

PREPARED FOR:

IVINS CITY
UTAH

PREPARED BY:

BOWEN COLLINS
& ASSOCIATES

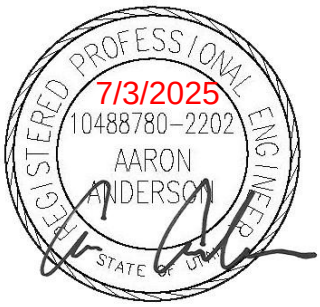
IVINS CITY

JULY 2025

SEWER MASTER PLAN

SEWER
MASTER PLAN

July 2025



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EXECUTIVE SUMMARY

INTRODUCTION

Ivins City (City) has contracted the services of Bowen Collins & Associates, Inc. (BC&A) to complete a Sewer System Master Plan (master plan). The purpose of this study is to evaluate the existing sewer collection system, project future wastewater production as a result of growth, and identify improvements that will resolve existing and projected future deficiencies in the wastewater collection system throughout the City's service area.

SERVICE AREA

The City's existing service area is shown in Figure ES-1 and encompasses all of Ivins City. The system is composed of over 350,000 feet of sewer collection piping and 1 lift station.

PROJECTED CONNECTIONS AND GROWTH

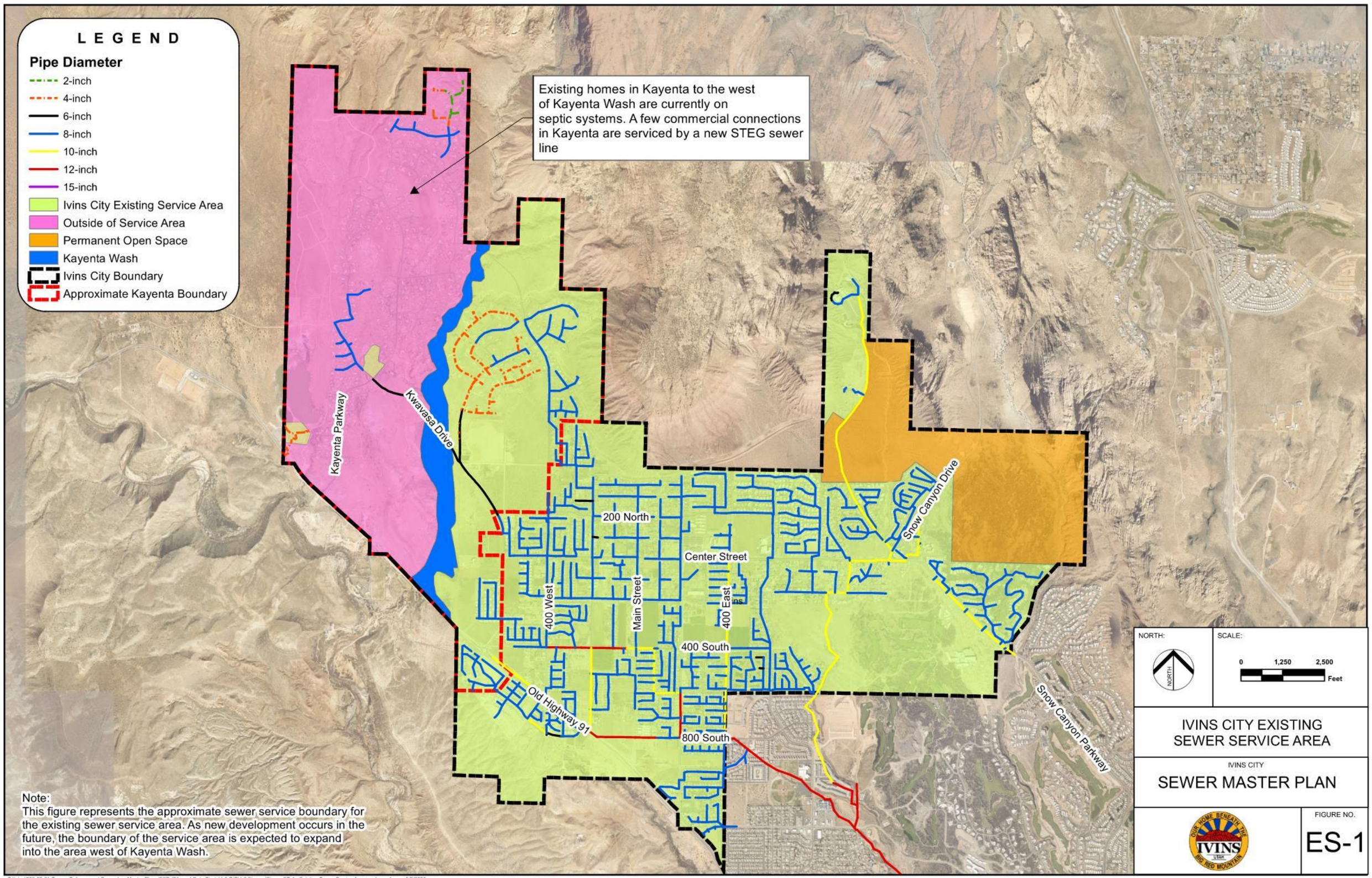
Growth projections for the City service area were developed through coordination with Ivins City staff. Table ES-1 summarizes the estimated growth of Equivalent Residential Units (ERU) in the Ivins City service area through buildout.

Table ES-1
Estimated Buildout ERUs for Ivins City Service Area

Year	Total Residential ERUs	Number of Residential ERUs in Sewer Service Area[1]	Number of Non-Residential ERUs	Total Sewer Service ERUs
2024	4,616	4,235	393	4,628
2025	4,936	4,395	537	4,932
2026	5,096	4,555	681	5,236
2027	5,256	4,715	825	5,540
2028	5,416	4,875	969	5,844
2029	5,576	5,035	1113	6,148
2030	5,736	5,195	1257	6,452
2031	5,896	5,355	1401	6,756
2032	6,056	5,515	1545	7,060
2033	6,216	5,675	1689	7,364
2034	6,528	5,835	1833	7,668
2040	7,309	7,085	2,185	9,270
2045	8,090	7,978	2,433	10,411
2050	8,871	8,871	2,680	11,551[2]

[1] Housing Units in Sewer Service Area are those homes which are currently connected to the sewer collection system. According to Ivins City GIS, there are about 381 homes that are assumed to be on septic tanks. It is assumed that all future connections will be connected to the sewer collection system. At buildout (2050) it has been assumed that these 381 homes will be connected to the sewer collection system.

[2] Long-term growth projections include 500 units from the Anasazi Valley Annexation Area.



S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure ES-1 - Existing Sewer Service Area.mxd : aanderson 5/8/2025

WASTEWATER PRODUCTION PROJECTIONS

Table ES-2 summarizes the average daily sewer flow per ERU used for this master plan. This estimate was developed through an evaluation of historical water use and sewer flow data in Ivins City. Table ES-3 provides a summary of the projected wastewater production for the City service area through buildout.

Table ES-2
Recommended Level of Service per ERU

Flow Component	Flow (gpd)
Domestic Flow	159
Infiltration	16
Total	***175***

Table ES-3
Summary of Projected Wastewater Production

Year	Residential ERUs	Non-Residential ERUs	Total ERUs	Estimated Average Daily Domestic Wastewater Flow (gal/day)	Estimated Daily Groundwater Infiltration (gal/day)	Total Daily Wastewater Flow (gal/day)
2024	4,235	393	4,628	735,852	74,048	809,900
2025	4,395	537	4,932	784,188	78,912	863,100
2026	4,555	681	5,236	832,524	83,776	916,300
2027	4,715	825	5,540	880,860	88,640	969,500
2028	4,875	969	5,844	929,196	93,504	1,022,700
2029	5,035	1113	6,148	977,532	98,368	1,075,900
2030	5,195	1257	6,452	1,025,868	103,232	1,129,100
2031	5,355	1401	6,756	1,074,204	108,096	1,182,300
2032	5,515	1545	7,060	1,122,540	112,960	1,235,500
2033	5,675	1689	7,364	1,170,876	117,824	1,288,700
2034	5,835	1833	7,668	1,219,212	122,688	1,341,900
2040	7,085	2,185	9,270	1,473,930	148,320	1,622,250
2045	7,978	2,433	10,411	1,655,349	166,576	1,821,925
2050	8,871	2,680	11,551	1,836,609	184,816	2,021,425

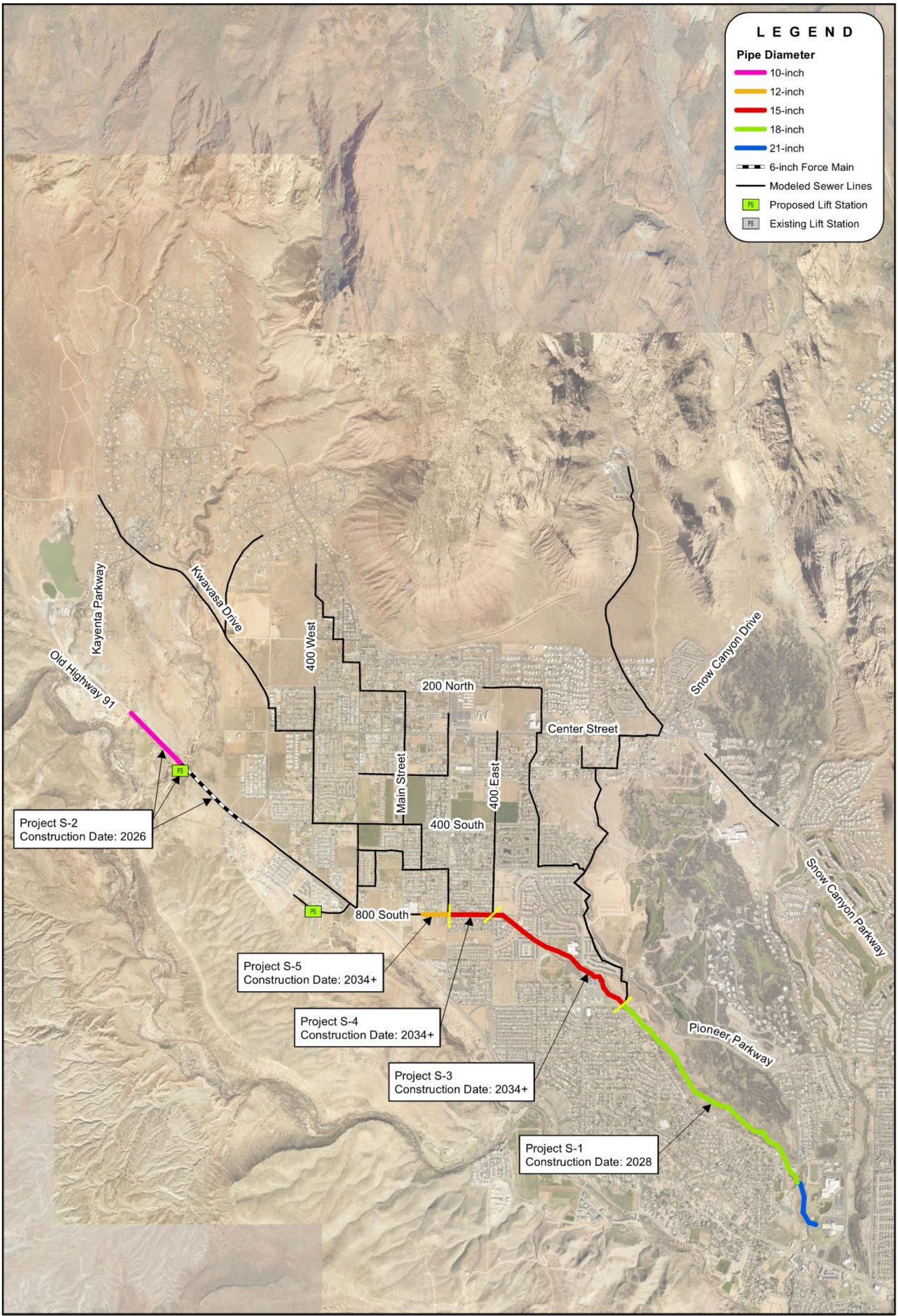
CAPITAL IMPROVEMENTS PLAN

With the aid of a hydraulic computer model of the Ivins City sewer collection system, projects were identified to meet the growing sewer collection needs of the system. The recommended improvements to be constructed over the next 10 years are shown in Table ES-4. The location of the recommended projects is shown in Figures ES-2.

Table ES-4
10-Year Sewer System Improvements

Project	Description	Estimated 2025 Cost	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total Inflated Cost
S-1 A	Lower Tuacahn Wash Sewer Line Replacement Project (Reach A)	$2,245,000				$2,453,000							$2,453,000
S-1 B	Lower Tuacahn Wash Sewer Line Replacement Project (Reach B)	$540,000				$590,000							$590,000
S-2 A	Old Highway 91 Sewer Line Extension (Reach A)	$397,000			$421,000								$421,000
S-2 B	Old Highway 91 Sewer Line Extension (Reach B, Lift station)	$1,098,000			$1,165,000								$1,165,000
S-2 C	Old Highway 91 Sewer Line Extension (Reach C, Pressure Pipe)	$249,000			$264,000								$264,000
PL	Update Master Plan and Associated Analyses						$100,000					$110,000	$210,000
RR	Ongoing Rehab and Replacement	-	$450,000	$450,000	$450,000	$450,000	$450,000	$450,000	$450,000	$450,000	$450,000	$450,000	$4,500,000
	Total Improvements	**$4,529,000**	**$450,000**	**$450,000**	**$2,300,000**	**$3,493,000**	**$550,000**	**$450,000**	**$450,000**	**$450,000**	**$450,000**	**$560,000**	**$9,603,000**

[1]A 3% annual inflation rate has been applied to future project costs.



IVINS CITY

SEWER MASTER PLAN

RECOMMENDED SYSTEM IMPROVEMENTS THROUGH BUILDOUT

NORTH:

SCALE: 0 1,250 2,500 Feet

FIGURE NO. ES-2

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure ES2 - Recommended Improvement Projects (11 x 17)A.mxd aanderson 5/8/2025

CHAPTER 1
INTRODUCTION

INTRODUCTION

Ivins City (city) has retained Bowen Collins & Associates (BC&A) to prepare a master plan for the wastewater collection system. The purpose of this sewer master plan report is to evaluate the existing sewer collection system, project future wastewater production as a result of growth, and identify improvements that will resolve existing and projected future deficiencies in the wastewater collection system throughout the city's service area.

The master plan is a working document. The recommended improvements identified in this report are based on the assumption that development will occur in a certain manner. If future growth or development patterns change significantly from those assumed and documented in this report, recommendations may need to be revised. The status of development and an update to the master plan should be reviewed and carried out every three to five years.

SCOPE OF SERVICES

The general scope of this project involved a thorough analysis of Ivins City's sewer collection system and its ability to meet present and future wastewater collection needs. As part of the Sewer Master Plan, BC&A completed the following tasks:

- **Task 1:** Collect and review data needed to develop the master plan.
- **Task 2:** Utilize city-provided land use and population growth projections to forecast future system growth.
- **Task 3:** Develop a hydraulic computer model of the city's sewer collection system to evaluate existing and projected future system deficiencies. This included calibrating the model using available flow data.
- **Task 4:** Identify existing and future operating deficiencies.
- **Task 5:** Evaluate alternative improvements for resolving deficiencies identified in Tasks 4. This included evaluating alternatives such as sewer diversions.
- **Task 6:** Identified a set of recommended system improvements and developed a capital facilities plan incorporating all required improvements identified for the collection system.
- **Task 7:** Documented results in this master plan report.

PROJECT STAFF

The project work was performed by the BC&A team members listed below. Team members' roles on the project are also listed. The project was completed in BC&A's St. George, Utah office. Questions may be addressed to Aaron Anderson, Project Manager at (435) 656-3299.

Keith Larson	Principal-In-Charge
Aaron Anderson	Project Manager
Wyatt Andersen	Project Engineer
Mike Hilbert	Technical Writer

IVINS CITY STAFF

Ivins City staff worked closely with BC&A personnel in collecting data associated with this master plan. The following city personnel were influential in the completion of this master plan:

Chuck Gillette	Public Works Director/City Engineer
Tom Jorgensen	Assistant Public Works Director of Administration

CHAPTER 2
EXISTING SYSTEM FACILITIES

INTRODUCTION

As part of this Master Plan, BC&A has assembled an inventory of existing infrastructure within the Ivins City sewer collection system. The purpose of this chapter is to present a summary of the city's existing sewer collection system that can be used as a reference for city personnel or future studies.

SERVICE AREA

Ivins City is located approximately 8 miles northwest of the City of St. George to the south of Snow Canyon State Park. Figure 2-1 displays the municipal boundary for Ivins City as well as the current sewer service area. As shown in Figure 2-1, Ivins City provides sewer collection service for most of its residents, but does not currently provide service for the majority of the area known as Kayenta. Kayenta is a low density, master planned housing development on the west side of Ivins. The majority of homes within Kayenta currently use individual septic systems to treat wastewater. However, there are a few areas in Kayenta that are connected to the sewer collection system using a septic tank effluent gravity (STEG) or septic tank effluent pump (STEP) system. Unlike a conventional septic system which discharges septic tank effluent into a leech field, the STEG/STEP system discharges septic tank effluent into the sewer collection system.

The majority of wastewater collected in Ivins is conveyed in three sewer trunk lines that connect into the St. George sewer collection system (a very small portion of flow from an area in the south of Ivins flows directly into the Santa Clara sewer collection system near 400 E and Pioneer Parkway). Wastewater from Ivins is treated at the St. George Regional Water Reclamation Facility (SGRWRF) located at the south end of St. George City. The regional plant treats wastewater from Ivins, St. George, Santa Clara, and Washington City and currently treats approximately 13 million gallons per day (MGD). The treatment plant is nearing the completion of a major expansion project and will have a treatment capacity of 25.4 MGD.

TOPOGRAPHY

Ivins City is located at the base of a large red rock mountain range. The city generally slopes from north to south toward the Santa Clara River. Most of the city collection system flows by gravity with the exception of one small area to the southwest which utilizes a lift station.

COLLECTION SYSTEM

The components of the Ivins City sewer collection system are summarized in the following sections.

Sewer Collection Pipes

There are over 359,000 feet (68 miles) of sewer collection pipe and more than 1,400 manholes in the sewer system that are cataloged in the city's GIS database. Table 2-1 contains a summary of the sewer pipes that currently make up the Ivins City sewer collection system. As can be seen in the table, over 80 percent of the pipe in the system is 8 inches in diameter or smaller. This represents the vast network of small collector pipes in neighborhoods throughout the city. The majority of collection pipes are made of PVC.

