01%
3	9:45:00	1.11	0.01%
3	9:50:00	1.04	0.01%
3	9:55:00	0.97	0.01%
3	10:00:00	0.9	0.01%
3	10:05:00	0.84	0.01%
3	10:10:00	0.78	0.00%
3	10:15:00	0.73	0.00%
3	10:20:00	0.68	0.00%
3	10:25:00	0.63	0.00%
3	10:30:00	0.58	0.00%
3	10:35:00	0.54	0.00%
3	10:40:00	0.5	0.00%
3	10:45:00	0.47	0.00%
3	10:50:00	0.43	0.00%
3	10:55:00	0.4	0.00%
3	11:00:00	0.37	0.00%
3	11:05:00	0.34	0.00%
3	11:10:00	0.31	0.00%
3	11:15:00	0.29	0.00%
3	11:20:00	0.27	0.00%
3	11:25:00	0.25	0.00%
3	11:30:00	0.23	0.00%
3	11:35:00	0.21	0.00%
3	11:40:00	0.19	0.00%
3	11:45:00	0.18	0.00%
3	11:50:00	0.17	0.00%
3	11:55:00	0.15	0.00%
3	12:00:00	0.14	0.00%
3	12:05:00	0.13	0.00%
3	12:10:00	0.12	0.00%
3	12:15:00	0.11	0.00%
3	12:20:00	0.1	0.00%
3	12:25:00	0.09	0.00%
3	12:30:00	0.09	0.00%
3	12:35:00	0.08	0.00%
3	12:40:00	0.07	0.00%
3	12:45:00	0.07	0.00%
3	12:50:00	0.06	0.00%
3	12:55:00	0.06	0.00%
3	13:00:00	0.05	0.00%
3	13:05:00	0.05	0.00%
3	13:10:00	0.05	0.00%
3	13:15:00	0.04	0.00%
3	13:20:00	0.04	0.00%
3	13:25:00	0.04	0.00%
3	13:30:00	0.04	0.00%
3	13:35:00	0.03	0.00%
3	13:40:00	0.03	0.00%
3	13:45:00	0.03	0.00%
3	13:50:00	0.03	0.00%
3	13:55:00	0.03	0.00%
3	14:00:00	0.02	0.00%
3	14:05:00	0.02	0.00%

3	14:10:00	1732.6	1.73%	3	14:10:00	808.32	1.55%	3	14:10:00	219.45	0.46%	3	14:10:00	0.02	0.00%
3	14:15:00	1722.18	1.72%	3	14:15:00	804.3	1.54%	3	14:15:00	215.97	0.45%	3	14:15:00	0.02	0.00%
3	14:20:00	1711.81	1.71%	3	14:20:00	800.28	1.53%	3	14:20:00	212.5	0.44%	3	14:20:00	0.02	0.00%
3	14:25:00	1701.5	1.70%	3	14:25:00	796.26	1.52%	3	14:25:00	209.06	0.44%	3	14:25:00	0.02	0.00%
3	14:30:00	1691.24	1.69%	3	14:30:00	792.26	1.52%	3	14:30:00	205.64	0.43%	3	14:30:00	0.02	0.00%
3	14:35:00	1681.04	1.68%	3	14:35:00	788.26	1.51%	3	14:35:00	202.24	0.42%	3	14:35:00	0.02	0.00%
3	14:40:00	1670.9	1.67%	3	14:40:00	784.26	1.50%	3	14:40:00	198.86	0.41%	3	14:40:00	0.02	0.00%
3	14:45:00	1660.82	1.66%	3	14:45:00	780.27	1.49%	3	14:45:00	195.5	0.41%	3	14:45:00	0.01	0.00%
3	14:50:00	1650.8	1.65%	3	14:50:00	776.29	1.49%	3	14:50:00	192.17	0.40%	3	14:50:00	0.01	0.00%
3	14:55:00	1640.84	1.64%	3	14:55:00	772.31	1.48%	3	14:55:00	188.85	0.39%	3	14:55:00	0.01	0.00%
3	15:00:00	1630.93	1.63%	3	15:00:00	768.34	1.47%	3	15:00:00	185.56	0.39%	3	15:00:00	0.01	0.00%
3	15:05:00	1621.09	1.62%	3	15:05:00	764.37	1.46%	3	15:05:00	182.29	0.38%	3	15:05:00	0.01	0.00%
3	15:10:00	1611.32	1.61%	3	15:10:00	760.41	1.46%	3	15:10:00	179.04	0.37%	3	15:10:00	0.01	0.00%
3	15:15:00	1601.63	1.60%	3	15:15:00	756.46	1.45%	3	15:15:00	175.82	0.37%	3	15:15:00	0.01	0.00%
3	15:20:00	1592.02	1.59%	3	15:20:00	752.51	1.44%	3	15:20:00	172.62	0.36%	3	15:20:00	0.01	0.00%
3	15:25:00	1582.5	1.58%	3	15:25:00	748.57	1.43%	3	15:25:00	169.44	0.35%	3	15:25:00	0.01	0.00%
3	15:30:00	1573.06	1.57%	3	15:30:00	744.63	1.43%	3	15:30:00	166.28	0.35%	3	15:30:00	0.01	0.00%
3	15:35:00	1563.7	1.56%	3	15:35:00	740.7	1.42%	3	15:35:00	163.15	0.34%	3	15:35:00	0.01	0.00%
3	15:40:00	1554.43	1.55%	3	15:40:00	736.78	1.41%	3	15:40:00	160.04	0.33%	3	15:40:00	0.01	0.00%
3	15:45:00	1545.23	1.54%	3	15:45:00	732.86	1.40%	3	15:45:00	156.95	0.33%	3	15:45:00	0.01	0.00%
3	15:50:00	1536.11	1.53%	3	15:50:00	728.95	1.40%	3	15:50:00	153.89	0.32%	3	15:50:00	0.01	0.00%
3	15:55:00	1527.07	1.52%	3	15:55:00	725.05	1.39%	3	15:55:00	150.86	0.31%	3	15:55:00	0.01	0.00%
3	16:00:00	1518.1	1.51%	3	16:00:00	721.15	1.38%	3	16:00:00	147.84	0.31%	3	16:00:00	0.01	0.00%
3	16:05:00	1509.21	1.50%	3	16:05:00	717.25	1.37%	3	16:05:00	144.86	0.30%	3	16:05:00	0.01	0.00%
3	16:10:00	1500.39	1.50%	3	16:10:00	713.37	1.37%	3	16:10:00	141.9	0.30%	3	16:10:00	0.01	0.00%
3	16:15:00	1491.65	1.49%	3	16:15:00	709.49	1.36%	3	16:15:00	138.96	0.29%	3	16:15:00	0.01	0.00%
3	16:20:00	1482.98	1.48%	3	16:20:00	705.61	1.35%	3	16:20:00	136.05	0.28%	3	16:20:00	0.01	0.00%
3	16:25:00	1474.38	1.47%	3	16:25:00	701.75	1.34%	3	16:25:00	133.16	0.28%	3	16:25:00	0.01	0.00%
3	16:30:00	1465.85	1.46%	3	16:30:00	697.89	1.34%	3	16:30:00	130.3	0.27%	3	16:30:00	0.01	0.00%
3	16:35:00	1457.39	1.45%	3	16:35:00	694.03	1.33%	3	16:35:00	127.47	0.27%	3	16:35:00	0.01	0.00%
3	16:40:00	1449	1.44%	3	16:40:00	690.18	1.32%	3	16:40:00	124.67	0.26%	3	16:40:00	0.01	0.00%
3	16:45:00	1440.68	1.44%	3	16:45:00	686.34	1.31%	3	16:45:00	121.89	0.25%	3	16:45:00	0.01	0.00%
3	16:50:00	1432.43	1.43%	3	16:50:00	682.5	1.31%	3	16:50:00	119.14	0.25%	3	16:50:00	0.01	0.00%
3	16:55:00	1424.24	1.42%	3	16:55:00	678.67	1.30%	3	16:55:00	116.41	0.24%	3	16:55:00	0.01	0.00%
3	17:00:00	1416.12	1.41%	3	17:00:00	674.85	1.29%	3	17:00:00	113.72	0.24%	3	17:00:00	0.01	0.00%
3	17:05:00	1408.06	1.40%	3	17:05:00	671.04	1.29%	3	17:05:00	111.05	0.23%	3	17:05:00	0.01	0.00%
3	17:10:00	1400.07	1.40%	3	17:10:00	667.22	1.28%	3	17:10:00	108.41	0.23%	3	17:10:00	0.01	0.00%
3	17:15:00	1392.13	1.39%	3	17:15:00	663.42	1.27%	3	17:15:00	105.8	0.22%	3	17:15:00	0.01	0.00%
3	17:20:00	1384.26	1.38%	3	17:20:00	659.62	1.26%	3	17:20:00	103.22	0.22%	3	17:20:00	0.01	0.00%
3	17:25:00	1376.46	1.37%	3	17:25:00	655.83	1.26%	3	17:25:00	100.67	0.21%	3	17:25:00	0.01	0.00%
3	17:30:00	1368.71	1.36%	3	17:30:00	652.05	1.25%	3	17:30:00	98.15	0.20%	3	17:30:00	0.01	0.00%
3	17:35:00	1361.02	1.36%	3	17:35:00	648.27	1.24%	3	17:35:00	95.66	0.20%	3	17:35:00	0.01	0.00%
3	17:40:00	1353.39	1.35%	3	17:40:00	644.5	1.23%	3	17:40:00	93.2	0.19%	3	17:40:00	0.01	0.00%
3	17:45:00	1345.82	1.34%	3	17:45:00	640.73	1.23%	3	17:45:00	90.77	0.19%	3	17:45:00	0.01	0.00%
3	17:50:00	1338.3	1.33%	3	17:50:00	636.98	1.22%	3	17:50:00	88.38	0.18%	3	17:50:00	0.01	0.00%
3	17:55:00	1330.84	1.33%	3	17:55:00	633.22	1.21%	3	17:55:00	86.01	0.18%	3	17:55:00	0.01	0.00%
3	18:00:00	1323.44	1.32%	3	18:00:00	629.48	1.21%	3	18:00:00	83.69	0.17%	3	18:00:00	0.01	0.00%
3	18:05:00	1316.09	1.31%	3	18:05:00	625.74	1.20%	3	18:05:00	81.42	0.17%	3	18:05:00	0.01	0.00%
3	18:10:00	1308.79	1.30%	3	18:10:00	622.01	1.19%	3	18:10:00	79.19	0.17%	3	18:10:00	0.01	0.00%
3	18:15:00	1301.55	1.30%	3	18:15:00	618.29	1.18%	3	18:15:00	77.02	0.16%	3	18:15:00	0.01	0.00%
3	18:20:00	1294.36	1.29%	3	18:20:00	614.57	1.18%	3	18:20:00	74.88	0.16%	3	18:20:00	0.01	0.00%
3	18:25:00	1287.22	1.28%	3	18:25:00	610.86	1.17%	3	18:25:00	72.8	0.15%	3	18:25:00	0.01	0.00%
3	18:30:00	1280.14	1.28%	3	18:30:00	607.15	1.16%	3	18:30:00	70.75	0.15%	3	18:30:00	0.01	0.00%
3	18:35:00	1273.1	1.27%	3	18:35:00	603.45	1.16%	3	18:35:00	68.75	0.14%	3	18:35:00	0.01	0.00%
3	18:40:00	1266.11	1.26%	3	18:40:00	599.76	1.15%	3	18:40:00	66.8	0.14%	3	18:40:00	0.01	0.00%
3	18:45:00	1259.17	1.26%	3	18:45:00	596.08	1.14%	3	18:45:00	64.89	0.14%	3	18:45:00	0.01	0.00%
3	18:50:00	1252.28	1.25%	3	18:50:00	592.4	1.13%	3	18:50:00	63.01	0.13%	3	18:50:00	0.01	0.00%
3	18:55:00	1245.43	1.24%	3	18:55:00	588.73	1.13%	3	18:55:00	61.19	0.13%	3	18:55:00	0.01	0.00%
3	19:00:00	1238.63	1.23%	3	19:00:00	585.06	1.12%	3	19:00:00	59.4	0.12%	3	19:00:00	0.01	0.00%
3	19:05:00	1231.87	1.23%	3	19:05:00	581.41	1.11%	3	19:05:00	57.65	0.12%	3	19:05:00	0.01	0.00%
3	19:10:00	1225.16	1.22%	3	19:10:00	577.76	1.11%	3	19:10:00	55.94	0.12%	3	19:10:00	0.01	0.00%
3	19:15:00	1218.5	1.21%	3	19:15:00	574.11	1.10%	3	19:15:00	54.27	0.11%	3	19:15:00	0.01	0.00%
3	19:20:00	1211.87	1.21%	3	19:20:00	570.48	1.09%	3	19:20:00	52.64	0.11%	3	19:20:00	0.01	0.00%
3	19:25:00	1205.29	1.20%	3	19:25:00	566.85	1.09%	3	19:25:00	51.04	0.11%	3	19:25:00	0.01	0.00%
3	19:30:00	1198.75	1.19%	3	19:30:00	563.23	1.08%	3	19:30:00	49.49	0.10%	3	19:30:00	0.01	0.00%
3	19:35:00	1192.25	1.19%	3	19:35:00	559.61	1.07%	3	19:35:00	47.97	0.10%	3	19:35:00	0.01	0.00%
3	19:40:00	1185.8	1.18%	3	19:40:00	556	1.06%	3	19:40:00	46.48	0.10%	3	19:40:00	0.01	0.00%
3	19:45:00	1179.38	1.18%	3	19:45:00	552.4	1.06%	3	19:45:00	45.03	0.09%	3	19:45:00	0.01	0.00%
3	19:50:00	1172.99	1.17%	3	19:50:00	548.81	1.05%	3	19:50:00	43.62	0.09%	3	19:50:00	0.01	0.00%
3	19:55:00	1166.65	1.16%	3	19:55:00	545.22	1.04%	3	19:55:00	42.24	0.09%	3	19:55:00	0.01	0.00%
3	20:00:00	1160.34	1.16%	3	20:00:00	541.64	1.04%	3	20:00:00	40.89	0.09%	3	20:00:00	0.01	0.00%
3	20:05:00	1154.07	1.15%	3	20:05:00	538.07	1.03%	3	20:05:00	39.58	0.08%	3	20:05:00	0.01	0.00%
3	20:10:00	1147.83	1.14%	3	20:10:00	534.5	1.02%	3	20:10:00	38.3	0.08%	3	20:10:00	0.01	0.00%
3	20:15:00	1141.63	1.14%	3	20:15:00	530.94	1.02%	3	20:15:00	37.05	0.08%	3	20:15:00	0.01	0.00%
3	20:20:00	1135.47	1.13%	3	20:20:00	527.39	1.01%	3	20:20:00	35.83	0.07%	3	20:20:00	0.01	0.00%
3	20:25:00	1129.33	1.13%	3	20:25:00	523.85	1.00%	3	20:25:00	34.64	0.07%	3	20:25:00	0.01	0.00%
3	20:30:00	1123.23	1.12%	3	20:30:00	520.31	1.00%	3	20:30:00	33.49	0.07%	3	20:30:00	0.01	0.00%
3	20:35:00	1117.15	1.11%	3	20:35:00	516.78	0.99%	3	20:35:00	32.36	0.07%	3	20:35:00	0.01	0.00%
3	20:40:00	1111.11	1.11%	3	20:40:00	513.26	0.98%	3	20:40:00	31.26	0.07%	3	20:40:00	0.01	0.00%
3	20:45:00	1105.1	1.10%	3	20:45:00	509.75	0.98%	3	20:45:00	30.2	0.06%	3	20:45:00	0	0.00%

3	20:50:00	1099.11	1.10%	3	20:50:00	506.24	0.97%	3	20:50:00	29.16	0.06%	3	20:50:00	0	0.00%
3	20:55:00	1093.15	1.09%	3	20:55:00	502.74	0.96%	3	20:55:00	28.14	0.06%	3	20:55:00	0	0.00%
3	21:00:00	1087.22	1.08%	3	21:00:00	499.25	0.96%	3	21:00:00	27.16	0.06%	3	21:00:00	0.01	0.00%
3	21:05:00	1081.32	1.08%	3	21:05:00	495.76	0.95%	3	21:05:00	26.2	0.05%	3	21:05:00	0.01	0.00%
3	21:10:00	1075.43	1.07%	3	21:10:00	492.29	0.94%	3	21:10:00	25.27	0.05%	3	21:10:00	0.01	0.00%
3	21:15:00	1069.57	1.07%	3	21:15:00	488.82	0.94%	3	21:15:00	24.36	0.05%	3	21:15:00	0.01	0.00%
3	21:20:00	1063.73	1.06%	3	21:20:00	485.35	0.93%	3	21:20:00	23.48	0.05%	3	21:20:00	0.01	0.00%
3	21:25:00	1057.91	1.05%	3	21:25:00	481.9	0.92%	3	21:25:00	22.62	0.05%	3	21:25:00	0.01	0.00%
3	21:30:00	1052.11	1.05%	3	21:30:00	478.45	0.92%	3	21:30:00	21.79	0.05%	3	21:30:00	0.01	0.00%
3	21:35:00	1046.33	1.04%	3	21:35:00	475.01	0.91%	3	21:35:00	20.98	0.04%	3	21:35:00	0.01	0.00%
3	21:40:00	1040.55	1.04%	3	21:40:00	471.58	0.90%	3	21:40:00	20.2	0.04%	3	21:40:00	0.01	0.00%
3	21:45:00	1034.79	1.03%	3	21:45:00	468.16	0.90%	3	21:45:00	19.44	0.04%	3	21:45:00	0.01	0.00%
3	21:50:00	1029.03	1.03%	3	21:50:00	464.74	0.89%	3	21:50:00	18.7	0.04%	3	21:50:00	0.01	0.00%
3	21:55:00	1023.29	1.02%	3	21:55:00	461.33	0.88%	3	21:55:00	17.98	0.04%	3	21:55:00	0	0.00%
3	22:00:00	1017.55	1.01%	3	22:00:00	457.93	0.88%	3	22:00:00	17.28	0.04%	3	22:00:00	0	0.00%
3	22:05:00	1011.82	1.01%	3	22:05:00	454.54	0.87%	3	22:05:00	16.61	0.03%	3	22:05:00	0	0.00%
3	22:10:00	1006.1	1.00%	3	22:10:00	451.15	0.86%	3	22:10:00	15.95	0.03%	3	22:10:00	0	0.00%
3	22:15:00	1000.4	1.00%	3	22:15:00	447.77	0.86%	3	22:15:00	15.32	0.03%	3	22:15:00	0	0.00%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 4A (UPPER PORTION)

Max Volume(CF)= 47095.36

Table - Node POND_4A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	0.00%
0	0:10:00	37.14	0.08%
0	0:15:00	566.46	1.20%
0	0:20:00	1698.93	3.61%
0	0:25:00	2884.35	6.12%
0	0:30:00	4087.37	8.68%
0	0:35:00	5442.15	11.56%
0	0:40:00	9296.88	19.74%
0	0:45:00	23081.82	49.01%
0	0:50:00	39962.65	84.85%
0	0:55:00	46291.1	98.29%
0	1:00:00	47095.36	100.00%
0	1:05:00	44804.96	95.14%
0	1:10:00	41483.78	88.08%
0	1:15:00	37128.14	78.84%
0	1:20:00	31571.68	67.04%
0	1:25:00	25974.51	55.15%
0	1:30:00	20978.9	44.55%
0	1:35:00	16980.6	36.06%
0	1:40:00	14027.4	29.79%
0	1:45:00	12043.95	25.57%
0	1:50:00	11065.64	23.50%
0	1:55:00	10559.91	22.42%
0	2:00:00	10248.8	21.76%
0	2:05:00	10064.62	21.37%
0	2:10:00	9821.33	20.85%
0	2:15:00	9636.19	20.46%
0	2:20:00	9456.04	20.08%
0	2:25:00	9331.68	19.81%
0	2:30:00	9223.5	19.58%
0	2:35:00	9142.05	19.41%
0	2:40:00	9072.8	19.26%
0	2:45:00	9015.03	19.14%
0	2:50:00	8966.95	19.04%
0	2:55:00	8921.98	18.94%
0	3:00:00	8885.29	18.87%
0	3:05:00	8846.28	18.78%
0	3:10:00	8813.54	18.71%
0	3:15:00	8772.97	18.63%
0	3:20:00	8739.96	18.56%
0	3:25:00	8697.85	18.47%
0	3:30:00	8664.72	18.40%
0	3:35:00	8621.62	18.31%
0	3:40:00	8588.38	18.24%
0	3:45:00	8544.69	18.14%
0	3:50:00	8511.29	18.07%
0	3:55:00	8467.35	17.98%
0	4:00:00	8433.68	17.91%
0	4:05:00	8389.76	17.81%
0	4:10:00	8355.74	17.74%
0	4:15:00	8312.05	17.65%
0	4:20:00	8277.58	17.58%
0	4:25:00	8234.29	17.48%

5-Year: 97%; 72 Hours

0

Max Volume(CF)= 14340.13

Table - Node POND_4A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	16.91	0.12%
0	0:15:00	187.39	1.31%
0	0:20:00	717.44	5.00%
0	0:25:00	1533.56	10.69%
0	0:30:00	2481.8	17.31%
0	0:35:00	3499.01	24.40%
0	0:40:00	5336.79	37.22%
0	0:45:00	10076.9	70.27%
0	0:50:00	13372.82	93.25%
0	0:55:00	13995.2	97.59%
0	1:00:00	14340.13	100.00%
0	1:05:00	14033.28	97.86%
0	1:10:00	13322.14	92.90%
0	1:15:00	12327.45	85.96%
0	1:20:00	11353.65	79.17%
0	1:25:00	10717.88	74.74%
0	1:30:00	10308.05	71.88%
0	1:35:00	10037.1	69.99%
0	1:40:00	9835.45	68.59%
0	1:45:00	9705.57	67.68%
0	1:50:00	9605.97	66.99%
0	1:55:00	9537.41	66.51%
0	2:00:00	9488.41	66.17%
0	2:05:00	9458.24	65.96%
0	2:10:00	9375.77	65.38%
0	2:15:00	9308.91	64.92%
0	2:20:00	9212.08	64.24%
0	2:25:00	9148.36	63.80%
0	2:30:00	9077.42	63.30%
0	2:35:00	9027.64	62.95%
0	2:40:00	8975.66	62.59%
0	2:45:00	8935.55	62.31%
0	2:50:00	8895.19	62.03%
0	2:55:00	8860.02	61.78%
0	3:00:00	8824.97	61.54%
0	3:05:00	8788.26	61.28%
0	3:10:00	8753.08	61.04%
0	3:15:00	8714.05	60.77%
0	3:20:00	8679.06	60.52%
0	3:25:00	8638.33	60.24%
0	3:30:00	8603.64	60.00%
0	3:35:00	8561.68	59.70%
0	3:40:00	8527.27	59.46%
0	3:45:00	8484.45	59.17%
0	3:50:00	8450.24	58.93%
0	3:55:00	8406.88	58.62%
0	4:00:00	8372.77	58.39%
0	4:05:00	8329.14	58.08%
0	4:10:00	8295	57.84%
0	4:15:00	8251.32	57.54%
0	4:20:00	8217.03	57.30%
0	4:25:00	8173.51	57.00%

EURV 97% 72 Hours

Max Volume(CF)= 7904.62

Table - Node POND_4A

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	9.74	0.12%
0	0:15:00	78.87	1.00%
0	0:20:00	347.14	4.39%
0	0:25:00	893.53	11.30%
0	0:30:00	1660.07	21.00%
0	0:35:00	2541.06	32.15%
0	0:40:00	3928.39	49.70%
0	0:45:00	6739.62	85.26%
0	0:50:00	7836.91	99.14%
0	0:55:00	6450.06	81.60%
0	1:00:00	5114.44	64.70%
0	1:05:00	6161.14	77.94%
0	1:10:00	6411.82	81.11%
0	1:15:00	6797.85	86.00%
0	1:20:00	6986.21	88.38%
0	1:25:00	7114.69	90.01%
0	1:30:00	7270.75	91.98%
0	1:35:00	7326.59	92.69%
0	1:40:00	7476.37	94.58%
0	1:45:00	7501.2	94.90%
0	1:50:00	7641.8	96.68%
0	1:55:00	7654.01	96.83%
0	2:00:00	7789.08	98.54%
0	2:05:00	7798.96	98.66%
0	2:10:00	7894.19	99.87%
0	2:15:00	7864.06	99.49%
0	2:20:00	7904.62	100.00%
0	2:25:00	7842.4	99.21%
0	2:30:00	7869.62	99.56%
0	2:35:00	7794.53	98.61%
0	2:40:00	7816.31	98.88%
0	2:45:00	7735.44	97.86%
0	2:50:00	7753.65	98.09%
0	2:55:00	7670.86	97.04%
0	3:00:00	7685.58	97.23%
0	3:05:00	7603.36	96.19%
0	3:10:00	7614.11	96.32%
0	3:15:00	7534.24	95.31%
0	3:20:00	7540.39	95.39%
0	3:25:00	7464.19	94.43%
0	3:30:00	7465.15	94.44%
0	3:35:00	7393.6	93.54%
0	3:40:00	7388.9	93.48%
0	3:45:00	7322.68	92.64%
0	3:50:00	7311.98	92.50%
0	3:55:00	7251.53	91.74%
0	4:00:00	7234.69	91.52%
0	4:05:00	7180.2	90.84%
0	4:10:00	7157.24	90.55%
0	4:15:00	7108.71	89.93%
0	4:20:00	7079.8	89.57%
0	4:25:00	7037.05	89.02%

0	4:30:00	8199.31	17.41%
0	4:35:00	8156.56	17.32%
0	4:40:00	8121	17.24%
0	4:45:00	8078.87	17.15%
0	4:50:00	8042.7	17.08%
0	4:55:00	8001.26	16.99%
0	5:00:00	7964.47	16.91%
0	5:05:00	7923.75	16.82%
0	5:10:00	7886.34	16.75%
0	5:15:00	7846.35	16.66%
0	5:20:00	7808.35	16.58%
0	5:25:00	7769.07	16.50%
0	5:30:00	7730.53	16.41%
0	5:35:00	7691.92	16.33%
0	5:40:00	7652.9	16.25%
0	5:45:00	7614.91	16.17%
0	5:50:00	7575.47	16.09%
0	5:55:00	7538.03	16.01%
0	6:00:00	7498.26	15.92%
0	6:05:00	7461.3	15.84%
0	6:10:00	7421.28	15.76%
0	6:15:00	7384.72	15.68%
0	6:20:00	7344.54	15.60%
0	6:25:00	7308.3	15.52%
0	6:30:00	7268.04	15.43%
0	6:35:00	7232.05	15.36%
0	6:40:00	7191.78	15.27%
0	6:45:00	7155.96	15.19%
0	6:50:00	7115.78	15.11%
0	6:55:00	7080.05	15.03%
0	7:00:00	7040.01	14.95%
0	7:05:00	7004.32	14.87%
0	7:10:00	6964.5	14.79%
0	7:15:00	6928.78	14.71%
0	7:20:00	6889.22	14.63%
0	7:25:00	6853.43	14.55%
0	7:30:00	6814.19	14.47%
0	7:35:00	6778.29	14.39%
0	7:40:00	6739.38	14.31%
0	7:45:00	6703.34	14.23%
0	7:50:00	6664.79	14.15%
0	7:55:00	6628.62	14.07%
0	8:00:00	6590.45	13.99%
0	8:05:00	6554.12	13.92%
0	8:10:00	6516.34	13.84%
0	8:15:00	6479.87	13.76%
0	8:20:00	6442.49	13.68%
0	8:25:00	6405.86	13.60%
0	8:30:00	6368.87	13.52%
0	8:35:00	6332.11	13.45%
0	8:40:00	6295.49	13.37%
0	8:45:00	6258.63	13.29%
0	8:50:00	6222.36	13.21%
0	8:55:00	6185.4	13.13%
0	9:00:00	6149.46	13.06%
0	9:05:00	6112.44	12.98%
0	9:10:00	6076.8	12.90%
0	9:15:00	6039.75	12.82%
0	9:20:00	6004.38	12.75%
0	9:25:00	5967.34	12.67%

0	4:30:00	8138.96	56.76%
0	4:35:00	8095.76	56.46%
0	4:40:00	8060.85	56.21%
0	4:45:00	8018.09	55.91%
0	4:50:00	7982.74	55.67%
0	4:55:00	7940.54	55.37%
0	5:00:00	7904.7	55.12%
0	5:05:00	7863.12	54.83%
0	5:10:00	7826.75	54.58%
0	5:15:00	7785.83	54.29%
0	5:20:00	7748.92	54.04%
0	5:25:00	7708.69	53.76%
0	5:30:00	7671.25	53.49%
0	5:35:00	7631.71	53.22%
0	5:40:00	7593.76	52.95%
0	5:45:00	7554.87	52.68%
0	5:50:00	7516.46	52.42%
0	5:55:00	7478.2	52.15%
0	6:00:00	7439.37	51.88%
0	6:05:00	7401.68	51.62%
0	6:10:00	7362.5	51.34%
0	6:15:00	7325.33	51.08%
0	6:20:00	7285.87	50.81%
0	6:25:00	7249.14	50.55%
0	6:30:00	7209.48	50.27%
0	6:35:00	7173.12	50.02%
0	6:40:00	7133.33	49.74%
0	6:45:00	7097.27	49.49%
0	6:50:00	7057.43	49.21%
0	6:55:00	7021.6	48.96%
0	7:00:00	6981.78	48.69%
0	7:05:00	6946.11	48.44%
0	7:10:00	6906.38	48.16%
0	7:15:00	6870.8	47.91%
0	7:20:00	6831.22	47.64%
0	7:25:00	6795.68	47.39%
0	7:30:00	6756.31	47.11%
0	7:35:00	6720.75	46.87%
0	7:40:00	6681.63	46.59%
0	7:45:00	6646.02	46.35%
0	7:50:00	6607.2	46.07%
0	7:55:00	6571.5	45.83%
0	8:00:00	6533.02	45.56%
0	8:05:00	6497.22	45.31%
0	8:10:00	6459.1	45.04%
0	8:15:00	6423.17	44.79%
0	8:20:00	6385.42	44.53%
0	8:25:00	6349.37	44.28%
0	8:30:00	6312	44.02%
0	8:35:00	6275.81	43.76%
0	8:40:00	6238.82	43.51%
0	8:45:00	6202.51	43.25%
0	8:50:00	6165.9	43.00%
0	8:55:00	6129.47	42.74%
0	9:00:00	6093.21	42.49%
0	9:05:00	6056.69	42.24%
0	9:10:00	6020.77	41.99%
0	9:15:00	5984.18	41.73%
0	9:20:00	5948.58	41.48%
0	9:25:00	5911.94	41.23%

0	4:30:00	7002.51	88.59%
0	4:35:00	6965.21	88.12%
0	4:40:00	6925.49	87.61%
0	4:45:00	6893.17	87.20%
0	4:50:00	6848.82	86.64%
0	4:55:00	6820.92	86.29%
0	5:00:00	6772.56	85.68%
0	5:05:00	6748.44	85.37%
0	5:10:00	6696.77	84.72%
0	5:15:00	6675.73	84.45%
0	5:20:00	6621.46	83.77%
0	5:25:00	6602.82	83.53%
0	5:30:00	6546.68	82.82%
0	5:35:00	6529.75	82.61%
0	5:40:00	6472.42	81.88%
0	5:45:00	6456.53	81.68%
0	5:50:00	6398.69	80.95%
0	5:55:00	6383.18	80.75%
0	6:00:00	6325.48	80.02%
0	6:05:00	6309.74	79.82%
0	6:10:00	6252.77	79.10%
0	6:15:00	6236.25	78.89%
0	6:20:00	6180.53	78.19%
0	6:25:00	6162.74	77.96%
0	6:30:00	6108.73	77.28%
0	6:35:00	6089.25	77.03%
0	6:40:00	6037.35	76.38%
0	6:45:00	6015.84	76.11%
0	6:50:00	5966.35	75.48%
0	6:55:00	5942.53	75.18%
0	7:00:00	5895.68	74.59%
0	7:05:00	5869.39	74.25%
0	7:10:00	5825.32	73.70%
0	7:15:00	5796.46	73.33%
0	7:20:00	5755.22	72.81%
0	7:25:00	5723.77	72.41%
0	7:30:00	5685.36	71.92%
0	7:35:00	5651.38	71.49%
0	7:40:00	5615.69	71.04%
0	7:45:00	5579.3	70.58%
0	7:50:00	5546.19	70.16%
0	7:55:00	5507.59	69.68%
0	8:00:00	5476.83	69.29%
0	8:05:00	5436.26	68.77%
0	8:10:00	5407.6	68.41%
0	8:15:00	5365.33	67.88%
0	8:20:00	5338.47	67.54%
0	8:25:00	5294.83	66.98%
0	8:30:00	5269.43	66.66%
0	8:35:00	5224.78	66.10%
0	8:40:00	5200.48	65.79%
0	8:45:00	5155.17	65.22%
0	8:50:00	5131.62	64.92%
0	8:55:00	5086.01	64.34%
0	9:00:00	5062.84	64.05%
0	9:05:00	5017.3	63.47%
0	9:10:00	4994.16	63.18%
0	9:15:00	4949.02	62.61%
0	9:20:00	4925.6	62.31%
0	9:25:00	4881.2	61.75%

0	9:30:00	5932.2	12.60%
0	9:35:00	5895.2	12.52%
0	9:40:00	5860.26	12.44%
0	9:45:00	5823.33	12.36%
0	9:50:00	5788.57	12.29%
0	9:55:00	5751.74	12.21%
0	10:00:00	5717.12	12.14%
0	10:05:00	5680.43	12.06%
0	10:10:00	5645.91	11.99%
0	10:15:00	5609.4	11.91%
0	10:20:00	5574.96	11.84%
0	10:25:00	5538.65	11.76%
0	10:30:00	5504.26	11.69%
0	10:35:00	5468.17	11.61%
0	10:40:00	5433.82	11.54%
0	10:45:00	5397.97	11.46%
0	10:50:00	5363.64	11.39%
0	10:55:00	5328.05	11.31%
0	11:00:00	5293.72	11.24%
0	11:05:00	5258.4	11.17%
0	11:10:00	5224.06	11.09%
0	11:15:00	5189.02	11.02%
0	11:20:00	5154.68	10.95%
0	11:25:00	5119.93	10.87%
0	11:30:00	5085.58	10.80%
0	11:35:00	5051.1	10.73%
0	11:40:00	5016.75	10.65%
0	11:45:00	4982.55	10.58%
0	11:50:00	4948.2	10.51%
0	11:55:00	4914.27	10.43%
0	12:00:00	4879.96	10.36%
0	12:05:00	4846.3	10.29%
0	12:10:00	4812.03	10.22%
0	12:15:00	4778.63	10.15%
0	12:20:00	4744.42	10.07%
0	12:25:00	4711.25	10.00%
0	12:30:00	4677.13	9.93%
0	12:35:00	4644.18	9.86%
0	12:40:00	4610.16	9.79%
0	12:45:00	4577.41	9.72%
0	12:50:00	4543.52	9.65%
0	12:55:00	4510.94	9.58%
0	13:00:00	4477.2	9.51%
0	13:05:00	4444.78	9.44%
0	13:10:00	4411.2	9.37%
0	13:15:00	4378.92	9.30%
0	13:20:00	4345.54	9.23%
0	13:25:00	4313.37	9.16%
0	13:30:00	4280.2	9.09%
0	13:35:00	4248.13	9.02%
0	13:40:00	4215.19	8.95%
0	13:45:00	4183.21	8.88%
0	13:50:00	4150.51	8.81%
0	13:55:00	4118.6	8.75%
0	14:00:00	4086.16	8.68%
0	14:05:00	4054.32	8.61%
0	14:10:00	4022.15	8.54%
0	14:15:00	3990.36	8.47%
0	14:20:00	3958.46	8.41%
0	14:25:00	3926.73	8.34%

0	9:30:00	5876.63	40.98%
0	9:35:00	5839.97	40.72%
0	9:40:00	5804.92	40.48%
0	9:45:00	5768.27	40.22%
0	9:50:00	5733.46	39.98%
0	9:55:00	5696.86	39.73%
0	10:00:00	5662.24	39.49%
0	10:05:00	5625.72	39.23%
0	10:10:00	5591.28	38.99%
0	10:15:00	5554.87	38.74%
0	10:20:00	5520.56	38.50%
0	10:25:00	5484.29	38.24%
0	10:30:00	5450.09	38.01%
0	10:35:00	5414	37.75%
0	10:40:00	5379.88	37.52%
0	10:45:00	5343.99	37.27%
0	10:50:00	5309.92	37.03%
0	10:55:00	5274.26	36.78%
0	11:00:00	5240.23	36.54%
0	11:05:00	5204.8	36.30%
0	11:10:00	5170.8	36.06%
0	11:15:00	5135.63	35.81%
0	11:20:00	5101.64	35.58%
0	11:25:00	5066.74	35.33%
0	11:30:00	5032.75	35.10%
0	11:35:00	4998.13	34.85%
0	11:40:00	4964.13	34.62%
0	11:45:00	4929.8	34.38%
0	11:50:00	4895.81	34.14%
0	11:55:00	4861.77	33.90%
0	12:00:00	4827.8	33.67%
0	12:05:00	4794.04	33.43%
0	12:10:00	4760.1	33.19%
0	12:15:00	4726.62	32.96%
0	12:20:00	4692.71	32.72%
0	12:25:00	4659.5	32.49%
0	12:30:00	4625.64	32.26%
0	12:35:00	4592.69	32.03%
0	12:40:00	4558.9	31.79%
0	12:45:00	4526.17	31.56%
0	12:50:00	4492.48	31.33%
0	12:55:00	4459.97	31.10%
0	13:00:00	4426.38	30.87%
0	13:05:00	4394.07	30.64%
0	13:10:00	4360.61	30.41%
0	13:15:00	4328.47	30.18%
0	13:20:00	4295.18	29.95%
0	13:25:00	4263.19	29.73%
0	13:30:00	4230.07	29.50%
0	13:35:00	4198.21	29.28%
0	13:40:00	4165.3	29.05%
0	13:45:00	4133.55	28.83%
0	13:50:00	4100.86	28.60%
0	13:55:00	4069.2	28.38%
0	14:00:00	4036.75	28.15%
0	14:05:00	4005.18	27.93%
0	14:10:00	3972.98	27.71%
0	14:15:00	3941.47	27.49%
0	14:20:00	3909.55	27.26%
0	14:25:00	3878.1	27.04%

0	9:30:00	4857.19	61.45%
0	9:35:00	4813.82	60.90%
0	9:40:00	4788.95	60.58%
0	9:45:00	4746.87	60.05%
0	9:50:00	4720.9	59.72%
0	9:55:00	4680.33	59.21%
0	10:00:00	4653.07	58.87%
0	10:05:00	4614.18	58.37%
0	10:10:00	4585.48	58.01%
0	10:15:00	4548.39	57.54%
0	10:20:00	4518.17	57.16%
0	10:25:00	4482.93	56.71%
0	10:30:00	4451.15	56.31%
0	10:35:00	4417.78	55.89%
0	10:40:00	4384.48	55.47%
0	10:45:00	4352.92	55.07%
0	10:50:00	4318.16	54.63%
0	10:55:00	4288.31	54.25%
0	11:00:00	4252.24	53.79%
0	11:05:00	4223.94	53.44%
0	11:10:00	4186.73	52.97%
0	11:15:00	4159.78	52.62%
0	11:20:00	4121.66	52.14%
0	11:25:00	4095.82	51.82%
0	11:30:00	4057.04	51.32%
0	11:35:00	4032.04	51.01%
0	11:40:00	3992.9	50.51%
0	11:45:00	3968.45	50.20%
0	11:50:00	3929.23	49.71%
0	11:55:00	3905.03	49.40%
0	12:00:00	3866.05	48.91%
0	12:05:00	3841.79	48.60%
0	12:10:00	3803.35	48.12%
0	12:15:00	3778.74	47.80%
0	12:20:00	3741.13	47.33%
0	12:25:00	3715.89	47.01%
0	12:30:00	3679.4	46.55%
0	12:35:00	3653.23	46.22%
0	12:40:00	3618.15	45.77%
0	12:45:00	3590.77	45.43%
0	12:50:00	3557.39	45.00%
0	12:55:00	3528.55	44.64%
0	13:00:00	3497.06	44.24%
0	13:05:00	3466.6	43.86%
0	13:10:00	3437.13	43.48%
0	13:15:00	3405.01	43.08%
0	13:20:00	3377.52	42.73%
0	13:25:00	3343.86	42.30%
0	13:30:00	3318.14	41.98%
0	13:35:00	3283.25	41.54%
0	13:40:00	3258.91	41.23%
0	13:45:00	3223.27	40.78%
0	13:50:00	3199.74	40.48%
0	13:55:00	3164.04	40.03%
0	14:00:00	3140.58	39.73%
0	14:05:00	3105.6	39.29%
0	14:10:00	3081.43	38.98%
0	14:15:00	3047.94	38.56%
0	14:20:00	3022.31	38.23%
0	14:25:00	2991.02	37.84%

0	14:30:00	3895.1	8.27%
0	14:35:00	3863.43	8.20%
0	14:40:00	3832.07	8.14%
0	14:45:00	3800.47	8.07%
0	14:50:00	3769.38	8.00%
0	14:55:00	3737.87	7.94%
0	15:00:00	3707.01	7.87%
0	15:05:00	3675.6	7.80%
0	15:10:00	3644.99	7.74%
0	15:15:00	3613.69	7.67%
0	15:20:00	3583.3	7.61%
0	15:25:00	3552.13	7.54%
0	15:30:00	3521.94	7.48%
0	15:35:00	3490.94	7.41%
0	15:40:00	3460.93	7.35%
0	15:45:00	3430.13	7.28%
0	15:50:00	3400.25	7.22%
0	15:55:00	3369.68	7.16%
0	16:00:00	3339.91	7.09%
0	16:05:00	3309.62	7.03%
0	16:10:00	3279.92	6.96%
0	16:15:00	3249.94	6.90%
0	16:20:00	3220.29	6.84%
0	16:25:00	3190.65	6.77%
0	16:30:00	3161.05	6.71%
0	16:35:00	3131.75	6.65%
0	16:40:00	3102.21	6.59%
0	16:45:00	3073.24	6.53%
0	16:50:00	3043.79	6.46%
0	16:55:00	3015.12	6.40%
0	17:00:00	2985.81	6.34%
0	17:05:00	2957.38	6.28%
0	17:10:00	2928.28	6.22%
0	17:15:00	2900.04	6.16%
0	17:20:00	2871.21	6.10%
0	17:25:00	2843.1	6.04%
0	17:30:00	2814.63	5.98%
0	17:35:00	2786.63	5.92%
0	17:40:00	2758.61	5.86%
0	17:45:00	2730.69	5.80%
0	17:50:00	2703.11	5.74%
0	17:55:00	2675.28	5.68%
0	18:00:00	2648.1	5.62%
0	18:05:00	2620.39	5.56%
0	18:10:00	2593.52	5.51%
0	18:15:00	2566.02	5.45%
0	18:20:00	2539.34	5.39%
0	18:25:00	2512.14	5.33%
0	18:30:00	2485.53	5.28%
0	18:35:00	2458.69	5.22%
0	18:40:00	2432.08	5.16%
0	18:45:00	2405.63	5.11%
0	18:50:00	2378.97	5.05%
0	18:55:00	2352.84	5.00%
0	19:00:00	2326.17	4.94%
0	19:05:00	2300.24	4.88%
0	19:10:00	2273.68	4.83%
0	19:15:00	2247.83	4.77%
0	19:20:00	2221.51	4.72%
0	19:25:00	2195.61	4.66%

0	14:30:00	3846.45	26.82%
0	14:35:00	3815.06	26.60%
0	14:40:00	3783.68	26.39%
0	14:45:00	3752.37	26.17%
0	14:50:00	3721.26	25.95%
0	14:55:00	3690	25.73%
0	15:00:00	3659.17	25.52%
0	15:05:00	3627.98	25.30%
0	15:10:00	3597.43	25.09%
0	15:15:00	3566.32	24.87%
0	15:20:00	3536.03	24.66%
0	15:25:00	3505.02	24.44%
0	15:30:00	3474.96	24.23%
0	15:35:00	3444.08	24.02%
0	15:40:00	3414.24	23.81%
0	15:45:00	3383.52	23.59%
0	15:50:00	3353.85	23.39%
0	15:55:00	3323.35	23.18%
0	16:00:00	3293.8	22.97%
0	16:05:00	3263.56	22.76%
0	16:10:00	3234.1	22.55%
0	16:15:00	3204.17	22.34%
0	16:20:00	3174.77	22.14%
0	16:25:00	3145.19	21.93%
0	16:30:00	3115.83	21.73%
0	16:35:00	3086.61	21.52%
0	16:40:00	3057.28	21.32%
0	16:45:00	3028.43	21.12%
0	16:50:00	2999.16	20.91%
0	16:55:00	2970.64	20.72%
0	17:00:00	2941.48	20.51%
0	17:05:00	2913.25	20.32%
0	17:10:00	2884.27	20.11%
0	17:15:00	2856.25	19.92%
0	17:20:00	2827.54	19.72%
0	17:25:00	2799.68	19.52%
0	17:30:00	2771.38	19.33%
0	17:35:00	2743.63	19.13%
0	17:40:00	2715.77	18.94%
0	17:45:00	2688.08	18.75%
0	17:50:00	2660.68	18.55%
0	17:55:00	2633.03	18.36%
0	18:00:00	2606.05	18.17%
0	18:05:00	2578.5	17.98%
0	18:10:00	2551.82	17.79%
0	18:15:00	2524.46	17.60%
0	18:20:00	2497.97	17.42%
0	18:25:00	2470.89	17.23%
0	18:30:00	2444.45	17.05%
0	18:35:00	2417.75	16.86%
0	18:40:00	2391.26	16.68%
0	18:45:00	2364.93	16.49%
0	18:50:00	2338.34	16.31%
0	18:55:00	2312.34	16.12%
0	19:00:00	2285.73	15.94%
0	19:05:00	2259.94	15.76%
0	19:10:00	2233.44	15.57%
0	19:15:00	2207.71	15.40%
0	19:20:00	2181.48	15.21%
0	19:25:00	2155.66	15.03%

0	14:30:00	2963.37	37.49%
0	14:35:00	2934.67	37.13%
0	14:40:00	2904.77	36.75%
0	14:45:00	2878.72	36.42%
0	14:50:00	2846.77	36.01%
0	14:55:00	2822.94	35.71%
0	15:00:00	2789.66	35.29%
0	15:05:00	2767.18	35.01%
0	15:10:00	2733.68	34.58%
0	15:15:00	2711.32	34.30%
0	15:20:00	2678.87	33.89%
0	15:25:00	2655.32	33.59%
0	15:30:00	2625.12	33.21%
0	15:35:00	2599.34	32.88%
0	15:40:00	2572.15	32.54%
0	15:45:00	2543.69	32.18%
0	15:50:00	2519.54	31.87%
0	15:55:00	2488.77	31.49%
0	16:00:00	2466.83	31.21%
0	16:05:00	2434.92	30.80%
0	16:10:00	2413.66	30.53%
0	16:15:00	2382.32	30.14%
0	16:20:00	2359.9	29.85%
0	16:25:00	2330.8	29.49%
0	16:30:00	2305.74	29.17%
0	16:35:00	2279.93	28.84%
0	16:40:00	2251.72	28.49%
0	16:45:00	2229.1	28.20%
0	16:50:00	2198.52	27.81%
0	16:55:00	2177.66	27.55%
0	17:00:00	2146.63	27.16%
0	17:05:00	2125.3	26.89%
0	17:10:00	2096.14	26.52%
0	17:15:00	2072.23	26.22%
0	17:20:00	2046.58	25.89%
0	17:25:00	2019.15	25.54%
0	17:30:00	1997.05	25.26%
0	17:35:00	1967.01	24.88%
0	17:40:00	1946.7	24.63%
0	17:45:00	1916.49	24.25%
0	17:50:00	1895.15	23.98%
0	17:55:00	1867.55	23.63%
0	18:00:00	1842.87	23.31%
0	18:05:00	1819.35	23.02%
0	18:10:00	1790.99	22.66%
0	18:15:00	1770.63	22.40%
0	18:20:00	1740.69	22.02%
0	18:25:00	1720.51	21.77%
0	18:30:00	1692.38	21.41%
0	18:35:00	1669.17	21.12%
0	18:40:00	1645.26	20.81%
0	18:45:00	1617.91	20.47%
0	18:50:00	1597.76	20.21%
0	18:55:00	1568.31	19.84%
0	19:00:00	1548.62	19.59%
0	19:05:00	1521.01	19.24%
0	19:10:00	1498.02	18.95%
0	19:15:00	1475.01	18.66%
0	19:20:00	1447.62	18.31%
0	19:25:00	1428.31	18.07%

0	19:30:00	2169.64	4.61%
0	19:35:00	2143.63	4.55%
0	19:40:00	2118	4.50%
0	19:45:00	2091.93	4.44%
0	19:50:00	2066.57	4.39%
0	19:55:00	2040.57	4.33%
0	20:00:00	2015.3	4.28%
0	20:05:00	1989.56	4.22%
0	20:10:00	1964.21	4.17%
0	20:15:00	1938.84	4.12%
0	20:20:00	1913.37	4.06%
0	20:25:00	1888.36	4.01%
0	20:30:00	1862.84	3.96%
0	20:35:00	1838.05	3.90%
0	20:40:00	1812.67	3.85%
0	20:45:00	1787.89	3.80%
0	20:50:00	1762.86	3.74%
0	20:55:00	1737.94	3.69%
0	21:00:00	1713.32	3.64%
0	21:05:00	1688.28	3.58%
0	21:10:00	1663.95	3.53%
0	21:15:00	1639.01	3.48%
0	21:20:00	1614.72	3.43%
0	21:25:00	1590.11	3.38%
0	21:30:00	1565.67	3.32%
0	21:35:00	1541.5	3.27%
0	21:40:00	1516.93	3.22%
0	21:45:00	1493.06	3.17%
0	21:50:00	1468.6	3.12%
0	21:55:00	1444.74	3.07%
0	22:00:00	1420.67	3.02%
0	22:05:00	1396.63	2.97%
0	22:10:00	1373	2.92%
0	22:15:00	1348.86	2.86%
0	22:20:00	1325.47	2.81%
0	22:25:00	1301.55	2.76%
0	22:30:00	1278.05	2.71%
0	22:35:00	1254.61	2.66%
0	22:40:00	1230.91	2.61%
0	22:45:00	1207.86	2.56%
0	22:50:00	1184.21	2.51%
0	22:55:00	1161.2	2.47%
0	23:00:00	1137.96	2.42%
0	23:05:00	1114.72	2.37%
0	23:10:00	1091.97	2.32%
0	23:15:00	1068.66	2.27%
0	23:20:00	1046.08	2.22%
0	23:25:00	1023.11	2.17%
0	23:30:00	1000.31	2.12%
0	23:35:00	977.88	2.08%
0	23:40:00	954.94	2.03%
0	23:45:00	932.75	1.98%
0	23:50:00	910.11	1.93%
0	23:55:00	887.72	1.88%
0	0:00:00	865.65	1.84%
1	0:05:00	843.08	1.79%
1	0:10:00	821.28	1.74%
1	0:15:00	799.02	1.70%
1	0:20:00	777	1.65%
1	0:25:00	755.35	1.60%

0	19:30:00	2129.82	14.85%
0	19:35:00	2103.86	14.67%
0	19:40:00	2078.39	14.49%
0	19:45:00	2052.37	14.31%
0	19:50:00	2027.14	14.14%
0	19:55:00	2001.22	13.96%
0	20:00:00	1976.04	13.78%
0	20:05:00	1950.43	13.60%
0	20:10:00	1925.13	13.42%
0	20:15:00	1899.93	13.25%
0	20:20:00	1874.48	13.07%
0	20:25:00	1849.64	12.90%
0	20:30:00	1824.17	12.72%
0	20:35:00	1799.5	12.55%
0	20:40:00	1774.24	12.37%
0	20:45:00	1749.51	12.20%
0	20:50:00	1724.65	12.03%
0	20:55:00	1699.74	11.85%
0	21:00:00	1675.3	11.68%
0	21:05:00	1650.31	11.51%
0	21:10:00	1626.11	11.34%
0	21:15:00	1601.28	11.17%
0	21:20:00	1577.03	11.00%
0	21:25:00	1552.62	10.83%
0	21:30:00	1528.17	10.66%
0	21:35:00	1504.21	10.49%
0	21:40:00	1479.67	10.32%
0	21:45:00	1455.93	10.15%
0	21:50:00	1431.6	9.98%
0	21:55:00	1407.77	9.82%
0	22:00:00	1383.91	9.65%
0	22:05:00	1359.86	9.48%
0	22:10:00	1336.43	9.32%
0	22:15:00	1312.36	9.15%
0	22:20:00	1289.04	8.99%
0	22:25:00	1265.32	8.82%
0	22:30:00	1241.8	8.66%
0	22:35:00	1218.6	8.50%
0	22:40:00	1194.9	8.33%
0	22:45:00	1172	8.17%
0	22:50:00	1148.5	8.01%
0	22:55:00	1125.48	7.85%
0	23:00:00	1102.51	7.69%
0	23:05:00	1079.24	7.53%
0	23:10:00	1056.69	7.37%
0	23:15:00	1033.49	7.21%
0	23:20:00	1010.92	7.05%
0	23:25:00	988.23	6.89%
0	23:30:00	965.37	6.73%
0	23:35:00	943.18	6.58%
0	23:40:00	920.32	6.42%
0	23:45:00	898.17	6.26%
0	23:50:00	875.81	6.11%
0	23:55:00	853.35	5.95%
0	0:00:00	831.53	5.80%
1	0:05:00	809.06	5.64%
1	0:10:00	787.27	5.49%
1	0:15:00	765.33	5.34%
1	0:20:00	743.23	5.18%
1	0:25:00	721.84	5.03%