LEGEND

Pipe Diameter

- 2-inch
- 4-inch
- 6-inch
- 8-inch
- 10-inch
- 12-inch
- 15-inch
- Ivins City Existing Service Area
- Outside of Service Area
- Permanent Open Space
- Kayenta Wash
- Ivins City Boundary
- Approximate Kayenta Boundary

Existing homes in Kayenta to the west of Kayenta Wash are currently on septic systems. A few commercial connections in Kayenta are serviced by a new STEG sewer line

Kayenta Parkway

Kwavasa Drive

200 North

Center Street

400 West

Main Street

400 East

400 South

800 South

Old Highway 91

Snow Canyon Drive

Snow Canyon Parkway

Note:
This figure represents the approximate sewer service boundary for the existing sewer service area. As new development occurs in the future, the boundary of the service area is expected to expand into the area west of Kayenta Wash.

NORTH:

SCALE: 0 1,250 2,500 Feet

IVINS CITY EXISTING SEWER SERVICE AREA

IVINS CITY

SEWER MASTER PLAN

FIGURE NO. 2-1

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 2-1 - Existing Sewer Service Area.mxd aanderson 9/30/2023

Table 2-1
Sewer Collection System Sizes and Lengths

Diameter	Length (ft)	Length (mi)	Percentage
STEP/STEG Sewer			
2	647	0.1	0.2%
4	10,798	2.0	3.0%
Gravity Sewer			
6	7,858	1.5	2.2%
8*	277,671	52.6	77.2%
10	38,795	7.3	10.8%
12**	18,544	3.5	5.2%
15	5,157	1.0	1.4%
Total	**359,470**	**68.1**	**100.0%**

*Pipes without size information were assumed to be 8-inch.

**Includes pipes north of Pioneer Parkway in Santa Clara which are currently maintained by Ivins City, but does not include the piping south of Pioneer Parkway that runs along Tuacahn Wash.

Sewer Lift Stations

There is one sewer lift station in the Ivins City sewer collection system. The facility is located at the intersection of Earl Dr. and 400 W. Currently, this lift station collects a very small amount of flow from a few connections. However, it is anticipated that the lift station will see more use in the near future as development occurs in this area. Table 2-2 provides a summary of the lift station characteristics.

Table 2-2
Sewer Lift Station Summary

Name	Address	Design Capacity (gpm)	Wet Well Volume (cf)	Power Per Pump (HP)	No. Pumps
Earl Dr. Lift Station	400 W Earl Dr.	250	900	5	2

CHAPTER 3
FUTURE GROWTH AND WASTEWATER FLOW PROJECTIONS

INTRODUCTION

A key aspect of the master planning process is identifying the current utilization of existing sewer collection facilities and developing projections for future system utilization. Growth projections have a direct impact on important components of this master plan and other city planning studies. The purpose of this chapter is to evaluate current wastewater flow trends, estimate future growth, and project future wastewater production within the city service area.

METHODOLOGY

There are several methods that can be used to estimate future wastewater production. The methodology used in this study is as follows:

1. Define the service area.
2. Estimate daily sewer flows per Equivalent Residential Unit (ERU) using historical culinary water usage data and metered wastewater flows. This includes estimation of infiltration and inflow.
3. Project the growth of the number of sewer service connections for the study area through buildout based on the historical growth trends and current growth projections developed by Ivins City.
4. Convert projections of ERU growth to future wastewater production based on historical wastewater production trends.
5. Consider the effect of State Water Conservation Goals on future demands.

Each step of this process is summarized in the sections that follow.

SERVICE AREA

The current Ivins City sewer collection system service area was previously shown in Figure 2-1 of Chapter 2. The service area encompasses the majority of homes within the main section of the city, but only extends to a small number of commercial connections on the west side of Kayenta Wash. It is anticipated that all new development in Ivins will be connected to the sewer collection system (including new development in Kayenta), and it is the intention of the city to eventually provide sewer collection services to all residents within the city's municipal boundary.

EXISTING SEWER SERVICE AREA POPULATION

As previously discussed, a large portion of Kayenta is currently on septic systems and does not contribute flow to the sewer collection system. For the purposes of hydraulic modeling, only connections that are contributing flow to the sewer collection system are of importance.

Ivins maintains an up-to-date GIS database which tracks the development status of existing lots within the city. This data was used in conjunction with GIS shapefiles of the existing sewer system to identify the number of existing connections to the city's sewer collection system as shown in Figure 3-1. Table 3-1 contains a summary of the number and type of existing connections to the wastewater collection system.

Table 3-1
Ivins City Existing Sewer Service Connections

Connection Type	Number of Connections
Single Family Residence	4,222
Multi-Family Housing	125
Commercial/Industrial/Institutional	81
TOTAL	**4,428**

The most recent U.S. Census from 2020 established the average number of persons per household in Ivins to be 2.51. Based on the number of single family and multi-family units shown in Table 3-1, the current estimated residential sewer service area population in Ivins is approximately 10,910 people. Based on the city's current GIS database, there are currently a total of 5,009 sewer ERUs in the system. Of this total amount, 381 ERUs are on septic systems and 4,628 are connected to sewer service.

EXISTING DAILY WASTEWATER FLOWS

Utah Administrative Code R317-3 titled, "Design Requirements for Wastewater Collection, Treatment and Disposal Systems" provides guidelines for estimating per capita wastewater production for the purpose of sizing sewer collection and treatment systems. The code states that, *"New sewer systems shall be designed on the basis of an annual average daily rate of flow of 100 gallons per capita per day unless there are data to indicate otherwise. The per capita rate of flow includes an allowance for infiltration/inflow*".

The design guidelines presented in UAC R317-3 are typically conservative when compared to actual sewer flows in a collection system. Since water use and sewer flow data is available from the city, sewer flow estimates specific to the Ivins City system were developed and used for this master plan. Two sources of data were used to determine estimated flows per connection within the Ivins City service area: metered sewer flows leaving the Ivins City system into the St. George system and culinary water meter billing data.

Domestic Wastewater Flow

Domestic wastewater is categorized as the flow that intentionally enters the collection system after being used in a home, business, etc. Ideally, domestic wastewater should make up the majority of flow in the sewer collection system. Wastewater flow from individual homes is not metered, but it can be estimated by reviewing metered culinary water use during winter months. During winter months, there is typically little to no water being used outdoors for irrigation, so the majority of water used during these months is used indoors for showers, toilets, dishwashers, washing machines, and other appliances, all of which contribute to sewer flows. Billing data for the Ivins City culinary water system from 2024 was evaluated to determine an estimate of the average indoor water usage per connection. From previous planning experience, the quantity of indoor water use which ends up in the sewer collection system is typically between 90% - 95% and is categorized as "non-consumptive" use. The remaining portion of indoor water use is assumed to be "consumptive" and does not immediately flow into the sewer system. Table 3-2 provides a summary of the meter data from Ivins and presents an estimate of the average daily wastewater flow from an average residential connection.

LEGEND

- ExistingUsersUpdate
- Existing Sewer Lines
- Current Sewer Service Area
- Approximate Kayenta Boundary
- City Boundary

Kayenta Parkway
Kwavasa Drive
Old Highway 91
200 North
Center Street
Main St.
400 East
400 West
400 South
800 South
Snow Canyon Drive
Snow Canyon Parkway

NORTH:

SCALE: 0 1,250 2,500 Feet

IVINS CITY EXISTING SEWER SYSTEM USERS

IVINS CITY
SEWER MASTER PLAN

FIGURE NO.
3-1

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 3-1 - Existing Sewer Service Area.mxd aanderson 4/25/2025

Table 3-2
Summary of Metered Winter Culinary Water Usage from 2024

Month	Meters Sampled	Total Metered Use (kgal/month)	Average Daily Use per Connection (gal/day)
Jan-24	3475	17823	165.4
Feb-24	3523	17859	181.0
Dec-24	3625	20437	181.9
		Average	**176.1**
		Estimated Non-Consumptive Use (90% of Indoor Use)	**159**

[1] Sample set included meters with a usage value greater than zero for the respective month.

It should be emphasized that the data provided in Table 3-2 is the metered winter water usage for *residential* service connections. The purpose of this distinction is to determine an estimated flow for one Equivalent Residential Unit, or ERU. Using the ERU as a unit of measurement in planning allows for the standardization of different types of connections, i.e. converting commercial or institutional connections into an equivalent residential unit. This method simplifies the planning process and provides a means of converting a non-residential population into an equivalent residential population. For planning purposes, existing and future wastewater production will be presented in terms of ERUs.

As shown in Table 3-2, the estimated average daily non-consumptive water use per residential connection is estimated to be **159 gallons per day**, which equates to a domestic wastewater flow of approximately 63.3 gallons per capita per day.

Infiltration

Beyond domestic wastewater production, the second component of wastewater flow that must be considered is infiltration. Infiltration is defined as water that enters into the sewer system which is not directly or indirectly related to either domestic wastewater or to a specific storm event. This flow can enter the collection system as a result of open pipe joints, cracks in pipes, pipes poorly connected at manholes, leaky lateral connections, pipe damage from roots, etc. Infiltration is generally a function of the groundwater level, which typically fluctuates depending on climate and season. While infiltration rates will change seasonally, they generally remain constant during a single 24-hour period. Temporary increases in the amount of water that enters the system after a storm because of an increase in ground water is considered inflow, which is discussed in a later section.

Factors that can affect infiltration include pipe age, material, and the number and condition of lateral connections. Age can contribute to infiltration in two ways. First, older pipes are more likely to be in poor condition. Cracks, separated joints, and other defects can contribute significantly to increased infiltration. Second, older pipes do not have the benefit of improvements in construction techniques that have occurred over time. Gasketed pipe joints, rubber boots at manholes and laterals, and other improvements have contributed greatly to reducing system infiltration.

Due to the many factors that influence infiltration rates, it can be a difficult aspect of sewer flow to accurately quantify. Temporary flow monitoring at various locations in the system can help identify

areas of excessive groundwater infiltration. For this master plan, infiltration estimates were made by first reviewing sewer flow measurement data provided by the City of St. George at the Snow Canyon Middle School meter. This location is where the majority of flow from Ivins City and a portion of flow from Santa Clara enter the St. George City sewer collection system.

Because this connection point measures flows from both Ivins and Santa Clara, it is necessary to account for the Santa Clara flows in the system when looking at overall estimates for infiltration. Through coordination with Santa Clara City, Table 3-3 shows the estimated ERUs that currently contribute to the flows measured at Snow Canyon Middle School. As shown in the table, the estimated average daily domestic sewer flow (not including infiltration) from Ivins and Santa Clara is 912,000 gallons per day.

Table 3-3
Summary of Estimated Flow Contributing to Measured Flows at Snow Canyon Middle School

City	Sewer ERUs	Average Daily Winter Water Use per ERU (gpd)	Estimated Wastewater Flow per ERU (gpd)	Estimated Total Domestic Daily Flow (gpd)
Ivins	4,479	176	159	712,161
Santa Clara	1,125	197	178	200,250
Total				**912,411**

Table 3-4 provides a summary of recent sewer flow data from the Snow Canyon Middle School meter provided by the City of St. George. As shown in Table 3-4, the maximum measured average daily from through the meter is about 848,000 gallons per day.

Table 3-4
Summary of Sewer Flow Data from S.C. Middle School Meter

Month	Average Flow (gpm)	Peak Flow (gpm)	Average Daily Flow (gpd)	Peak to Average Ratio
March, 2024	568	1,103	817,927.8	1.94
April, 2024	588	1,065	847,360.8	1.81
May, 2024	556	941	800,400.1	1.69
June, 2024	554	884	797,731.1	1.60
July, 2024	545	849	784,094.0	1.56
August, 2024	530	1,008	762,928.1	1.90
September, 2024	513	869	738,867.6	1.69
October, 2024	547	875	787,148.5	1.60
November, 2024	534	886	768,338.5	1.66
December, 2024	532	839	766,014.1	1.58
January, 2025	531	930	764,794.3	1.75
February, 2025	560	938	806,535.6	1.67

The measured flow at the Snow Canyon High School meter is approximately 60,000 gallons per day less than the estimated domestic flow rate calculated from indoor water use records. The difference in flows could be attributed to multiple factors, including:

- Occupancy rate of each city at the time of recording
- Exfiltration from the collection system
- Errors in data

It is unknown which of these item(s) is the cause of this discrepancy, but it is most likely impacted in some way by occupancy rates within each city.

Based on the uncertainty with available data, BC&A recommends the following assumptions be used for planning:

1. Use the assumed domestic flow rate per ERU for each respective city shown in Table 3-3.
2. Assume 10% additional flow in the system attributed to infiltration. This assumption is based on typical infiltration rates that occur in most sewer collection systems.

Based on these recommendations, Table 3-5 summarizes the recommended planning values per ERU for Ivins and Santa Clara.

Table 3-5
Summary of Recommended Sewer Flows per ERU for Planning

City	Estimated Domestic Wastewater Flow per ERU (gpd)	Estimated Infiltration per ERU	Total Estimated Sewer Flow per ERU (gpd)
Ivins	159	16	175
Santa Clara	178	16	194

Inflow

The third and final component of wastewater flow that should be considered for wastewater master planning is inflow. Inflow is defined as any water that enters the sewer system which is directly or indirectly related to a storm event. It can come directly from storm water runoff through improper connections to the storm water system, missing or leaky manhole covers, roof drains connected to the system, etc. Storm events can also cause the ground water level to raise temporarily, which can cause an increase in flow in the sewer system through the same mechanisms that result in groundwater infiltration during dry weather (cracked pipes, leaky laterals, etc.). Any temporary increase in sewer flow due to raising levels of ground water as a result of rain is considered inflow.

Figure 3-2 shows the measured sewer flows through the Snow Canyon H.S. meter for the month of September, 2014. There was an intense storm event which occurred on September 9 which resulted in 3.11 inches of rain over an 8 hour period. A similar storm occurred later that same month.

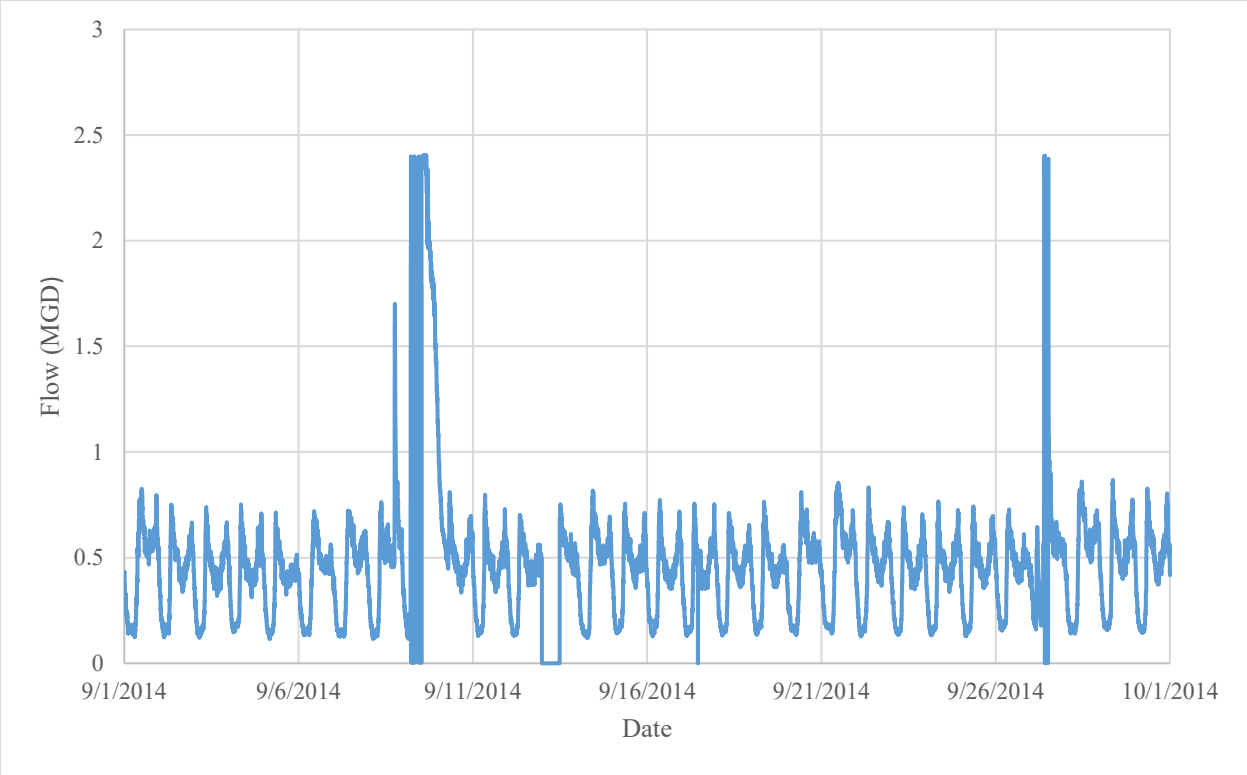


Figure 3-2: Inflow Events from September, 2014 at Snow Canyon H.S. Meter

As shown in Figure 3-2, these rainfall events created an immense spike in flow through the meter. The peak flows measured well over 3 times the typical dry weather peak daily flow. It should be noted that a section of the sewer trunk line just upstream of the meter runs through Tuacahn Wash. This reach of pipe was known to be susceptible to inflow and was particularly vulnerable if the dam near the bottom of the wash began to pond. The city recently carried out improvements to this section of the sewer line to reduce the risk of inflow during storm events. However, the system is still susceptible to inflow events during heavy storms.

It is very difficult to accurately estimate the magnitude and distribution of inflow events for individual pipes without a significant amount of flow monitoring and rain gauge data. As a result, inflow has not been included directly in projected flows, but it will be accounted for in the evaluation of collection system capacity by reserving a specified portion of pipe capacity for inflow events. The collection system evaluation criteria are discussed in detail in Chapter 4.

PROJECTING SERVICE AREA GROWTH

Having developed estimates for wastewater production rates for the existing system, it is now possible to project the increase in sewer flow as a function of projected growth in the city. Growth projections are outlined in the following sections.

Historical Growth Trends

Ivins City has witnessed noteworthy growth over the last 30 years. What was once a small, rural community in the 1980's has quickly grown into a significant suburban development. Table 3-4 shown below provides a summary of historical growth as provided by the U.S. Census Bureau.

Table 3-6
Historical Growth Data[1]

Year	State of Utah	% Growth	Washington County	% Growth	Ivins City	% Growth
1950	688,862		9,836		95	
1960	890,627	29.3%	10,271	4.4%	77	-18.9%
1970	1,059,273	18.9%	13,669	33.1%	137	77.9%
1980	1,461,037	37.9%	26,065	90.7%	600	338.0%
1990	1,722,850	17.9%	48,560	86.3%	1,630	171.7%
2000	2,246,553	30.4%	90,354	86.1%	4,450	173.0%
2010	2,763,885	23.0%	138,115	52.9%	6,753	51.8%
2020	3,271,616	18.4%	180,279	30.5%	8,958	32.7%

[1] Data from U.S. Census Bureau

As shown in Table 3-4, aggressive growth began in Ivins starting in the 1980's and has continued to the present day. It is important to note that the average household size has seen a significant reduction in recent years. The 2000 Census reported an average household size for Ivins City of 3.1 persons per household, while the 2010 Census and 2020 Census report an average household size of 2.78 and 2.51 persons per household, respectively. This is likely a function of a larger number of retirees moving to Ivins. Ivins City is also home to a number of vacation/second homes that are only occupied for a portion of the year. However, for planning purposes, all existing and future sewer system connections will be assumed as active.