0	19:30:00	1399.34	17.70%
0	19:35:00	1379.57	17.45%
0	19:40:00	1353.57	17.12%
0	19:45:00	1329.5	16.82%
0	19:50:00	1308.6	16.55%
0	19:55:00	1280.46	16.20%
0	20:00:00	1261.99	15.97%
0	20:05:00	1234.3	15.61%
0	20:10:00	1213.08	15.35%
0	20:15:00	1190.27	15.06%
0	20:20:00	1163.91	14.72%
0	20:25:00	1145.5	14.49%
0	20:30:00	1117.36	14.14%
0	20:35:00	1098.02	13.89%
0	20:40:00	1073.85	13.59%
0	20:45:00	1049.21	13.27%
0	20:50:00	1030.51	13.04%
0	20:55:00	1002.58	12.68%
0	21:00:00	984.34	12.45%
0	21:05:00	959.58	12.14%
0	21:10:00	936.11	11.84%
0	21:15:00	917.37	11.61%
0	21:20:00	889.81	11.26%
0	21:25:00	872.19	11.03%
0	21:30:00	847.56	10.72%
0	21:35:00	824.54	10.43%
0	21:40:00	806.29	10.20%
0	21:45:00	779	9.85%
0	21:50:00	761.66	9.64%
0	21:55:00	737.88	9.33%
0	22:00:00	714.55	9.04%
0	22:05:00	697.32	8.82%
0	22:10:00	670.34	8.48%
0	22:15:00	652.75	8.26%
0	22:20:00	630.72	7.98%
0	22:25:00	606.37	7.67%
0	22:30:00	590.43	7.47%
0	22:35:00	564.33	7.14%
0	22:40:00	545.6	6.90%
0	22:45:00	526.35	6.66%
0	22:50:00	500.78	6.34%
0	22:55:00	485.57	6.14%
0	23:00:00	461.66	5.84%
0	23:05:00	440.49	5.57%
0	23:10:00	424.4	5.37%
0	23:15:00	398.4	5.04%
0	23:20:00	382.01	4.83%
0	23:25:00	362.65	4.59%
0	23:30:00	341.29	4.32%
0	23:35:00	322.39	4.08%
0	23:40:00	305.55	3.87%
0	23:45:00	290.45	3.67%
0	23:50:00	276.83	3.50%
0	23:55:00	264.5	3.35%
0	0:00:00	253.27	3.20%
1	0:05:00	243	3.07%
1	0:10:00	233.59	2.96%
1	0:15:00	224.92	2.85%
1	0:20:00	216.92	2.74%
1	0:25:00	209.52	2.65%

1	0:30:00	733.16	1.56%
1	0:35:00	711.74	1.51%
1	0:40:00	689.94	1.46%
1	0:45:00	668.26	1.42%
1	0:50:00	647.08	1.37%
1	0:55:00	625.31	1.33%
1	1:00:00	604.27	1.28%
1	1:05:00	583.06	1.24%
1	1:10:00	561.76	1.19%
1	1:15:00	541.15	1.15%
1	1:20:00	519.95	1.10%
1	1:25:00	499.29	1.06%
1	1:30:00	478.77	1.02%
1	1:35:00	457.84	0.97%
1	1:40:00	437.71	0.93%

1	0:30:00	699.77	4.88%
1	0:35:00	678.34	4.73%
1	0:40:00	656.9	4.58%
1	0:45:00	635.14	4.43%
1	0:50:00	614.19	4.28%
1	0:55:00	592.65	4.13%
1	1:00:00	571.58	3.99%
1	1:05:00	550.78	3.84%
1	1:10:00	529.47	3.69%
1	1:15:00	509.02	3.55%
1	1:20:00	488.15	3.40%
1	1:25:00	467.37	3.26%
1	1:30:00	447.22	3.12%
1	1:35:00	426.38	2.97%
1	1:40:00	406.23	2.83%

1	0:30:00	202.64	2.56%
1	0:35:00	196.24	2.48%
1	0:40:00	190.27	2.41%
1	0:45:00	184.68	2.34%
1	0:50:00	179.42	2.27%
1	0:55:00	174.45	2.21%
1	1:00:00	169.74	2.15%
1	1:05:00	165.27	2.09%
1	1:10:00	161.03	2.04%
1	1:15:00	156.99	1.99%
1	1:20:00	153.14	1.94%
1	1:25:00	149.47	1.89%
1	1:30:00	145.96	1.85%
1	1:35:00	142.61	1.80%
1	1:40:00	139.4	1.76%

100-Year; 99%; 120 Hours

Table - Node South_Detention POND 4B (LOWER PORTION)

Max Volume(CF)= 38807.82

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	
0	0:05:00	0	0.00%
0	0:10:00	4.79	0.01%
0	0:15:00	74.74	0.19%
0	0:20:00	432.12	1.11%
0	0:25:00	1480.23	3.81%
0	0:30:00	3526.05	9.09%
0	0:35:00	6853.61	17.66%
0	0:40:00	12695.02	32.71%
0	0:45:00	23859.58	61.48%
0	0:50:00	34888.29	89.90%
0	0:55:00	38236.86	98.53%
0	1:00:00	38807.82	100.00%
0	1:05:00	38682.76	99.68%
0	1:10:00	38363.94	98.86%
0	1:15:00	37910.91	97.69%
0	1:20:00	37303.68	96.12%
0	1:25:00	36555.27	94.20%
0	1:30:00	35681.68	91.94%
0	1:35:00	34707.91	89.44%
0	1:40:00	33667.77	86.76%
0	1:45:00	32656.56	84.15%
0	1:50:00	31663.59	81.59%
0	1:55:00	30953.51	79.76%
0	2:00:00	30512.16	78.62%
0	2:05:00	30223.6	77.88%
0	2:10:00	29994.71	77.29%
0	2:15:00	29635.76	76.37%
0	2:20:00	29383.27	75.71%
0	2:25:00	29157.96	75.13%
0	2:30:00	28995.3	74.72%
0	2:35:00	28854.68	74.35%
0	2:40:00	28745.13	74.07%
0	2:45:00	28650.62	73.83%
0	2:50:00	28570.12	73.62%
0	2:55:00	28500.88	73.44%
0	3:00:00	28435.51	73.27%
0	3:05:00	28378.74	73.13%
0	3:10:00	28316.74	72.97%
0	3:15:00	28261.25	72.82%
0	3:20:00	28196.71	72.66%
0	3:25:00	28140.53	72.51%
0	3:30:00	28074.29	72.34%
0	3:35:00	28017.68	72.20%
0	3:40:00	27950.35	72.02%
0	3:45:00	27893.37	71.88%
0	3:50:00	27825.43	71.70%
0	3:55:00	27768.08	71.55%
0	4:00:00	27699.89	71.38%
0	4:05:00	27642.12	71.23%
0	4:10:00	27573.97	71.05%
0	4:15:00	27515.71	70.90%
0	4:20:00	27447.84	70.73%
0	4:25:00	27389.02	70.58%
0	4:30:00	27321.6	70.40%
0	4:35:00	27262.19	70.25%
0	4:40:00	27195.34	70.08%
0	4:45:00	27135.3	69.92%
0	4:50:00	27069.13	69.75%
0	4:55:00	27008.44	69.60%
0	5:00:00	26943	69.43%
0	5:05:00	26881.67	69.27%
0	5:10:00	26816.99	69.10%
0	5:15:00	26755.05	68.94%
0	5:20:00	26691.12	68.78%
0	5:25:00	26628.61	68.62%
0	5:30:00	26565.41	68.45%
0	5:35:00	26502.38	68.29%
0	5:40:00	26439.87	68.13%
0	5:45:00	26376.4	67.97%
0	5:50:00	26314.53	67.81%
0	5:55:00	26250.7	67.64%
0	6:00:00	26189.38	67.48%
0	6:05:00	26125.28	67.32%

5-Year: 97%; 72 Hours

0

Max Volume(CF)= 33132.6

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	2.55	0.01%
0	0:15:00	26.55	0.08%
0	0:20:00	117.83	0.36%
0	0:25:00	434.99	1.31%
0	0:30:00	1248.74	3.77%
0	0:35:00	2846.3	8.59%
0	0:40:00	5720.14	17.26%
0	0:45:00	11982.42	36.17%
0	0:50:00	21891.1	66.07%
0	0:55:00	29494.28	89.02%
0	1:00:00	32615.14	98.44%
0	1:05:00	33132.6	100.00%
0	1:10:00	32999.87	99.60%
0	1:15:00	32581.46	98.34%
0	1:20:00	31910.03	96.31%
0	1:25:00	31201.47	94.17%
0	1:30:00	30635.66	92.46%
0	1:35:00	30227.58	91.23%
0	1:40:00	29940.45	90.37%
0	1:45:00	29714.06	89.68%
0	1:50:00	29574.32	89.26%
0	1:55:00	29461.78	88.92%
0	2:00:00	29380.67	88.68%
0	2:05:00	29329.92	88.52%
0	2:10:00	29271.36	88.35%
0	2:15:00	29107.85	87.85%
0	2:20:00	28988.13	87.49%
0	2:25:00	28855.82	87.09%
0	2:30:00	28760.87	86.81%
0	2:35:00	28664.24	86.51%
0	2:40:00	28590.67	86.29%
0	2:45:00	28517.48	86.07%
0	2:50:00	28456.71	85.89%
0	2:55:00	28396.73	85.71%
0	3:00:00	28339.51	85.53%
0	3:05:00	28282.13	85.36%
0	3:10:00	28221.53	85.18%
0	3:15:00	28163.56	85.00%
0	3:20:00	28100.37	84.81%
0	3:25:00	28042.24	84.64%
0	3:30:00	27977.2	84.44%
0	3:35:00	27919.09	84.26%
0	3:40:00	27852.74	84.06%
0	3:45:00	27794.7	83.89%
0	3:50:00	27727.47	83.69%
0	3:55:00	27669.44	83.51%
0	4:00:00	27601.68	83.31%
0	4:05:00	27543.6	83.13%
0	4:10:00	27475.6	82.93%
0	4:15:00	27417.36	82.75%
0	4:20:00	27349.38	82.55%
0	4:25:00	27290.88	82.37%
0	4:30:00	27223.11	82.16%
0	4:35:00	27164.27	81.99%
0	4:40:00	27096.88	81.78%
0	4:45:00	27037.61	81.60%
0	4:50:00	26970.73	81.40%
0	4:55:00	26910.98	81.22%
0	5:00:00	26844.71	81.02%
0	5:05:00	26784.43	80.84%
0	5:10:00	26718.84	80.64%
0	5:15:00	26658.02	80.46%
0	5:20:00	26593.14	80.26%
0	5:25:00	26531.79	80.08%
0	5:30:00	26467.64	79.88%
0	5:35:00	26405.76	79.70%
0	5:40:00	26342.33	79.51%
0	5:45:00	26279.98	79.32%
0	5:50:00	26217.24	79.13%
0	5:55:00	26154.45	78.94%
0	6:00:00	26092.36	78.75%
0	6:05:00	26029.21	78.56%

EURV 97% 72 Hours

Max Volume(CF)= 26845.91

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	1.6	0.01%
0	0:15:00	9.32	0.03%
0	0:20:00	43.41	0.16%
0	0:25:00	168.49	0.63%
0	0:30:00	543.34	2.02%
0	0:35:00	1423.16	5.30%
0	0:40:00	3187.88	11.87%
0	0:45:00	7040.9	26.23%
0	0:50:00	13402.08	49.92%
0	0:55:00	18931.54	70.52%
0	1:00:00	22896.71	85.29%
0	1:05:00	23526.46	87.64%
0	1:10:00	24543.91	91.43%
0	1:15:00	25012.68	93.17%
0	1:20:00	25338.42	94.38%
0	1:25:00	25590.72	95.32%
0	1:30:00	25749.6	95.92%
0	1:35:00	25972.76	96.75%
0	1:40:00	26064.83	97.09%
0	1:45:00	26266.44	97.84%
0	1:50:00	26333.62	98.09%
0	1:55:00	26515.48	98.77%
0	2:00:00	26569.77	98.97%
0	2:05:00	26751.88	99.65%
0	2:10:00	26783.63	99.77%
0	2:15:00	26845.91	100.00%
0	2:20:00	26789.04	99.79%
0	2:25:00	26812.23	99.87%
0	2:30:00	26726.83	99.56%
0	2:35:00	26736.2	99.59%
0	2:40:00	26637.99	99.23%
0	2:45:00	26640.33	99.23%
0	2:50:00	26536.38	98.85%
0	2:55:00	26533.68	98.84%
0	3:00:00	26427.98	98.44%
0	3:05:00	26420.57	98.42%
0	3:10:00	26315.73	98.03%
0	3:15:00	26303.32	97.98%
0	3:20:00	26201.16	97.60%
0	3:25:00	26183.32	97.53%
0	3:30:00	26085.17	97.17%
0	3:35:00	26061.45	97.08%
0	3:40:00	25968.27	96.73%
0	3:45:00	25938.34	96.62%
0	3:50:00	25850.77	96.29%
0	3:55:00	25814.42	96.16%
0	4:00:00	25732.83	95.85%
0	4:05:00	25690.05	95.69%
0	4:10:00	25614.57	95.41%
0	4:15:00	25565.47	95.23%
0	4:20:00	25496.03	94.97%
0	4:25:00	25440.89	94.77%
0	4:30:00	25377.23	94.53%
0	4:35:00	25316.48	94.30%
0	4:40:00	25258.2	94.09%
0	4:45:00	25192.36	93.84%
0	4:50:00	25138.94	93.64%
0	4:55:00	25068.63	93.38%
0	5:00:00	25019.44	93.20%
0	5:05:00	24945.37	92.92%
0	5:10:00	24899.72	92.75%
0	5:15:00	24822.61	92.46%
0	5:20:00	24779.79	92.30%
0	5:25:00	24700.4	92.01%
0	5:30:00	24659.73	91.86%
0	5:35:00	24578.79	91.56%
0	5:40:00	24539.57	91.41%
0	5:45:00	24457.78	91.10%
0	5:50:00	24419.32	90.96%
0	5:55:00	24337.38	90.66%
0	6:00:00	24299.04	90.51%
0	6:05:00	24217.56	90.21%

WQCV: 40 Hours Minimum

Max Volume(CF)= 11297.76

Table - Node POND_4B

Elapsed Days	Elapsed Hours	Volume (ft³)	Pct. Of Volume
0	0:05:00	0	
0	0:10:00	0.45	0.00%
0	0:15:00	3.05	0.03%
0	0:20:00	7.97	0.07%
0	0:25:00	15.47	0.14%
0	0:30:00	40.9	0.36%
0	0:35:00	128.05	1.13%
0	0:40:00	411.27	3.64%
0	0:45:00	1295.63	11.47%
0	0:50:00	3086.64	27.32%
0	0:55:00	4920.31	43.55%
0	1:00:00	6399.75	56.65%
0	1:05:00	7473.43	66.15%
0	1:10:00	8257.27	73.09%
0	1:15:00	8869.07	78.50%
0	1:20:00	9335.54	82.63%
0	1:25:00	9693.02	85.80%
0	1:30:00	9973.63	88.28%
0	1:35:00	10199.07	90.28%
0	1:40:00	10386.86	91.94%
0	1:45:00	10545.53	93.34%
0	1:50:00	10681.7	94.55%
0	1:55:00	10801.05	95.60%
0	2:00:00	10907.47	96.55%
0	2:05:00	11003.81	97.40%
0	2:10:00	11089.46	98.16%
0	2:15:00	11158.5	98.77%
0	2:20:00	11211.33	99.23%
0	2:25:00	11249.83	99.58%
0	2:30:00	11275.81	99.81%
0	2:35:00	11291.12	99.94%
0	2:40:00	11297.76	100.00%
0	2:45:00	11297.47	100.00%
0	2:50:00	11291.26	99.94%
0	2:55:00	11280.03	99.84%
0	3:00:00	11264.49	99.71%
0	3:05:00	11245.29	99.54%
0	3:10:00	11222.94	99.34%
0	3:15:00	11197.97	99.12%
0	3:20:00	11170.85	98.88%
0	3:25:00	11141.91	98.62%
0	3:30:00	11111.38	98.35%
0	3:35:00	11079.49	98.07%
0	3:40:00	11046.43	97.78%
0	3:45:00	11012.34	97.47%
0	3:50:00	10977.38	97.16%
0	3:55:00	10941.71	96.85%
0	4:00:00	10905.44	96.53%
0	4:05:00	10868.66	96.20%
0	4:10:00	10831.42	95.87%
0	4:15:00	10793.81	95.54%
0	4:20:00	10755.86	95.20%
0	4:25:00	10717.63	94.87%
0	4:30:00	10679.15	94.52%
0	4:35:00	10640.46	94.18%
0	4:40:00	10601.57	93.84%
0	4:45:00	10562.52	93.49%
0	4:50:00	10523.32	93.15%
0	4:55:00	10483.99	92.80%
0	5:00:00	10444.54	92.45%
0	5:05:00	10404.99	92.10%
0	5:10:00	10365.32	91.75%
0	5:15:00	10325.52	91.39%
0	5:20:00	10285.61	91.04%
0	5:25:00	10245.59	90.69%
0	5:30:00	10205.47	90.33%
0	5:35:00	10165.27	89.98%
0	5:40:00	10125.01	89.62%
0	5:45:00	10084.68	89.26%
0	5:50:00	10044.29	88.91%
0	5:55:00	10003.86	88.55%
0	6:00:00	9963.4	88.19%
0	6:05:00	9922.9	87.83%

0	6:10:00	26064.44	67.16%
0	6:15:00	26000.15	67.00%
0	6:20:00	25939.72	66.84%
0	6:25:00	25875.34	66.68%
0	6:30:00	25815.24	66.52%
0	6:35:00	25750.85	66.35%
0	6:40:00	25690.99	66.20%
0	6:45:00	25626.68	66.03%
0	6:50:00	25566.99	65.88%
0	6:55:00	25502.83	65.72%
0	7:00:00	25443.24	65.56%
0	7:05:00	25379.31	65.40%
0	7:10:00	25319.76	65.24%
0	7:15:00	25256.11	65.08%
0	7:20:00	25196.55	64.93%
0	7:25:00	25133.23	64.76%
0	7:30:00	25073.61	64.61%
0	7:35:00	25010.66	64.45%
0	7:40:00	24950.95	64.29%
0	7:45:00	24888.4	64.13%
0	7:50:00	24828.58	63.98%
0	7:55:00	24766.45	63.82%
0	8:00:00	24706.52	63.66%
0	8:05:00	24644.83	63.50%
0	8:10:00	24584.79	63.35%
0	8:15:00	24523.55	63.19%
0	8:20:00	24463.4	63.04%
0	8:25:00	24402.62	62.88%
0	8:30:00	24342.37	62.73%
0	8:35:00	24282.02	62.57%
0	8:40:00	24221.69	62.41%
0	8:45:00	24161.77	62.26%
0	8:50:00	24101.38	62.10%
0	8:55:00	24041.85	61.95%
0	9:00:00	23981.43	61.80%
0	9:05:00	23922.27	61.64%
0	9:10:00	23861.85	61.49%
0	9:15:00	23803.04	61.34%
0	9:20:00	23742.65	61.18%
0	9:25:00	23684.14	61.03%
0	9:30:00	23623.83	60.87%
0	9:35:00	23565.59	60.72%
0	9:40:00	23505.38	60.57%
0	9:45:00	23447.39	60.42%
0	9:50:00	23387.32	60.26%
0	9:55:00	23329.54	60.12%
0	10:00:00	23269.65	59.96%
0	10:05:00	23212.04	59.81%
0	10:10:00	23152.36	59.66%
0	10:15:00	23094.9	59.51%
0	10:20:00	23035.46	59.36%
0	10:25:00	22978.12	59.21%
0	10:30:00	22918.95	59.06%
0	10:35:00	22861.7	58.91%
0	10:40:00	22802.82	58.76%
0	10:45:00	22745.65	58.61%
0	10:50:00	22687.08	58.46%
0	10:55:00	22629.98	58.31%
0	11:00:00	22571.73	58.16%
0	11:05:00	22514.68	58.02%
0	11:10:00	22456.77	57.87%
0	11:15:00	22399.77	57.72%
0	11:20:00	22342.2	57.57%
0	11:25:00	22285.24	57.42%
0	11:30:00	22228.02	57.28%
0	11:35:00	22171.11	57.13%
0	11:40:00	22114.23	56.98%
0	11:45:00	22057.37	56.84%
0	11:50:00	22000.83	56.69%
0	11:55:00	21944.03	56.55%
0	12:00:00	21887.79	56.40%
0	12:05:00	21831.06	56.25%
0	12:10:00	21775.12	56.11%
0	12:15:00	21718.46	55.96%
0	12:20:00	21662.81	55.82%
0	12:25:00	21606.26	55.68%
0	12:30:00	21550.86	55.53%
0	12:35:00	21494.43	55.39%
0	12:40:00	21439.28	55.24%
0	12:45:00	21383	55.10%

0	6:10:00	25967.71	78.38%
0	6:15:00	25904.26	78.18%
0	6:20:00	25843.28	78.00%
0	6:25:00	25779.62	77.81%
0	6:30:00	25719.1	77.62%
0	6:35:00	25655.29	77.43%
0	6:40:00	25595.16	77.25%
0	6:45:00	25531.29	77.06%
0	6:50:00	25471.46	76.88%
0	6:55:00	25407.62	76.68%
0	7:00:00	25348.02	76.50%
0	7:05:00	25284.28	76.31%
0	7:10:00	25224.84	76.13%
0	7:15:00	25161.26	75.94%
0	7:20:00	25101.92	75.76%
0	7:25:00	25038.56	75.57%
0	7:30:00	24979.27	75.39%
0	7:35:00	24916.19	75.20%
0	7:40:00	24856.89	75.02%
0	7:45:00	24794.13	74.83%
0	7:50:00	24734.8	74.65%
0	7:55:00	24672.41	74.47%
0	8:00:00	24613.03	74.29%
0	8:05:00	24551.04	74.10%
0	8:10:00	24491.59	73.92%
0	8:15:00	24430.02	73.73%
0	8:20:00	24370.48	73.55%
0	8:25:00	24309.35	73.37%
0	8:30:00	24249.73	73.19%
0	8:35:00	24189.03	73.01%
0	8:40:00	24129.32	72.83%
0	8:45:00	24069.06	72.64%
0	8:50:00	24009.27	72.46%
0	8:55:00	23949.44	72.28%
0	9:00:00	23889.58	72.10%
0	9:05:00	23830.16	71.92%
0	9:10:00	23770.26	71.74%
0	9:15:00	23711.23	71.56%
0	9:20:00	23651.32	71.38%
0	9:25:00	23592.64	71.21%
0	9:30:00	23532.75	71.03%
0	9:35:00	23474.41	70.85%
0	9:40:00	23414.56	70.67%
0	9:45:00	23356.52	70.49%
0	9:50:00	23296.75	70.31%
0	9:55:00	23238.99	70.14%
0	10:00:00	23179.34	69.96%
0	10:05:00	23121.81	69.79%
0	10:10:00	23062.31	69.61%
0	10:15:00	23004.99	69.43%
0	10:20:00	22945.67	69.25%
0	10:25:00	22888.53	69.08%
0	10:30:00	22829.42	68.90%
0	10:35:00	22772.43	68.73%
0	10:40:00	22713.57	68.55%
0	10:45:00	22656.7	68.38%
0	10:50:00	22598.11	68.21%
0	10:55:00	22541.34	68.03%
0	11:00:00	22483.04	67.86%
0	11:05:00	22426.35	67.69%
0	11:10:00	22368.37	67.51%
0	11:15:00	22311.75	67.34%
0	11:20:00	22254.09	67.17%
0	11:25:00	22197.53	67.00%
0	11:30:00	22140.21	66.82%
0	11:35:00	22083.7	66.65%
0	11:40:00	22026.72	66.48%
0	11:45:00	21970.27	66.31%
0	11:50:00	21913.61	66.14%
0	11:55:00	21857.2	65.97%
0	12:00:00	21800.87	65.80%
0	12:05:00	21744.5	65.63%
0	12:10:00	21688.5	65.46%
0	12:15:00	21632.19	65.29%
0	12:20:00	21576.49	65.12%
0	12:25:00	21520.25	64.95%
0	12:30:00	21464.86	64.78%
0	12:35:00	21408.7	64.62%
0	12:40:00	21353.59	64.45%
0	12:45:00	21297.55	64.28%

0	6:10:00	24178.74	90.06%
0	6:15:00	24098.33	89.77%
0	6:20:00	24058.48	89.62%
0	6:25:00	23979.65	89.32%
0	6:30:00	23938.31	89.17%
0	6:35:00	23861.49	88.88%
0	6:40:00	23818.26	88.72%
0	6:45:00	23743.82	88.44%
0	6:50:00	23698.39	88.28%
0	6:55:00	23626.6	88.01%
0	7:00:00	23578.75	87.83%
0	7:05:00	23509.8	87.57%
0	7:10:00	23459.38	87.39%
0	7:15:00	23393.38	87.14%
0	7:20:00	23340.34	86.94%
0	7:25:00	23277.31	86.71%
0	7:30:00	23221.66	86.50%
0	7:35:00	23161.55	86.28%
0	7:40:00	23103.38	86.06%
0	7:45:00	23046.07	85.85%
0	7:50:00	22985.56	85.62%
0	7:55:00	22930.85	85.42%
0	8:00:00	22868.21	85.18%
0	8:05:00	22815.85	84.99%
0	8:10:00	22751.36	84.75%
0	8:15:00	22701.07	84.56%
0	8:20:00	22635.05	84.31%
0	8:25:00	22586.5	84.13%
0	8:30:00	22519.28	83.88%
0	8:35:00	22472.11	83.71%
0	8:40:00	22404.08	83.45%
0	8:45:00	22357.92	83.28%
0	8:50:00	22289.44	83.03%
0	8:55:00	22243.92	82.86%
0	9:00:00	22175.37	82.60%
0	9:05:00	22130.11	82.43%
0	9:10:00	22061.86	82.18%
0	9:15:00	22016.53	82.01%
0	9:20:00	21948.91	81.76%
0	9:25:00	21903.14	81.59%
0	9:30:00	21836.47	81.34%
0	9:35:00	21789.98	81.17%
0	9:40:00	21724.54	80.92%
0	9:45:00	21677.05	80.75%
0	9:50:00	21613.08	80.51%
0	9:55:00	21564.39	80.33%
0	10:00:00	21502.1	80.09%
0	10:05:00	21452.01	79.91%
0	10:10:00	21391.55	79.68%
0	10:15:00	21339.96	79.49%
0	10:20:00	21281.42	79.27%
0	10:25:00	21228.26	79.07%
0	10:30:00	21171.68	78.86%
0	10:35:00	21116.95	78.66%
0	10:40:00	21062.3	78.46%
0	10:45:00	21006.05	78.25%
0	10:50:00	20953.27	78.05%
0	10:55:00	20895.61	77.84%
0	11:00:00	20844.54	77.65%
0	11:05:00	20785.64	77.43%
0	11:10:00	20736.12	77.24%
0	11:15:00	20676.17	77.02%
0	11:20:00	20627.97	76.84%
0	11:25:00	20567.24	76.61%
0	11:30:00	20520.08	76.44%
0	11:35:00	20458.85	76.21%
0	11:40:00	20412.45	76.04%
0	11:45:00	20351.03	75.81%
0	11:50:00	20305.07	75.64%
0	11:55:00	20243.77	75.41%
0	12:00:00	20197.95	75.24%
0	12:05:00	20137.08	75.01%
0	12:10:00	20091.1	74.84%
0	12:15:00	20030.96	74.61%
0	12:20:00	19984.5	74.44%
0	12:25:00	19925.42	74.22%
0	12:30:00	19878.2	74.05%
0	12:35:00	19820.47	73.83%
0	12:40:00	19772.18	73.65%
0	12:45:00	19716.11	73.44%