Existing Development and Land Use

Figure 3-4 displays the general land use map adopted by Ivins City. Table 3-5 provides a summary of the different land use types within the city.

L E G E N D

Landuse

- CHURCH
- COMM COMMUNITY
- COMM NEIGH
- COMM PROFESSIONAL
- COMM RESORT
- COMM W LIGHT MFG
- HDR
- LDR
- MDR
- OS
- PARK
- RESORT REC
- RMU
- SCHOOL
- City Boundary

NORTH:

NORTH

SCALE:

0 1,250 2,500 Feet

IVINS CITY LAND USE

IVINS CITY

SEWER MASTER PLAN

FIGURE NO.

3-3

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 3-4 - Ivins City Land Use.mxd aanderson 4/26/2025

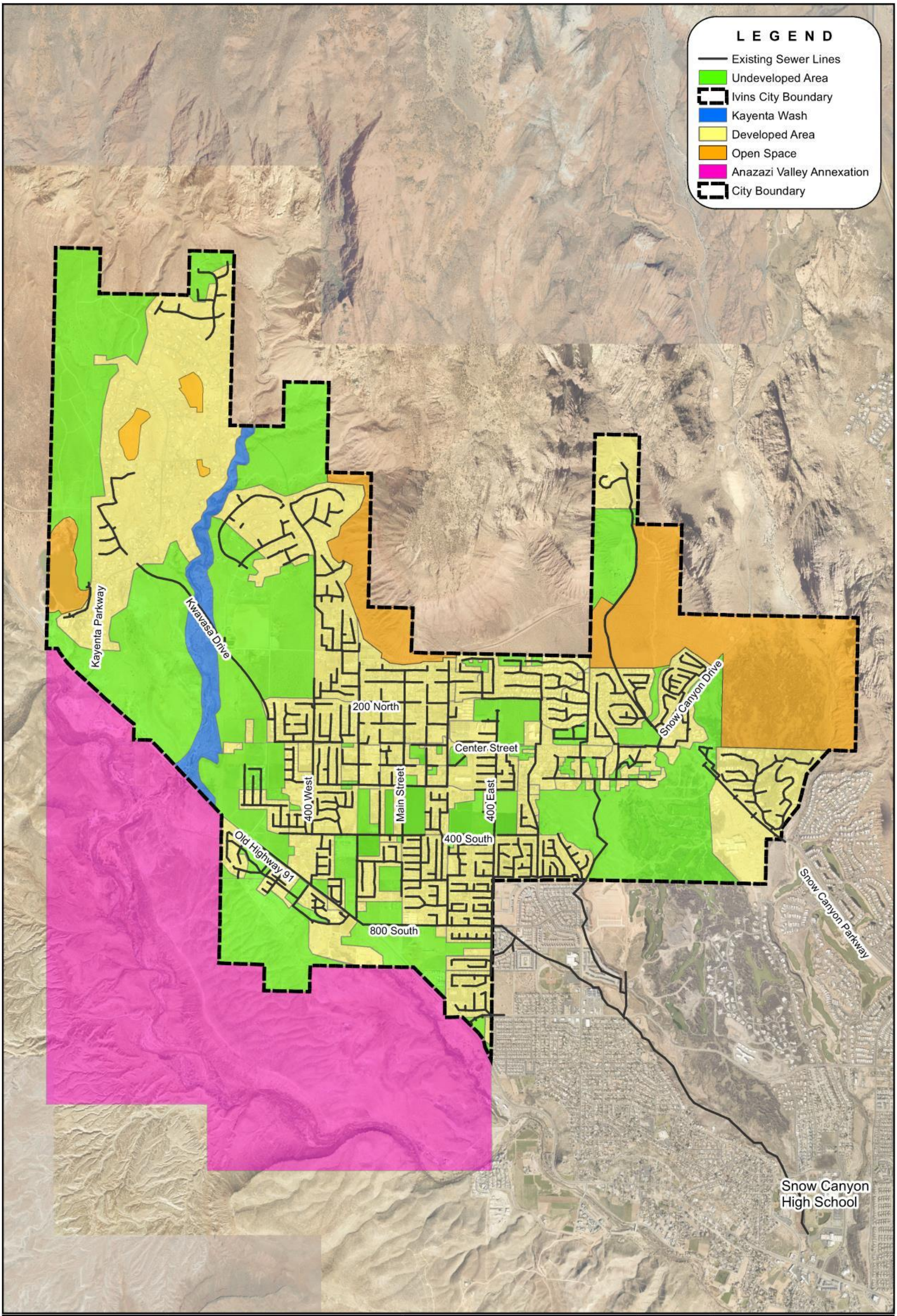
Table 3-7
Summary of Land Use Types

Land Type	Total Acres	Percentage of Total Area
Low Density Residential	2,969	49.49%
Medium Density Residential	1,085	18.09%
High Density Residential	444	7.40%
Commercial - Community	33	0.55%
Commercial - Neighborhood	16	0.27%
Commercial – Professional & Research	16	0.26%
Commercial - Resort	188	3.14%
Commercial – Light Manufacturing	36	0.60%
Other Non-Residential Area	7	0.12%
Open Space	791	13.19%
Parks	50	0.84%
Resort Rec	23	0.38%
Residential Mixed Use	330	5.50%
Schools	10	0.17%
TOTAL ACREAGE	**5,999**	

As shown on Figure 3-4 and Table 3-5, Ivins is a mostly residential city with a limited commercial or industrial influence, and a large portion of the city has been designated as permanent open space. With the aid of recent aerial imagery and GIS planning data provided by the city, Figure 3-5 displays the following information:

- Developed areas within the city
- Undeveloped areas within the city
- Areas to remain undeveloped (open space)
- Potential areas of annexation for additional development

Based on Figure 3-4, approximately 2,900 acres of land in Ivins is currently developed, which represents more than half of the developable land in the city (excluding the potential Anazazi Valley annexation).



IVINS CITY

SEWER MASTER PLAN

EXISTING DEVELOPED & UNDEVELOPED AREAS

NORTH:

SCALE: 0 1,250 2,500 Feet

FIGURE NO. 3-4

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 3-5 - Existing Development Areas.mxd aanderson 4/28/2025

Projected Future Development

The current sewer service area does not include all of the existing homes in Ivins; this is reflected in the projections. However, it is assumed that all new growth in the city will be connected to the sewer collection system. Projected service area growth is shown in Table 3-6 below. The projections are for end of year, starting at the end of 2024.

Table 3-8
Projected Sewer Service Area Growth

Year	Total Residential ERUs	Number of Residential ERUs in Sewer Service Area[1]	Number of Non-Residential ERUs	Total Sewer Service ERUs
2024	4,616	4,235	393	4,628
2025	4,936	4,395	537	4,932
2026	5,096	4,555	681	5,236
2027	5,256	4,715	825	5,540
2028	5,416	4,875	969	5,844
2029	5,576	5,035	1113	6,148
2030	5,736	5,195	1257	6,452
2031	5,896	5,355	1401	6,756
2032	6,056	5,515	1545	7,060
2033	6,216	5,675	1689	7,364
2034	6,528	5,835	1833	7,668
2040	7,309	7,085	2,185	9,270
2045	8,090	7,978	2,433	10,411
2050	8,871	8,871	2,680	11,551[2]

[1] Housing Units in Sewer Service Area are those homes which are currently connected to the sewer collection system. According to Ivins City GIS, there are about 381 homes that are assumed to be on septic tanks. It is assumed that all future connections will be connected to the sewer collection system. At buildout (2050) it has been assumed that these 381 homes will be connected to the sewer collection system.

[2] Long-term growth projections include 500 units from the Anasazi Valley Annexation Area.

PROJECTING FUTURE GROWTH IN WASTEWATER FLOW

As shown in Table 3-6, the city is estimated to reach buildout by the year 2050 with a total of 8,871 residential ERUs and 2,680 non-residential ERUs. Based on these projected growth rates, Table 3-7 shows the estimated total daily wastewater production for Ivins City through buildout.

Table 3-9
Projected Daily Wastewater Flows

Year	Residential ERUs	Non-Residential ERUs	Total ERUs	Estimated Average Daily Domestic Wastewater Flow (gal/day)	Estimated Daily Groundwater Infiltration (gal/day)	Total Daily Wastewater Flow (gal/day)
2024	4,235	393	4,628	735,852	74,048	809,900
2025	4,395	537	4,932	784,188	78,912	863,100
2026	4,555	681	5,236	832,524	83,776	916,300
2027	4,715	825	5,540	880,860	88,640	969,500
2028	4,875	969	5,844	929,196	93,504	1,022,700
2029	5,035	1113	6,148	977,532	98,368	1,075,900
2030	5,195	1257	6,452	1,025,868	103,232	1,129,100
2031	5,355	1401	6,756	1,074,204	108,096	1,182,300
2032	5,515	1545	7,060	1,122,540	112,960	1,235,500
2033	5,675	1689	7,364	1,170,876	117,824	1,288,700
2034	5,835	1833	7,668	1,219,212	122,688	1,341,900
2040	7,085	2,185	9,270	1,473,930	148,320	1,622,250
2045	7,978	2,433	10,411	1,655,349	166,576	1,821,925
2050	8,871	2,680	11,551	1,836,609	184,816	2,021,425

STATE OF UTAH WATER CONSERVATION GOAL

The State of Utah set a water conservation goal in the year 2000 to reduce per capita water usage by 25% by the year 2025, measured from usage in the year 2000. Because water conservation is expected to be achieved primarily through the reduction of outdoor water use, no further reduction in sewer flows due to conservation was assumed for the planning window of this study. It is recommended that the city continue to track city-wide water usage and adjust projections accordingly in future master plans to account for any changes in per capita water use patterns.

CHAPTER 4
HYDRAULIC MODELING

INTRODUCTION

The Ivins City sewer collection system has been evaluated with the aid of a hydraulic computer model and the flow projections outlined in Chapter 3. An extended period simulation (EPS) hydraulic model was developed using Innovyze's InfoSWMM software. This chapter presents a summary of the methodology used to develop and run the hydraulic model.

GEOMETRIC MODEL DATA

There are two major types of data required to develop a hydraulic model of a sewer system: geometric data and flow data. Geometric data consists of information on the location and size of system facilities including pipes, manholes, and lift stations. It also includes the physical characteristics of the facilities including pipe roughness, invert elevations at manholes, pump settings in lift stations, and any diversions within the system. This information has been collected from GIS system inventory data and direct field observation provided by Ivins City personnel. The following sections describe how geometric data was assembled for use in the hydraulic model.

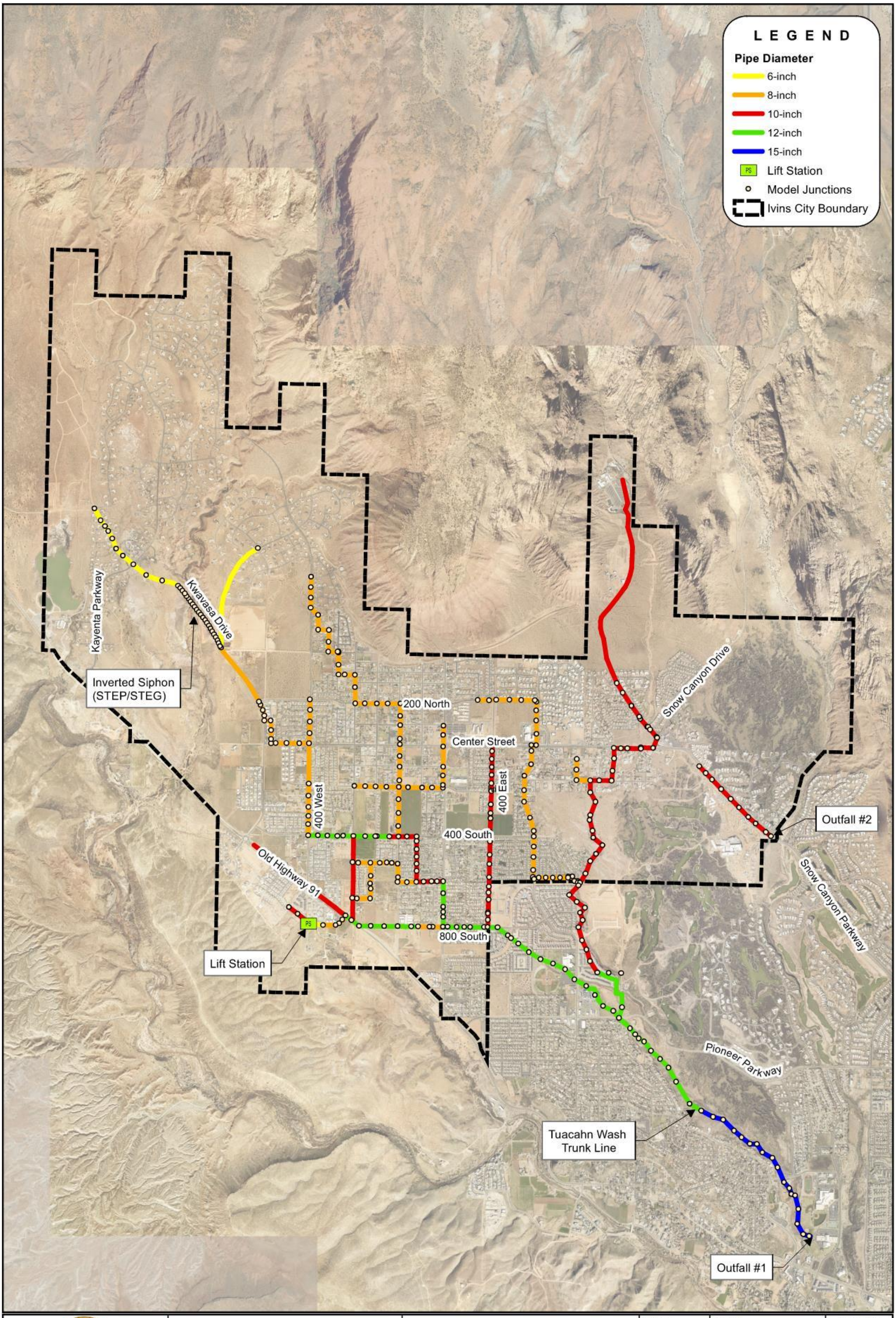
Pipeline and Manhole Locations

Ivins City has put considerable effort into assembling an up-to-date GIS inventory of its existing sewer facilities. This database includes information on the location and size of manholes and pipelines in the collection system. Based on direction from city personnel, pipeline and manhole data was taken directly from the GIS database for use in the model. In some areas where there was uncertainty pertaining to the location or connectivity of a certain pipe or manhole, city staff confirmed conditions in the field and conveyed that information to BC&A to include in the model.

Model Pipelines

It was not deemed necessary to model all of the sewer pipes in the Ivins City sewer system. As smaller pipes are added to the model, the more refined the analysis becomes, which requires additional time, effort, and expense. The set of sewer collection pipes to be modeled was selected by Ivins City personnel and represents the main interceptor trunk lines for the city. For smaller collector pipes, State minimum slope and sizing requirements result in capacities that exceed the potential wastewater production for typical residential densities in Ivins City. As a result, modeling pipes that are serving small areas will not add any meaningful results to the analysis.

It should be noted that some additional pipes were added to the modeling set for future flow scenarios in order to evaluate the local response of some of the smaller collection pipes which will likely receive additional sewer flows from growth. Figure 4-1 displays the set of pipes which were included in the existing system hydraulic model (keeping in mind that a few additional pipes were added in future model scenarios). Note that there are several junctions located consecutively in the sewer line along Kwavasa Drive as it crosses Kayenta Wash. While model nodes typically represent manholes, these nodes do not; this section of the sewer line is an inverted siphon and these additional junctions were added to model this unique segment of pipe.



IVINS CITY

SEWER MASTER PLAN

HYDRAULIC SEWER MODEL PIPELINES

NORTH:

SCALE: 0 1,250 2,500 Feet

FIGURE NO. 4-1

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 4-1 - Modeled Pipes.mxd aanderson 4/29/2025

Pipe Flow Coefficients

Pipe flow coefficients used throughout the hydraulic model were assigned to have a Manning's coefficient of 0.012. While the majority of the Ivins City system is comprised of PVC which has a lower published Manning's coefficient, a conservative value of 0.012 was chosen for modeling. In reality, most collection pipes can develop thin layers of bacteria and solids (a slime layer) that result in a relatively uniform flow coefficient despite varying materials. An energy loss coefficient (K) of 0.3 was applied to each reach of pipe to account for potential dynamic entry and exit energy losses through manholes.

Sediment and Debris

Because of the transportable nature of grease and debris in a sewer collection system, it is not possible to identify the exact location and quantity of grease or debris accumulation for any specific point in time. Similarly, the build-up and erosion rates of sediment in sanitary sewer systems are not always well understood. As a result, the detailed modeling of sediment or grease was not included in the hydraulic model. Instead, the design and evaluation criteria for the Ivins City collection system is based on "clean" pipes.

It should be noted that the hydraulic modeling software used to simulate the operation of the Ivins City wastewater collection system does have the ability to set sediment depth in pipes. Therefore, if the city does collect detailed sediment data for a given section of pipe, the sediment may be added to the model and its effects evaluated. However, it should be emphasized that any sediment levels defined today may change with future flow conditions.

Lift Stations

Ivins City has one lift station in its collection system. Model parameters for the lift station were input based on drawings and the pump curve on record. This information is located in Appendix A.

FLOW DATA

Once all required geometric data was collected and a virtual model of the system was developed, flow data was input to model system hydraulics. Three types of flow information were required for hydraulic modeling: total magnitude of flow, timing of flow, and distribution of flow across the city service area. Each of these flow characteristics is discussed in the following sections.

Total Flow

Flow projections for the Ivins City service area are presented in detail in Chapter 3. Total flow for modeling scenarios from Ivins is summarized in Table 4-1. The flow values in Table 4-1 are for end of year.

Table 4-1
Hydraulic Modeling Scenario Total Daily Flow Volumes from Ivins (gal/day)

Scenario	2024	2034	2050
Domestic Flow/Infiltration	809,900	1,341,900	2,021,425

* Does not include additional flow which was added in the hydraulic model to the 2 trunk lines which pass through Santa Clara to account for flow contributed by Santa Clara City (for existing and future conditions). See Chapter 3 for estimated flows contributed from Santa Clara City.

Timing of Flow

It should be noted that the volumes shown in Table 4-1 represent total flow over a 24-hour period. Since sanitary sewer flows vary throughout the day with fluctuations in indoor water use, of much greater importance for the purposes of modeling collection system capacity is the calculation of peak flows that occur over the course of a day. Each component of wastewater (domestic, infiltration, inflow) has a unique pattern over the course of a day, as outlined in the following sections.

Domestic Wastewater. The pattern of fluctuating domestic water use is often referred to as a diurnal pattern. Diurnal flow patterns vary depending on the type of user. For example, residential connections will typically produce peak flows between 8:00 am – 10:00 am as people get ready for work and eat breakfast, with another peak occurring in the evening as people make dinner and prepare for bed. Commercial connections may exhibit completely different diurnal wastewater patterns that are unique to their specific water use.

Utah Administrative Code R317-3 – "Design Requirements for Wastewater Collections, Treatment and Disposal Systems" requires that sewer systems apply a 2.5 peaking factor to sewer trunklines. However, if reliable flow data suggests otherwise, customized peaking factors for a system can be developed and used for planning. From experience, the UAC requirement of 2.5 is generally conservative, and actual measured collections system flows tend to possess a lower peaking factor.

To estimate the wastewater peaking factor for the Ivins City collection system, flow data from the Snow Canyon H.S. meter from 2024 has been evaluated. Flow through the meter is recorded every 15 minutes, providing a good indication of the pattern of flow as it leaves the Ivins system and enters the St. George collection system. The peak daily flow recorded in 2022 occurred in the month of March. Comparing average daily flows and peak daily flows for the month of August, 2022, the average ratio of peak flow to average daily flow was 1.64 (i.e. peak daily flow was 1.64 times higher than the daily average).

It is important to note that the Snow Canyon H.S. meter is at the bottom of the collection system, hence the peak flows measured at the meter have been attenuated. This means that a larger peaking factor should be applied to the upstream collection network in order to yield a 1.64 peaking factor at the meter. The hydraulic model was used to iterate this value which ended up being **1.85**. Figure 4-2 displays the diurnal flow pattern used in the hydraulic model for existing and future conditions. The diurnal flow pattern is based on the data recorded at the Snow Canyon H.S. meter.

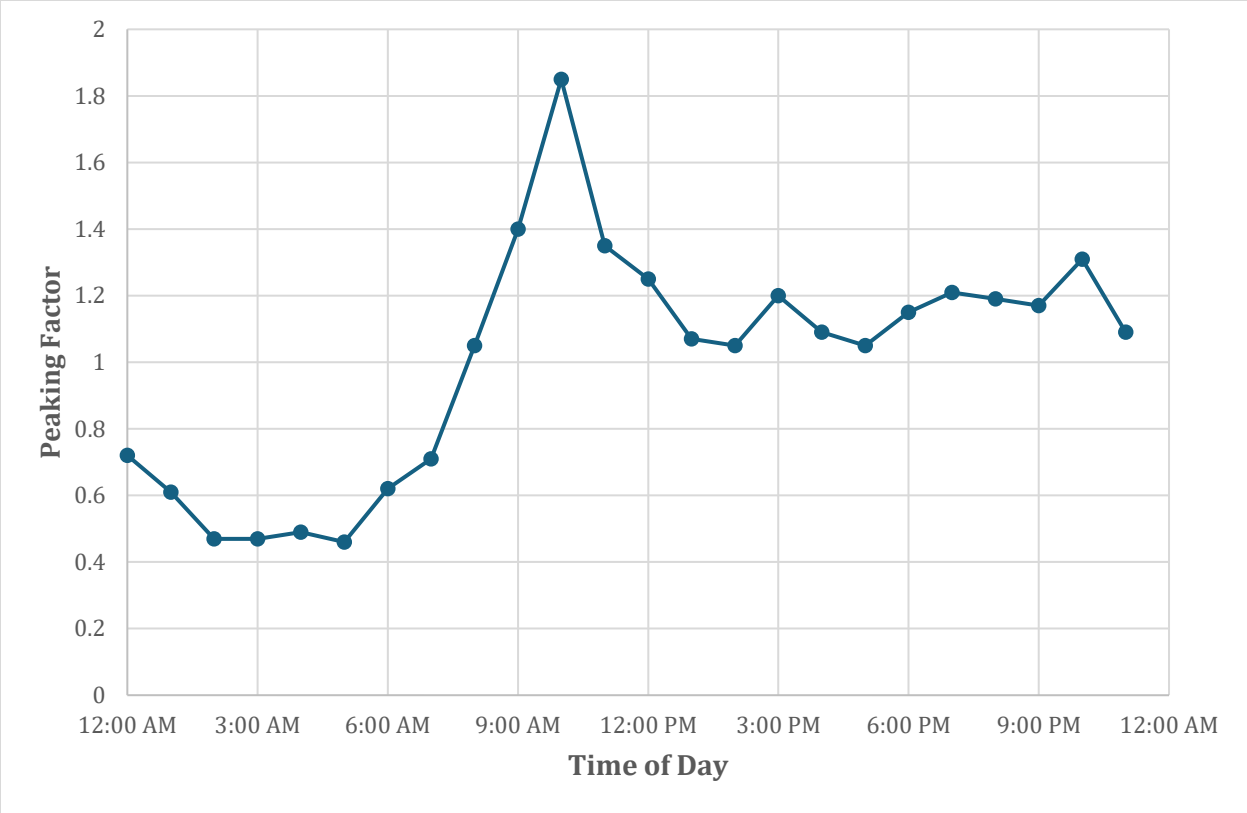


Figure 4-2: Estimated Diurnal Wastewater Flow Pattern for Modeling

Infiltration. As discussed in Chapter 3, infiltration may vary on a seasonal basis but does not generally vary on a daily basis. It has been assumed that infiltration remains constant throughout the day in the collection system model (multiplier value of 1.0 at each time step interval).

Inflow. For this study, inflow has not been modeled directly because of the wide variability in storm events and inflow response possible throughout the system. For planning purposes, 25% of full pipe capacity has been reserved for inflow events, meaning that in order for a pipe to be of adequate size it must convey dry weather flow (domestic & infiltration) using no more than 75% of its full pipe capacity.

Based on the diurnal pattern discussed above, peak flows at the system outfalls are summarized in Table 4-2. The values in Table 4-2 are for the end of the years listed.

Table 4-2
Hydraulic Modeling Peak Outfall Flows[1] (MGD)

Scenario	2023	2033	2050
Dry Weather Flow	1.69	2.96	4.57

[1] Includes additional flow which was added in the hydraulic model to account for flow contributed by Santa Clara City (for existing and future conditions).

DISTRIBUTION OF FLOW

With flow magnitude and timing estimated, the final step in developing flow data for the model is distributing it spatially across the city. The following sections describe this process.

Domestic Wastewater

Existing domestic sewer flows included in the hydraulic model were distributed throughout the system by delineating small collection areas based on contours and existing sewer collection pipes. Using the GIS data provided by the city, each current sewer service connection was routed to its corresponding manhole in the model. Homes that are not currently within proximity of the collection system were assumed to be on septic systems and were not included in the existing conditions model. The average domestic flow per ERU of 159 gpd was assigned to each connection within the basin and the summation of flow was directed to the appropriate model node (manhole). A similar approach was used for the distribution of flow in future model scenarios. For the 10-year growth model, "hotspots", or areas with high potential for growth in the near future, were identified by Ivins City personnel. The general land use plan and GIS were used to estimate the amount of growth that would occur in these hotspots over the next 10 years, as well as growth that will likely occur as infill in areas that are currently partially developed. Upon determining where growth will most likely occur, the flow from new development was then assigned to the appropriate sewer manhole in the model. This same method was employed at buildout, filling in any remaining region within the service area that is yet to be developed.

Non-residential flow was distributed throughout the model based on the addresses contained in the culinary water billing data provided by Ivins City. As discussed in Chapter 3, billed flows for non-residential connections were converted to ERUs and assigned to the corresponding model manhole based on location.

Infiltration

Existing infiltration was assigned to model manholes proportionally to the number of contributing ERUs (infiltration was estimated to be 16 gpd per ERU, see Chapter 3).

MODEL CALIBRATION

As discussed previously, peaking factors within the model were calibrated to match the metered flows at the Snow Canyon M.S meter. It should be understood that the hydraulic model developed for this study relies on the available geometric and flow monitoring data provided by Ivins City. As additional pipelines are surveyed or new flow measurement data is collected, the hydraulic model should be updated and recalibrated to reflect actual conditions.

CHAPTER 5
SYSTEM EVALUATION

INTRODUCTION

Using the calibrated hydraulic sewer model, the Ivins City sewer collection system has been evaluated under existing and projected future conditions. The purpose of this chapter is to document the results of the hydraulic computer model and identify potential system deficiencies under existing and future operating conditions.

EVALUATION CRITERIA

In defining what constitutes a hydraulic deficiency, it is important to consider the assumptions made in estimating sewer flows in the model. As described in Chapters 3 and 4, the sewer flow included in the model is composed of two parts: domestic sewer flow and infiltration. These inputs are based on available historical data. Because these estimates are based on average values and a limited data set, actual flows will fluctuate and may be less or greater than the model estimates. The criteria established for identifying deficiencies should be sufficiently conservative to account for occasional flows higher than those estimated in the model. The following criteria have been established to identify capacity deficiencies in the system:

- **Pipeline Capacity –** The most important deficiency to eliminate in the sewer collection system is inadequate pipe capacity. For this master plan, a pipe deficiency is defined as any point where the dry weather peak hour flow in a pipe is greater than 75 percent of the pipe's full flow capacity, which occurs when flow exceeds a depth of approximately 70 percent of the pipe's diameter. The remaining 25 percent of pipe hydraulic capacity is reserved for inflow, unaccounted for fluctuations in domestic flow and infiltration, and potential sediment deposited in pipes.
- **Lift Station Capacity –** A lift station capacity deficiency is defined as anytime dry weather peak hour flows exceed 85 percent of the lift station's primary pumping capacity. Note that all lift stations are required to have at least one backup pump in case of mechanical failure or significant inflow from wet weather events.

EXISTING SYSTEM ANALYSIS

Figure 5-1 displays the hydraulic capacity of the sewer system under existing peak hour flow conditions. Pipes in the figure are color coded to show the ratio of maximum simulated flow depth in the pipe to the pipe's diameter. As shown in Figure 5-1, there are no simulated deficiencies in the existing Ivins sewer collection system. The Earl. Drive Lift Station is also operating within its design limits, as shown in Table 5-1. Note that detailed model outputs for each model simulation can be found in Appendix B.

Table 5-1
Lift Station Model Results – Existing Conditions

Name	Design Capacity (gpm)	Wet Well Volume (cf)	Power Per Pump (HP)	No. Pumps	Peak Estimated Flow into Lift Station (gpm)	% Capacity Used
Earl Dr. Lift Station	250	900	5	2	34	14%

L E G E N D

Ratio of Peak Flow Depth to Pipe Diameter

- Less than 0.1
- 0.11 - 0.25
- 0.26 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.9
- Greater than 0.9
- PS Lift Station
- Ivins City Boundary

Kayenta Parkway

Kwavasa Drive

This section of pipe is an inverted siphon and is designed to flow under full pipe conditions.

200 North

Center Street

400 West

400 East

400 South

800 South

Old Highway 91

PS

Snow Canyon Drive

Snow Canyon Parkway

Pioneer Parkway

Outfall #2

Outfall #1

IVINS CITY

SEWER MASTER PLAN

EXISTING CONDITIONS HYDRAULIC MODEL RESULTS

NORTH:

SCALE: 0 1,250 2,500 Feet

FIGURE NO. 5-1

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 5-1 - Existing System Conditions (11 x 17).mxd aanderson 4/29/2025

10-YEAR GROWTH SYSTEM ANALYSIS

The next model scenario of interest is the condition of the system after 10 years of projected future growth. This scenario is useful in the development of a Capital Facilities Plan and Impact Fee Facilities Plan (IFFP). The 10-year growth model was developed through coordination with Ivins City personnel. Areas that are quickly growing ("hotspots") and areas that are anticipated to see infill growth within the next 10 years were identified, and future wastewater production was allocated to these areas in the model.

The results of the 10-year model simulation are shown in Figure 5-2. As shown in the figure, a significant portion of the Lower Tuacahn Wash trunk line (the portion of the line between Pioneer Parkway and Snow Canyon H.S.) is shown as deficient within the 10 year window. This trunk line is crucial for the operation of the system as it conveys almost all of the wastewater flow from the city. The remaining pipes in the system are anticipated to operate below their capacity limits. No lift station deficiencies were identified in the 10-year model (see Table 5-2).

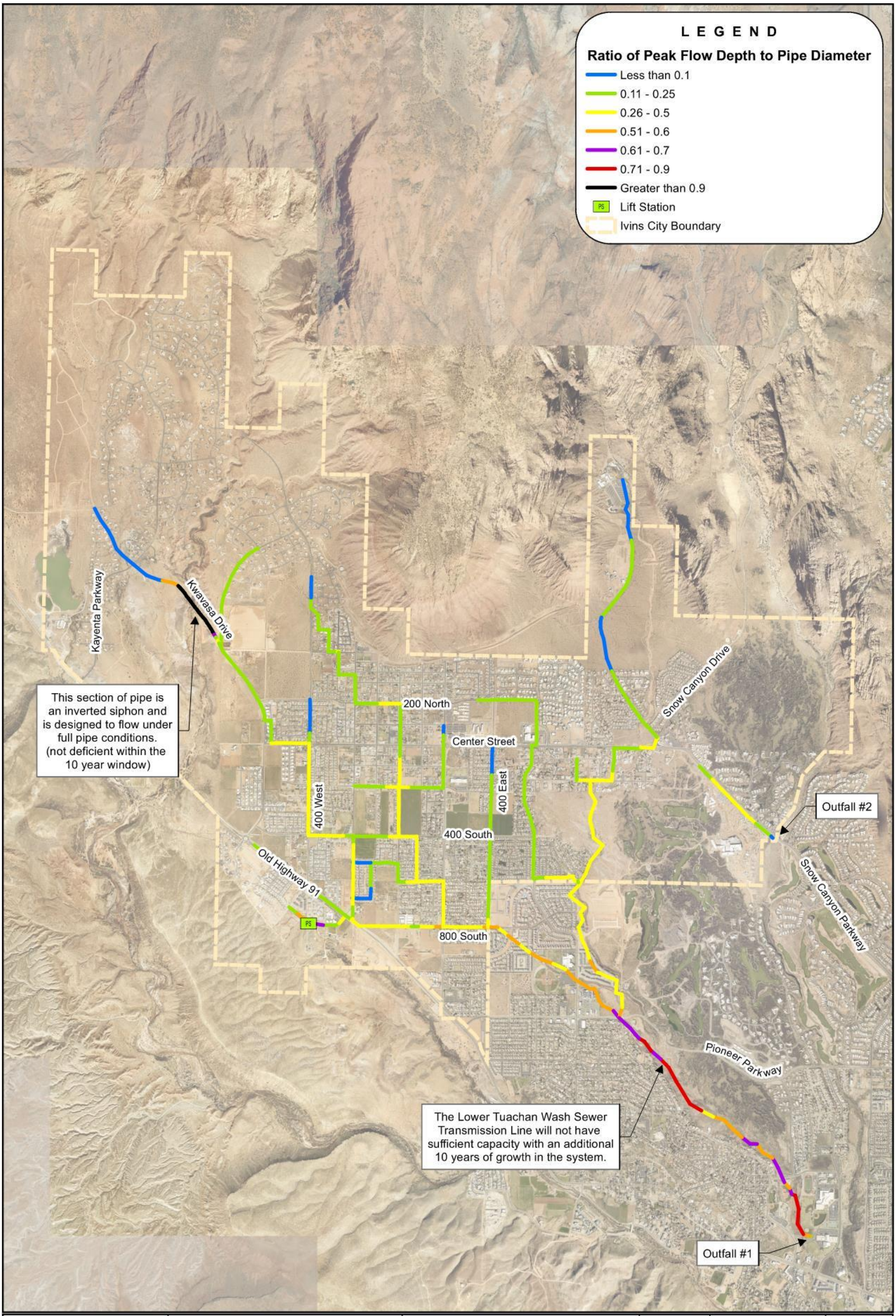
Table 5-2
Lift Station Model Results – 10 Year Growth Conditions

Name	Design Capacity (gpm)	Wet Well Volume (cf)	Power Per Pump (HP)	No. Pumps	Peak Estimated Flow into Lift Station (gpm)	% Capacity Used
Earl Dr. Lift Station	250	900	5	2	95	38%

BUILDOUT SYSTEM ANALYSIS

Figure 5-3 shows system performance as calculated by the hydraulic model for sewer flows at projected full buildout conditions without any improvements to existing components of the system. The following assumptions were made in the development of the buildout model:

- Population densities are based on planning information provided by Ivins City.
- As discussed in Chapter 2, it has been assumed that all homes in Kayenta will be connected to sewer service at buildout. The results shown in Figure 5-3 assume that all existing homes in Kayenta and all new development south of the intersection of Kayenta Parkway and Kwavasa Drive will end up flowing down Highway 91 to 800 South (via new system and project level improvements). All existing homes and new development to the north of this intersection has been assigned to the existing 6 inch STEP/STEG line that flows under Kayenta Wash.
- 500 ERUs from the Anasazi Valley annexation have been added to the model at buildout.
- It was assumed that the area of Ivins that currently flows directly into the Santa Clara system will continue to do so at buildout. It has also been assumed that the Black Desert development will connect its sewer to the existing line in Snow Canyon Parkway or into a new connection made into the St. George City system in Entrada.