0	6:10:00	9882.38	87.47%
0	6:15:00	9841.84	87.11%
0	6:20:00	9801.29	86.75%
0	6:25:00	9760.73	86.40%
0	6:30:00	9720.17	86.04%
0	6:35:00	9679.61	85.68%
0	6:40:00	9639.06	85.32%
0	6:45:00	9598.52	84.96%
0	6:50:00	9558	84.60%
0	6:55:00	9517.49	84.24%
0	7:00:00	9477.01	83.88%
0	7:05:00	9436.55	83.53%
0	7:10:00	9396.12	83.17%
0	7:15:00	9355.72	82.81%
0	7:20:00	9315.36	82.45%
0	7:25:00	9275.03	82.10%
0	7:30:00	9234.75	81.74%
0	7:35:00	9194.5	81.38%
0	7:40:00	9154.3	81.03%
0	7:45:00	9114.14	80.67%
0	7:50:00	9074.03	80.32%
0	7:55:00	9033.98	79.96%
0	8:00:00	8993.97	79.61%
0	8:05:00	8954.02	79.25%
0	8:10:00	8914.13	78.90%
0	8:15:00	8874.29	78.55%
0	8:20:00	8834.51	78.20%
0	8:25:00	8794.79	77.85%
0	8:30:00	8755.14	77.49%
0	8:35:00	8715.54	77.14%
0	8:40:00	8676.01	76.79%
0	8:45:00	8636.55	76.44%
0	8:50:00	8597.16	76.10%
0	8:55:00	8557.83	75.75%
0	9:00:00	8518.57	75.40%
0	9:05:00	8479.38	75.05%
0	9:10:00	8440.27	74.71%
0	9:15:00	8401.23	74.36%
0	9:20:00	8362.26	74.02%
0	9:25:00	8323.37	73.67%
0	9:30:00	8284.55	73.33%
0	9:35:00	8245.81	72.99%
0	9:40:00	8207.15	72.64%
0	9:45:00	8168.57	72.30%
0	9:50:00	8130.06	71.96%
0	9:55:00	8091.64	71.62%
0	10:00:00	8053.3	71.28%
0	10:05:00	8015.04	70.94%
0	10:10:00	7976.86	70.61%
0	10:15:00	7938.77	70.27%
0	10:20:00	7900.76	69.93%
0	10:25:00	7862.84	69.60%
0	10:30:00	7825	69.26%
0	10:35:00	7787.25	68.93%
0	10:40:00	7749.59	68.59%
0	10:45:00	7712.01	68.26%
0	10:50:00	7674.53	67.93%
0	10:55:00	7637.13	67.60%
0	11:00:00	7599.82	67.27%
0	11:05:00	7562.61	66.94%
0	11:10:00	7525.48	66.61%
0	11:15:00	7488.45	66.28%
0	11:20:00	7451.51	65.96%
0	11:25:00	7414.66	65.63%
0	11:30:00	7377.9	65.30%
0	11:35:00	7341.23	64.98%
0	11:40:00	7304.66	64.66%
0	11:45:00	7268.18	64.33%
0	11:50:00	7231.79	64.01%
0	11:55:00	7195.5	63.69%
0	12:00:00	7159.3	63.37%
0	12:05:00	7123.19	63.05%
0	12:10:00	7087.18	62.73%
0	12:15:00	7051.26	62.41%
0	12:20:00	7015.44	62.10%
0	12:25:00	6979.71	61.78%
0	12:30:00	6944.06	61.46%
0	12:35:00	6908.5	61.15%
0	12:40:00	6873.03	60.84%
0	12:45:00	6837.65	60.52%

0	12:50:00	21328.07	54.96%
0	12:55:00	21271.96	54.81%
0	13:00:00	21217.23	54.67%
0	13:05:00	21161.31	54.53%
0	13:10:00	21106.77	54.39%
0	13:15:00	21051.06	54.24%
0	13:20:00	20996.68	54.10%
0	13:25:00	20941.22	53.96%
0	13:30:00	20886.97	53.82%
0	13:35:00	20831.77	53.68%
0	13:40:00	20777.65	53.54%
0	13:45:00	20722.73	53.40%
0	13:50:00	20668.73	53.26%
0	13:55:00	20614.1	53.12%
0	14:00:00	20560.2	52.98%
0	14:05:00	20505.87	52.84%
0	14:10:00	20452.07	52.70%
0	14:15:00	20398.06	52.56%
0	14:20:00	20344.35	52.42%
0	14:25:00	20290.65	52.28%
0	14:30:00	20237.04	52.15%
0	14:35:00	20183.67	52.01%
0	14:40:00	20130.16	51.87%
0	14:45:00	20077.09	51.73%
0	14:50:00	20023.7	51.60%
0	14:55:00	19970.93	51.46%
0	15:00:00	19917.68	51.32%
0	15:05:00	19865.2	51.19%
0	15:10:00	19812.1	51.05%
0	15:15:00	19759.91	50.92%
0	15:20:00	19706.98	50.78%
0	15:25:00	19655.05	50.65%
0	15:30:00	19602.32	50.51%
0	15:35:00	19550.63	50.38%
0	15:40:00	19498.13	50.24%
0	15:45:00	19446.65	50.11%
0	15:50:00	19394.42	49.98%
0	15:55:00	19343.11	49.84%
0	16:00:00	19291.2	49.71%
0	16:05:00	19240.03	49.58%
0	16:10:00	19188.46	49.44%
0	16:15:00	19137.42	49.31%
0	16:20:00	19086.24	49.18%
0	16:25:00	19035.3	49.05%
0	16:30:00	18984.54	48.92%
0	16:35:00	18933.72	48.79%
0	16:40:00	18883.38	48.66%
0	16:45:00	18832.69	48.53%
0	16:50:00	18782.74	48.40%
0	16:55:00	18732.24	48.27%
0	17:00:00	18682.65	48.14%
0	17:05:00	18632.39	48.01%
0	17:10:00	18583.09	47.88%
0	17:15:00	18533.16	47.76%
0	17:20:00	18484.11	47.63%
0	17:25:00	18434.59	47.50%
0	17:30:00	18385.74	47.38%
0	17:35:00	18336.76	47.25%
0	17:40:00	18288.13	47.12%
0	17:45:00	18239.73	47.00%
0	17:50:00	18191.3	46.88%
0	17:55:00	18143.44	46.75%
0	18:00:00	18095.22	46.63%
0	18:05:00	18047.83	46.51%
0	18:10:00	17999.87	46.38%
0	18:15:00	17952.84	46.26%
0	18:20:00	17905.22	46.14%
0	18:25:00	17858.41	46.02%
0	18:30:00	17811.22	45.90%
0	18:35:00	17764.51	45.78%
0	18:40:00	17717.78	45.66%
0	18:45:00	17671.09	45.53%
0	18:50:00	17624.78	45.42%
0	18:55:00	17578.07	45.30%
0	19:00:00	17532.06	45.18%
0	19:05:00	17485.42	45.06%
0	19:10:00	17439.58	44.94%
0	19:15:00	17393.14	44.82%
0	19:20:00	17347.33	44.70%
0	19:25:00	17301.22	44.58%

0	12:50:00	21242.69	64.11%
0	12:55:00	21186.78	63.95%
0	13:00:00	21132.17	63.78%
0	13:05:00	21076.41	63.61%
0	13:10:00	21022.02	63.45%
0	13:15:00	20966.45	63.28%
0	13:20:00	20912.25	63.12%
0	13:25:00	20856.89	62.95%
0	13:30:00	20802.87	62.79%
0	13:35:00	20747.73	62.62%
0	13:40:00	20693.87	62.46%
0	13:45:00	20638.99	62.29%
0	13:50:00	20585.27	62.13%
0	13:55:00	20530.66	61.97%
0	14:00:00	20477.06	61.80%
0	14:05:00	20422.74	61.64%
0	14:10:00	20369.25	61.48%
0	14:15:00	20315.24	61.31%
0	14:20:00	20261.85	61.15%
0	14:25:00	20208.15	60.99%
0	14:30:00	20154.86	60.83%
0	14:35:00	20101.49	60.67%
0	14:40:00	20048.3	60.51%
0	14:45:00	19995.24	60.35%
0	14:50:00	19942.16	60.19%
0	14:55:00	19889.44	60.03%
0	15:00:00	19836.46	59.87%
0	15:05:00	19784.07	59.71%
0	15:10:00	19731.21	59.55%
0	15:15:00	19679.13	59.40%
0	15:20:00	19626.41	59.24%
0	15:25:00	19574.64	59.08%
0	15:30:00	19522.08	58.92%
0	15:35:00	19470.59	58.77%
0	15:40:00	19418.23	58.61%
0	15:45:00	19366.98	58.45%
0	15:50:00	19314.87	58.30%
0	15:55:00	19263.82	58.14%
0	16:00:00	19212	57.99%
0	16:05:00	19161.12	57.83%
0	16:10:00	19109.64	57.68%
0	16:15:00	19058.89	57.52%
0	16:20:00	19007.82	57.37%
0	16:25:00	18957.18	57.22%
0	16:30:00	18906.55	57.06%
0	16:35:00	18856.01	56.91%
0	16:40:00	18805.82	56.76%
0	16:45:00	18755.39	56.61%
0	16:50:00	18705.63	56.46%
0	16:55:00	18655.36	56.31%
0	17:00:00	18605.99	56.16%
0	17:05:00	18555.94	56.01%
0	17:10:00	18506.91	55.86%
0	17:15:00	18457.17	55.71%
0	17:20:00	18408.42	55.56%
0	17:25:00	18359.14	55.41%
0	17:30:00	18310.65	55.26%
0	17:35:00	18261.93	55.12%
0	17:40:00	18213.63	54.97%
0	17:45:00	18165.49	54.83%
0	17:50:00	18117.35	54.68%
0	17:55:00	18069.77	54.54%
0	18:00:00	18021.79	54.39%
0	18:05:00	17974.69	54.25%
0	18:10:00	17926.94	54.11%
0	18:15:00	17880.18	53.97%
0	18:20:00	17832.76	53.82%
0	18:25:00	17786.19	53.68%
0	18:30:00	17739.18	53.54%
0	18:35:00	17692.66	53.40%
0	18:40:00	17646.11	53.26%
0	18:45:00	17599.54	53.12%
0	18:50:00	17553.37	52.98%
0	18:55:00	17506.75	52.84%
0	19:00:00	17460.89	52.70%
0	19:05:00	17414.33	52.56%
0	19:10:00	17368.63	52.42%
0	19:15:00	17322.3	52.28%
0	19:20:00	17276.6	52.14%
0	19:25:00	17230.63	52.01%

0	12:50:00	19666.47	73.26%
0	12:55:00	19612.31	73.06%
0	13:00:00	19561.11	72.86%
0	13:05:00	19509.04	72.67%
0	13:10:00	19456.17	72.47%
0	13:15:00	19406.23	72.29%
0	13:20:00	19351.73	72.08%
0	13:25:00	19303.81	71.91%
0	13:30:00	19247.88	71.70%
0	13:35:00	19201.68	71.53%
0	13:40:00	19144.75	71.31%
0	13:45:00	19099.75	71.15%
0	13:50:00	19042.45	70.93%
0	13:55:00	18997.99	70.77%
0	14:00:00	18941.07	70.55%
0	14:05:00	18896.35	70.39%
0	14:10:00	18840.65	70.18%
0	14:15:00	18794.85	70.01%
0	14:20:00	18741.15	69.81%
0	14:25:00	18693.59	69.63%
0	14:30:00	18642.48	69.44%
0	14:35:00	18592.72	69.26%
0	14:40:00	18544.46	69.08%
0	14:45:00	18492.5	68.88%
0	14:50:00	18446.9	68.71%
0	14:55:00	18393.21	68.51%
0	15:00:00	18349.62	68.35%
0	15:05:00	18295.21	68.15%
0	15:10:00	18252.53	67.99%
0	15:15:00	18198.65	67.79%
0	15:20:00	18155.52	67.63%
0	15:25:00	18103.48	67.43%
0	15:30:00	18058.63	67.27%
0	15:35:00	18009.48	67.08%
0	15:40:00	17962.09	66.91%
0	15:45:00	17916.26	66.74%
0	15:50:00	17866.26	66.55%
0	15:55:00	17823.33	66.39%
0	16:00:00	17771.52	66.20%
0	16:05:00	17730.23	66.04%
0	16:10:00	17678.14	65.85%
0	16:15:00	17636.65	65.70%
0	16:20:00	17586.09	65.51%
0	16:25:00	17542.57	65.35%
0	16:30:00	17495.01	65.17%
0	16:35:00	17448.37	64.99%
0	16:40:00	17404.35	64.83%
0	16:45:00	17354.71	64.65%
0	16:50:00	17313.4	64.49%
0	16:55:00	17262.22	64.30%
0	17:00:00	17221.67	64.15%
0	17:05:00	17171.25	63.96%
0	17:10:00	17129.06	63.81%
0	17:15:00	17081.59	63.63%
0	17:20:00	17036.06	63.46%
0	17:25:00	16992.49	63.30%
0	17:30:00	16943.6	63.11%
0	17:35:00	16903.01	62.96%
0	17:40:00	16852.56	62.78%
0	17:45:00	16812.44	62.63%
0	17:50:00	16763.33	62.44%
0	17:55:00	16720.81	62.28%
0	18:00:00	16675.43	62.12%
0	18:05:00	16629.01	61.94%
0	18:10:00	16587.7	61.79%
0	18:15:00	16538.32	61.60%
0	18:20:00	16498.93	61.46%
0	18:25:00	16449.66	61.27%
0	18:30:00	16408.71	61.12%
0	18:35:00	16362.84	60.95%
0	18:40:00	16317.85	60.78%
0	18:45:00	16276.54	60.63%
0	18:50:00	16227.98	60.45%
0	18:55:00	16189.13	60.30%
0	19:00:00	16140.39	60.12%
0	19:05:00	16099.96	59.97%
0	19:10:00	16054.91	59.80%
0	19:15:00	16010.06	59.64%
0	19:20:00	15969.84	59.49%
0	19:25:00	15921.5	59.31%

0	12:50:00	6802.37	60.21%
0	12:55:00	6767.2	59.90%
0	13:00:00	6732.14	59.59%
0	13:05:00	6697.19	59.28%
0	13:10:00	6662.36	58.97%
0	13:15:00	6627.64	58.66%
0	13:20:00	6593.03	58.36%
0	13:25:00	6558.53	58.05%
0	13:30:00	6524.16	57.75%
0	13:35:00	6489.9	57.44%
0	13:40:00	6455.76	57.14%
0	13:45:00	6421.73	56.84%
0	13:50:00	6387.83	56.54%
0	13:55:00	6354.05	56.24%
0	14:00:00	6320.39	55.94%
0	14:05:00	6286.85	55.65%
0	14:10:00	6253.44	55.35%
0	14:15:00	6220.15	55.06%
0	14:20:00	6186.99	54.76%
0	14:25:00	6153.95	54.47%
0	14:30:00	6121.05	54.18%
0	14:35:00	6088.28	53.89%
0	14:40:00	6055.63	53.60%
0	14:45:00	6023.13	53.31%
0	14:50:00	5990.76	53.03%
0	14:55:00	5958.52	52.74%
0	15:00:00	5926.43	52.46%
0	15:05:00	5894.48	52.17%
0	15:10:00	5862.67	51.89%
0	15:15:00	5831	51.61%
0	15:20:00	5799.49	51.33%
0	15:25:00	5768.13	51.06%
0	15:30:00	5736.92	50.78%
0	15:35:00	5705.87	50.50%
0	15:40:00	5674.98	50.23%
0	15:45:00	5644.25	49.96%
0	15:50:00	5613.7	49.69%
0	15:55:00	5583.32	49.42%
0	16:00:00	5553.13	49.15%
0	16:05:00	5523.12	48.89%
0	16:10:00	5493.33	48.62%
0	16:15:00	5463.82	48.36%
0	16:20:00	5434.56	48.10%
0	16:25:00	5405.55	47.85%
0	16:30:00	5376.78	47.59%
0	16:35:00	5348.23	47.34%
0	16:40:00	5319.91	47.09%
0	16:45:00	5291.79	46.84%
0	16:50:00	5263.86	46.59%
0	16:55:00	5236.12	46.35%
0	17:00:00	5208.55	46.10%
0	17:05:00	5181.14	45.86%
0	17:10:00	5153.87	45.62%
0	17:15:00	5126.73	45.38%
0	17:20:00	5099.7	45.14%
0	17:25:00	5072.74	44.90%
0	17:30:00	5045.82	44.66%
0	17:35:00	5018.95	44.42%
0	17:40:00	4992.12	44.19%
0	17:45:00	4965.33	43.95%
0	17:50:00	4938.58	43.71%
0	17:55:00	4911.88	43.48%
0	18:00:00	4885.22	43.24%
0	18:05:00	4858.59	43.00%
0	18:10:00	4832.01	42.77%
0	18:15:00	4805.47	42.53%
0	18:20:00	4778.98	42.30%
0	18:25:00	4752.52	42.07%
0	18:30:00	4726.1	41.83%
0	18:35:00	4699.72	41.60%
0	18:40:00	4673.38	41.37%
0	18:45:00	4647.08	41.13%
0	18:50:00	4620.82	40.90%
0	18:55:00	4594.6	40.67%
0	19:00:00	4568.42	40.44%
0	19:05:00	4542.28	40.21%
0	19:10:00	4516.17	39.97%
0	19:15:00	4490.1	39.74%
0	19:20:00	4464.06	39.51%
0	19:25:00	4438.04	39.28%

0	19:30:00	17255.34	44.46%
0	19:35:00	17209.63	44.35%
0	19:40:00	17163.66	44.23%
0	19:45:00	17118.3	44.11%
0	19:50:00	17072.36	43.99%
0	19:55:00	17027.2	43.88%
0	20:00:00	16981.45	43.76%
0	20:05:00	16936.32	43.64%
0	20:10:00	16890.93	43.52%
0	20:15:00	16845.7	43.41%
0	20:20:00	16800.73	43.29%
0	20:25:00	16755.42	43.18%
0	20:30:00	16710.79	43.06%
0	20:35:00	16665.54	42.94%
0	20:40:00	16621.05	42.83%
0	20:45:00	16576.1	42.71%
0	20:50:00	16531.54	42.60%
0	20:55:00	16487.02	42.48%
0	21:00:00	16442.34	42.37%
0	21:05:00	16398.23	42.25%
0	21:10:00	16353.55	42.14%
0	21:15:00	16309.64	42.03%
0	21:20:00	16265.21	41.91%
0	21:25:00	16221.25	41.80%
0	21:30:00	16177.28	41.69%
0	21:35:00	16133.17	41.57%
0	21:40:00	16089.64	41.46%
0	21:45:00	16045.53	41.35%
0	21:50:00	16002.19	41.23%
0	21:55:00	15958.38	41.12%
0	22:00:00	15914.96	41.01%
0	22:05:00	15871.65	40.90%
0	22:10:00	15828.08	40.79%
0	22:15:00	15785.18	40.68%
0	22:20:00	15741.69	40.56%
0	22:25:00	15698.89	40.45%
0	22:30:00	15655.81	40.34%
0	22:35:00	15612.85	40.23%
0	22:40:00	15570.3	40.12%
0	22:45:00	15527.25	40.01%
0	22:50:00	15484.98	39.90%
0	22:55:00	15442.22	39.79%
0	23:00:00	15399.85	39.68%
0	23:05:00	15357.65	39.57%
0	23:10:00	15315.11	39.46%
0	23:15:00	15273.32	39.36%
0	23:20:00	15230.95	39.25%
0	23:25:00	15189.15	39.14%
0	23:30:00	15147.33	39.03%
0	23:35:00	15105.32	38.92%
0	23:40:00	15064.01	38.82%
0	23:45:00	15022.1	38.71%
0	23:50:00	14980.83	38.60%
0	23:55:00	14939.47	38.50%
0	0:00:00	14897.98	38.39%
1	0:05:00	14857.17	38.28%
1	0:10:00	14815.76	38.18%
1	0:15:00	14775.01	38.07%
1	0:20:00	14734.2	37.97%
1	0:25:00	14693.22	37.86%
1	0:30:00	14652.96	37.76%
1	0:35:00	14612.13	37.65%
1	0:40:00	14571.88	37.55%
1	0:45:00	14531.72	37.45%
1	0:50:00	14491.26	37.34%
1	0:55:00	14451.62	37.24%
1	1:00:00	14411.49	37.14%
1	1:05:00	14371.82	37.03%
1	1:10:00	14332.51	36.93%
1	1:15:00	14292.76	36.83%
1	1:20:00	14253.87	36.73%
1	1:25:00	14214.68	36.63%
1	1:30:00	14175.59	36.53%
1	1:35:00	14137.16	36.43%
1	1:40:00	14098.15	36.33%
1	1:45:00	14059.8	36.23%
1	1:50:00	14021.53	36.13%
1	1:55:00	13982.92	36.03%
1	2:00:00	13945.14	35.93%
1	2:05:00	13906.89	35.84%

0	19:30:00	17184.83	51.87%
0	19:35:00	17139.28	51.73%
0	19:40:00	17093.39	51.59%
0	19:45:00	17048.19	51.45%
0	19:50:00	17002.33	51.32%
0	19:55:00	16957.31	51.18%
0	20:00:00	16911.68	51.04%
0	20:05:00	16866.65	50.91%
0	20:10:00	16821.42	50.77%
0	20:15:00	16776.25	50.63%
0	20:20:00	16731.47	50.50%
0	20:25:00	16686.22	50.36%
0	20:30:00	16641.76	50.23%
0	20:35:00	16596.61	50.09%
0	20:40:00	16552.23	49.96%
0	20:45:00	16507.44	49.82%
0	20:50:00	16462.94	49.69%
0	20:55:00	16418.63	49.55%
0	21:00:00	16373.98	49.42%
0	21:05:00	16330.06	49.29%
0	21:10:00	16285.47	49.15%
0	21:15:00	16241.68	49.02%
0	21:20:00	16197.43	48.89%
0	21:25:00	16153.51	48.75%
0	21:30:00	16109.78	48.62%
0	21:35:00	16065.7	48.49%
0	21:40:00	16022.36	48.36%
0	21:45:00	15978.36	48.23%
0	21:50:00	15935.12	48.09%
0	21:55:00	15891.53	47.96%
0	22:00:00	15848.12	47.83%
0	22:05:00	15805.07	47.70%
0	22:10:00	15761.53	47.57%
0	22:15:00	15718.82	47.44%
0	22:20:00	15675.49	47.31%
0	22:25:00	15632.73	47.18%
0	22:30:00	15589.93	47.05%
0	22:35:00	15546.96	46.92%
0	22:40:00	15504.66	46.80%
0	22:45:00	15461.71	46.67%
0	22:50:00	15419.54	46.54%
0	22:55:00	15377.03	46.41%
0	23:00:00	15334.65	46.28%
0	23:05:00	15292.74	46.16%
0	23:10:00	15250.25	46.03%
0	23:15:00	15208.61	45.90%
0	23:20:00	15166.49	45.78%
0	23:25:00	15124.67	45.65%
0	23:30:00	15083.18	45.52%
0	23:35:00	15041.19	45.40%
0	23:40:00	15000.06	45.27%
0	23:45:00	14958.39	45.15%
0	23:50:00	14917.1	45.02%
0	23:55:00	14876.1	44.90%
0	0:00:00	14834.62	44.77%
1	0:05:00	14794	44.65%
1	0:10:00	14752.87	44.53%
1	0:15:00	14712.08	44.40%
1	0:20:00	14671.66	44.28%
1	0:25:00	14630.71	44.16%
1	0:30:00	14590.63	44.04%
1	0:35:00	14550.12	43.91%
1	0:40:00	14509.83	43.79%
1	0:45:00	14470.08	43.67%
1	0:50:00	14429.73	43.55%
1	0:55:00	14390.26	43.43%
1	1:00:00	14350.59	43.31%
1	1:05:00	14310.92	43.19%
1	1:10:00	14272.02	43.08%
1	1:15:00	14232.51	42.96%
1	1:20:00	14193.67	42.84%
1	1:25:00	14154.97	42.72%
1	1:30:00	14115.88	42.60%
1	1:35:00	14077.71	42.49%
1	1:40:00	14039.05	42.37%
1	1:45:00	14000.62	42.26%
1	1:50:00	13962.77	42.14%
1	1:55:00	13924.26	42.03%
1	2:00:00	13885.55	41.91%
1	2:05:00	13844.96	41.79%

0	19:30:00	15883.22	59.16%
0	19:35:00	15835.67	58.99%
0	19:40:00	15794.65	58.83%
0	19:45:00	15751.82	58.67%
0	19:50:00	15705.9	58.50%
0	19:55:00	15667.54	58.36%
0	20:00:00	15619.45	58.18%
0	20:05:00	15580.97	58.04%
0	20:10:00	15536.01	57.87%
0	20:15:00	15492.86	57.71%
0	20:20:00	15453.48	57.56%
0	20:25:00	15406.15	57.39%
0	20:30:00	15368.93	57.25%
0	20:35:00	15322.88	57.08%
0	20:40:00	15281.94	56.92%
0	20:45:00	15241.63	56.77%
0	20:50:00	15195.43	56.60%
0	20:55:00	15158.83	56.47%
0	21:00:00	15112.5	56.29%
0	21:05:00	15073.02	56.15%
0	21:10:00	15032.37	56.00%
0	21:15:00	14987.09	55.83%
0	21:20:00	14950.98	55.69%
0	21:25:00	14904.9	55.52%
0	21:30:00	14866.17	55.38%
0	21:35:00	14825.96	55.23%
0	21:40:00	14781.1	55.06%
0	21:45:00	14745.61	54.93%
0	21:50:00	14700.19	54.76%
0	21:55:00	14661.53	54.61%
0	22:00:00	14622.59	54.47%
0	22:05:00	14577.66	54.30%
0	22:10:00	14542.84	54.17%
0	22:15:00	14498.69	54.01%
0	22:20:00	14459.28	53.86%
0	22:25:00	14422.44	53.72%
0	22:30:00	14377.36	53.56%
0	22:35:00	14342.87	53.43%
0	22:40:00	14301.16	53.27%
0	22:45:00	14260.24	53.12%
0	22:50:00	14225.98	52.99%
0	22:55:00	14181.47	52.83%
0	23:00:00	14146.02	52.69%
0	23:05:00	14107.99	52.55%
0	23:10:00	14065.07	52.39%
0	23:15:00	14032.4	52.27%
0	23:20:00	13990.2	52.11%
0	23:25:00	13951.21	51.97%
0	23:30:00	13914.44	51.83%
0	23:35:00	13875.35	51.69%
0	23:40:00	13834.37	51.53%
0	23:45:00	13791.79	51.37%
0	23:50:00	13747.87	51.21%
0	23:55:00	13702.78	51.04%
0	0:00:00	13656.69	50.87%
1	0:05:00	13609.75	50.70%
1	0:10:00	13562.08	50.52%
1	0:15:00	13513.79	50.34%
1	0:20:00	13464.96	50.16%
1	0:25:00	13415.67	49.97%
1	0:30:00	13365.98	49.79%
1	0:35:00	13315.96	49.60%
1	0:40:00	13265.64	49.41%
1	0:45:00	13215.08	49.23%
1	0:50:00	13164.34	49.04%
1	0:55:00	13113.45	48.85%
1	1:00:00	13062.44	48.66%
1	1:05:00	13011.35	48.47%
1	1:10:00	12960.17	48.28%
1	1:15:00	12908.95	48.09%
1	1:20:00	12857.68	47.89%
1	1:25:00	12806.39	47.70%
1	1:30:00	12755.09	47.51%
1	1:35:00	12703.8	47.32%
1	1:40:00	12652.52	47.13%
1	1:45:00	12601.26	46.94%
1	1:50:00	12550.05	46.75%
1	1:55:00	12498.87	46.56%
1	2:00:00	12447.75	46.37%
1	2:05:00	12396.69	46.18%