IVINS CITY
SEWER
MASTER PLAN

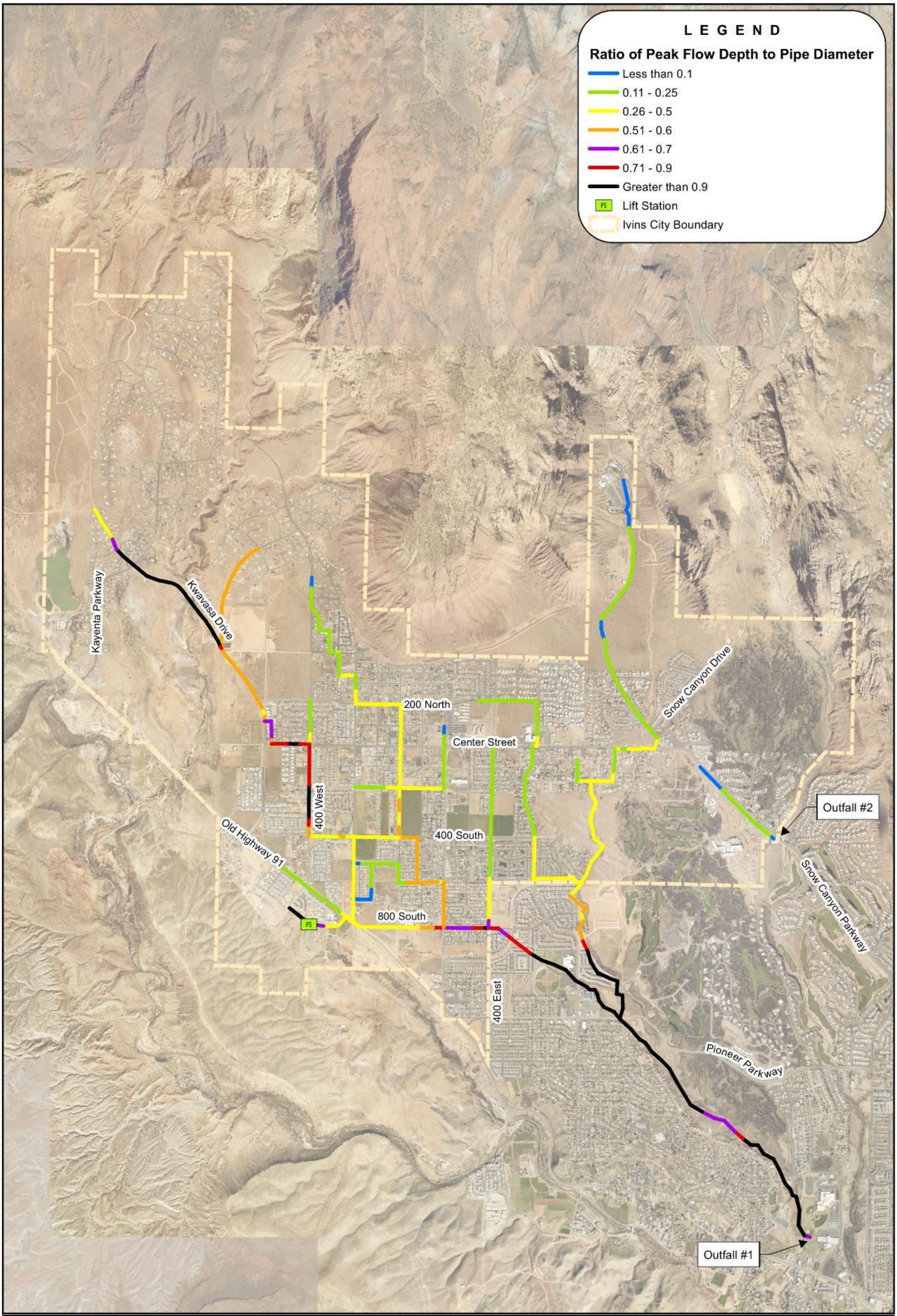
10 YEAR GROWTH
HYDRAULIC MODEL
RESULTS

NORTH:

SCALE: 0 1,250 2,500 Feet

FIGURE NO.
5-2

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 5-2 - 10 YEAR model results (11x17).mxd aanderson 4/29/2025



IVINS CITY
SEWER
MASTER PLAN

BUILDOUT POPULATION
HYDRAULIC MODEL
RESULTS

NORTH:

SCALE:
0 1,250 2,500 Feet

FIGURE NO.
5-3

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 5-3A - Buildout model results (11x17).mxd aanderson 4/29/2025

As shown in Figure 5-3, there are a number of areas in the collection system that would not have adequate conveyance capacity to accommodate system flows under a buildout scenario. This is typical for most municipal sewer collection systems. The Earl Dr. Lift Station is anticipated to have adequate pumping capacity through buildout (see Table 5-3). The city should continue to monitor connections to the lift station and assess actual flows in the future.

Table 5-3
Lift Station Model Results – Buildout Conditions

Name	Design Capacity (gpm)	Wet Well Volume (cf)	Power Per Pump (HP)	No. Pumps	Peak Estimated Flow into Lift Station (gpm)	% Capacity Used
Earl Dr. Lift Station	250	900	5	2	168	67%

STEP/STEG SYSTEM

While the Ivins City collection system is primarily composed of conventional gravity sewer network, a portion of the system servicing Kayenta uses a Septic Tank Effluent Gravity/Septic Tank Effluent Pumped (STEP/STEG) system. The concept behind the STEP/STEG system is illustrated in Figure 5-4. Rather than collecting all wastewater from users, STEP/STEG systems utilize a septic tank to collect and remove most solids from the wastewater before it reaches the collection system. In theory, without solids present in the collection system, they can flow under pressure and utilize smaller diameter collection lines that do not necessarily need to follow a certain grade (i.e. do not need to flow by gravity). Depending on the location of the home with respect to the collection main, the water will either leave the septic tank via gravity or via a pump.

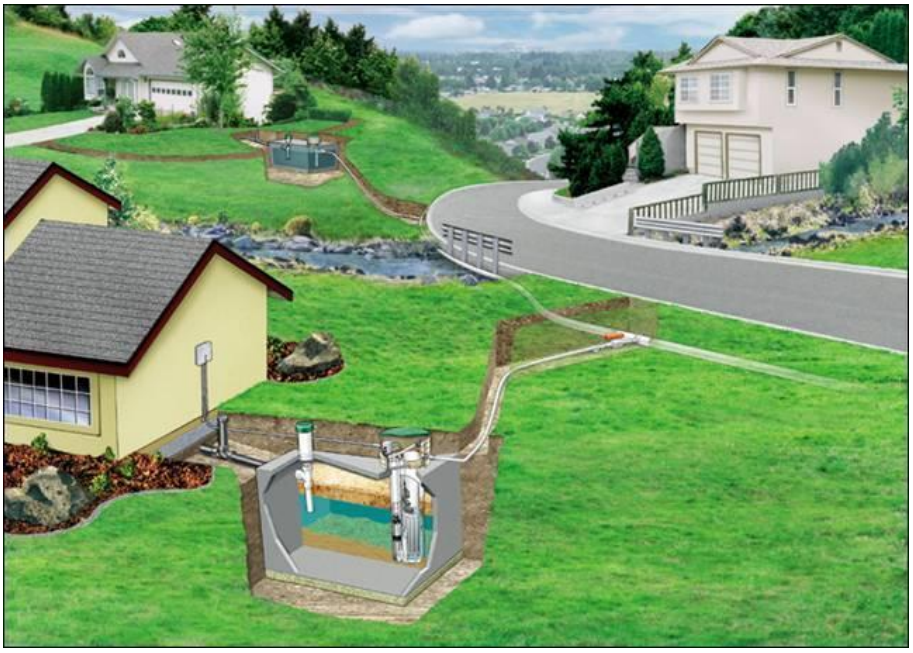


Figure 5-4: STEP/STEG Sewer Collection System, Courtesy of Orenco Systems

Although there are certain potential benefits to a STEP/STEG system, there are a number of factors that should be considered, including:

1. STEP/STEG systems can introduce additional mechanical and electrical components not needed in a conventional sewer collection system. They also require an individual septic tank at every connection. These components need to be watched and maintained to ensure proper operation of the system.
2. Unlike conventional sewer, it is difficult to observe conditions within a STEP/STEG collection system. Issues within the collection system, such as clogs or leaks, may be very difficult to detect.
3. STEP/STEG systems likely have a lower capital cost to construct, but long-term costs are ultimately put back on the homeowner.

Considering these points, it is recommended that the city limit STEP/STEG connections only to areas where it is deemed appropriate. If an area can be served by conventional gravity sewer, that should be the standard requirement. The city should continue to monitor the performance of the existing STEP/STEG system and identify ways to maintain and ensure proper operation of the system. This may include:

- Periodic pressure flushing of the system.
- Dye testing to help confirm system continuity.
- Routine camera inspection (if possible)

CONCEPT OF A DECENTRALIZED WASTEWATER TREATMENT FACILITY

In 2021, Ivins City hired BC&A to conduct a Wastewater Feasibility Study (Feasibility Study) to determine if a local wastewater treatment facility in Ivins was financially beneficial and feasible for the city. The recommendations in the Feasibility Study are based on several different factors, including water supply availability, water and sewer rates, and potential uses of reuse water. The conclusion of the analysis was that a local wastewater facility could be financially feasible, but that the breakeven point is likely very far in the future.

The Washington County Water Conservancy District has developed a Regional Reuse Plan that will involve the cooperation of all Regional Water Supply Agreement partner cities. This plan involves new treatment facilities, pipelines, and reservoirs aimed at better utilizing reuse water in our community. Considering that there is now a regional reuse water plan, it is not recommended that Ivins pursue the concept of a decentralized system. One of the primary reasons behind this recommendation pertains to water rights. In order for the city to lay claim on water for a reuse purpose, it needs to be the parent holder of the water right (or have approval from the parent water right holder to use the water). The majority of water used in Ivins comes from WCWCD or the City of St. George, and if that water can be used within the regional reuse system, it is unlikely that WCWCD or St. George would allow Ivins to reclaim and use that water.

Another reason for this recommendation is that WCWCD is planning to construct a surface water treatment facility on the west side of the county that would produce potential water for Ivins, Santa Clara, and St. George. However, this project is contingent upon certain components of the regional reuse system. Therefore, if Ivins were to pursue its own wastewater treatment facility, it may end up complicating the overall regional plans for future water supply development.

The concept of a decentralized wastewater treatment facility in Ivins (or somewhere on the west side of county) should not be abandoned entirely. The city should continue to evaluate different alternatives into the future. At some point in the coming years, constructing a wastewater treatment facility in Ivins may become a more beneficial option.

CHAPTER 6
RECOMMENDED SEWER SYSTEM IMPROVEMENTS

INTRODUCTION

The hydraulic model results have identified potential deficiencies in the sewer system under future growth conditions. This chapter presents recommended sewer system improvements intended to resolve deficiencies as the city continues to grow toward full buildout. Priority of each project is chosen based on the predicted timing of necessity.

RECOMMENDED SEWER SYSTEM IMPROVEMENTS

A number of system improvements have been identified to resolve hydraulic deficiencies related to projected future sewer flows. As discussed in Chapter 5, there were no deficiencies simulated in the existing system, but deficiencies have been identified within the 10-year growth window as well as at buildout. All recommended improvement projects are discussed below and are shown in Figure 6-1. Note that the improvement projects discussed in this chapter assume that all existing homes in Kayenta will be connected to sewer service by 2050 (buildout).

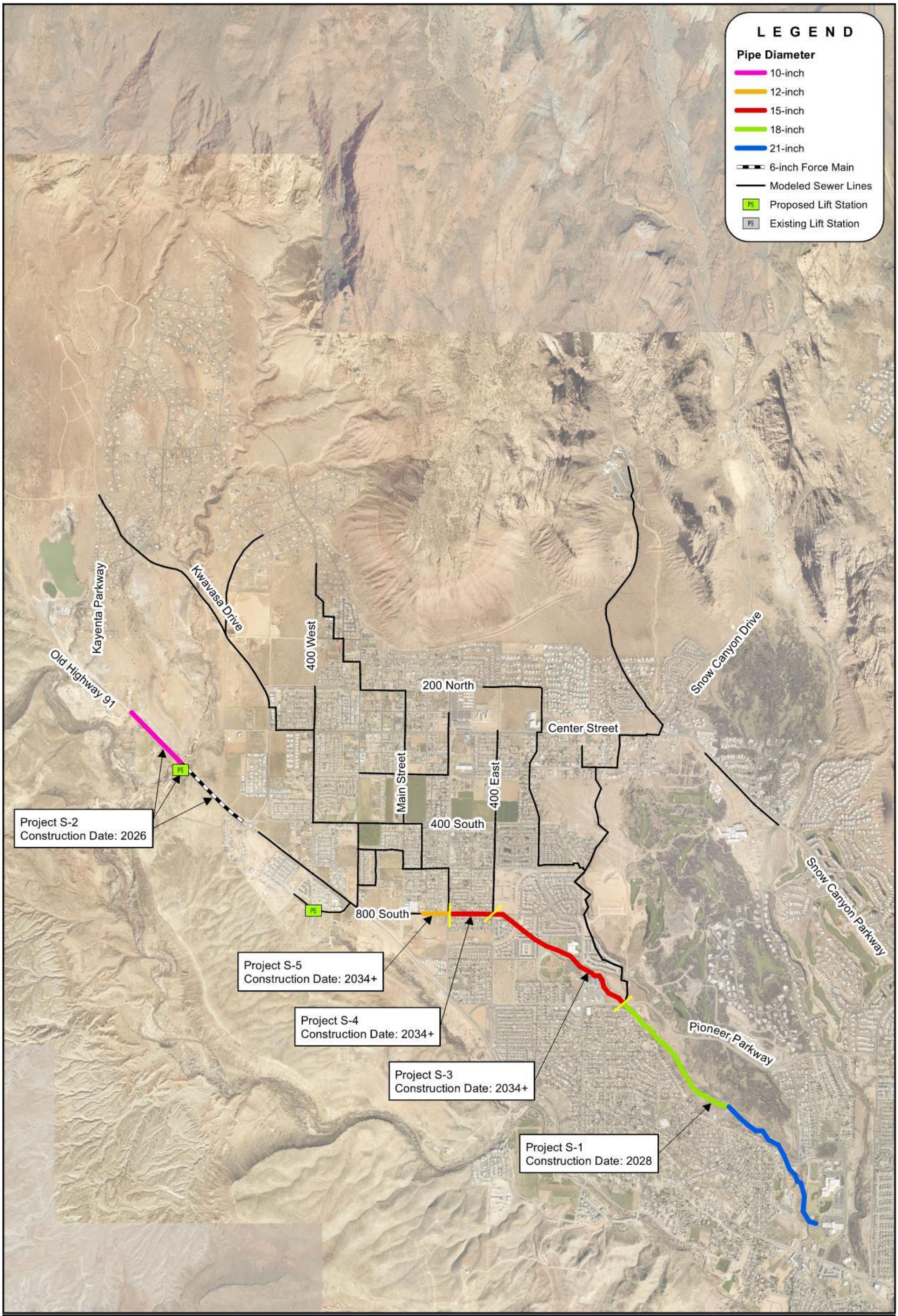
S-1. Lower Tuachan Wash Sewer Line Replacement Project
Construction Date: 2025

Model results have indicated that the Lower Tuacahn Wash sewer trunk line is approaching its peak flow capacity. This line is vital for the operation of the system, and a surcharging event could result in significant financial and/or environmental consequences. This deficiency could be addressed in two ways:

- The existing trunk line along the Lower Tuachan Wash between Pioneer Parkway and Snow Canyon H.S. could be replaced with a new 18-inch and 21-inch pipe (4,450 feet of 18-inch pipe and 4,680 feet of 21-inch pipe). The upsized line will provide the necessary capacity to convey wastewater flows through buildout.
- Rather than replacing the existing pipe, a new parallel 15-inch line (~9,130 feet) could be installed to accommodate future flows.

As part of this replacement project, the city may decide to investigate the possibility of a new sewer line alignment. The current alignment is problematic in that it runs through an active drainage wash, making the pipe susceptible to excessive inflow and infiltration. The options for realignment are limited, but it may be worth evaluating different alternatives during the design phase that would improve the overall functionality of the pipe, such as locating the pipe further away from the main drainage channel. If no other reasonable options are available for realignment, fusible HDPE could be installed in this reach of pipe in order to limit the risk of I&I entering the pipe at joints.

Due to the limitations in potential parallel pipe alignments, the estimated costs for this project are based on replacing the existing line with a new 18-inch/21-inch pipeline.



IVINS CITY

SEWER MASTER PLAN

RECOMMENDED SYSTEM IMPROVEMENTS THROUGH BUILDOUT

NORTH:

SCALE: 0 1,250 2,500 Feet

FIGURE NO. 6-1

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure 6-1 - Recommended Improvement Projects (11 x 17)A.mxd aanderson 7/2/2025

Since the Lower Tuachan Wash line serves both Ivins City and Santa Clara, the cost of carrying out the recommended improvements should be shared between each city on the basis of proportional flow. Based on the calculations and assumptions from this study as well as coordination with Santa Clara City/Sunrise Engineering, the estimated percentage of flow attributed to Ivins and Santa Clara in the Lower Tuachan Wash line from Pioneer Parkway to Snow Canyon Middle School is summarized in Table 6-1.

Table 6-1
Tuacahn Wash Sewer Line Estimated Flow Distribution

Condition	Estimated Average Daily Ivins Flow (cfs)	Estimated Average Daily Santa Clara Flow (cfs)	% Flow from Ivins	% Flow from Santa Clara
Buildout	2.80	1.083	72.1%	27.9%

As shown in the table, while there is some anticipated fluctuation in the proportional usage of the Tuacahn Wash sewer line over time, at buildout it is expected that 72.1% of the flow in the line will come from Ivins and 27.9% will come from Santa Clara. Based on the information in Table 6-1, it is recommended that Ivins plan to pay for 72.1% of the total project cost to replace the line.

In recent years, Ivins City and Santa Clara City have communicated with City of St. George to discuss the possibility of turning this reach of pipe over the St. George to be managed as a regional sewer line. St. George was willing to consider this option, but would require that the improvements associated with project S-1 be completed prior to taking ownership. It should be reiterated that discussions between Ivins City and St. George City regarding the Lower Tuacahn Wash trunk line are in the preliminary stages and no formal agreements have been completed at this point.

S-2. Old Highway 91 Sewer Line Extension
Construction Date: 2026

As shown in Chapter 5, under buildout conditions, there are a number of locations in the collection system where the existing collection system capacity is inadequate to convey future flows. One alternative to address such issues is to upsize or install parallel pipes to increase flow capacity. Another solution is to divert water to a different location of the system, bypassing infrastructure that is undersized for future flows. This project aims to collect flows from the area west of Dry Wash and convey water down Old Highway 91 rather than through the inverted siphon in Kwavasa Drive.

The project consists of constructing a new sewer line, force main, and sewer lift station along Old Highway 91 to convey future flows. The project consists of 3 components:

A. Install 2,300 feet of 10 inch gravity sewer along Old Highway 91 starting at Dry Wash and going to the northwest to a point near 3 Mile Lane.

B. Construct a 375 gpm lift station near Dry Wash on the south side of Old Highway 91. The conceptual location of the pump station would be near the existing booster pump station servicing KWU.

C. Install 2,700 feet of 6-inch pressure sewer from the lift station to the high point in Old Highway 91 (near the intersection of Kwavasa Drive and Old Highway 91).

S-3. 800 South & 400 East to Pioneer Parkway Replacement Project Construction Date: 2034+

The existing 12-inch sewer line that runs from 800 South & 400 East in Ivins through Santa Clara to the intersection of Pioneer Parkway & Red Mountain Drive (Lava Flow trunk line) serves as a major trunk line to convey wastewater from Ivins City to the St. George City sewer collection system. Under projected buildout conditions, this section of sewer line will not have adequate capacity.

Replacing this approximately 5,000 foot reach of pipe with a new 15-inch line will provide adequate flow capacity for estimated buildout flows. Since this pipe serves both Ivins and Santa Clara, the cost to upsize this line should be shared between the two entities. Based on Ivins flow projections from this master plan and information available in the Santa Clara City IFFP, the estimated allocation of flow for this section of pipe is 82.1% from Ivins and 17.9% from Santa Clara. Project cost estimates reflect this assumed distribution of flow between each city.