0	19:30:00	4412.06	39.05%
0	19:35:00	4386.1	38.82%
0	19:40:00	4360.17	38.59%
0	19:45:00	4334.27	38.36%
0	19:50:00	4308.37	38.13%
0	19:55:00	4282.49	37.91%
0	20:00:00	4256.61	37.68%
0	20:05:00	4230.73	37.45%
0	20:10:00	4204.86	37.22%
0	20:15:00	4178.97	36.99%
0	20:20:00	4152.99	36.76%
0	20:25:00	4126.98	36.53%
0	20:30:00	4101	36.30%
0	20:35:00	4075.07	36.07%
0	20:40:00	4049.22	35.84%
0	20:45:00	4023.44	35.61%
0	20:50:00	3997.72	35.39%
0	20:55:00	3972.07	35.16%
0	21:00:00	3946.48	34.93%
0	21:05:00	3920.97	34.71%
0	21:10:00	3895.52	34.48%
0	21:15:00	3870.15	34.26%
0	21:20:00	3844.84	34.03%
0	21:25:00	3819.6	33.81%
0	21:30:00	3794.42	33.59%
0	21:35:00	3769.32	33.36%
0	21:40:00	3744.29	33.14%
0	21:45:00	3719.33	32.92%
0	21:50:00	3694.43	32.70%
0	21:55:00	3669.61	32.48%
0	22:00:00	3644.85	32.26%
0	22:05:00	3620.17	32.04%
0	22:10:00	3595.55	31.83%
0	22:15:00	3571.01	31.61%
0	22:20:00	3546.53	31.39%
0	22:25:00	3522.13	31.18%
0	22:30:00	3497.8	30.96%
0	22:35:00	3473.54	30.75%
0	22:40:00	3449.35	30.53%
0	22:45:00	3425.23	30.32%
0	22:50:00	3401.18	30.10%
0	22:55:00	3377.21	29.89%
0	23:00:00	3353.3	29.68%
0	23:05:00	3329.47	29.47%
0	23:10:00	3305.71	29.26%
0	23:15:00	3282.03	29.05%
0	23:20:00	3258.41	28.84%
0	23:25:00	3234.87	28.63%
0	23:30:00	3211.4	28.43%
0	23:35:00	3188	28.22%
0	23:40:00	3164.68	28.01%
0	23:45:00	3141.43	27.81%
0	23:50:00	3118.26	27.60%
0	23:55:00	3095.15	27.40%
0	0:00:00	3072.13	27.19%
1	0:05:00	3049.17	26.99%
1	0:10:00	3026.29	26.79%
1	0:15:00	3003.49	26.58%
1	0:20:00	2980.76	26.38%
1	0:25:00	2958.1	26.18%
1	0:30:00	2935.52	25.98%
1	0:35:00	2913.01	25.78%
1	0:40:00	2890.58	25.59%
1	0:45:00	2868.23	25.39%
1	0:50:00	2845.95	25.19%
1	0:55:00	2823.75	24.99%
1	1:00:00	2801.62	24.80%
1	1:05:00	2779.57	24.60%
1	1:10:00	2757.59	24.41%
1	1:15:00	2735.7	24.21%
1	1:20:00	2713.88	24.02%
1	1:25:00	2692.13	23.83%
1	1:30:00	2670.46	23.64%
1	1:35:00	2648.88	23.45%
1	1:40:00	2627.36	23.26%
1	1:45:00	2605.93	23.07%
1	1:50:00	2584.57	22.88%
1	1:55:00	2563.3	22.69%
1	2:00:00	2542.1	22.50%
1	2:05:00	2520.97	22.31%

1	2:10:00	13867.3	35.73%
1	2:15:00	13825.88	35.63%
1	2:20:00	13782.95	35.52%
1	2:25:00	13738.71	35.40%
1	2:30:00	13693.35	35.29%
1	2:35:00	13647.04	35.17%
1	2:40:00	13599.9	35.04%
1	2:45:00	13552.06	34.92%
1	2:50:00	13503.62	34.80%
1	2:55:00	13454.67	34.67%
1	3:00:00	13405.27	34.54%
1	3:05:00	13355.49	34.41%
1	3:10:00	13305.38	34.29%
1	3:15:00	13255	34.16%
1	3:20:00	13204.38	34.03%
1	3:25:00	13153.59	33.89%
1	3:30:00	13102.67	33.76%
1	3:35:00	13051.63	33.63%
1	3:40:00	13000.51	33.50%
1	3:45:00	12949.31	33.37%
1	3:50:00	12898.07	33.24%
1	3:55:00	12846.79	33.10%
1	4:00:00	12795.49	32.97%
1	4:05:00	12744.19	32.84%
1	4:10:00	12692.89	32.71%
1	4:15:00	12641.61	32.57%
1	4:20:00	12590.35	32.44%
1	4:25:00	12539.14	32.31%
1	4:30:00	12487.97	32.18%
1	4:35:00	12436.86	32.05%
1	4:40:00	12385.8	31.92%
1	4:45:00	12334.82	31.78%
1	4:50:00	12283.91	31.65%
1	4:55:00	12233.09	31.52%
1	5:00:00	12182.36	31.39%
1	5:05:00	12131.72	31.26%
1	5:10:00	12081.18	31.13%
1	5:15:00	12030.74	31.00%
1	5:20:00	11980.42	30.87%
1	5:25:00	11930.21	30.74%
1	5:30:00	11880.12	30.61%
1	5:35:00	11830.15	30.48%
1	5:40:00	11780.32	30.36%
1	5:45:00	11730.62	30.23%
1	5:50:00	11681.05	30.10%
1	5:55:00	11631.63	29.97%
1	6:00:00	11582.36	29.85%
1	6:05:00	11533.23	29.72%
1	6:10:00	11484.26	29.59%
1	6:15:00	11435.46	29.47%
1	6:20:00	11386.82	29.34%
1	6:25:00	11338.35	29.22%
1	6:30:00	11290.05	29.09%
1	6:35:00	11241.94	28.97%
1	6:40:00	11194.02	28.84%
1	6:45:00	11146.29	28.72%
1	6:50:00	11098.76	28.60%
1	6:55:00	11051.44	28.48%
1	7:00:00	11004.34	28.36%
1	7:05:00	10957.5	28.24%
1	7:10:00	10910.96	28.12%
1	7:15:00	10864.73	28.00%
1	7:20:00	10818.79	27.88%
1	7:25:00	10773.13	27.76%
1	7:30:00	10727.74	27.64%
1	7:35:00	10682.61	27.53%
1	7:40:00	10637.72	27.41%
1	7:45:00	10593.07	27.30%
1	7:50:00	10548.63	27.18%
1	7:55:00	10504.39	27.07%
1	8:00:00	10460.32	26.95%
1	8:05:00	10416.42	26.84%
1	8:10:00	10372.63	26.73%
1	8:15:00	10328.92	26.62%
1	8:20:00	10285.28	26.50%
1	8:25:00	10241.72	26.39%
1	8:30:00	10198.23	26.28%
1	8:35:00	10154.82	26.17%
1	8:40:00	10111.48	26.06%
1	8:45:00	10068.22	25.94%

1	2:10:00	13802.72	41.66%
1	2:15:00	13759.08	41.53%
1	2:20:00	13714.23	41.39%
1	2:25:00	13668.35	41.25%
1	2:30:00	13621.59	41.11%
1	2:35:00	13574.08	40.97%
1	2:40:00	13525.92	40.82%
1	2:45:00	13477.2	40.68%
1	2:50:00	13428	40.53%
1	2:55:00	13378.4	40.38%
1	3:00:00	13328.44	40.23%
1	3:05:00	13278.18	40.08%
1	3:10:00	13227.67	39.92%
1	3:15:00	13176.96	39.77%
1	3:20:00	13126.1	39.62%
1	3:25:00	13075.12	39.46%
1	3:30:00	13024.03	39.31%
1	3:35:00	12972.87	39.15%
1	3:40:00	12921.65	39.00%
1	3:45:00	12870.39	38.85%
1	3:50:00	12819.1	38.69%
1	3:55:00	12767.8	38.54%
1	4:00:00	12716.5	38.38%
1	4:05:00	12665.21	38.23%
1	4:10:00	12613.95	38.07%
1	4:15:00	12562.71	37.92%
1	4:20:00	12511.52	37.76%
1	4:25:00	12460.38	37.61%
1	4:30:00	12409.3	37.45%
1	4:35:00	12358.29	37.30%
1	4:40:00	12307.35	37.15%
1	4:45:00	12256.49	36.99%
1	4:50:00	12205.71	36.84%
1	4:55:00	12155.03	36.69%
1	5:00:00	12104.44	36.53%
1	5:05:00	12053.96	36.38%
1	5:10:00	12003.58	36.23%
1	5:15:00	11953.32	36.08%
1	5:20:00	11903.18	35.93%
1	5:25:00	11853.16	35.77%
1	5:30:00	11803.26	35.62%
1	5:35:00	11753.5	35.47%
1	5:40:00	11703.87	35.32%
1	5:45:00	11654.38	35.17%
1	5:50:00	11605.04	35.03%
1	5:55:00	11555.85	34.88%
1	6:00:00	11506.81	34.73%
1	6:05:00	11457.93	34.58%
1	6:10:00	11409.21	34.43%
1	6:15:00	11360.66	34.29%
1	6:20:00	11312.29	34.14%
1	6:25:00	11264.09	34.00%
1	6:30:00	11216.08	33.85%
1	6:35:00	11168.26	33.71%
1	6:40:00	11120.63	33.56%
1	6:45:00	11073.22	33.42%
1	6:50:00	11026.02	33.28%
1	6:55:00	10979.05	33.14%
1	7:00:00	10932.37	33.00%
1	7:05:00	10886	32.86%
1	7:10:00	10839.92	32.72%
1	7:15:00	10794.14	32.58%
1	7:20:00	10748.63	32.44%
1	7:25:00	10703.38	32.30%
1	7:30:00	10658.38	32.17%
1	7:35:00	10613.62	32.03%
1	7:40:00	10569.08	31.90%
1	7:45:00	10524.75	31.77%
1	7:50:00	10480.61	31.63%
1	7:55:00	10436.64	31.50%
1	8:00:00	10392.8	31.37%
1	8:05:00	10349.05	31.24%
1	8:10:00	10305.38	31.10%
1	8:15:00	10261.79	30.97%
1	8:20:00	10218.26	30.84%
1	8:25:00	10174.82	30.71%
1	8:30:00	10131.45	30.58%
1	8:35:00	10088.15	30.45%
1	8:40:00	10044.93	30.32%
1	8:45:00	10001.79	30.19%

1	2:10:00	12345.69	45.99%
1	2:15:00	12294.77	45.80%
1	2:20:00	12243.93	45.61%
1	2:25:00	12193.18	45.42%
1	2:30:00	12142.53	45.23%
1	2:35:00	12091.97	45.04%
1	2:40:00	12041.51	44.85%
1	2:45:00	11991.17	44.67%
1	2:50:00	11940.94	44.48%
1	2:55:00	11890.82	44.29%
1	3:00:00	11840.83	44.11%
1	3:05:00	11790.97	43.92%
1	3:10:00	11741.25	43.74%
1	3:15:00	11691.65	43.55%
1	3:20:00	11642.2	43.37%
1	3:25:00	11592.9	43.18%
1	3:30:00	11543.74	43.00%
1	3:35:00	11494.75	42.82%
1	3:40:00	11445.91	42.64%
1	3:45:00	11397.23	42.45%
1	3:50:00	11348.73	42.27%
1	3:55:00	11300.4	42.09%
1	4:00:00	11252.25	41.91%
1	4:05:00	11204.28	41.74%
1	4:10:00	11156.51	41.56%
1	4:15:00	11108.94	41.38%
1	4:20:00	11061.58	41.20%
1	4:25:00	11014.44	41.03%
1	4:30:00	10967.53	40.85%
1	4:35:00	10920.93	40.68%
1	4:40:00	10874.63	40.51%
1	4:45:00	10828.63	40.34%
1	4:50:00	10782.92	40.17%
1	4:55:00	10737.47	40.00%
1	5:00:00	10692.29	39.83%
1	5:05:00	10647.35	39.66%
1	5:10:00	10602.65	39.49%
1	5:15:00	10558.17	39.33%
1	5:20:00	10513.88	39.16%
1	5:25:00	10469.79	39.00%
1	5:30:00	10425.85	38.84%
1	5:35:00	10382.04	38.67%
1	5:40:00	10338.32	38.51%
1	5:45:00	10294.66	38.35%
1	5:50:00	10251.08	38.18%
1	5:55:00	10207.58	38.02%
1	6:00:00	10164.16	37.86%
1	6:05:00	10120.8	37.70%
1	6:10:00	10077.53	37.54%
1	6:15:00	10034.33	37.38%
1	6:20:00	9991.21	37.22%
1	6:25:00	9948.17	37.06%
1	6:30:00	9905.21	36.90%
1	6:35:00	9862.32	36.74%
1	6:40:00	9819.52	36.58%
1	6:45:00	9776.8	36.42%
1	6:50:00	9734.16	36.26%
1	6:55:00	9691.59	36.10%
1	7:00:00	9649.12	35.94%
1	7:05:00	9606.72	35.78%
1	7:10:00	9564.41	35.63%
1	7:15:00	9522.18	35.47%
1	7:20:00	9480.03	35.31%
1	7:25:00	9437.97	35.16%
1	7:30:00	9395.99	35.00%
1	7:35:00	9354.1	34.84%
1	7:40:00	9312.29	34.69%
1	7:45:00	9270.57	34.53%
1	7:50:00	9228.94	34.38%
1	7:55:00	9187.39	34.22%
1	8:00:00	9145.93	34.07%
1	8:05:00	9104.55	33.91%
1	8:10:00	9063.27	33.76%
1	8:15:00	9022.07	33.61%
1	8:20:00	8980.96	33.45%
1	8:25:00	8939.94	33.30%
1	8:30:00	8899.01	33.15%
1	8:35:00	8858.17	33.00%
1	8:40:00	8817.42	32.84%
1	8:45:00	8776.76	32.69%

1	2:10:00	2499.93	22.13%
1	2:15:00	2478.97	21.94%
1	2:20:00	2458.09	21.76%
1	2:25:00	2437.28	21.57%
1	2:30:00	2416.56	21.39%
1	2:35:00	2395.91	21.21%
1	2:40:00	2375.34	21.02%
1	2:45:00	2354.86	20.84%
1	2:50:00	2334.45	20.66%
1	2:55:00	2314.13	20.48%
1	3:00:00	2293.88	20.30%
1	3:05:00	2273.72	20.13%
1	3:10:00	2253.64	19.95%
1	3:15:00	2233.64	19.77%
1	3:20:00	2213.72	19.59%
1	3:25:00	2193.88	19.42%
1	3:30:00	2174.13	19.24%
1	3:35:00	2154.45	19.07%
1	3:40:00	2134.86	18.90%
1	3:45:00	2115.36	18.72%
1	3:50:00	2095.93	18.55%
1	3:55:00	2076.59	18.38%
1	4:00:00	2057.33	18.21%
1	4:05:00	2038.15	18.04%
1	4:10:00	2019.06	17.87%
1	4:15:00	2000.05	17.70%
1	4:20:00	1981.13	17.54%
1	4:25:00	1962.29	17.37%
1	4:30:00	1943.53	17.20%
1	4:35:00	1924.86	17.04%
1	4:40:00	1906.27	16.87%
1	4:45:00	1887.77	16.71%
1	4:50:00	1869.36	16.55%
1	4:55:00	1851.03	16.38%
1	5:00:00	1832.78	16.22%
1	5:05:00	1814.62	16.06%
1	5:10:00	1796.55	15.90%
1	5:15:00	1778.57	15.74%
1	5:20:00	1760.67	15.58%
1	5:25:00	1742.86	15.43%
1	5:30:00	1725.13	15.27%
1	5:35:00	1707.49	15.11%
1	5:40:00	1689.94	14.96%
1	5:45:00	1672.48	14.80%
1	5:50:00	1655.1	14.65%
1	5:55:00	1637.82	14.50%
1	6:00:00	1620.62	14.34%
1	6:05:00	1603.51	14.19%
1	6:10:00	1586.49	14.04%
1	6:15:00	1569.56	13.89%
1	6:20:00	1552.72	13.74%
1	6:25:00	1535.96	13.60%
1	6:30:00	1519.3	13.45%
1	6:35:00	1502.73	13.30%
1	6:40:00	1486.25	13.16%
1	6:45:00	1469.85	13.01%
1	6:50:00	1453.55	12.87%
1	6:55:00	1437.34	12.72%
1	7:00:00	1421.22	12.58%
1	7:05:00	1405.19	12.44%
1	7:10:00	1389.26	12.30%
1	7:15:00	1373.41	12.16%
1	7:20:00	1357.66	12.02%
1	7:25:00	1342	11.88%
1	7:30:00	1326.43	11.74%
1	7:35:00	1310.96	11.60%
1	7:40:00	1295.57	11.47%
1	7:45:00	1280.29	11.33%
1	7:50:00	1265.09	11.20%
1	7:55:00	1249.99	11.06%
1	8:00:00	1234.98	10.93%
1	8:05:00	1220.07	10.80%
1	8:10:00	1205.25	10.67%
1	8:15:00	1190.52	10.54%
1	8:20:00	1175.89	10.41%
1	8:25:00	1161.36	10.28%
1	8:30:00	1146.92	10.15%
1	8:35:00	1132.58	10.02%
1	8:40:00	1118.33	9.90%
1	8:45:00	1104.18	9.77%

1	8:50:00	10025.04	25.83%
1	8:55:00	9981.93	25.72%
1	9:00:00	9938.91	25.61%
1	9:05:00	9895.96	25.50%
1	9:10:00	9853.09	25.39%
1	9:15:00	9810.31	25.28%
1	9:20:00	9767.6	25.17%
1	9:25:00	9724.97	25.06%
1	9:30:00	9682.43	24.95%
1	9:35:00	9639.97	24.84%
1	9:40:00	9597.59	24.73%
1	9:45:00	9555.29	24.62%
1	9:50:00	9513.08	24.51%
1	9:55:00	9470.95	24.40%
1	10:00:00	9428.91	24.30%
1	10:05:00	9386.95	24.19%
1	10:10:00	9345.07	24.08%
1	10:15:00	9303.28	23.97%
1	10:20:00	9261.58	23.87%
1	10:25:00	9219.96	23.76%
1	10:30:00	9178.43	23.65%
1	10:35:00	9136.99	23.54%
1	10:40:00	9095.63	23.44%
1	10:45:00	9054.36	23.33%
1	10:50:00	9013.18	23.23%
1	10:55:00	8972.09	23.12%
1	11:00:00	8931.09	23.01%
1	11:05:00	8890.18	22.91%
1	11:10:00	8849.36	22.80%
1	11:15:00	8808.63	22.70%
1	11:20:00	8767.98	22.59%
1	11:25:00	8727.43	22.49%
1	11:30:00	8686.97	22.38%
1	11:35:00	8646.61	22.28%
1	11:40:00	8606.33	22.18%
1	11:45:00	8566.15	22.07%
1	11:50:00	8526.06	21.97%
1	11:55:00	8486.06	21.87%
1	12:00:00	8446.16	21.76%
1	12:05:00	8406.35	21.66%
1	12:10:00	8366.63	21.56%
1	12:15:00	8327.01	21.46%
1	12:20:00	8287.48	21.36%
1	12:25:00	8248.05	21.25%
1	12:30:00	8208.72	21.15%
1	12:35:00	8169.48	21.05%
1	12:40:00	8130.33	20.95%
1	12:45:00	8091.29	20.85%
1	12:50:00	8052.34	20.75%
1	12:55:00	8013.49	20.65%
1	13:00:00	7974.73	20.55%
1	13:05:00	7936.08	20.45%
1	13:10:00	7897.52	20.35%
1	13:15:00	7859.06	20.25%
1	13:20:00	7820.7	20.15%
1	13:25:00	7782.44	20.05%
1	13:30:00	7744.28	19.96%
1	13:35:00	7706.22	19.86%
1	13:40:00	7668.26	19.76%
1	13:45:00	7630.4	19.66%
1	13:50:00	7592.64	19.56%
1	13:55:00	7554.98	19.47%
1	14:00:00	7517.43	19.37%
1	14:05:00	7479.97	19.27%
1	14:10:00	7442.62	19.18%
1	14:15:00	7405.37	19.08%
1	14:20:00	7368.22	18.99%
1	14:25:00	7331.17	18.89%
1	14:30:00	7294.23	18.80%
1	14:35:00	7257.38	18.70%
1	14:40:00	7220.64	18.61%
1	14:45:00	7184	18.51%
1	14:50:00	7147.46	18.42%
1	14:55:00	7111.02	18.32%
1	15:00:00	7074.69	18.23%
1	15:05:00	7038.45	18.14%
1	15:10:00	7002.31	18.04%
1	15:15:00	6966.28	17.95%
1	15:20:00	6930.33	17.86%
1	15:25:00	6894.48	17.77%

1	8:50:00	9958.73	30.06%
1	8:55:00	9915.75	29.93%
1	9:00:00	9872.84	29.80%
1	9:05:00	9830.02	29.67%
1	9:10:00	9787.28	29.54%
1	9:15:00	9744.61	29.41%
1	9:20:00	9702.03	29.28%
1	9:25:00	9659.53	29.15%
1	9:30:00	9617.12	29.03%
1	9:35:00	9574.78	28.90%
1	9:40:00	9532.53	28.77%
1	9:45:00	9490.36	28.64%
1	9:50:00	9448.28	28.52%
1	9:55:00	9406.28	28.39%
1	10:00:00	9364.37	28.26%
1	10:05:00	9322.54	28.14%
1	10:10:00	9280.79	28.01%
1	10:15:00	9239.14	27.89%
1	10:20:00	9197.57	27.76%
1	10:25:00	9156.08	27.63%
1	10:30:00	9114.69	27.51%
1	10:35:00	9073.38	27.39%
1	10:40:00	9032.16	27.26%
1	10:45:00	8991.03	27.14%
1	10:50:00	8949.98	27.01%
1	10:55:00	8909.03	26.89%
1	11:00:00	8868.17	26.77%
1	11:05:00	8827.39	26.64%
1	11:10:00	8786.71	26.52%
1	11:15:00	8746.12	26.40%
1	11:20:00	8705.62	26.28%
1	11:25:00	8665.21	26.15%
1	11:30:00	8624.89	26.03%
1	11:35:00	8584.66	25.91%
1	11:40:00	8544.53	25.79%
1	11:45:00	8504.49	25.67%
1	11:50:00	8464.54	25.55%
1	11:55:00	8424.69	25.43%
1	12:00:00	8384.93	25.31%
1	12:05:00	8345.27	25.19%
1	12:10:00	8305.7	25.07%
1	12:15:00	8266.22	24.95%
1	12:20:00	8226.84	24.83%
1	12:25:00	8187.56	24.71%
1	12:30:00	8148.37	24.59%
1	12:35:00	8109.28	24.48%
1	12:40:00	8070.28	24.36%
1	12:45:00	8031.39	24.24%
1	12:50:00	7992.59	24.12%
1	12:55:00	7953.89	24.01%
1	13:00:00	7915.28	23.89%
1	13:05:00	7876.78	23.77%
1	13:10:00	7838.37	23.66%
1	13:15:00	7800.07	23.54%
1	13:20:00	7761.86	23.43%
1	13:25:00	7723.75	23.31%
1	13:30:00	7685.75	23.20%
1	13:35:00	7647.84	23.08%
1	13:40:00	7610.04	22.97%
1	13:45:00	7572.33	22.85%
1	13:50:00	7534.73	22.74%
1	13:55:00	7497.23	22.63%
1	14:00:00	7459.83	22.52%
1	14:05:00	7422.53	22.40%
1	14:10:00	7385.34	22.29%
1	14:15:00	7348.24	22.18%
1	14:20:00	7311.25	22.07%
1	14:25:00	7274.36	21.96%
1	14:30:00	7237.57	21.84%
1	14:35:00	7200.88	21.73%
1	14:40:00	7164.29	21.62%
1	14:45:00	7127.81	21.51%
1	14:50:00	7091.43	21.40%
1	14:55:00	7055.15	21.29%
1	15:00:00	7018.96	21.18%
1	15:05:00	6982.88	21.08%
1	15:10:00	6946.9	20.97%
1	15:15:00	6911	20.86%
1	15:20:00	6875.2	20.75%
1	15:25:00	6839.5	20.64%

1	8:50:00	8736.19	32.54%
1	8:55:00	8695.71	32.39%
1	9:00:00	8655.32	32.24%
1	9:05:00	8615.03	32.09%
1	9:10:00	8574.83	31.94%
1	9:15:00	8534.72	31.79%
1	9:20:00	8494.7	31.64%
1	9:25:00	8454.78	31.49%
1	9:30:00	8414.95	31.35%
1	9:35:00	8375.21	31.20%
1	9:40:00	8335.57	31.05%
1	9:45:00	8296.03	30.90%
1	9:50:00	8256.57	30.76%
1	9:55:00	8217.22	30.61%
1	10:00:00	8177.96	30.46%
1	10:05:00	8138.79	30.32%
1	10:10:00	8099.73	30.17%
1	10:15:00	8060.76	30.03%
1	10:20:00	8021.89	29.88%
1	10:25:00	7983.11	29.74%
1	10:30:00	7944.43	29.59%
1	10:35:00	7905.86	29.45%
1	10:40:00	7867.38	29.31%
1	10:45:00	7829	29.16%
1	10:50:00	7790.71	29.02%
1	10:55:00	7752.53	28.88%
1	11:00:00	7714.45	28.74%
1	11:05:00	7676.47	28.59%
1	11:10:00	7638.59	28.45%
1	11:15:00	7600.81	28.31%
1	11:20:00	7563.13	28.17%
1	11:25:00	7525.55	28.03%
1	11:30:00	7488.08	27.89%
1	11:35:00	7450.71	27.75%
1	11:40:00	7413.43	27.61%
1	11:45:00	7376.26	27.48%
1	11:50:00	7339.19	27.34%
1	11:55:00	7302.23	27.20%
1	12:00:00	7265.36	27.06%
1	12:05:00	7228.59	26.93%
1	12:10:00	7191.93	26.79%
1	12:15:00	7155.37	26.65%
1	12:20:00	7118.91	26.52%
1	12:25:00	7082.56	26.38%
1	12:30:00	7046.3	26.25%
1	12:35:00	7010.14	26.11%
1	12:40:00	6974.08	25.98%
1	12:45:00	6938.12	25.84%
1	12:50:00	6902.25	25.71%
1	12:55:00	6866.48	25.58%
1	13:00:00	6830.79	25.44%
1	13:05:00	6795.23	25.31%
1	13:10:00	6759.77	25.18%
1	13:15:00	6724.44	25.05%
1	13:20:00	6689.22	24.92%
1	13:25:00	6654.12	24.79%
1	13:30:00	6619.14	24.66%
1	13:35:00	6584.29	24.53%
1	13:40:00	6549.55	24.40%
1	13:45:00	6514.93	24.27%
1	13:50:00	6480.44	24.14%
1	13:55:00	6446.07	24.01%
1	14:00:00	6411.82	23.88%
1	14:05:00	6377.7	23.76%
1	14:10:00	6343.71	23.63%
1	14:15:00	6309.84	23.50%
1	14:20:00	6276.1	23.38%
1	14:25:00	6242.49	23.25%
1	14:30:00	6209.01	23.13%
1	14:35:00	6175.66	23.00%
1	14:40:00	6142.44	22.88%
1	14:45:00	6109.36	22.76%
1	14:50:00	6076.41	22.63%
1	14:55:00	6043.6	22.51%
1	15:00:00	6010.93	22.39%
1	15:05:00	5978.4	22.27%
1	15:10:00	5946.02	22.15%
1	15:15:00	5913.77	22.03%
1	15:20:00	5881.68	21.91%
1	15:25:00	5849.73	21.79%

1	8:50:00	1090.12	9.65%
1	8:55:00	1076.16	9.53%
1	9:00:00	1062.3	9.40%
1	9:05:00	1048.53	9.28%
1	9:10:00	1034.87	9.16%
1	9:15:00	1021.29	9.04%
1	9:20:00	1007.82	8.92%
1	9:25:00	994.45	8.80%
1	9:30:00	981.17	8.68%
1	9:35:00	967.99	8.57%
1	9:40:00	954.91	8.45%
1	9:45:00	941.93	8.34%
1	9:50:00	929.05	8.22%
1	9:55:00	916.27	8.11%
1	10:00:00	903.58	8.00%
1	10:05:00	891	7.89%
1	10:10:00	878.52	7.78%
1	10:15:00	866.13	7.67%
1	10:20:00	853.85	7.56%
1	10:25:00	841.67	7.45%
1	10:30:00	829.59	7.34%
1	10:35:00	817.61	7.24%
1	10:40:00	805.73	7.13%
1	10:45:00	793.96	7.03%
1	10:50:00	782.28	6.92%
1	10:55:00	770.71	6.82%
1	11:00:00	759.24	6.72%
1	11:05:00	747.87	6.62%
1	11:10:00	736.61	6.52%
1	11:15:00	725.45	6.42%
1	11:20:00	714.39	6.32%
1	11:25:00	703.44	6.23%
1	11:30:00	692.59	6.13%
1	11:35:00	681.84	6.04%
1	11:40:00	671.2	5.94%
1	11:45:00	660.66	5.85%
1	11:50:00	650.23	5.76%
1	11:55:00	639.9	5.66%
1	12:00:00	629.67	5.57%
1	12:05:00	619.56	5.48%
1	12:10:00	609.54	5.40%
1	12:15:00	599.64	5.31%
1	12:20:00	589.84	5.22%
1	12:25:00	580.14	5.14%
1	12:30:00	570.55	5.05%
1	12:35:00	561.07	4.97%
1	12:40:00	551.7	4.88%
1	12:45:00	542.43	4.80%
1	12:50:00	533.27	4.72%
1	12:55:00	524.22	4.64%
1	13:00:00	515.27	4.56%
1	13:05:00	506.44	4.48%
1	13:10:00	497.71	4.41%
1	13:15:00	489.09	4.33%
1	13:20:00	480.57	4.25%
1	13:25:00	472.17	4.18%
1	13:30:00	463.87	4.11%
1	13:35:00	455.69	4.03%
1	13:40:00	447.61	3.96%
1	13:45:00	439.65	3.89%
1	13:50:00	431.79	3.82%
1	13:55:00	424.04	3.75%
1	14:00:00	416.4	3.69%
1	14:05:00	408.88	3.62%
1	14:10:00	401.46	3.55%
1	14:15:00	394.16	3.49%
1	14:20:00	386.96	3.43%
1	14:25:00	379.88	3.36%
1	14:30:00	372.9	3.30%
1	14:35:00	366.04	3.24%
1	14:40:00	359.29	3.18%
1	14:45:00	352.65	3.12%
1	14:50:00	346.13	3.06%
1	14:55:00	339.71	3.01%
1	15:00:00	333.41	2.95%
1	15:05:00	327.24	2.90%
1	15:10:00	321.23	2.84%
1	15:15:00	315.37	2.79%
1	15:20:00	309.67	2.74%
1	15:25:00	304.12	2.69%

1	15:30:00	6858.73	17.67%
1	15:35:00	6823.07	17.58%
1	15:40:00	6787.52	17.49%
1	15:45:00	6752.1	17.40%
1	15:50:00	6716.79	17.31%
1	15:55:00	6681.6	17.22%
1	16:00:00	6646.52	17.13%
1	16:05:00	6611.57	17.04%
1	16:10:00	6576.74	16.95%
1	16:15:00	6542.02	16.86%
1	16:20:00	6507.43	16.77%
1	16:25:00	6472.97	16.68%
1	16:30:00	6438.62	16.59%
1	16:35:00	6404.4	16.50%
1	16:40:00	6370.31	16.42%
1	16:45:00	6336.34	16.33%
1	16:50:00	6302.5	16.24%
1	16:55:00	6268.79	16.15%
1	17:00:00	6235.2	16.07%
1	17:05:00	6201.75	15.98%
1	17:10:00	6168.43	15.89%
1	17:15:00	6135.24	15.81%
1	17:20:00	6102.19	15.72%
1	17:25:00	6069.27	15.64%
1	17:30:00	6036.49	15.55%
1	17:35:00	6003.85	15.47%
1	17:40:00	5971.35	15.39%
1	17:45:00	5939	15.30%
1	17:50:00	5906.79	15.22%
1	17:55:00	5874.72	15.14%
1	18:00:00	5842.8	15.06%
1	18:05:00	5811.04	14.97%
1	18:10:00	5779.43	14.89%
1	18:15:00	5747.97	14.81%
1	18:20:00	5716.68	14.73%
1	18:25:00	5685.55	14.65%
1	18:30:00	5654.59	14.57%
1	18:35:00	5623.8	14.49%
1	18:40:00	5593.18	14.41%
1	18:45:00	5562.75	14.33%
1	18:50:00	5532.51	14.26%
1	18:55:00	5502.48	14.18%
1	19:00:00	5472.72	14.10%
1	19:05:00	5443.22	14.03%
1	19:10:00	5413.97	13.95%
1	19:15:00	5384.97	13.88%
1	19:20:00	5356.21	13.80%
1	19:25:00	5327.66	13.73%
1	19:30:00	5299.33	13.66%
1	19:35:00	5271.2	13.58%
1	19:40:00	5243.26	13.51%
1	19:45:00	5215.5	13.44%
1	19:50:00	5187.91	13.37%
1	19:55:00	5160.46	13.30%
1	20:00:00	5133.15	13.23%
1	20:05:00	5105.95	13.16%
1	20:10:00	5078.84	13.09%
1	20:15:00	5051.77	13.02%
1	20:20:00	5024.75	12.95%
1	20:25:00	4997.78	12.88%
1	20:30:00	4970.85	12.81%
1	20:35:00	4943.97	12.74%
1	20:40:00	4917.12	12.67%
1	20:45:00	4890.32	12.60%
1	20:50:00	4863.57	12.53%
1	20:55:00	4836.85	12.46%
1	21:00:00	4810.18	12.39%
1	21:05:00	4783.55	12.33%
1	21:10:00	4756.97	12.26%
1	21:15:00	4730.42	12.19%
1	21:20:00	4703.92	12.12%
1	21:25:00	4677.46	12.05%
1	21:30:00	4651.03	11.98%
1	21:35:00	4624.65	11.92%
1	21:40:00	4598.31	11.85%
1	21:45:00	4572.01	11.78%
1	21:50:00	4545.75	11.71%
1	21:55:00	4519.53	11.65%
1	22:00:00	4493.35	11.58%
1	22:05:00	4467.19	11.51%

1	15:30:00	6803.9	20.54%
1	15:35:00	6768.42	20.43%
1	15:40:00	6733.05	20.32%
1	15:45:00	6697.81	20.22%
1	15:50:00	6662.68	20.11%
1	15:55:00	6627.67	20.00%
1	16:00:00	6592.78	19.90%
1	16:05:00	6558.01	19.79%
1	16:10:00	6523.37	19.69%
1	16:15:00	6488.84	19.58%
1	16:20:00	6454.44	19.48%
1	16:25:00	6420.17	19.38%
1	16:30:00	6386.01	19.27%
1	16:35:00	6351.99	19.17%
1	16:40:00	6318.09	19.07%
1	16:45:00	6284.32	18.97%
1	16:50:00	6250.67	18.87%
1	16:55:00	6217.16	18.76%
1	17:00:00	6183.78	18.66%
1	17:05:00	6150.53	18.56%
1	17:10:00	6117.42	18.46%
1	17:15:00	6084.44	18.36%
1	17:20:00	6051.59	18.26%
1	17:25:00	6018.89	18.17%
1	17:30:00	5986.32	18.07%
1	17:35:00	5953.9	17.97%
1	17:40:00	5921.62	17.87%
1	17:45:00	5889.49	17.78%
1	17:50:00	5857.5	17.68%
1	17:55:00	5825.67	17.58%
1	18:00:00	5793.99	17.49%
1	18:05:00	5762.46	17.39%
1	18:10:00	5731.09	17.30%
1	18:15:00	5699.88	17.20%
1	18:20:00	5668.84	17.11%
1	18:25:00	5637.97	17.02%
1	18:30:00	5607.28	16.92%
1	18:35:00	5576.76	16.83%
1	18:40:00	5546.43	16.74%
1	18:45:00	5516.3	16.65%
1	18:50:00	5486.41	16.56%
1	18:55:00	5456.79	16.47%
1	19:00:00	5427.43	16.38%
1	19:05:00	5398.32	16.29%
1	19:10:00	5369.44	16.21%
1	19:15:00	5340.8	16.12%
1	19:20:00	5312.37	16.03%
1	19:25:00	5284.15	15.95%
1	19:30:00	5256.12	15.86%
1	19:35:00	5228.28	15.78%
1	19:40:00	5200.61	15.70%
1	19:45:00	5173.1	15.61%
1	19:50:00	5145.73	15.53%
1	19:55:00	5118.48	15.45%
1	20:00:00	5091.33	15.37%
1	20:05:00	5064.25	15.28%
1	20:10:00	5037.21	15.20%
1	20:15:00	5010.21	15.12%
1	20:20:00	4983.27	15.04%
1	20:25:00	4956.36	14.96%
1	20:30:00	4929.5	14.88%
1	20:35:00	4902.68	14.80%
1	20:40:00	4875.9	14.72%
1	20:45:00	4849.17	14.64%
1	20:50:00	4822.48	14.56%
1	20:55:00	4795.83	14.47%
1	21:00:00	4769.22	14.39%
1	21:05:00	4742.66	14.31%
1	21:10:00	4716.14	14.23%
1	21:15:00	4689.65	14.15%
1	21:20:00	4663.21	14.07%
1	21:25:00	4636.81	13.99%
1	21:30:00	4610.45	13.92%
1	21:35:00	4584.14	13.84%
1	21:40:00	4557.86	13.76%
1	21:45:00	4531.62	13.68%
1	21:50:00	4505.42	13.60%
1	21:55:00	4479.25	13.52%
1	22:00:00	4453.11	13.44%
1	22:05:00	4427	13.36%

1	15:30:00	5817.93	21.67%
1	15:35:00	5786.29	21.55%
1	15:40:00	5754.8	21.44%
1	15:45:00	5723.47	21.32%
1	15:50:00	5692.3	21.20%
1	15:55:00	5661.3	21.09%
1	16:00:00	5630.47	20.97%
1	16:05:00	5599.82	20.86%
1	16:10:00	5569.35	20.75%
1	16:15:00	5539.07	20.63%
1	16:20:00	5508.99	20.52%
1	16:25:00	5479.17	20.41%
1	16:30:00	5449.61	20.30%
1	16:35:00	5420.31	20.19%
1	16:40:00	5391.26	20.08%
1	16:45:00	5362.44	19.97%
1	16:50:00	5333.85	19.87%
1	16:55:00	5305.48	19.76%
1	17:00:00	5277.31	19.66%
1	17:05:00	5249.33	19.55%
1	17:10:00	5221.53	19.45%
1	17:15:00	5193.9	19.35%
1	17:20:00	5166.42	19.24%
1	17:25:00	5139.08	19.14%
1	17:30:00	5111.86	19.04%
1	17:35:00	5084.73	18.94%
1	17:40:00	5057.66	18.84%
1	17:45:00	5030.63	18.74%
1	17:50:00	5003.65	18.64%
1	17:55:00	4976.71	18.54%
1	18:00:00	4949.82	18.44%
1	18:05:00	4922.96	18.34%
1	18:10:00	4896.16	18.24%
1	18:15:00	4869.39	18.14%
1	18:20:00	4842.67	18.04%
1	18:25:00	4815.99	17.94%
1	18:30:00	4789.35	17.84%
1	18:35:00	4762.75	17.74%
1	18:40:00	4736.2	17.64%
1	18:45:00	4709.69	17.54%
1	18:50:00	4683.22	17.44%
1	18:55:00	4656.79	17.35%
1	19:00:00	4630.4	17.25%
1	19:05:00	4604.05	17.15%
1	19:10:00	4577.74	17.05%
1	19:15:00	4551.47	16.95%
1	19:20:00	4525.25	16.86%
1	19:25:00	4499.05	16.76%
1	19:30:00	4472.89	16.66%
1	19:35:00	4446.75	16.56%
1	19:40:00	4420.65	16.47%
1	19:45:00	4394.58	16.37%
1	19:50:00	4368.53	16.27%
1	19:55:00	4342.51	16.18%
1	20:00:00	4316.51	16.08%
1	20:05:00	4290.52	15.98%
1	20:10:00	4264.54	15.89%
1	20:15:00	4238.55	15.79%
1	20:20:00	4212.57	15.69%
1	20:25:00	4186.59	15.59%
1	20:30:00	4160.57	15.50%
1	20:35:00	4134.52	15.40%
1	20:40:00	4108.48	15.30%
1	20:45:00	4082.5	15.21%
1	20:50:00	4056.59	15.11%
1	20:55:00	4030.74	15.01%
1	21:00:00	4004.97	14.92%
1	21:05:00	3979.26	14.82%
1	21:10:00	3953.62	14.73%
1	21:15:00	3928.05	14.63%
1	21:20:00	3902.54	14.54%
1	21:25:00	3877.11	14.44%
1	21:30:00	3851.74	14.35%
1	21:35:00	3826.45	14.25%
1	21:40:00	3801.22	14.16%
1	21:45:00	3776.06	14.07%
1	21:50:00	3750.97	13.97%
1	21:55:00	3725.95	13.88%
1	22:00:00	3701	13.79%
1	22:05:00	3676.12	13.69%

1	15:30:00	298.72	2.64%
1	15:35:00	293.45	2.60%
1	15:40:00	288.31	2.55%
1	15:45:00	283.31	2.51%
1	15:50:00	278.43	2.46%
1	15:55:00	273.67	2.42%
1	16:00:00	269.03	2.38%
1	16:05:00	264.5	2.34%
1	16:10:00	260.09	2.30%
1	16:15:00	255.78	2.26%
1	16:20:00	251.57	2.23%
1	16:25:00	247.47	2.19%
1	16:30:00	243.46	2.15%
1	16:35:00	239.55	2.12%
1	16:40:00	235.72	2.09%
1	16:45:00	231.99	2.05%
1	16:50:00	228.34	2.02%
1	16:55:00	224.78	1.99%
1	17:00:00	221.3	1.96%
1	17:05:00	217.89	1.93%
1	17:10:00	214.56	1.90%
1	17:15:00	211.31	1.87%
1	17:20:00	208.13	1.84%
1	17:25:00	205.02	1.81%
1	17:30:00	201.97	1.79%
1	17:35:00	199	1.76%
1	17:40:00	196.09	1.74%
1	17:45:00	193.23	1.71%
1	17:50:00	190.45	1.69%
1	17:55:00	187.71	1.66%
1	18:00:00	185.04	1.64%
1	18:05:00	182.42	1.61%
1	18:10:00	179.86	1.59%
1	18:15:00	177.35	1.57%
1	18:20:00	174.89	1.55%
1	18:25:00	172.49	1.53%
1	18:30:00	170.13	1.51%
1	18:35:00	167.82	1.49%
1	18:40:00	165.55	1.47%
1	18:45:00	163.33	1.45%
1	18:50:00	161.15	1.43%
1	18:55:00	159.02	1.41%
1	19:00:00	156.93	1.39%
1	19:05:00	154.88	1.37%
1	19:10:00	152.87	1.35%
1	19:15:00	150.89	1.34%
1	19:20:00	148.96	1.32%
1	19:25:00	147.06	1.30%
1	19:30:00	145.2	1.29%
1	19:35:00	143.37	1.27%
1	19:40:00	141.58	1.25%
1	19:45:00	139.82	1.24%
1	19:50:00	138.09	1.22%
1	19:55:00	136.39	1.21%
1	20:00:00	134.73	1.19%
1	20:05:00	133.09	1.18%
1	20:10:00	131.49	1.16%
1	20:15:00	129.91	1.15%
1	20:20:00	128.36	1.14%
1	20:25:00	126.84	1.12%
1	20:30:00	125.35	1.11%
1	20:35:00	123.88	1.10%
1	20:40:00	122.44	1.08%
1	20:45:00	121.02	1.07%
1	20:50:00	119.63	1.06%
1	20:55:00	118.26	1.05%
1	21:00:00	116.91	1.03%
1	21:05:00	115.59	1.02%
1	21:10:00	114.29	1.01%
1	21:15:00	113.01	1.00%
1	21:20:00	111.75	0.99%
1	21:25:00	110.52	0.98%
1	21:30:00	109.3	0.97%
1	21:35:00	108.11	0.96%
1	21:40:00	106.93	0.95%
1	21:45:00	105.77	0.94%
1	21:50:00	104.64	0.93%
1	21:55:00	103.52	0.92%
1	22:00:00	102.41	0.91%
1	22:05:00	101.33	0.90%

1	22:10:00	4441.06	11.44%
1	22:15:00	4414.97	11.38%
1	22:20:00	4388.9	11.31%
1	22:25:00	4362.86	11.24%
1	22:30:00	4336.84	11.18%
1	22:35:00	4310.84	11.11%
1	22:40:00	4284.85	11.04%
1	22:45:00	4258.87	10.97%
1	22:50:00	4232.89	10.91%
1	22:55:00	4206.91	10.84%
1	23:00:00	4180.92	10.77%
1	23:05:00	4154.89	10.71%
1	23:10:00	4128.83	10.64%
1	23:15:00	4102.8	10.57%
1	23:20:00	4076.84	10.51%
1	23:25:00	4050.94	10.44%
1	23:30:00	4025.11	10.37%
1	23:35:00	3999.35	10.31%
1	23:40:00	3973.66	10.24%
1	23:45:00	3948.03	10.17%
1	23:50:00	3922.48	10.11%
1	23:55:00	3896.99	10.04%
1	0:00:00	3871.57	9.98%
2	0:05:00	3846.22	9.91%
2	0:10:00	3820.94	9.85%
2	0:15:00	3795.72	9.78%
2	0:20:00	3770.58	9.72%
2	0:25:00	3745.51	9.65%
2	0:30:00	3720.5	9.59%
2	0:35:00	3695.57	9.52%
2	0:40:00	3670.7	9.46%
2	0:45:00	3645.91	9.39%
2	0:50:00	3621.19	9.33%
2	0:55:00	3596.53	9.27%
2	1:00:00	3571.95	9.20%
2	1:05:00	3547.44	9.14%
2	1:10:00	3523	9.08%
2	1:15:00	3498.63	9.02%
2	1:20:00	3474.33	8.95%
2	1:25:00	3450.1	8.89%
2	1:30:00	3425.94	8.83%
2	1:35:00	3401.86	8.77%
2	1:40:00	3377.84	8.70%
2	1:45:00	3353.9	8.64%
2	1:50:00	3330.04	8.58%
2	1:55:00	3306.24	8.52%
2	2:00:00	3282.52	8.46%
2	2:05:00	3258.87	8.40%
2	2:10:00	3235.29	8.34%
2	2:15:00	3211.78	8.28%
2	2:20:00	3188.35	8.22%
2	2:25:00	3165	8.16%
2	2:30:00	3141.71	8.10%
2	2:35:00	3118.5	8.04%
2	2:40:00	3095.36	7.98%
2	2:45:00	3072.3	7.92%
2	2:50:00	3049.31	7.86%
2	2:55:00	3026.4	7.80%
2	3:00:00	3003.56	7.74%
2	3:05:00	2980.8	7.68%
2	3:10:00	2958.11	7.62%
2	3:15:00	2935.5	7.56%
2	3:20:00	2912.96	7.51%
2	3:25:00	2890.5	7.45%
2	3:30:00	2868.11	7.39%
2	3:35:00	2845.8	7.33%
2	3:40:00	2823.56	7.28%
2	3:45:00	2801.41	7.22%
2	3:50:00	2779.32	7.16%
2	3:55:00	2757.32	7.11%
2	4:00:00	2735.39	7.05%
2	4:05:00	2713.54	6.99%
2	4:10:00	2691.76	6.94%
2	4:15:00	2670.07	6.88%
2	4:20:00	2648.45	6.82%
2	4:25:00	2626.91	6.77%
2	4:30:00	2605.44	6.71%
2	4:35:00	2584.06	6.66%
2	4:40:00	2562.75	6.60%
2	4:45:00	2541.52	6.55%

1	22:10:00	4400.92	13.28%
1	22:15:00	4374.86	13.20%
1	22:20:00	4348.83	13.13%
1	22:25:00	4322.83	13.05%
1	22:30:00	4296.84	12.97%
1	22:35:00	4270.85	12.89%
1	22:40:00	4244.87	12.81%
1	22:45:00	4218.89	12.73%
1	22:50:00	4192.9	12.65%
1	22:55:00	4166.91	12.58%
1	23:00:00	4140.86	12.50%
1	23:05:00	4114.8	12.42%
1	23:10:00	4088.8	12.34%
1	23:15:00	4062.88	12.26%
1	23:20:00	4037.01	12.18%
1	23:25:00	4011.22	12.11%
1	23:30:00	3985.5	12.03%
1	23:35:00	3959.84	11.95%
1	23:40:00	3934.25	11.87%
1	23:45:00	3908.73	11.80%
1	23:50:00	3883.28	11.72%
1	23:55:00	3857.9	11.64%
1	0:00:00	3832.59	11.57%
2	0:05:00	3807.34	11.49%
2	0:10:00	3782.17	11.42%
2	0:15:00	3757.06	11.34%
2	0:20:00	3732.02	11.26%
2	0:25:00	3707.06	11.19%
2	0:30:00	3682.16	11.11%
2	0:35:00	3657.33	11.04%
2	0:40:00	3632.58	10.96%
2	0:45:00	3607.89	10.89%
2	0:50:00	3583.28	10.81%
2	0:55:00	3558.73	10.74%
2	1:00:00	3534.26	10.67%
2	1:05:00	3509.85	10.59%
2	1:10:00	3485.52	10.52%
2	1:15:00	3461.26	10.45%
2	1:20:00	3437.07	10.37%
2	1:25:00	3412.95	10.30%
2	1:30:00	3388.91	10.23%
2	1:35:00	3364.94	10.16%
2	1:40:00	3341.03	10.08%
2	1:45:00	3317.2	10.01%
2	1:50:00	3293.45	9.94%
2	1:55:00	3269.76	9.87%
2	2:00:00	3246.15	9.80%
2	2:05:00	3222.61	9.73%
2	2:10:00	3199.15	9.66%
2	2:15:00	3175.76	9.59%
2	2:20:00	3152.44	9.51%
2	2:25:00	3129.2	9.44%
2	2:30:00	3106.02	9.37%
2	2:35:00	3082.93	9.30%
2	2:40:00	3059.91	9.24%
2	2:45:00	3036.96	9.17%
2	2:50:00	3014.09	9.10%
2	2:55:00	2991.29	9.03%
2	3:00:00	2968.56	8.96%
2	3:05:00	2945.92	8.89%
2	3:10:00	2923.34	8.82%
2	3:15:00	2900.84	8.76%
2	3:20:00	2878.42	8.69%
2	3:25:00	2856.08	8.62%
2	3:30:00	2833.81	8.55%
2	3:35:00	2811.61	8.49%
2	3:40:00	2789.5	8.42%
2	3:45:00	2767.46	8.35%
2	3:50:00	2745.49	8.29%
2	3:55:00	2723.6	8.22%
2	4:00:00	2701.79	8.15%
2	4:05:00	2680.06	8.09%
2	4:10:00	2658.41	8.02%
2	4:15:00	2636.83	7.96%
2	4:20:00	2615.33	7.89%
2	4:25:00	2593.91	7.83%
2	4:30:00	2572.57	7.76%
2	4:35:00	2551.3	7.70%
2	4:40:00	2530.12	7.64%
2	4:45:00	2509.01	7.57%

1	22:10:00	3651.31	13.60%
1	22:15:00	3626.58	13.51%
1	22:20:00	3601.91	13.42%
1	22:25:00	3577.31	13.33%
1	22:30:00	3552.78	13.23%
1	22:35:00	3528.32	13.14%
1	22:40:00	3503.94	13.05%
1	22:45:00	3479.62	12.96%
1	22:50:00	3455.38	12.87%
1	22:55:00	3431.21	12.78%
1	23:00:00	3407.11	12.69%
1	23:05:00	3383.08	12.60%
1	23:10:00	3359.12	12.51%
1	23:15:00	3335.24	12.42%
1	23:20:00	3311.43	12.33%
1	23:25:00	3287.69	12.25%
1	23:30:00	3264.02	12.16%
1	23:35:00	3240.43	12.07%
1	23:40:00	3216.91	11.98%
1	23:45:00	3193.46	11.90%
1	23:50:00	3170.09	11.81%
1	23:55:00	3146.79	11.72%
1	0:00:00	3123.56	11.64%
2	0:05:00	3100.41	11.55%
2	0:10:00	3077.33	11.46%
2	0:15:00	3054.33	11.38%
2	0:20:00	3031.4	11.29%
2	0:25:00	3008.54	11.21%
2	0:30:00	2985.76	11.12%
2	0:35:00	2963.06	11.04%
2	0:40:00	2940.43	10.95%
2	0:45:00	2917.87	10.87%
2	0:50:00	2895.4	10.79%
2	0:55:00	2872.99	10.70%
2	1:00:00	2850.67	10.62%
2	1:05:00	2828.41	10.54%
2	1:10:00	2806.24	10.45%
2	1:15:00	2784.14	10.37%
2	1:20:00	2762.12	10.29%
2	1:25:00	2740.17	10.21%
2	1:30:00	2718.31	10.13%
2	1:35:00	2696.51	10.04%
2	1:40:00	2674.8	9.96%
2	1:45:00	2653.17	9.88%
2	1:50:00	2631.61	9.80%
2	1:55:00	2610.13	9.72%
2	2:00:00	2588.73	9.64%
2	2:05:00	2567.4	9.56%
2	2:10:00	2546.16	9.48%
2	2:15:00	2524.99	9.41%
2	2:20:00	2503.9	9.33%
2	2:25:00	2482.89	9.25%
2	2:30:00	2461.97	9.17%
2	2:35:00	2441.12	9.09%
2	2:40:00	2420.35	9.02%
2	2:45:00	2399.66	8.94%
2	2:50:00	2379.05	8.86%
2	2:55:00	2358.52	8.79%
2	3:00:00	2338.07	8.71%
2	3:05:00	2317.7	8.63%
2	3:10:00	2297.41	8.56%
2	3:15:00	2277.21	8.48%
2	3:20:00	2257.08	8.41%
2	3:25:00	2237.04	8.33%
2	3:30:00	2217.08	8.26%
2	3:35:00	2197.2	8.18%
2	3:40:00	2177.4	8.11%
2	3:45:00	2157.69	8.04%
2	3:50:00	2138.05	7.96%
2	3:55:00	2118.51	7.89%
2	4:00:00	2099.04	7.82%
2	4:05:00	2079.65	7.75%
2	4:10:00	2060.35	7.67%
2	4:15:00	2041.14	7.60%
2	4:20:00	2022.01	7.53%
2	4:25:00	2002.96	7.46%
2	4:30:00	1983.99	7.39%
2	4:35:00	1965.11	7.32%
2	4:40:00	1946.32	7.25%
2	4:45:00	1927.61	7.18%