S-4. 800 South from 200 East to 400 East Pipe Replacement Project Construction Date: 2034+

This project consists of replacing about 1,350 feet of the 12-inch pipe in 800 South which runs from 200 East to 400 East with a new 15-inch pipe. The city may explore parallel pipe options as the time to address this deficiency gets closer in the future.

S-5. 800 South from 200 East to 100 East Pipe Replacement Project Construction Date: 2034+

This short section of 8-inch pipe will not have capacity to meet future system flows. It is recommended that the pipe be replaced with a new 12-inch pipe (about 750 feet of total length).

The recommended projects with their associated cost estimates are summarized in Table 6-2.

Table 6-2
Ivins City Recommended Capital Improvement Projects

Project Identifier	Project Year	Description	Unit	Quantity	Pipe Diameter (in.)	Unit Cost	Estimated 2025 Construction Cost	Engineering, Survey, Admin (15% of Construction Cost)	Total Estimated Cost	% Paid by Ivins City	Total 2025 Cost to Ivins City
S-1 A	2028	Lower Tuacahn Wash Sewer Line Replacement Project (Reach A)	LF	4,450	18	$350	$1,557,500	$233,625	$1,791,125	72.1%	$1,291,000
S-1 B	2028	Lower Tuacahn Wash Sewer Line Replacement Project (Reach B)	LF	4,680	21	$400	$1,872,000	$280,800	$2,152,800	72.1%	$1,552,000
S-2 A	2026	Old Highway 91 Sewer Line Extension (Reach A)	LF	2,300	10	$150	$345,000	$51,750	$396,750	100%	$397,000
S-2 B	2026	Old Highway 91 Sewer Line Extension (Reach B, Lift station)	LS	1	NA	$955,000	$955,000	$143,250	$1,098,250	100%	$1,098,000
S-2 C	2026	Old Highway 91 Sewer Line Extension (Reach C, Pressure Pipe)	LF	2,700	6	$80	$216,000	$32,400	$248,400	100%	$249,000
S-3	2034+	800 South & 400 East to Pioneer Parkway Replacement Project	LF	5,000	18	$320	$1,600,000	$240,000	$1,840,000	82.1%	$1,511,000
S-4	2034+	800 South from 200 East to 400 East Pipe Replacement Project	LF	1,350	15	$280	$378,000	$56,700	$434,700	100%	$435,000
S-5	2034+	800 South from 200 East to 100 East Pipe Replacement Project	LF	750	12	$250	$187,500	$28,125	$215,625	100%	$216,000
		Total					**$7,111,000**	**$1,066,650**	**$8,177,650**		**$6,749,000**

CHAPTER 7
10 YEAR CAPITAL IMPROVEMENT PLAN

Chapter 6 of this report identifies system improvements which address projected future deficiencies in the Ivins City wastewater collection system. The purpose of this chapter is to assemble a detailed 10-year capital improvement plan to implement the recommended improvements. This will include recommendations regarding levels of funding for system rehabilitation, replacement, and capital improvement projects.

DEVELOPING AN ANNUAL BUDGET

Before establishing a 10-year capital improvement plan, it is necessary to determine how much funding should be budgeted each year for system renewal. One of the best ways to identify a recommended level of funding is to look at the estimated cost to replace the various components of the system and then consider each component's respective service life. Funding can then be based on the anticipated annual cost to replace the different components of the system.

As with all utilities, each component of a sewer system has a finite service life. Therefore, it is necessary to continually set aside and invest money toward the rehabilitation or replacement of these components. If adequate funds are not set aside for regular system renewal, the collection system will fall into a state of disrepair and be incapable of providing the level of service that the city's customers have come to expect.

The sewer collection system is composed of over 350,000 feet of gravity and pressurized sewer pipe. Table 7-1 summarizes the estimated replacement value of the city's existing sewer collection system. The total cost to replace the entire Ivins City sewer collection system, in today's dollars, is just over **$100 million dollars**.

Table 7-1
Estimated Sewer Collection System Replacement Value

System Component	Quantity	Unit Installation Price	Estimated Replacement Value
STEP/STEG			
2	647	$120	$77,640
4	10,798	$140	$1,511,720
		Subtotal	**$1,589,360**
Gravity Sewer			
6[1]	7,378	$275	$2,028,950
8	277,671	$275	$76,359,525
10	38,795	$300	$11,638,500
12	18,544	$320	$5,934,080
15	5,157	$375	$1,933,875
		Subtotal	**$97,894,930**
Pressurized Sewer Pipe			
6	480	$200	$96,000
		Subtotal	**$96,000**
Lift Stations			
Earl Drive Lift Station	1	$1,500,000	$1,500,000
		Subtotal	**$1,500,000**
		Grand Total	**$101,080,290**

[1] For gravity sewer, Utah State code requires a minimum sewer diameter of 8-inches. It is assumed that existing 6-inch pipe will eventually be replaced with 8-inch pipe.

In reality, it will not be necessary to completely replace the entire system as it ages because of rehabilitation technologies (e.g. slip lining, cast-in-place pipe, etc.). Rehabilitation costs are much lower than replacement costs (20% to 60% depending on pipe diameter). If the city were able to rehabilitate the entire system rather than replace components, it would drastically reduce the "replacement value" to about $42 million (assuming rehabilitation methods for gravity sewer pipes cost 40% of full replacement costs, while pressure sewer, lift stations, and treatment facility replacement prices remain at the full replacement cost). Unfortunately, it is generally not possible to rehabilitate all system components due to either condition or capacity issues. Some pipes are beyond saving with rehabilitation, while others may require upsizing or correction of grade issues; all of these scenarios would require a replacement.

To account for the limitations on rehabilitation, BC&A recommends an annual system investment budget derived from a combination of rehabilitation and replacement using a design life of 80 years for pipes and 40 years for lift stations. Table 7-2 provides a comparison of the required annual budget based on replacement, rehabilitation, and the recommended combination of both values. This recommended annual budget is intended to cover the city's expenses for system renewal, not including capital projects.

Table 7-2
Recommended Annual Sewer Collection System Budget

System Component	Service Life	Full Replacement	Rehabilitation[1]	50% Replacement 50% Rehabilitation (Recommended System Valuation)[2]	Recommended Annual Budget[3]
STEP/STEG	80 Years	$1,589,000	$1,589,000	$1,589,000	$19,863
Gravity Sewer	80 Years	$97,895,000	$39,158,000	$68,526,500	$856,581
Pressurized Sewer Pipe	80 Years	$96,000	$96,000	$96,000	$1,200
Lift Stations	40 Years	$1,500,000	$1,500,000	$1,500,000	$37,500
TOTAL		**$101,080,000**	**$42,343,000**	**$71,711,500**	**$915,144**

[1] Rehabilitation techniques can at times be used on gravity piping to avoid the cost of a full replacement (slip lining, cast-in-place pipe, etc.). Other system components, such as pressure pipes and lift stations, have been assumed to require a full replacement, hence values shown in this column are the same as the "full replacement" cost.

[2] "Recommended System Valuation" is a combination of full replacement and rehabilitation techniques. Gravity pipes have been assumed to be 50% full replacement and 50% rehab, while all other system components have been assumed to require a full replacement at the end of their respective service life.

[3] Calculated by dividing the recommended system valuation by the estimated service life.

As shown in Table 7-2, the recommended annual budget for system renewal and rehabilitation is approximately $900,000. However, because the city's system is relatively new, and because the City has a significant amount of projects to fund over the next few years, it is recommended that the City transition into the recommended level of funding. Beginning in the year 2030 – 2031, it is recommended that the city begin to allocate approximately $500,000 into the rehabilitation and replacement budget, increasing that value to the recommended funding level of $900,000 by 2036. As the system continues to age, the city will want to re-evaluate how much is being set aside for the replacement of the existing system and adjust plans as needed.

10-YEAR CAPITAL IMPROVEMENT PLAN

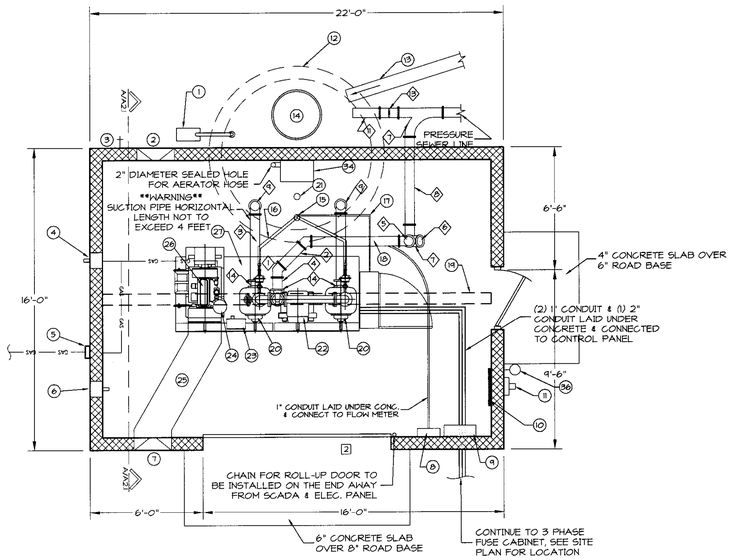
Table 7-3 provides an outlay of the recommended projects to be completed within the next 10 years. As discussed in Chapter 6, there is only one recommended capital sewer collection system improvement to be carried out in the next 10 years, but it is a relatively large project. The city should take advantage of this opportunity to focus on other areas of the existing system that may require replacement or rehabilitation due to condition-related issues. The city has retained BC&A to conduct a user rate analysis that will determine how the city will meet its future funding needs, including O&M, system renewal, and capital projects.

Table 7-3
Recommended 10-year Capital Improvement Plan

Project	Description	Estimated 2025 Cost	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total Inflated Cost
S-1 A	Lower Tuacahn Wash Sewer Line Replacement Project (Reach A)	$1,291,000				$1,411,000							$1,411,000
S-1 B	Lower Tuacahn Wash Sewer Line Replacement Project (Reach B)	$1,552,000				$1,696,000							$1,696,000
S-2 A	Old Highway 91 Sewer Line Extension (Reach A)	$397,000			$421,000								$421,000
S-2 B	Old Highway 91 Sewer Line Extension (Reach B, Lift station)	$1,098,000			$1,165,000								$1,165,000
S-2 C	Old Highway 91 Sewer Line Extension (Reach C, Pressure Pipe)	$249,000			$264,000								$264,000
PL	Update Master Plan and Associated Analyses						$100,000					$110,000	$210,000
RR	Ongoing Rehab and Replacement	-							$508,000	$692,000	$562,000	$857,000	$2,619,000
	Total Improvements	**$4,587,000**	**$0**	**$0**	**$1,850,000**	**$3,107,000**	**$100,000**	**$0**	**$508,000**	**$692,000**	**$562,000**	**$967,000**	**$7,786,000**

[1] A 3% annual inflation rate has been applied to future project costs.

APPENDIX A
LIFT STATION RECORD DRAWINGS & PUMP CURVE



LIFT STATION FLOOR PLAN

SCALE: 1/4"=1'-0" TOTAL AREA: 352 SQ. FT.

LEGEND

① DOOR TAG, SEE SHEET A2.2

—— GAS —— GAS LINE, INSTALLED UNDER BUILDING PAD

PUMP PLUMBING LEGEND

- ◇1 6" 45° ELBOW
- ◇2 (6") 0'-7" FLG. x FLG. SPOOL
- ◇3 (6") 2'-5" FLG. x FLG. SPOOL **MAX HORIZONTAL LENGTH IS 4'** (6") 7" FLG. x FLG. SPOOL
- ◇4 6" 90° ELBOW
- ◇5 6" BLIND FLANGE W/2" FULL PORT VALVE BALL
- ◇6 6"x6"x6" D.I. "WYE"
- ◇7 (6") 5'0" FLG. SPOOL
- ◇8 8"x6" REDUCER
- ◇9 (6") 2'-0" FLG. SPOOL
- ◇10 6" GATE ECCENTRIC PLUG VALVE MARKED SEWER
- ◇11 6" X 4" REDUCER

NOTE:
ALL LENGTHS ARE APPROXIMATE & MUST BE FIELD VERIFIED BY CONTRACTOR.

EQUIPMENT LEGEND

① WET WELL CLEANING SYSTEM, SEE DETAIL A/A2.1

② VANDAL RESISTANT 2'x2' RUSKIN LOUVER & DAMPER OR APPROVED EQUAL NEAR BOTTOM OF WALL

③ FROST FREE HOSE BIBB

④ GAS HEATER & BLOWER, AS APPROVED BY ENGINEER

⑤ GAS INLET

⑥ EXHAUST FAN COOK MODEL NO. AFD24PBDA OR EQUIV. AS APPROVED BY ENGINEER LOCATE NEAR TOP OF WALL

⑦ VANDAL RESISTANT 2'x2' RUSKIN LOUVER & DAMPER OR APPROVED EQUAL

⑧ FLOW METER BOX

⑨ SCADA PANEL, BOX ONLY FOR FUTURE SYSTEM, RUN POWER TO BOX

⑩ SURFACE MOUNTED ELECTRICAL PANEL

⑪ ELECTRIC METER

⑫ 8' DIAMETER PRECAST CONCRETE WET WELL W/HS-20 TRAFFIC RATED TOP AND LID

⑬ 8" SEWER INVERT

⑭ 30" MANHOLE FRAME & COVER

⑮ 4" SUCTION & SERVICE LINE WITH AIRTIGHT SEAL SEE DETAIL B/A2.1

⑯ 1 ¼" PVC AIR RELEASE LINE

⑰ AIR BUBBLER EMBEDDED ¾" CONDUIT FROM OUTSIDE CENTRAL PANEL TO 4" SERVICE LINE

⑱ FLOW METER 6" ULTRA MAG WITH REQ'D. ATTACHMENTS

⑲ W8x28 STEEL BEAM (OVERHEAD)

⑳ GORMAN-RUPP MOTOR & PUMP, SEE A2.3 FOR EQUIPMENT SPECS. *

㉑ 4" FLOOR DRAIN WITH REMOVABLE AIR TIGHT SEAL

㉒ (2) MOTOR *

㉓ DC CONTROL PANEL *

㉔ EXHAUST SYSTEM, SEE DETAIL C/A2.1

㉕ 24 GUAGE DUCT FROM RADIATOR FAN ON NEW MOTOR TO LOUVER AND DAMPER (6'-6" MIN. OVERHEAD DISTANCE)

㉖ ENGINE *

㉗ PUMP & MOTOR BASE ASSEMBLY *

㉘ HARRINGTON 2 TON NTH NAVY TROLLY HOIST OR EQUIV.

㉙ VIBRATION DAMPENER, VIMCO CRMP PAD

㉚ 6" SUCTION LINE PVC SCHED. 80 FASTEN TO WALL W/STAINLESS STEEL STRAPS & BOLTS

㉛ BOTTOM OF AIR BELL STRAPPED TO INFLUENT PIPE WITH STAINLESS STEEL STRAPS 6" FROM FLOOR

㉜ CONCRETE FILLETS 30° MIN. WITH STEEL TROWEL FINISH

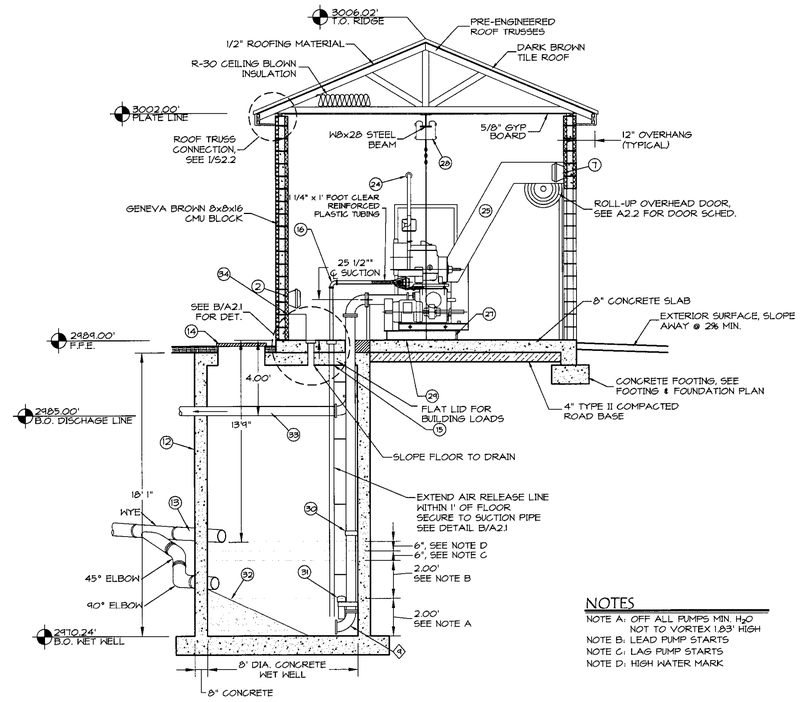
㉝ 6" PRESSURIZED DISCHARGE LINE

㉞ AERATOR-STOCK #68830 FROM USA BLUEBOOK

㉟ MUFFLER *

㊱ ALARM LIGHT *

* OWNER SUPPLIED MATERIAL WHICH REQUIRES CONTRACTOR INSTALLTION

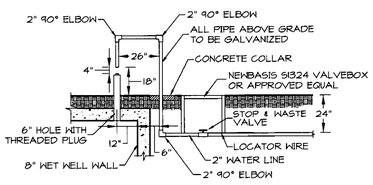


BUILDING SECTION 'A'

SCALE: NTS

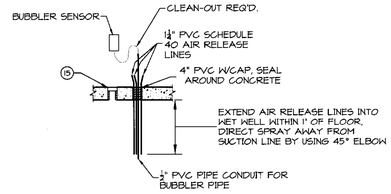
NOTES

NOTE A: OFF ALL PUMPS MIN. H_2O NOT TO VORTEX 1.83' HIGH
NOTE B: LEAD PUMP STARTS
NOTE C: LAG PUMP STARTS
NOTE D: HIGH WATER MARK



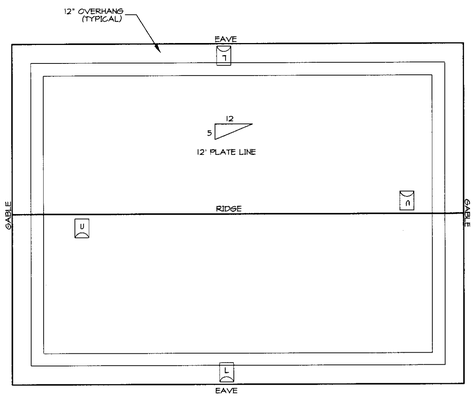
DETAIL A

SCALE: 1/4"=1'-0"



DETAIL B

SCALE: 1/4"=1'-0"



ROOF PLAN

SCALE: 1/4"=1'-0"

LEGEND

U INTEGRATED FLAT TILE UPPER ROOF VENT, CALCS. ARE FOR 1.0 sq. ft. NET VENT AREA, SEE CALCS. AND NOTES

L INTEGRATED FLAT TILE LOWER ROOF VENT, CALCS. ARE FOR 1.0 sq. ft. NET VENT AREA, SEE CALCS. AND NOTES

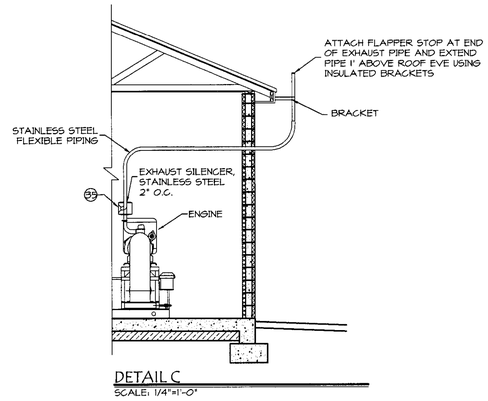
ATTIC VENTILATION CALCULATIONS

REQUIREMENTS:
ATTIC AREA = 432 sq. ft.
REQUIRED VENTILATION = 3 sq. ft. (1/150 OF TOTAL AREA)
REQUIRED UPPER VENTILATION = 1.5 sq. ft. (1/2 TOTAL REQ'D.)
REQUIRED LOWER VENTILATION = 1.5 sq. ft. (1/2 TOTAL REQ'D.)

PROVIDED VENTILATION:
UPPER VENTILATION:
USE FLAT TILE INTEGRATED ROOF VENT = 1.0 sq. ft.
VENTS PROVIDED = 2
LOWER VENTILATION:
USE FLAT TILE INTEGRATED ROOF VENT = 1.0 sq. ft.
VENTS PROVIDED = 2

NOTES

1. GENERAL CONTRACTOR SHALL VERIFY THAT VENTS USED ARE EQUIVALENT TO, OR EXCEED 1.0 sq. ft. NET FREE OPENING, THE TOTAL NET VENTILLATION OPENING AREA SHALL BE MAINTAINED.
2. EAVE AND RIDGE VENTING MAY BE UTILIZED IN PLACE OF VENTS IF TOTAL NET VENTILATION AREA IS MAINTAINED.



DETAIL C

SCALE: 1/4"=1'-0"

DATE:	June 1, 2007
JOB NO.:	4504-07-004
DRAWN BY:	C.J.R.
DESIGNED BY:	C.J.R.
SCALE:	AS NOTED
DWG:	

REVISIONS
DATE
7/25/07 CITY REVIEW
8/7/07 ENGINEER REVIEW
11/21/07 Engineer Review

ROSENBERG ASSOCIATES
CONSULTING ENGINEERS AND LAND SURVEYORS
352 East Riverside Drive, Suite A-2 St. George, Utah 84790
Phone (435) 673-8586 Fax (435) 673-8397

FLOOR, ROOF & BUILDING SECTION
FOR
IVINS SEWER LIFT STATION
WEST OF HIGHWAY 91
IVINS, UTAH

PROFESSIONAL ENGINEER
11-27-07

SHEET
A2.1
17 OF 21 SHEETS

PERFORMANCE CURVE

REPRIMING LIFTS							
RPM	650	750	850	950	1050	1150	1250 - 1950
FEET	5	8	16	19	22	24	25
METERS	1,5	2,4	4,9	5,8	6,7	7,3	7,6

Figure NPSH required prior to using above table. DO NOT use as available Suction Lifts.

3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS

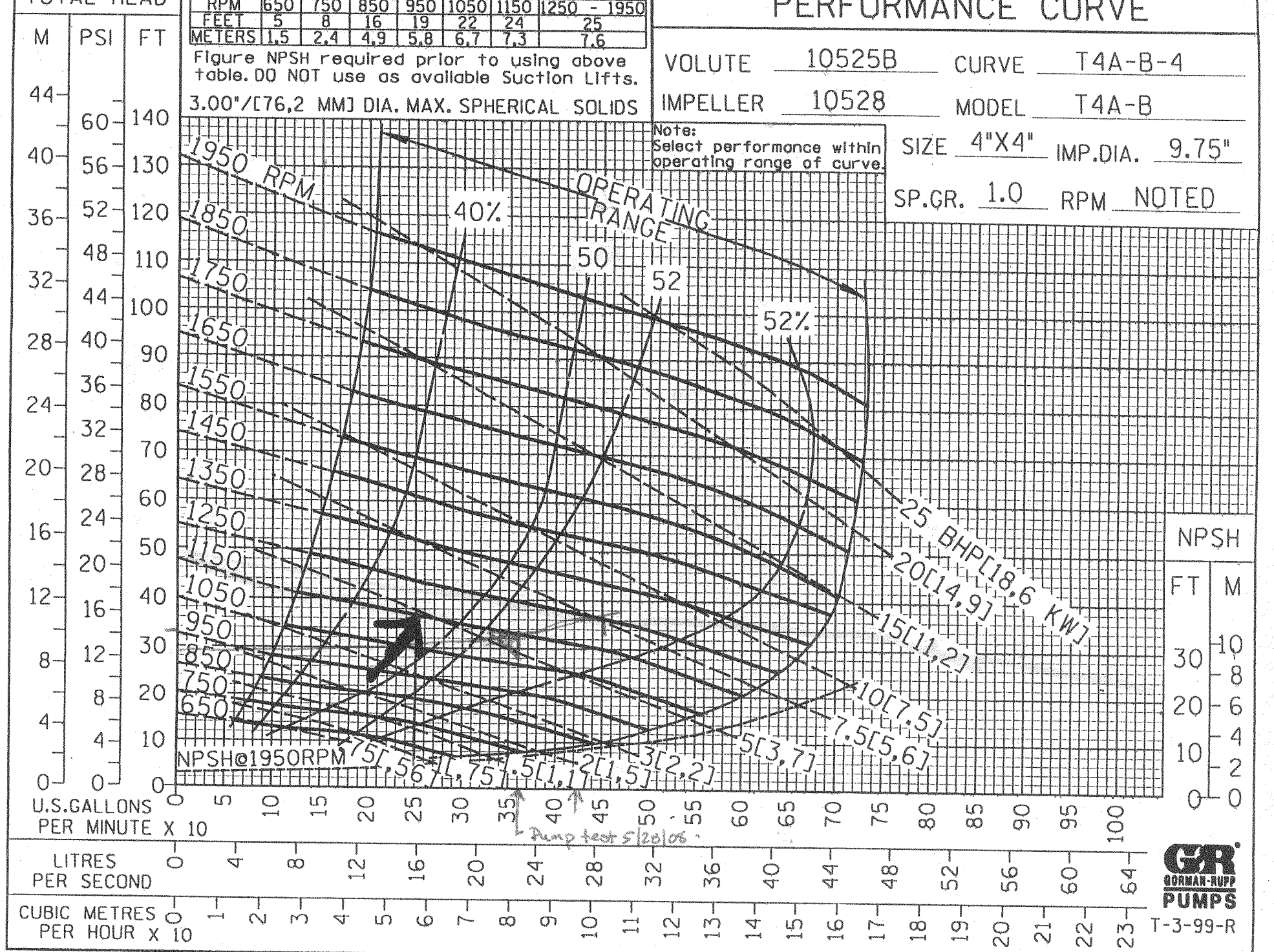
VOLUTE 10525B CURVE T4A-B-4

IMPELLER 10528 MODEL T4A-B

SIZE 4"X4" IMP.DIA. 9.75"

SP.GR. 1.0 RPM NOTED

Note: Select performance within operating range of curve.



GORMAN-RUPP PUMPS

T-3-99-R

FILE NO. T4CB.S04

APPENDIX B
DETAILED HYDRAULIC MODEL OUTPUT

L E G E N D

Existing Model Results

- Less than 0.1
- 0.11 - 0.25
- 0.26 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.9
- Greater than 0.9
- Ivins City Boundary

CDT-561 CDT-1532 CDT-1530 CDT-1528 CDT-497 CDT-835 CDT-763 CDT-883 CDT-465 CDT-827 CDT-865 CDT-819 CDT-809 CDT-1648 CDT-1666 CDT-1674 CDT-1500 CDT-797 CDT-789 CDT-701 CDT-691 CDT-905 CDT-911 CDT-777 CDT-673 CDT-747 CDT-731 CDT-709 CDT-715 CDT-917 CDT-929 CDT-487 CDT-947 CDT-955 CDT-625 CDT-633 CDT-641 CDT-1686 CDT-1698 CDT-1716 CDT-1730 CDT-663 CDT-845 CDT-617 CDT-863 CDT-665 CDT-551 CDT-557 CDT-1510 CDT-1518 CDT-527 CDT-597 CDT-575 PATCH1 CDT-1642 CDT-1632 CDT-1626 CDT-1618 CDT-1604 CDT-1594

Kayenta Parkway
Kwavasa Drive
Old Highway 91
Ivins
200 North
Center Street
400 South
800 South
400 West
400 East
Snow Canyon Drive
Snow Canyon Parkway
Pioneer Parkway

OUR HOME BENEATH THE BIG RED MOUNTAIN — IVINS UTAH	IVINS CITY 2025 SEWER MASTER PLAN	EXISTING CONDITIONS HYDRAULIC MODEL RESULTS	NORTH: NORTH	SCALE: 0 1,100 2,200 Feet	FIGURE NO. A-1

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure A1 - Existing Conditions Model Output.mxd aanderson 7/3/2025

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
1	☐	CDT-1500	0.500	2.091	6.564	0.114	Free Surface	0 - 09:45:00 hrs	1.054	1.065	0.055	0.656	1.977	0.028
2	☐	CDT-1502	0.833	3.926	2.736	0.075	Free Surface	0 - 10:26:59 hrs	0.244	0.244	0.019	0.548	3.852	0.026
3	☐	CDT-1504	0.833	5.417	5.208	0.014	Free Surface	0 - 10:17:00 hrs	1.949	2.009	0.003	0.039	5.403	0.005
4	☐	CDT-1506	0.833	5.294	4.974	0.017	Free Surface	0 - 10:57:59 hrs	1.684	1.718	0.003	0.048	5.277	0.006
5	☐	CDT-1508	0.833	3.640	2.352	0.022	Free Surface	0 - 10:53:59 hrs	1.644	1.656	0.006	0.060	3.618	0.008
6	☐	CDT-1510	0.833	3.347	1.988	0.028	Free Surface	0 - 10:59:00 hrs	1.608	1.613	0.008	0.072	3.318	0.010
7	☐	CDT-1512	0.833	2.858	1.450	0.036	Free Surface	0 - 11:00:00 hrs	1.749	1.749	0.013	0.081	2.822	0.013
8	☐	CDT-1514	0.833	3.229	1.850	0.045	Free Surface	0 - 11:00:00 hrs	1.980	1.980	0.014	0.086	3.183	0.017
9	☐	CDT-1516	0.833	3.115	1.723	0.050	Free Surface	0 - 11:00:00 hrs	2.192	2.192	0.016	0.086	3.065	0.018
10	☐	CDT-1518	0.833	4.305	3.289	0.060	Free Surface	0 - 11:00:00 hrs	2.782	2.782	0.014	0.083	4.245	0.022
11	☐	CDT-1520	0.833	5.104	4.624	0.066	Free Surface	0 - 11:00:00 hrs	3.614	3.614	0.013	0.074	5.038	0.024
12	☐	CDT-1522	2.000	53.133	4.700	0.066	Free Surface	0 - 11:00:00 hrs	2.865	2.865	0.001	0.027	53.067	0.024
13	☐	CDT-1524	1.000	3.958	1.052	1.204	Free Surface	0 - 11:00:00 hrs	4.345	4.345	0.304	0.383	2.755	0.437
14	☐	CDT-1526	1.000	4.046	1.099	1.223	Free Surface	0 - 11:00:00 hrs	4.482	4.482	0.302	0.379	2.824	0.445
15	☐	CDT-1528	0.667	1.360	1.079	0.057	Free Surface	0 - 11:00:00 hrs	2.034	2.034	0.042	0.134	1.303	0.021
16	☐	CDT-1530	0.500	1.020	2.815	0.049	Free Surface	0 - 11:00:00 hrs	2.232	2.326	0.048	0.170	0.971	0.018
17	☐	CDT-1532	0.500	0.768	1.598	0.007	Free Surface	0 - 10:47:00 hrs	1.232	1.236	0.009	0.067	0.761	0.003
18	☐	CDT-1534	0.500	0.837	1.896	0.007	Free Surface	0 - 10:52:00 hrs	1.396	1.402	0.008	0.062	0.830	0.003
19	☐	CDT-1536	0.500	1.088	3.202	0.007	Free Surface	0 - 11:06:00 hrs	0.067	0.067	0.007	0.529	1.081	0.003
20	☐	CDT-1538	0.500	1.432	5.550	0.008	Backwater	0 - 00:03:00 hrs	0.040	0.040	0.005	1.000	1.424	0.003
21	☐	CDT-1540	0.500	1.053	2.998	0.007	Backwater	0 - 00:04:00 hrs	0.037	0.037	0.007	1.000	1.045	0.003
22	☐	CDT-1542	0.500	1.049	2.979	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.007	1.000	1.042	0.003
23	☐	CDT-1544	0.500	0.566	0.868	0.007	Backwater	0 - 00:01:00 hrs	0.038	0.038	0.013	1.000	0.559	0.003
24	☐	CDT-1546	0.500	0.220	0.131	0.008	Backwater	0 - 00:03:00 hrs	0.039	0.039	0.035	1.000	0.212	0.003
25	☐	CDT-1548	0.500	0.607	0.999	0.007	Backwater	0 - 00:02:00 hrs	0.038	0.038	0.012	1.000	0.600	0.003
26	☐	CDT-1550	0.500	0.609	1.003	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.012	1.000	0.602	0.003
27	☐	CDT-1552	0.500	1.050	2.983	0.008	Backwater	0 - 00:04:00 hrs	0.041	0.041	0.008	1.000	1.042	0.003
28	☐	CDT-1554	0.500	1.138	3.505	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.006	1.000	1.131	0.003
29	☐	CDT-1556	0.500	1.366	5.047	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.005	1.000	1.358	0.003
30	☐	CDT-1558	0.500	1.213	3.982	0.008	Backwater	0 - 00:04:00 hrs	0.039	0.039	0.006	1.000	1.205	0.003
31	☐	CDT-1560	0.500	1.423	5.479	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.005	1.000	1.416	0.003
32	☐	CDT-1562	0.500	1.287	4.481	0.008	Backwater	0 - 00:04:00 hrs	0.040	0.040	0.006	1.000	1.279	0.003
33	☐	CDT-1564	0.500	1.398	5.293	0.007	Backwater	0 - 11:07:00 hrs	0.036	0.036	0.005	1.000	1.391	0.003
34	☐	CDT-1566	0.500	1.259	4.291	0.008	Backwater	0 - 00:04:00 hrs	0.041	0.041	0.006	1.000	1.251	0.003
35	☐	CDT-1568	0.500	0.979	2.594	0.007	Free Surface	0 - 11:07:00 hrs	0.063	0.063	0.007	0.554	0.972	0.003
36	☐	CDT-1570	0.500	0.299	0.242	0.007	Free Surface	0 - 11:07:59 hrs	0.635	0.635	0.024	0.106	0.292	0.003
37	☐	CDT-1572	0.500	0.308	0.257	0.007	Free Surface	0 - 11:08:59 hrs	0.521	0.521	0.023	0.121	0.301	0.003
38	☐	CDT-1574	0.500	0.271	0.198	0.007	Free Surface	0 - 11:11:00 hrs	0.666	0.666	0.026	0.103	0.263	0.003
39	☐	CDT-1576	0.500	0.791	1.693	0.007	Free Surface	0 - 11:11:59 hrs	0.497	0.511	0.009	0.128	0.784	0.003
40	☐	CDT-1578	0.500	1.534	6.367	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.005	1.000	1.527	0.003
41	☐	CDT-1580	0.500	1.063	3.059	0.007	Backwater	0 - 11:06:00 hrs	0.036	0.036	0.007	1.000	1.056	0.003
42	☐	CDT-1582	0.500	1.390	5.229	0.007	Backwater	0 - 00:01:00 hrs	0.038	0.038	0.005	1.000	1.383	0.003
43	☐	CDT-1584	1.000	5.958	2.383	1.688	Free Surface	0 - 11:00:00 hrs	4.905	4.905	0.283	0.451	4.270	0.617
44	☐	CDT-1586	1.000	3.279	0.722	1.712	Free Surface	0 - 11:00:00 hrs	4.409	4.409	0.522	0.496	1.567	0.626
45	☐	CDT-1588	1.250	62.046	78.608	2.661	Free Surface	0 - 11:25:00 hrs	23.524	23.524	0.043	0.148	59.385	1.001
46	☐	CDT-1590	1.250	4.499	0.413	2.661	Free Surface	0 - 11:23:59 hrs	5.241	5.241	0.591	0.432	1.838	1.001
47	☐	CDT-1592	1.250	4.612	0.434	2.662	Free Surface	0 - 11:22:59 hrs	3.287	3.288	0.577	0.627	1.950	1.001
48	☐	CDT-1594	1.250	4.515	0.416	2.663	Free Surface	0 - 11:22:00 hrs	3.817	3.818	0.590	0.554	1.852	1.001
49	☐	CDT-1596	1.250	4.652	0.442	2.664	Free Surface	0 - 11:19:59 hrs	3.819	3.819	0.573	0.554	1.988	1.001
50	☐	CDT-1598	1.250	4.363	0.389	2.586	Free Surface	0 - 11:19:59 hrs	3.625	3.625	0.593	0.564	1.777	0.963