1	22:10:00	100.26	0.89%
1	22:15:00	99.21	0.88%
1	22:20:00	98.18	0.87%
1	22:25:00	97.16	0.86%
1	22:30:00	96.16	0.85%
1	22:35:00	95.18	0.84%
1	22:40:00	94.21	0.83%
1	22:45:00	93.25	0.83%
1	22:50:00	92.31	0.82%
1	22:55:00	91.38	0.81%
1	23:00:00	90.47	0.80%
1	23:05:00	89.57	0.79%
1	23:10:00	88.68	0.78%
1	23:15:00	87.81	0.78%
1	23:20:00	86.95	0.77%
1	23:25:00	86.11	0.76%
1	23:30:00	85.27	0.75%
1	23:35:00	84.45	0.75%
1	23:40:00	83.64	0.74%
1	23:45:00	82.84	0.73%
1	23:50:00	82.05	0.73%
1	23:55:00	81.28	0.72%
1	0:00:00	80.51	0.71%
2	0:05:00	79.76	0.71%
2	0:10:00	79.02	0.70%
2	0:15:00	78.29	0.69%
2	0:20:00	77.56	0.69%
2	0:25:00	76.85	0.68%
2	0:30:00	76.15	0.67%
2	0:35:00	75.46	0.67%
2	0:40:00	74.78	0.66%
2	0:45:00	74.1	0.66%
2	0:50:00	73.44	0.65%
2	0:55:00	72.78	0.64%
2	1:00:00	72.14	0.64%
2	1:05:00	71.5	0.63%
2	1:10:00	70.87	0.63%
2	1:15:00	70.25	0.62%
2	1:20:00	69.64	0.62%
2	1:25:00	69.03	0.61%
2	1:30:00	68.44	0.61%
2	1:35:00	67.85	0.60%
2	1:40:00	67.27	0.60%
2	1:45:00	66.7	0.59%
2	1:50:00	66.13	0.59%
2	1:55:00	65.57	0.58%
2	2:00:00	65.02	0.58%
2	2:05:00	64.48	0.57%
2	2:10:00	63.94	0.57%
2	2:15:00	63.41	0.56%
2	2:20:00	62.89	0.56%
2	2:25:00	62.37	0.55%
2	2:30:00	61.86	0.55%
2	2:35:00	61.36	0.54%
2	2:40:00	60.86	0.54%
2	2:45:00	60.37	0.53%
2	2:50:00	59.88	0.53%
2	2:55:00	59.4	0.53%
2	3:00:00	58.93	0.52%
2	3:05:00	58.46	0.52%
2	3:10:00	58	0.51%
2	3:15:00	57.54	0.51%
2	3:20:00	57.09	0.51%
2	3:25:00	56.65	0.50%
2	3:30:00	56.21	0.50%
2	3:35:00	55.77	0.49%
2	3:40:00	55.34	0.49%
2	3:45:00	54.92	0.49%
2	3:50:00	54.5	0.48%
2	3:55:00	54.09	0.48%
2	4:00:00	53.68	0.48%
2	4:05:00	53.27	0.47%
2	4:10:00	52.87	0.47%
2	4:15:00	52.47	0.46%
2	4:20:00	52.08	0.46%
2	4:25:00	51.7	0.46%
2	4:30:00	51.31	0.45%
2	4:35:00	50.94	0.45%
2	4:40:00	50.56	0.45%
2	4:45:00	50.19	0.44%

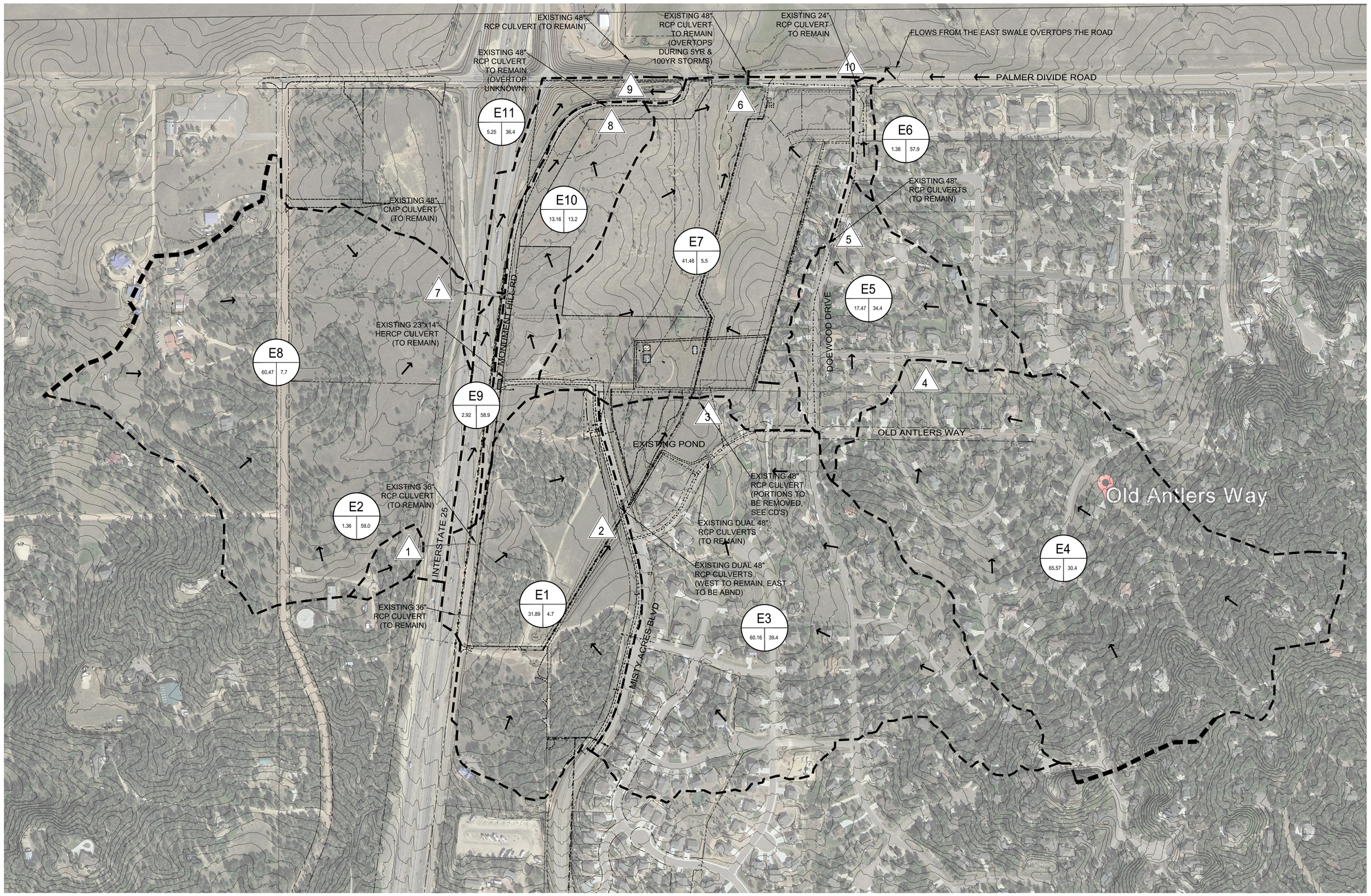
2	4:50:00	2520.38	6.49%	2	4:50:00	2487.98	7.51%	2	4:50:00	1908.98	7.11%	2	4:50:00	49.83	0.44%
2	4:55:00	2499.31	6.44%	2	4:55:00	2467.04	7.45%	2	4:55:00	1890.44	7.04%	2	4:55:00	49.47	0.44%
2	5:00:00	2478.31	6.39%	2	5:00:00	2446.17	7.38%	2	5:00:00	1871.99	6.97%	2	5:00:00	49.11	0.43%
2	5:05:00	2457.4	6.33%	2	5:05:00	2425.38	7.32%	2	5:05:00	1853.62	6.90%	2	5:05:00	48.76	0.43%
2	5:10:00	2436.57	6.28%	2	5:10:00	2404.67	7.26%	2	5:10:00	1835.33	6.84%	2	5:10:00	48.41	0.43%
2	5:15:00	2415.82	6.23%	2	5:15:00	2384.04	7.20%	2	5:15:00	1817.14	6.77%	2	5:15:00	48.06	0.43%
2	5:20:00	2395.15	6.17%	2	5:20:00	2363.49	7.13%	2	5:20:00	1799.03	6.70%	2	5:20:00	47.72	0.42%
2	5:25:00	2374.55	6.12%	2	5:25:00	2343.02	7.07%	2	5:25:00	1781	6.63%	2	5:25:00	47.39	0.42%
2	5:30:00	2354.04	6.07%	2	5:30:00	2322.63	7.01%	2	5:30:00	1763.07	6.57%	2	5:30:00	47.05	0.42%
2	5:35:00	2333.61	6.01%	2	5:35:00	2302.33	6.95%	2	5:35:00	1745.22	6.50%	2	5:35:00	46.72	0.41%
2	5:40:00	2313.26	5.96%	2	5:40:00	2282.1	6.89%	2	5:40:00	1727.45	6.43%	2	5:40:00	46.39	0.41%
2	5:45:00	2292.99	5.91%	2	5:45:00	2261.96	6.83%	2	5:45:00	1709.78	6.37%	2	5:45:00	46.07	0.41%
2	5:50:00	2272.8	5.86%	2	5:50:00	2241.89	6.77%	2	5:50:00	1692.19	6.30%	2	5:50:00	45.75	0.40%
2	5:55:00	2252.69	5.80%	2	5:55:00	2221.91	6.71%	2	5:55:00	1674.69	6.24%	2	5:55:00	45.44	0.40%
2	6:00:00	2232.67	5.75%	2	6:00:00	2202.01	6.65%	2	6:00:00	1657.28	6.17%	2	6:00:00	45.12	0.40%
2	6:05:00	2212.73	5.70%	2	6:05:00	2182.2	6.59%	2	6:05:00	1639.96	6.11%	2	6:05:00	44.81	0.40%
2	6:10:00	2192.86	5.65%	2	6:10:00	2162.46	6.53%	2	6:10:00	1622.72	6.04%	2	6:10:00	44.51	0.39%
2	6:15:00	2173.08	5.60%	2	6:15:00	2142.81	6.47%	2	6:15:00	1605.58	5.98%	2	6:15:00	44.2	0.39%
2	6:20:00	2153.39	5.55%	2	6:20:00	2123.24	6.41%	2	6:20:00	1588.52	5.92%	2	6:20:00	43.91	0.39%
2	6:25:00	2133.77	5.50%	2	6:25:00	2103.75	6.35%	2	6:25:00	1571.56	5.85%	2	6:25:00	43.61	0.39%
2	6:30:00	2114.24	5.45%	2	6:30:00	2084.35	6.29%	2	6:30:00	1554.68	5.79%	2	6:30:00	43.32	0.38%
2	6:35:00	2094.79	5.40%	2	6:35:00	2065.03	6.23%	2	6:35:00	1537.89	5.73%	2	6:35:00	43.02	0.38%
2	6:40:00	2075.43	5.35%	2	6:40:00	2045.79	6.17%	2	6:40:00	1521.19	5.67%	2	6:40:00	42.74	0.38%
2	6:45:00	2056.15	5.30%	2	6:45:00	2026.64	6.12%	2	6:45:00	1504.58	5.60%	2	6:45:00	42.45	0.38%
2	6:50:00	2036.95	5.25%	2	6:50:00	2007.57	6.06%	2	6:50:00	1488.07	5.54%	2	6:50:00	42.17	0.37%
2	6:55:00	2017.83	5.20%	2	6:55:00	1988.58	6.00%	2	6:55:00	1471.64	5.48%	2	6:55:00	41.89	0.37%
2	7:00:00	1998.8	5.15%	2	7:00:00	1969.68	5.94%	2	7:00:00	1455.3	5.42%	2	7:00:00	41.62	0.37%
2	7:05:00	1979.86	5.10%	2	7:05:00	1950.86	5.89%	2	7:05:00	1439.06	5.36%	2	7:05:00	41.35	0.37%
2	7:10:00	1960.99	5.05%	2	7:10:00	1932.13	5.83%	2	7:10:00	1422.91	5.30%	2	7:10:00	41.08	0.36%
2	7:15:00	1942.22	5.00%	2	7:15:00	1913.49	5.78%	2	7:15:00	1406.85	5.24%	2	7:15:00	40.81	0.36%
2	7:20:00	1923.52	4.96%	2	7:20:00	1894.93	5.72%	2	7:20:00	1390.88	5.18%	2	7:20:00	40.54	0.36%
2	7:25:00	1904.92	4.91%	2	7:25:00	1876.45	5.66%	2	7:25:00	1375	5.12%	2	7:25:00	40.28	0.36%
2	7:30:00	1886.4	4.86%	2	7:30:00	1858.06	5.61%	2	7:30:00	1359.21	5.06%	2	7:30:00	40.02	0.35%
2	7:35:00	1867.96	4.81%	2	7:35:00	1839.76	5.55%	2	7:35:00	1343.52	5.00%	2	7:35:00	39.77	0.35%
2	7:40:00	1849.61	4.77%	2	7:40:00	1821.54	5.50%	2	7:40:00	1327.92	4.95%	2	7:40:00	39.51	0.35%
2	7:45:00	1831.35	4.72%	2	7:45:00	1803.41	5.44%	2	7:45:00	1312.41	4.89%	2	7:45:00	39.26	0.35%
2	7:50:00	1813.17	4.67%	2	7:50:00	1785.36	5.39%	2	7:50:00	1297	4.83%	2	7:50:00	39.01	0.35%
2	7:55:00	1795.08	4.63%	2	7:55:00	1767.41	5.33%	2	7:55:00	1281.68	4.77%	2	7:55:00	38.76	0.34%
2	8:00:00	1777.07	4.58%	2	8:00:00	1749.53	5.28%	2	8:00:00	1266.45	4.72%	2	8:00:00	38.52	0.34%
2	8:05:00	1759.15	4.53%	2	8:05:00	1731.75	5.23%	2	8:05:00	1251.32	4.66%	2	8:05:00	38.28	0.34%
2	8:10:00	1741.32	4.49%	2	8:10:00	1714.05	5.17%	2	8:10:00	1236.28	4.61%	2	8:10:00	38.04	0.34%
2	8:15:00	1723.58	4.44%	2	8:15:00	1696.44	5.12%	2	8:15:00	1221.33	4.55%	2	8:15:00	37.8	0.33%
2	8:20:00	1705.92	4.40%	2	8:20:00	1678.92	5.07%	2	8:20:00	1206.48	4.49%	2	8:20:00	37.57	0.33%
2	8:25:00	1688.35	4.35%	2	8:25:00	1661.49	5.01%	2	8:25:00	1191.73	4.44%	2	8:25:00	37.34	0.33%
2	8:30:00	1670.87	4.31%	2	8:30:00	1644.15	4.96%	2	8:30:00	1177.07	4.38%	2	8:30:00	37.11	0.33%
2	8:35:00	1653.48	4.26%	2	8:35:00	1626.89	4.91%	2	8:35:00	1162.5	4.33%	2	8:35:00	36.88	0.33%
2	8:40:00	1636.18	4.22%	2	8:40:00	1609.72	4.86%	2	8:40:00	1148.03	4.28%	2	8:40:00	36.65	0.32%
2	8:45:00	1618.96	4.17%	2	8:45:00	1592.65	4.81%	2	8:45:00	1133.66	4.22%	2	8:45:00	36.43	0.32%
2	8:50:00	1601.84	4.13%	2	8:50:00	1575.66	4.76%	2	8:50:00	1119.38	4.17%	2	8:50:00	36.21	0.32%
2	8:55:00	1584.8	4.08%	2	8:55:00	1558.76	4.70%	2	8:55:00	1105.2	4.12%	2	8:55:00	35.99	0.32%
2	9:00:00	1567.85	4.04%	2	9:00:00	1541.95	4.65%	2	9:00:00	1091.12	4.06%	2	9:00:00	35.77	0.32%
2	9:05:00	1550.99	4.00%	2	9:05:00	1525.23	4.60%	2	9:05:00	1077.13	4.01%	2	9:05:00	35.56	0.31%
2	9:10:00	1534.23	3.95%	2	9:10:00	1508.6	4.55%	2	9:10:00	1063.24	3.96%	2	9:10:00	35.34	0.31%
2	9:15:00	1517.55	3.91%	2	9:15:00	1492.06	4.50%	2	9:15:00	1049.44	3.91%	2	9:15:00	35.13	0.31%
2	9:20:00	1500.96	3.87%	2	9:20:00	1475.61	4.45%	2	9:20:00	1035.75	3.86%	2	9:20:00	34.92	0.31%
2	9:25:00	1484.46	3.83%	2	9:25:00	1459.25	4.40%	2	9:25:00	1022.15	3.81%	2	9:25:00	34.71	0.31%
2	9:30:00	1468.06	3.78%	2	9:30:00	1442.99	4.36%	2	9:30:00	1008.65	3.76%	2	9:30:00	34.51	0.31%
2	9:35:00	1451.74	3.74%	2	9:35:00	1426.81	4.31%	2	9:35:00	995.25	3.71%	2	9:35:00	34.31	0.30%
2	9:40:00	1435.52	3.70%	2	9:40:00	1410.73	4.26%	2	9:40:00	981.94	3.66%	2	9:40:00	34.1	0.30%
2	9:45:00	1419.38	3.66%	2	9:45:00	1394.73	4.21%	2	9:45:00	968.74	3.61%	2	9:45:00	33.9	0.30%
2	9:50:00	1403.34	3.62%	2	9:50:00	1378.83	4.16%	2	9:50:00	955.63	3.56%	2	9:50:00	33.71	0.30%
2	9:55:00	1387.39	3.58%	2	9:55:00	1363.03	4.11%	2	9:55:00	942.62	3.51%	2	9:55:00	33.51	0.30%
2	10:00:00	1371.53	3.53%	2	10:00:00	1347.31	4.07%	2	10:00:00	929.72	3.46%	2	10:00:00	33.32	0.29%
2	10:05:00	1355.77	3.49%	2	10:05:00	1331.69	4.02%	2	10:05:00	916.91	3.42%	2	10:05:00	33.12	0.29%
2	10:10:00	1340.09	3.45%	2	10:10:00	1316.16	3.97%	2	10:10:00	904.2	3.37%	2	10:10:00	32.93	0.29%
2	10:15:00	1324.51	3.41%	2	10:15:00	1300.72	3.93%	2	10:15:00	891.59	3.32%	2	10:15:00	32.75	0.29%
2	10:20:00	1309.03	3.37%	2	10:20:00	1285.38	3.88%	2	10:20:00	879.08	3.27%	2	10:20:00	32.56	0.29%
2	10:25:00	1293.63	3.33%	2	10:25:00	1270.13	3.83%	2	10:25:00	866.67	3.23%	2	10:25:00	32.37	0.29%
2	10:30:00	1278.33	3.29%	2	10:30:00	1254.97	3.79%	2	10:30:00	854.37	3.18%	2	10:30:00	32.19	0.28%
2	10:35:00	1263.13	3.25%	2	10:35:00	1239.91	3.74%	2	10:35:00	842.16	3.14%	2	10:35:00	32.01	0.28%
2	10:40:00	1248.01	3.22%	2	10:40:00	1224.94	3.70%	2	10:40:00	830.06	3.09%	2	10:40:00	31.83	0.28%
2	10:45:00	1232.99	3.18%	2	10:45:00	1210.07	3.65%	2	10:45:00	818.05	3.05%	2	10:45:00	31.65	0.28%
2	10:50:00	1218.07	3.14%	2	10:50:00	1195.29	3.61%	2	10:50:00	806.15	3.00%	2	10:50:00	31.47	0.28%
2	10:55:00	1203.24	3.10%	2	10:55:00	1180.61	3.56%	2	10:55:00	794.35	2.96%	2	10:55:00	31.29	0.28%
2	11:00:00	1188.51	3.06%	2	11:00:00	1166.02	3.52%	2	11:00:00	782.65	2.92%	2	11:00:00	31.12	0.28%
2	11:05:00	1173.87	3.02%	2	11:05:00	1151.53	3.48%	2	11:05:00	771.06	2.87%	2	11:05:00	30.95	0.27%
2	11:10:00	1159.32	2.99%	2	11:10:00	1137.13	3.43%	2	11:10:00	759.57	2.83%	2	11:10:00	30.78	0.27%
2	11:15:00	1144.88	2.95%	2	11:15:00	1122.83	3.39%	2	11:15:00	748.18	2.79%	2	11:15:00	30.61	0.27%
2	11:20:00	1130.52	2.91%	2	11:20:00	1108.62	3.35%	2	11:20:00	736.89	2.74%	2	11:20:00	30.44	0.27%
2	11:25:00	1116.27	2.88%	2	11:25:00	1094.52	3.30%	2	11:25:00	725.71	2.70%	2	11:25:00	30.27	0.27%

2	11:30:00	1102.11	2.84%
2	11:35:00	1088.04	2.80%
2	11:40:00	1074.08	2.77%
2	11:45:00	1060.21	2.73%
2	11:50:00	1046.43	2.70%
2	11:55:00	1032.76	2.66%
2	12:00:00	1019.18	2.63%
2	12:05:00	1005.7	2.59%
2	12:10:00	992.32	2.56%
2	12:15:00	979.04	2.52%
2	12:20:00	965.86	2.49%
2	12:25:00	952.77	2.46%
2	12:30:00	939.78	2.42%
2	12:35:00	926.9	2.39%
2	12:40:00	914.11	2.36%
2	12:45:00	901.42	2.32%
2	12:50:00	888.84	2.29%
2	12:55:00	876.35	2.26%
2	13:00:00	863.97	2.23%
2	13:05:00	851.68	2.19%
2	13:10:00	839.5	2.16%
2	13:15:00	827.41	2.13%
2	13:20:00	815.43	2.10%
2	13:25:00	803.55	2.07%
2	13:30:00	791.78	2.04%
2	13:35:00	780.1	2.01%
2	13:40:00	768.53	1.98%
2	13:45:00	757.06	1.95%
2	13:50:00	745.69	1.92%
2	13:55:00	734.43	1.89%
2	14:00:00	723.27	1.86%
2	14:05:00	712.21	1.84%
2	14:10:00	701.25	1.81%
2	14:15:00	690.41	1.78%
2	14:20:00	679.66	1.75%
2	14:25:00	669.02	1.72%
2	14:30:00	658.48	1.70%
2	14:35:00	648.05	1.67%
2	14:40:00	637.73	1.64%
2	14:45:00	627.51	1.62%
2	14:50:00	617.39	1.59%
2	14:55:00	607.39	1.57%
2	15:00:00	597.48	1.54%
2	15:05:00	587.69	1.51%
2	15:10:00	578	1.49%
2	15:15:00	568.41	1.46%
2	15:20:00	558.94	1.44%
2	15:25:00	549.57	1.42%
2	15:30:00	540.31	1.39%
2	15:35:00	531.15	1.37%
2	15:40:00	522.11	1.35%
2	15:45:00	513.17	1.32%
2	15:50:00	504.34	1.30%
2	15:55:00	495.62	1.28%
2	16:00:00	487.01	1.25%
2	16:05:00	478.5	1.23%
2	16:10:00	470.11	1.21%
2	16:15:00	461.82	1.19%
2	16:20:00	453.65	1.17%
2	16:25:00	445.58	1.15%
2	16:30:00	437.62	1.13%
2	16:35:00	429.78	1.11%
2	16:40:00	422.04	1.09%
2	16:45:00	414.42	1.07%
2	16:50:00	406.9	1.05%
2	16:55:00	399.5	1.03%
2	17:00:00	392.2	1.01%
2	17:05:00	385.02	0.99%
2	17:10:00	377.95	0.97%

2	11:30:00	1080.5	3.26%
2	11:35:00	1066.59	3.22%
2	11:40:00	1052.77	3.18%
2	11:45:00	1039.05	3.14%
2	11:50:00	1025.43	3.09%
2	11:55:00	1011.91	3.05%
2	12:00:00	998.48	3.01%
2	12:05:00	985.15	2.97%
2	12:10:00	971.92	2.93%
2	12:15:00	958.79	2.89%
2	12:20:00	945.76	2.85%
2	12:25:00	932.83	2.82%
2	12:30:00	920	2.78%
2	12:35:00	907.26	2.74%
2	12:40:00	894.63	2.70%
2	12:45:00	882.1	2.66%
2	12:50:00	869.66	2.62%
2	12:55:00	857.33	2.59%
2	13:00:00	845.1	2.55%
2	13:05:00	832.97	2.51%
2	13:10:00	820.94	2.48%
2	13:15:00	809.02	2.44%
2	13:20:00	797.19	2.41%
2	13:25:00	785.47	2.37%
2	13:30:00	773.85	2.34%
2	13:35:00	762.33	2.30%
2	13:40:00	750.92	2.27%
2	13:45:00	739.61	2.23%
2	13:50:00	728.4	2.20%
2	13:55:00	717.29	2.16%
2	14:00:00	706.29	2.13%
2	14:05:00	695.4	2.10%
2	14:10:00	684.6	2.07%
2	14:15:00	673.91	2.03%
2	14:20:00	663.33	2.00%
2	14:25:00	652.85	1.97%
2	14:30:00	642.48	1.94%
2	14:35:00	632.21	1.91%
2	14:40:00	622.05	1.88%
2	14:45:00	611.99	1.85%
2	14:50:00	602.04	1.82%
2	14:55:00	592.19	1.79%
2	15:00:00	582.45	1.76%
2	15:05:00	572.82	1.73%
2	15:10:00	563.3	1.70%
2	15:15:00	553.88	1.67%
2	15:20:00	544.57	1.64%
2	15:25:00	535.36	1.62%
2	15:30:00	526.27	1.59%
2	15:35:00	517.28	1.56%
2	15:40:00	508.4	1.53%
2	15:45:00	499.63	1.51%
2	15:50:00	490.97	1.48%
2	15:55:00	482.41	1.46%
2	16:00:00	473.97	1.43%
2	16:05:00	465.63	1.41%
2	16:10:00	457.4	1.38%
2	16:15:00	449.29	1.36%
2	16:20:00	441.28	1.33%
2	16:25:00	433.38	1.31%
2	16:30:00	425.6	1.28%
2	16:35:00	417.92	1.26%
2	16:40:00	410.35	1.24%
2	16:45:00	402.9	1.22%
2	16:50:00	395.55	1.19%
2	16:55:00	388.32	1.17%
2	17:00:00	381.2	1.15%
2	17:05:00	374.19	1.13%
2	17:10:00	367.29	1.11%

2	11:30:00	714.63	2.66%
2	11:35:00	703.65	2.62%
2	11:40:00	692.78	2.58%
2	11:45:00	682.01	2.54%
2	11:50:00	671.35	2.50%
2	11:55:00	660.79	2.46%
2	12:00:00	650.34	2.42%
2	12:05:00	639.99	2.38%
2	12:10:00	629.74	2.35%
2	12:15:00	619.61	2.31%
2	12:20:00	609.57	2.27%
2	12:25:00	599.65	2.23%
2	12:30:00	589.83	2.20%
2	12:35:00	580.12	2.16%
2	12:40:00	570.51	2.13%
2	12:45:00	561.01	2.09%
2	12:50:00	551.62	2.05%
2	12:55:00	542.33	2.02%
2	13:00:00	533.16	1.99%
2	13:05:00	524.09	1.95%
2	13:10:00	515.13	1.92%
2	13:15:00	506.27	1.89%
2	13:20:00	497.53	1.85%
2	13:25:00	488.89	1.82%
2	13:30:00	480.36	1.79%
2	13:35:00	471.94	1.76%
2	13:40:00	463.64	1.73%
2	13:45:00	455.44	1.70%
2	13:50:00	447.35	1.67%
2	13:55:00	439.36	1.64%
2	14:00:00	431.49	1.61%
2	14:05:00	423.73	1.58%
2	14:10:00	416.08	1.55%
2	14:15:00	408.54	1.52%
2	14:20:00	401.12	1.49%
2	14:25:00	393.8	1.47%
2	14:30:00	386.59	1.44%
2	14:35:00	379.5	1.41%
2	14:40:00	372.51	1.39%
2	14:45:00	365.64	1.36%
2	14:50:00	358.88	1.34%
2	14:55:00	352.23	1.31%
2	15:00:00	345.7	1.29%
2	15:05:00	339.27	1.26%
2	15:10:00	332.96	1.24%
2	15:15:00	326.78	1.22%
2	15:20:00	320.77	1.19%
2	15:25:00	314.91	1.17%
2	15:30:00	309.21	1.15%
2	15:35:00	303.66	1.13%
2	15:40:00	298.24	1.11%
2	15:45:00	292.97	1.09%
2	15:50:00	287.83	1.07%
2	15:55:00	282.83	1.05%
2	16:00:00	277.94	1.04%
2	16:05:00	273.18	1.02%
2	16:10:00	268.54	1.00%
2	16:15:00	264.01	0.98%
2	16:20:00	259.59	0.97%
2	16:25:00	255.27	0.95%
2	16:30:00	251.07	0.94%
2	16:35:00	246.96	0.92%
2	16:40:00	242.95	0.90%
2	16:45:00	239.03	0.89%
2	16:50:00	235.2	0.88%
2	16:55:00	231.47	0.86%
2	17:00:00	227.82	0.85%
2	17:05:00	224.25	0.84%
2	17:10:00	220.76	0.82%

2	11:30:00	30.11	0.27%
2	11:35:00	29.94	0.27%
2	11:40:00	29.78	0.26%
2	11:45:00	29.62	0.26%
2	11:50:00	29.46	0.26%
2	11:55:00	29.3	0.26%
2	12:00:00	29.14	0.26%
2	12:05:00	28.99	0.26%
2	12:10:00	28.83	0.26%
2	12:15:00	28.68	0.25%
2	12:20:00	28.53	0.25%
2	12:25:00	28.38	0.25%
2	12:30:00	28.23	0.25%
2	12:35:00	28.08	0.25%
2	12:40:00	27.93	0.25%
2	12:45:00	27.79	0.25%
2	12:50:00	27.64	0.24%
2	12:55:00	27.5	0.24%
2	13:00:00	27.36	0.24%
2	13:05:00	27.22	0.24%
2	13:10:00	27.08	0.24%
2	13:15:00	26.94	0.24%
2	13:20:00	26.8	0.24%
2	13:25:00	26.67	0.24%
2	13:30:00	26.53	0.23%
2	13:35:00	26.4	0.23%
2	13:40:00	26.26	0.23%
2	13:45:00	26.13	0.23%
2	13:50:00	26	0.23%
2	13:55:00	25.87	0.23%
2	14:00:00	25.74	0.23%
2	14:05:00	25.62	0.23%
2	14:10:00	25.49	0.23%
2	14:15:00	25.36	0.22%
2	14:20:00	25.24	0.22%
2	14:25:00	25.11	0.22%
2	14:30:00	24.99	0.22%
2	14:35:00	24.87	0.22%
2	14:40:00	24.75	0.22%
2	14:45:00	24.63	0.22%
2	14:50:00	24.51	0.22%
2	14:55:00	24.39	0.22%
2	15:00:00	24.27	0.21%
2	15:05:00	24.16	0.21%
2	15:10:00	24.04	0.21%
2	15:15:00	23.93	0.21%
2	15:20:00	23.81	0.21%
2	15:25:00	23.7	0.21%
2	15:30:00	23.59	0.21%
2	15:35:00	23.48	0.21%
2	15:40:00	23.37	0.21%
2	15:45:00	23.26	0.21%
2	15:50:00	23.15	0.20%
2	15:55:00	23.04	0.20%
2	16:00:00	22.94	0.20%
2	16:05:00	22.83	0.20%
2	16:10:00	22.72	0.20%
2	16:15:00	22.62	0.20%
2	16:20:00	22.51	0.20%
2	16:25:00	22.41	0.20%
2	16:30:00	22.31	0.20%
2	16:35:00	22.21	0.20%
2	16:40:00	22.11	0.20%
2	16:45:00	22.01	0.19%
2	16:50:00	21.91	0.19%
2	16:55:00	21.81	0.19%
2	17:00:00	21.71	0.19%
2	17:05:00	21.61	0.19%
2	17:10:00	21.52	0.19%



Surface Routing Summary

Design Point	Design Point/ Contributing Basins	Flow Q_{10}	Flow Q_{100}	Comments	Ownership (Private or Public)
1	E2	**3.3**	**5.7**	existing 36" RCP culvert	Public
2	DP1,E1	**21.8**	**62.2**	existing dual 48" RCP culverts	Public
3	DP2,E3	**107.2**	**225.6**	Misty Ac 1 Pond Attenuation of Q10=58cfs, Q100=130cfs (per MDDP), yields Q10out=49.2cfs and Q100=95.6cfs)	Private
4	E4	**92.1**	**191.4**	unk pipe sizes, assume no peak flow attenuation	Public
5	DP4,E5	**109.4**	**225.2**	low point collection structure, size TBD in FDR	Public
6	DP3 (attenuated),DP5,E6,E7	**214.3**	**488.0**	existing 48" CMP culvert, overtops road	Public
7	E8	**40.8**	**113.3**	existing 48" CMP culvert	Public
8	DP7,E9,E10	**52.9**	**137.4**	existing 48" RCP culvert, overtop elev unk	Public
9	DP8,E11	**60.1**	**151.4**	existing 48" RCP culvert, overtop elev unk	Public
10	E6	**4.7**	**8.0**	existing 24" culvert	Public

UNRESOLVED:
- Label contours
- Provide analysis of all existing structures that remain
- Show T(c) paths

LEGEND

A — BASIN ID

#.## / ##.# — % IMPERVIOUS / BASIN AREA (ACRES)

— DESIGN POINT

DRAINAGE BASIN BOUNDARY

EXISTING CONTOUR

PROPOSED CONTOUR

SURFACE FLOW DIRECTION

GENERAL NOTES

1. EXISTING TOPOGRAPHY PROVIDED BY THE COLORADO WATER CONSERVATION BOARD (CWCB).
2. ALL CONTOURS REFLECT EXISTING CONDITIONS.
3. CONTOURS SHOWN ON THIS MAP REFLECT A 5' CONTOUR INTERVAL.
4. AERIAL IMAGERY FROM GOOGLE EARTH DATED 2019

NORTH

0 100 200 400

PRC ENGINEERING
1665 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904

PRC ENGINEERING

MONUMENT RIDGE EAST

TOWN OF MONUMENT
EL PASO COUNTY, COLORADO

◆ DRAINAGE PLAN
EXISTING CONDITIONS (PER MDDP)

issued 12/30/25

D1
sheet number

Include Full Interim map back in, which had been provided in previous submittals

MONUMENT HILL ROAD

EXISTING SUMP INLET (TO REMAIN)

EXISTING 36" RCP (TO REMAIN)

F0

M O2

M O3

F4A

EXISTING 36" RCP (TO REMAIN)

M O4

F4B

EXISTING SUMP INLET (TO REMAIN)

INTERSTATE 25

MO10

MONUMENT RIDGE EAST BOUNDARY)

EXISTING CATTLE GUARD

MO11

F24

LOW PT.

HIGH PT.

KK

F23

LL

EXISTING INLET (TO REMAIN)

EXISTING 23"X14" HERCP (TO REMAIN)

AA

MONUMENT RIDGE EAST BOUNDARY)

Unresolved:
How does all this flow get into a storm system? Needs to be intercepted prior to entering road. Show swale diverting flows. Can stubs be used in interim to help catch flows?

TRACT 2

DD

EE

Unresolved:
Provide analysis of any existing and proposed swales to ensure adequate to convey flows.

PROPOSED STORM SEWER (TYP)

PROPOSED WALL (10' MAX HEIGHT)

Unresolved:
How does all this flow get into a storm system? Needs to be intercepted prior to entering road and can't be allowed to overtop wall into pond. Show swale diverting flows around pond and how they will enter storm system

PROPOSED EMERGENCY SPILLWAY

Unresolved:
Plat indicates there are wetlands in this area. Please identify

Unresolved:
Provide design calculations for riprap protection

EDB POND 1 (PRIVATE)

F2

F3

CC

FF

BB

LOW PT.

F1

PROPOSED DEPRESSION AREA (TRIBUTARY TO POND 1) (PRIVATE)

HIGH PT.

F4C

LOW PT.

F5

LOW PT.

MISTY ACRES BOULEVARD (PUBLIC)

PROPOSED OUTLET STRUCTURE (PRIVATE)

Unresolved:
Provide design of riprap outlet protection. Provide design/analysis of channel for released flows. Is drainage easement needed for swale to convey flow?

MO6

HIGH PT.

MISTY ACRES

EXISTING DUAL 48" RCP CULVERTS (WEST TO REMAIN, EAST TO BE ABND)

MONUMENT RIDGE EAST AND FILING NO. 1 BOUNDARY)

EXISTING MISTY ACRES POND (AKA - BALD MOUNTAIN POND)

OLD ANTLERS WAY

MO5

F10

F9

EXISTING 48" RCP OUTLET SYSTEM (TO REMAIN)

UNRESOLVED:
- Label proposed contours
- Provide basin summary tables
- Show T(c) paths

EXISTING DUAL 48" RCP CULVERTS (TO REMAIN)

MD2

PROPOSED 54" RCP (PRIVATE)

MATCH LINE

NORTH

0 30 60 120

GENERAL NOTES

1. EXISTING TOPOGRAPHY PROVIDED BY BEAR CREEK SURVEYING VIA AERIAL PHOTOGRAPHY.
2. CONTOURS SHOWN ON THIS MAP REFLECT A 2' CONTOUR INTERVAL.
3. AERIAL IMAGERY NOT SHOWN FOR CLARITY.
4. ROADS ARE CLASSIFIED AS EITHER PUBLIC "[PUB]" OR PRIVATE "[PVT]" AS SHOWN ON PLAN.
5. REFER TO SHEET D2 FOR OVERALL BASIN MAP.
6. ALL STORM SEWER LOCATED WITHIN PUBLIC RIGHT-OF-WAY IS PUBLIC. ALL OTHER STORM SEWER IS PRIVATE.

SHEET NOTES:

1. REFER TO SHEET D4 FOR ROUTING SUMMARY AND PIPE SUMMARY TABLES

PRC ENGINEERING
1435 AKERS MESA DRIVE, SUITE 114
COLORADO SPRINGS, CO 80904
PRC ENGINEERING

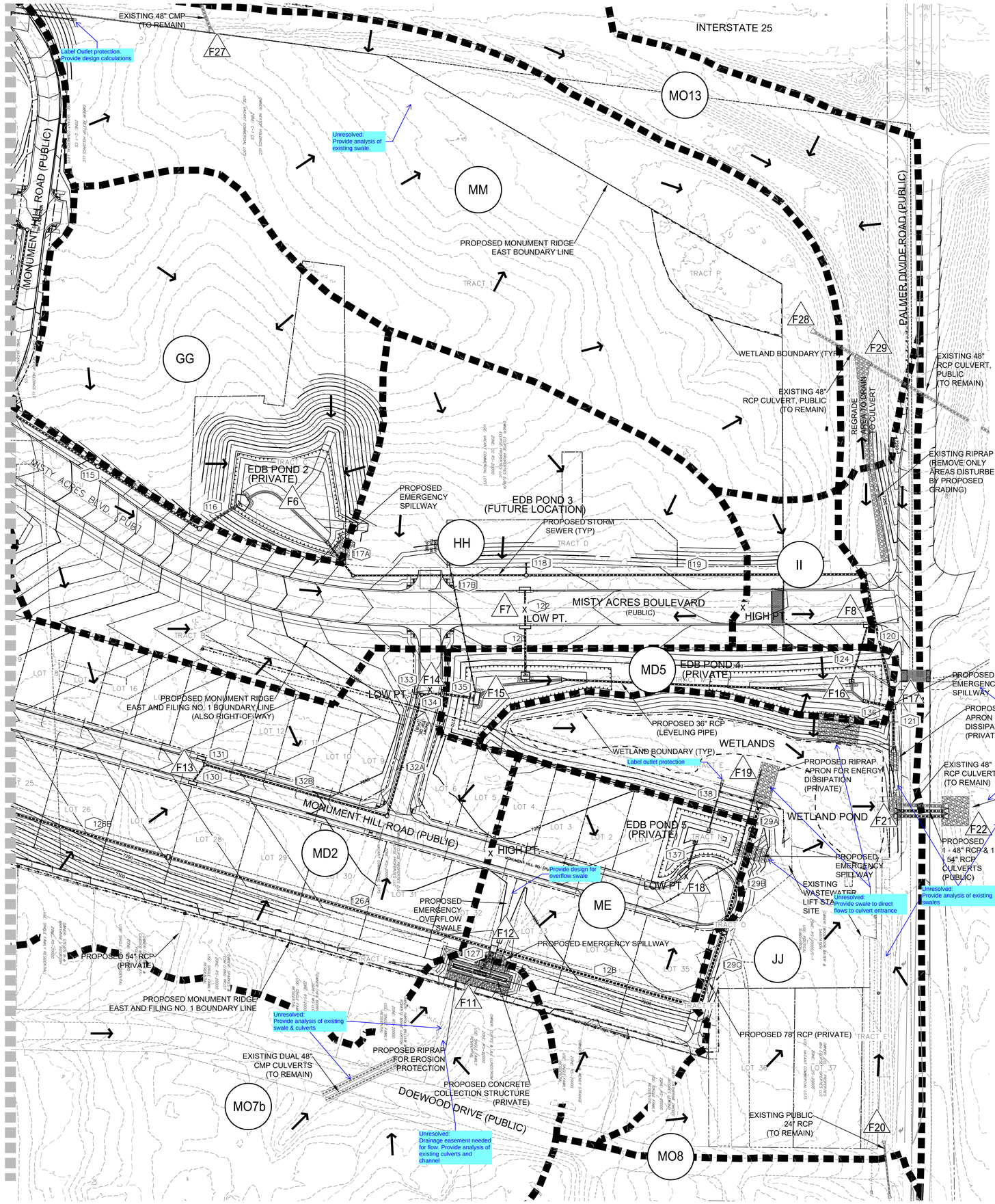
MONUMENT RIDGE EAST - FIL. NO. 1

TOWN OF MONUMENT
EL PASO COUNTY, COLORADO

◆ DRAINAGE PLAN
INTERIM CONDITIONS - SOUTH

issued	5/10/26

D3
sheet number



ROUTING SUMMARY

Design Point	Contributing Basins/Design Points	Flow Q_{10}	Flow Q_{100}	Comments
F0	MO2	2.1	3.5	existing 36" RCP culvert
F1	AA,DP F0	9.9	28.7	proposed 2-12' D-10-R inlets, future Q100=29cfs at DPX1, size for future condition
F2	BB	2.0	6.7	proposed 18" RCP
F3	DP F1, DP F2,CC	14.5	38.1	flow to pond 1, unrouted
F4A	MO3	3.3	5.7	existing 36" RCP culvert
F4B	MO4	3.0	4.9	existing type C inlet
F4C	DP F4A, DP F4B, DD	19.0	42.9	proposed 2-8' D-10-R inlets, future Q100=21cfs at DPX5, size for interim condition
F5	EE	3.6	7.0	proposed triple type 16 inlet, future Q100=7.5cfs at DPX7, size for future condition
F6	DP F4C,DP F5,GG	28.1	64.0	flow to pond 2, unrouted
F7	FF,HH	14.9	31.9	proposed 2-16' D-10-R inlets, future Q100=45cfs at DPX9, size for future condition
F8	II	1.5	3.1	proposed 10' D-10-R inlet, future Q100=3.8cfs at DPX10, size for future condition
F9	POND 1 OUT,MO5	59.2	118.3	Misty Ac 1 Pond Attenuation of Q10=58cfs, Q100=130cfs (per MDDP), yields Q10out=59.2cfs and Q100=118.3cfs)
F10	MO6	0.8	2.4	proposed type C inlet
F11	MO7A, MO7B	102.6	211.4	low point collection structure
F12	DP F9, DP F10, DP F11	162.6	332.0	proposed 78" RCP
F13	50% MD2	15.6	29.8	proposed 2-12' D-10-R inlets
F14	50% MD2	12.3	23.4	proposed 2-12' D-10-R inlets
F15	DP F7, DP F13, DP F14	38.2	75.5	flow to pond 4 (south)
F16	DP F8, DP F15	41.5	83.1	total flow to pond 4
F17	POND 2 OUT,POND 4 OUT	25.7	67.2	flow to depression area
F18	ME	9.3	17.4	proposed 16' D-10-R inlet
F19	DP F9,DP F10,DP F11, POND 5 OUT	161.6	324.5	flow to depression area
F20	MO8	4.7	8.0	existing culvert, unk size
F21	POND 1 OUT, POND 2 OUT,POND 4 OUT, POND 5 OUT,DP F9,DP F10,DP F11,MO8,JJ	200.8	420.6	Total flow routed to project outfall under Palmer Divide Road. The flows listed have already taken into consideration the future pond release values and flows entering the site from the east. i.e. - these values reflect future conditions after the entire
F22	POND 1 OUT, POND 2 OUT,POND 4 OUT, POND 5 OUT,DP F9,DP F10,DP F11,MO8,JJ	200.8	420.6	outfall location (design point for report reference only)
F23	KK	1.2	2.9	existing type C inlet
F24	LL	1.2	2.3	proposed 2-4' D-10-R inlets
F25	MO10	40.8	113.3	existing 48" RCP culvert
F26	MO11	12.4	20.1	existing dual type C inlet
F27	DP F25,DP F26	47.6	124.4	design Point F26 outfall
F28	DP F23, DP F24,DP F25, DP F26,MM	57.9	150.5	existing 48" RCP culvert
F29	DP F28,M013	65.4	164.7	existing 48" RCP culvert

PIPE SUMMARY

Pipe ID	Filing 1 (Interim) - Flow (cfs) Q_{10}	Filing 1 (Interim) - Flow (cfs) Q_{100}	Pipe Diam
100	4.9	14.3	24"
101	9.9	28.6	24"
102	9.9	28.6	24"
103	2.0	6.7	30"
104	No Flow (stub for future)		30"
105	No Flow (stub for future)		18"
106	No Flow (for future)		42"
107	9.5	21.4	24"
108	19.0	42.9	30"
109	No Flow (stub for future)		30"
110	No Flow (for future)		30"
111	No Flow (stub for future)		24"
112	No Flow (for future)		36"
113	3.6	7.0	24"
114	3.6	7.0	36"
115	22.6	49.9	42"
116	22.6	49.9	42"
117	7.6	28.0	2#36"
118	No Flow (stub for future)		18"
119	7.6	28.0	36"
120	7.6	28.0	36"
121	25.7	67.2	48"
122	7.4	15.8	24"
123	14.8	31.6	30"
124	1.5	3.1	18"
125	59.2	118.3	54"
126	60.0	120.7	54"
127	102.6	211.4	54"
128	162.6	332.0	78"
129	162.6	332.0	78"
130	7.8	14.9	24"
131	7.8	14.9	24"
132	15.6	29.8	30"
133	6.2	11.7	18"
134	21.8	41.5	30"
135	28.0	53.2	36"
136	11.4	34.1	36"
137	9.3	17.4	24"
138	1.6	5.4	18"
139	1.2	2.9	18"
140	0.6	1.1	18"
141	2.4	5.2	18"

LEGEND - STORMWATER

- A — BASIN ID
- # — DESIGN POINT
- # — PIPE ID
- DRAINAGE BASIN BOUNDARY
- xxxx — EXISTING CONTOUR
- xxxx — PROPOSED CONTOUR
- SURFACE FLOW DIRECTION

LEGEND - MISC

- RIGHT-OF-WAY
- LOT LINE
- (E) SANITARY MAIN, MH
- (E) WATER MAIN, VALVE, FH
- (P) SANITARY MAIN, MH
- (P) SANITARY FORCE MAIN
- (P) STORM SEWER, INLET, MH
- (P) WATER MAIN, VALVE, FH
- LOT NUMBER (OR TRACT)

GENERAL NOTES

1. EXISTING TOPOGRAPHY PROVIDED BY BEAR CREEK SURVEYING VIA AERIAL PHOTOGRAPHY.
2. CONTOURS SHOWN ON THIS MAP REFLECT A 2' CONTOUR INTERVAL.
3. AERIAL IMAGERY NOT SHOWN FOR CLARITY.
4. ROADS ARE CLASSIFIED AS EITHER PUBLIC "[PUB]" OR PRIVATE "[PVT]" AS SHOWN ON PLAN.
5. REFER TO SHEET D2 FOR OVERALL BASIN MAP.
6. ALL STORM SEWER LOCATED WITHIN PUBLIC RIGHT-OF-WAY IS PUBLIC. ALL OTHER STORM SEWER IS PRIVATE.

NORTH

0 30 60 120

PRC ENGINEERING
1560 BROADWAY STREET, SUITE 114
COLORADO SPRINGS, CO 80904
PRC ENGINEERING

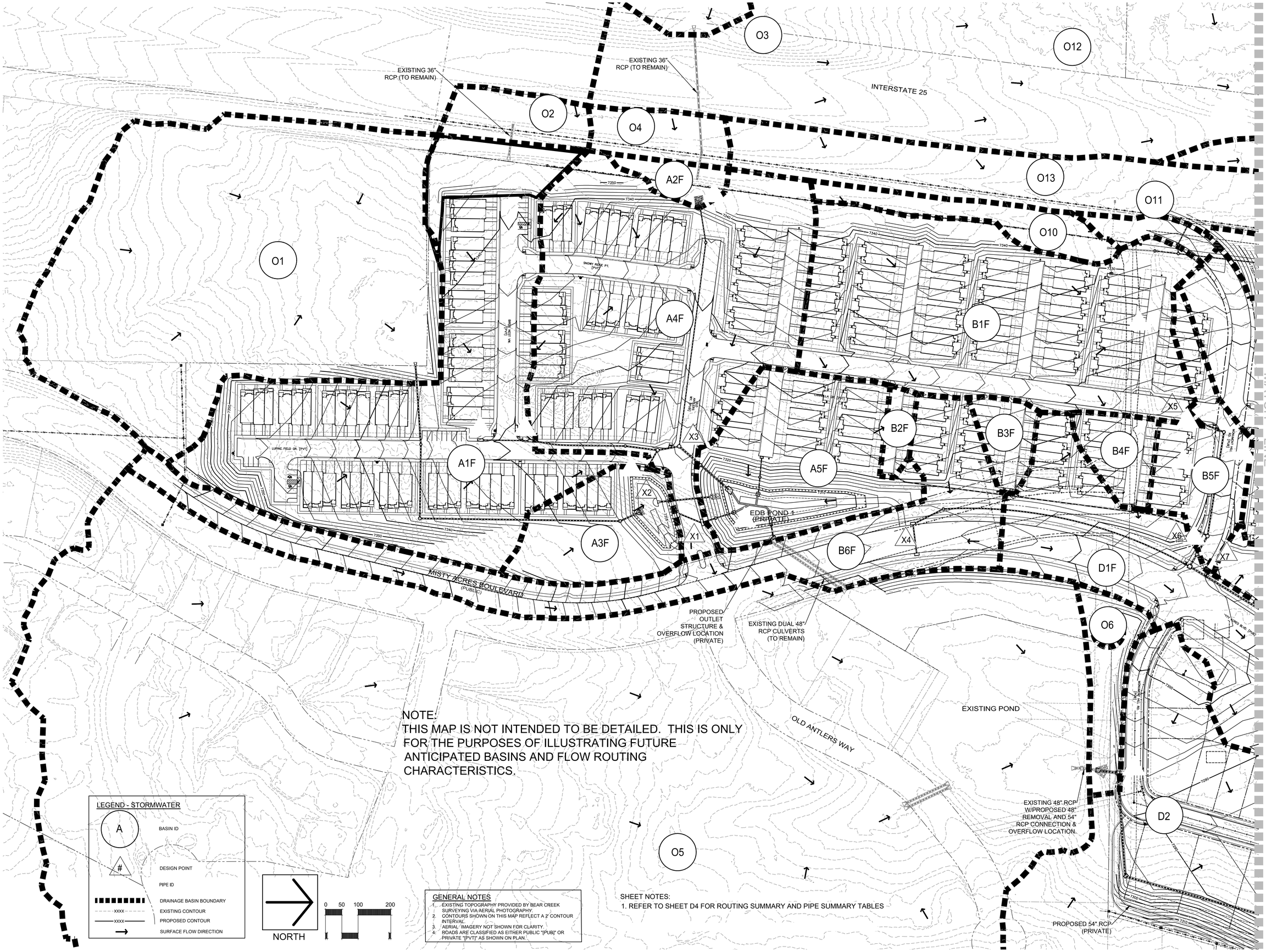
MONUMENT RIDGE EAST - FIL. NO. 1

TOWN OF MONUMENT
EL PASO COUNTY, COLORADO

◆ DRAINAGE PLAN
INTERIM CONDITIONS - NORTH

issued 5/10/26

D4
sheet number



NOTE:
THIS MAP IS NOT INTENDED TO BE DETAILED. THIS IS ONLY FOR THE PURPOSES OF ILLUSTRATING FUTURE ANTICIPATED BASINS AND FLOW ROUTING CHARACTERISTICS.

LEGEND - STORMWATER

- A — BASIN ID
- # — DESIGN POINT
- PIPE ID
- DRAINAGE BASIN BOUNDARY
- xxxx — EXISTING CONTOUR
- xxxx — PROPOSED CONTOUR
- SURFACE FLOW DIRECTION

NORTH

0 50 100 200

GENERAL NOTES
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SHEET NOTES:
1. REFER TO SHEET D4 FOR ROUTING SUMMARY AND PIPE SUMMARY TABLES

PRC ENGINEERING
1385 KELLY JOHNSON BLVD, SUITE 114
COLORADO SPRINGS, CO 80904
PRC ENGINEERING

MONUMENT RIDGE EAST

TOWN OF MONUMENT
EL PASO COUNTY, COLORADO

◆ DRAINAGE PLAN
FUTURE CONDITIONS - SOUTH

issued 6/24/25

D5
sheet number



ROUTING SUMMARY

		Flow	
Design Point	***Contributing Basins***	Q_{10}	Q_{100}
X1	A4F	**17.4**	**29.0**
X2	O1,A3F	**7.9**	**21.2**
X3	A2F,O2,O3,O4	**14.6**	**26.5**
X4	B6F	**12.5**	**21.0**
X5	B1F	**17.9**	**30.3**
X6	B2F,B3F,B4F	**4.2**	**7.0**
X7	B5F	**4.7**	**7.5**
X8	B1F,B2F,B3F,B4F,B5F, B6F,B7F,B8F,B9F	**48.1**	**80.0**
X9	D1F	**24.3**	**45.0**
X10	D2F	**2.1**	**3.8**

NOTE:
THIS MAP IS NOT INTENDED TO BE DETAILED. THIS IS ONLY FOR THE PURPOSES OF ILLUSTRATING FUTURE ANTICIPATED BASINS AND FLOW ROUTING CHARACTERISTICS.

LEGEND - STORMWATER

- A — BASIN ID
- # — DESIGN POINT
- PIPE ID
- DRAINAGE BASIN BOUNDARY
- XXXX — EXISTING CONTOUR
- XXXX — PROPOSED CONTOUR
- SURFACE FLOW DIRECTION

GENERAL NOTES

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4. ROADS ARE CLASSIFIED AS EITHER PUBLIC "(PUB)" OR PRIVATE "(PVT)" AS SHOWN ON PLAN.

NORTH

0 50 100 200

PRC ENGINEERING
1560 BROADWAY STREET, SUITE 114
COLORADO SPRINGS, CO 80904
PRC ENGINEERING

MONUMENT RIDGE EAST

TOWN OF MONUMENT
EL PASO COUNTY, COLORADO

◆ DRAINAGE PLAN
FUTURE CONDITIONS - NORTH

issued	6/24/25

D6
sheet number