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
51	☐	CDT-1600	1.250	7.311	1.091	2.587	Free Surface	0 - 11:18:59 hrs	4.249	4.249	0.354	0.497	4.724	0.963
52	☐	CDT-1602	1.250	6.790	0.941	2.587	Free Surface	0 - 11:18:59 hrs	5.178	5.178	0.381	0.427	4.203	0.963
53	☐	CDT-1604	1.250	4.889	0.488	2.587	Free Surface	0 - 11:18:00 hrs	4.303	4.303	0.529	0.492	2.302	0.963
54	☐	CDT-1606	1.250	6.588	0.886	2.588	Free Surface	0 - 11:15:59 hrs	4.345	4.346	0.393	0.489	4.000	0.963
55	☐	CDT-1608	1.250	8.193	1.371	2.589	Free Surface	0 - 11:15:00 hrs	5.447	5.448	0.316	0.411	5.604	0.963
56	☐	CDT-1610	1.250	6.870	0.964	2.589	Free Surface	0 - 11:15:00 hrs	5.368	5.368	0.377	0.415	4.281	0.963
57	☐	CDT-1612	1.250	5.475	0.612	2.589	Free Surface	0 - 11:14:00 hrs	4.491	4.491	0.473	0.476	2.886	0.963
58	☐	CDT-1614	1.250	5.377	0.590	2.589	Free Surface	0 - 11:12:59 hrs	4.214	4.215	0.482	0.501	2.788	0.963
59	☐	CDT-1616	1.250	7.320	1.094	2.590	Free Surface	0 - 11:11:59 hrs	4.810	4.810	0.354	0.452	4.730	0.963
60	☐	CDT-1618	1.250	6.930	0.981	2.591	Free Surface	0 - 11:11:59 hrs	5.276	5.276	0.374	0.421	4.339	0.963
61	☐	CDT-1620	1.250	9.593	1.879	2.591	Free Surface	0 - 11:11:00 hrs	5.783	5.784	0.270	0.393	7.002	0.963
62	☐	CDT-1622	1.250	8.126	1.348	2.591	Free Surface	0 - 11:10:00 hrs	6.083	6.083	0.319	0.379	5.535	0.963
63	☐	CDT-1624	1.000	4.548	1.389	2.592	Free Surface	0 - 11:08:59 hrs	6.114	6.114	0.570	0.531	1.957	0.963
64	☐	CDT-1626	1.000	4.369	1.281	2.593	Free Surface	0 - 11:07:59 hrs	5.755	5.755	0.594	0.558	1.776	0.963
65	☐	CDT-1628	1.000	4.089	1.123	2.595	Free Surface	0 - 11:06:00 hrs	5.564	5.564	0.635	0.574	1.494	0.963
66	☐	CDT-1630	1.000	5.166	1.792	2.596	Free Surface	0 - 11:04:59 hrs	5.913	5.914	0.502	0.546	2.570	0.963
67	☐	CDT-1632	1.000	5.197	1.813	2.597	Free Surface	0 - 11:04:59 hrs	6.556	6.556	0.500	0.503	2.600	0.963
68	☐	CDT-1634	1.000	4.873	1.594	2.597	Free Surface	0 - 11:03:59 hrs	6.321	6.321	0.533	0.518	2.276	0.963
69	☐	CDT-1636	1.000	5.181	1.802	2.597	Free Surface	0 - 11:03:59 hrs	6.349	6.349	0.501	0.516	2.584	0.963
70	☐	CDT-1638	1.000	6.756	3.064	2.597	Free Surface	0 - 11:03:00 hrs	7.242	7.242	0.384	0.466	4.159	0.963
71	☐	CDT-1640	1.000	5.727	2.202	2.598	Free Surface	0 - 11:03:00 hrs	7.294	7.294	0.454	0.463	3.130	0.963
72	☐	CDT-1642	1.000	5.051	1.713	2.598	Free Surface	0 - 11:02:00 hrs	6.503	6.503	0.514	0.507	2.453	0.963
73	☐	CDT-1644	0.833	1.965	0.686	0.158	Free Surface	0 - 11:00:59 hrs	2.087	2.088	0.080	0.196	1.808	0.059
74	☐	CDT-1646	0.833	1.784	0.565	0.158	Free Surface	0 - 11:02:00 hrs	1.930	1.930	0.088	0.207	1.627	0.059
75	☐	CDT-1648	0.833	1.577	0.442	0.157	Free Surface	0 - 11:03:59 hrs	1.835	1.835	0.100	0.214	1.420	0.059
76	☐	CDT-1650	0.833	1.570	0.438	0.159	Free Surface	0 - 11:04:59 hrs	1.822	1.822	0.101	0.218	1.411	0.060
77	☐	CDT-1652	0.833	1.555	0.429	0.165	Free Surface	0 - 11:00:00 hrs	1.839	1.839	0.106	0.222	1.390	0.063
78	☐	CDT-1654	0.833	1.558	0.431	0.170	Free Surface	0 - 11:00:00 hrs	1.808	1.808	0.109	0.229	1.387	0.064
79	☐	CDT-1656	0.833	1.593	0.451	0.170	Free Surface	0 - 11:00:59 hrs	2.203	2.203	0.107	0.199	1.423	0.065
80	☐	CDT-1658	0.833	2.900	1.493	0.170	Free Surface	0 - 11:00:59 hrs	1.965	2.140	0.059	0.216	2.730	0.065
81	☐	CDT-1660	0.833	2.561	1.164	0.041	Free Surface	0 - 10:00:59 hrs	2.005	2.020	0.016	0.081	2.520	0.015
82	☐	CDT-1662	0.833	4.643	3.826	0.041	Free Surface	0 - 10:07:59 hrs	2.405	2.480	0.009	0.071	4.602	0.015
83	☐	CDT-1664	0.833	2.387	1.011	0.001	Free Surface	0 - 00:00:00 hrs	0.472	0.472	0.000	0.012	2.386	0.000
84	☐	CDT-1666	0.833	2.413	1.033	0.001	Free Surface	0 - 00:08:00 hrs	0.385	0.385	0.000	0.014	2.412	0.000
85	☐	CDT-1670	0.833	2.164	0.831	0.001	Free Surface	0 - 00:00:00 hrs	0.421	0.421	0.000	0.019	2.163	0.001
86	☐	CDT-1672	0.833	2.163	0.830	0.002	Free Surface	0 - 00:26:00 hrs	0.526	0.526	0.001	0.022	2.161	0.001
87	☐	CDT-1674	0.833	2.164	0.831	0.002	Free Surface	0 - 00:42:59 hrs	0.364	0.406	0.001	0.040	2.162	0.001
88	☐	CDT-1676	0.833	1.975	0.692	0.013	Free Surface	0 - 11:00:00 hrs	0.806	0.808	0.006	0.067	1.962	0.005
89	☐	CDT-1678	0.833	1.970	0.689	0.024	Free Surface	0 - 11:00:00 hrs	0.985	0.986	0.012	0.089	1.946	0.009
90	☐	CDT-1680	0.833	1.866	0.618	0.053	Free Surface	0 - 11:00:00 hrs	0.994	1.363	0.028	0.154	1.814	0.020
91	☐	CDT-1682	0.833	1.988	0.702	0.043	Free Surface	0 - 11:00:00 hrs	1.333	1.334	0.021	0.108	1.946	0.016
92	☐	CDT-1684	0.833	1.895	0.637	0.053	Free Surface	0 - 11:00:00 hrs	1.510	1.510	0.028	0.115	1.842	0.020
93	☐	CDT-1686	0.833	1.907	0.646	0.015	Free Surface	0 - 10:11:59 hrs	1.180	1.189	0.008	0.058	1.892	0.006
94	☐	CDT-1688	0.833	3.001	1.598	0.015	Free Surface	0 - 10:23:59 hrs	1.220	1.232	0.005	0.057	2.986	0.006
95	☐	CDT-1690	0.833	1.930	0.661	0.015	Free Surface	0 - 10:37:00 hrs	0.899	0.929	0.008	0.070	1.915	0.006
96	☐	CDT-1692	0.833	2.716	1.309	0.029	Free Surface	0 - 10:38:59 hrs	1.875	1.875	0.011	0.066	2.687	0.011
97	☐	CDT-1694	0.833	4.920	4.296	0.029	Free Surface	0 - 10:41:00 hrs	2.018	2.018	0.006	0.063	4.891	0.011
98	☐	CDT-1696	0.833	2.939	1.533	0.029	Free Surface	0 - 10:40:00 hrs	1.763	1.763	0.010	0.068	2.910	0.011
99	☐	CDT-1698	0.833	3.266	1.894	0.029	Free Surface	0 - 10:45:00 hrs	1.448	1.448	0.009	0.079	3.238	0.011
100	☐	CDT-1700	0.833	1.702	0.514	0.029	Free Surface	0 - 10:37:00 hrs	1.176	1.177	0.017	0.090	1.673	0.011

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		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
101	☐	CDT-1702	0.833	1.727	0.529	0.029	Free Surface	0 - 10:45:00 hrs	1.162	1.163	0.017	0.091	1.698	0.011
102	☐	CDT-1704	0.833	1.655	0.486	0.029	Free Surface	0 - 10:51:00 hrs	1.155	1.155	0.017	0.091	1.627	0.011
103	☐	CDT-1706	0.833	1.709	0.518	0.029	Free Surface	0 - 10:53:59 hrs	1.178	1.178	0.017	0.090	1.680	0.011
104	☐	CDT-1708	0.833	1.760	0.550	0.029	Free Surface	0 - 10:56:00 hrs	1.216	1.216	0.016	0.088	1.731	0.011
105	☐	CDT-1710	0.833	1.860	0.614	0.029	Free Surface	0 - 10:59:00 hrs	1.214	1.214	0.015	0.088	1.831	0.011
106	☐	CDT-1712	0.833	1.742	0.539	0.029	Free Surface	0 - 11:02:00 hrs	1.186	1.186	0.017	0.090	1.714	0.011
107	☐	CDT-1714	0.833	1.754	0.546	0.029	Free Surface	0 - 10:59:00 hrs	1.205	1.207	0.016	0.089	1.725	0.011
108	☐	CDT-1716	0.833	1.801	0.575	0.029	Free Surface	0 - 11:07:00 hrs	1.107	1.109	0.016	0.094	1.772	0.011
109	☐	CDT-1718	0.833	1.629	0.471	0.029	Free Surface	0 - 11:10:00 hrs	1.411	1.411	0.018	0.080	1.600	0.011
110	☐	CDT-1720	0.833	4.085	2.963	0.029	Free Surface	0 - 11:11:00 hrs	2.015	2.015	0.007	0.063	4.057	0.011
111	☐	CDT-1722	0.833	3.593	2.292	0.029	Free Surface	0 - 11:11:59 hrs	2.122	2.122	0.008	0.061	3.565	0.011
112	☐	CDT-1724	0.833	4.814	4.114	0.029	Free Surface	0 - 11:12:59 hrs	2.475	2.475	0.006	0.054	4.786	0.011
113	☐	CDT-1726	0.833	5.273	4.934	0.029	Free Surface	0 - 11:12:59 hrs	2.516	2.516	0.005	0.054	5.244	0.011
114	☐	CDT-1728	0.833	4.939	4.330	0.029	Free Surface	0 - 11:14:00 hrs	2.334	2.334	0.006	0.057	4.910	0.011
115	☐	CDT-1730	0.833	4.242	3.194	0.029	Free Surface	0 - 11:15:59 hrs	2.202	2.202	0.007	0.059	4.213	0.011
116	☐	CDT-1732	0.833	4.142	3.045	0.029	Free Surface	0 - 11:18:00 hrs	2.042	2.042	0.007	0.062	4.113	0.011
117	☐	CDT-1734	0.833	4.027	2.878	0.035	Free Surface	0 - 11:00:00 hrs	2.008	2.035	0.009	0.071	3.992	0.013
118	☐	CDT-1736	1.000	3.283	0.723	0.738	Free Surface	0 - 11:00:00 hrs	3.279	3.279	0.225	0.329	2.545	0.272
119	☐	CDT-1738	1.000	3.284	0.724	0.738	Free Surface	0 - 11:00:00 hrs	3.337	3.337	0.225	0.325	2.546	0.272
120	☐	CDT-1740	1.000	3.280	0.722	0.737	Free Surface	0 - 11:00:59 hrs	3.348	3.348	0.225	0.324	2.542	0.272
121	☐	CDT-1742	1.000	3.282	0.723	0.737	Free Surface	0 - 11:02:00 hrs	3.302	3.303	0.225	0.327	2.545	0.272
122	☐	CDT-1744	1.000	3.281	0.723	0.737	Free Surface	0 - 11:02:00 hrs	3.440	3.441	0.225	0.317	2.544	0.272
123	☐	CDT-1746	1.000	3.693	0.915	0.737	Free Surface	0 - 11:03:00 hrs	3.568	3.569	0.199	0.309	2.957	0.272
124	☐	CDT-1748	1.000	4.049	1.101	1.766	Free Surface	0 - 11:00:00 hrs	4.936	4.952	0.436	0.465	2.283	0.652
125	☐	CDT-1750	1.000	4.478	1.346	1.870	Free Surface	0 - 11:00:00 hrs	5.279	5.279	0.418	0.462	2.607	0.691
126	☐	CDT-1752	1.000	4.477	1.346	1.870	Free Surface	0 - 11:00:00 hrs	5.306	5.306	0.418	0.460	2.608	0.691
127	☐	CDT-1754	1.000	4.478	1.346	1.869	Free Surface	0 - 11:00:00 hrs	5.313	5.313	0.417	0.459	2.609	0.691
128	☐	CDT-1756	1.000	4.478	1.346	1.869	Free Surface	0 - 11:00:00 hrs	5.351	5.351	0.417	0.456	2.609	0.691
129	☐	CDT-1758	1.000	4.477	1.345	1.868	Free Surface	0 - 11:00:59 hrs	5.348	5.348	0.417	0.457	2.609	0.691
130	☐	CDT-465	0.667	1.061	0.657	0.081	Free Surface	0 - 11:00:00 hrs	1.738	1.738	0.076	0.191	0.980	0.030
131	☐	CDT-467	0.667	1.029	0.618	0.086	Free Surface	0 - 11:00:00 hrs	1.649	1.662	0.083	0.206	0.943	0.032
132	☐	CDT-469	0.667	1.110	0.719	0.073	Free Surface	0 - 11:00:00 hrs	2.068	2.068	0.066	0.158	1.037	0.027
133	☐	CDT-471	0.667	0.751	0.329	0.085	Free Surface	0 - 11:00:00 hrs	1.090	1.090	0.113	0.275	0.666	0.031
134	☐	CDT-473	0.667	2.020	2.382	0.075	Free Surface	0 - 11:00:00 hrs	0.954	0.962	0.037	0.275	1.946	0.027
135	☐	CDT-475	0.667	2.268	3.002	0.070	Free Surface	0 - 11:00:00 hrs	2.076	2.077	0.031	0.152	2.198	0.025
136	☐	CDT-477	0.667	1.706	1.699	0.063	Free Surface	0 - 11:00:00 hrs	2.430	2.430	0.037	0.127	1.643	0.023
137	☐	CDT-479	0.667	2.304	3.097	0.191	Free Surface	0 - 11:00:00 hrs	3.725	3.729	0.083	0.204	2.113	0.070
138	☐	CDT-481	0.667	2.266	2.997	0.074	Free Surface	0 - 10:33:59 hrs	2.916	2.916	0.033	0.126	2.192	0.027
139	☐	CDT-483	0.667	2.495	3.633	0.074	Free Surface	0 - 10:33:00 hrs	3.080	3.080	0.030	0.121	2.421	0.027
140	☐	CDT-485	0.667	2.018	2.376	0.074	Free Surface	0 - 10:32:00 hrs	2.876	2.876	0.037	0.127	1.944	0.027
141	☐	CDT-487	0.667	1.319	1.015	0.069	Free Surface	0 - 10:30:59 hrs	2.152	2.152	0.053	0.148	1.250	0.025
142	☐	CDT-489	0.667	1.021	0.608	0.075	Free Surface	0 - 10:48:59 hrs	1.991	1.993	0.073	0.165	0.946	0.027
143	☐	CDT-491	0.667	2.056	2.467	0.078	Free Surface	0 - 10:49:59 hrs	2.627	2.627	0.038	0.140	1.978	0.029
144	☐	CDT-493	0.833	2.314	0.950	0.333	Free Surface	0 - 11:00:00 hrs	2.785	2.785	0.144	0.271	1.981	0.124
145	☐	CDT-495	0.667	1.012	0.597	0.046	Free Surface	0 - 11:00:00 hrs	1.540	1.544	0.046	0.141	0.965	0.017
146	☐	CDT-497	0.667	2.446	3.492	0.043	Free Surface	0 - 10:45:00 hrs	1.805	1.822	0.018	0.120	2.404	0.016
147	☐	CDT-499	0.667	1.761	1.809	0.034	Free Surface	0 - 10:49:59 hrs	1.487	1.526	0.020	0.118	1.727	0.013
148	☐	CDT-501	0.667	0.992	0.574	0.036	Free Surface	0 - 10:40:00 hrs	1.595	1.597	0.036	0.115	0.956	0.013
149	☐	CDT-503	0.667	2.429	3.443	0.029	Free Surface	0 - 10:03:59 hrs	2.447	2.473	0.012	0.075	2.400	0.011
150	☐	CDT-505	0.667	3.091	5.574	0.032	Free Surface	0 - 10:10:00 hrs	2.271	2.331	0.010	0.084	3.059	0.012

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		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
151		CDT-507	0.667	1.231	0.884	0.229	Free Surface	0 - 11:00:00 hrs	3.067	3.067	0.186	0.266	1.002	0.084
152		CDT-509	0.667	1.967	2.257	0.221	Free Surface	0 - 11:00:00 hrs	3.472	3.476	0.112	0.238	1.746	0.081
153		CDT-511	0.667	1.760	1.807	0.229	Free Surface	0 - 11:00:00 hrs	2.581	2.581	0.130	0.302	1.531	0.084
154		CDT-513	0.833	3.172	1.786	0.573	Free Surface	0 - 11:00:00 hrs	4.159	4.159	0.181	0.300	2.600	0.212
155		CDT-515	0.833	2.702	1.296	0.573	Free Surface	0 - 11:00:00 hrs	3.864	3.864	0.212	0.316	2.130	0.212
156		CDT-517	0.833	2.613	1.212	0.573	Free Surface	0 - 11:00:00 hrs	3.829	3.829	0.219	0.319	2.040	0.212
157		CDT-519	0.833	2.635	1.233	0.573	Free Surface	0 - 11:00:59 hrs	3.799	3.799	0.217	0.320	2.063	0.212
158		CDT-521	0.833	2.578	1.179	0.572	Free Surface	0 - 11:02:00 hrs	3.792	3.792	0.222	0.321	2.005	0.212
159		CDT-523	0.833	2.674	1.269	0.572	Free Surface	0 - 11:02:00 hrs	3.899	3.899	0.214	0.314	2.102	0.212
160		CDT-525	0.833	2.726	1.319	0.572	Free Surface	0 - 11:03:00 hrs	3.689	3.690	0.210	0.331	2.153	0.212
161		CDT-527	0.833	2.587	1.188	0.676	Free Surface	0 - 11:00:00 hrs	3.978	3.978	0.261	0.349	1.912	0.249
162		CDT-529	0.833	2.591	1.192	0.675	Free Surface	0 - 11:00:00 hrs	3.881	3.887	0.261	0.356	1.916	0.249
163		CDT-531	1.000	2.770	0.515	0.316	Free Surface	0 - 11:00:00 hrs	2.769	2.769	0.114	0.203	2.454	0.118
164		CDT-533	1.000	3.010	0.608	0.314	Free Surface	0 - 11:00:00 hrs	2.271	2.271	0.104	0.232	2.696	0.117
165		CDT-535	1.000	3.015	0.610	0.313	Free Surface	0 - 11:00:00 hrs	2.471	2.471	0.104	0.218	2.702	0.117
166		CDT-537	1.000	2.803	0.527	0.304	Free Surface	0 - 11:00:00 hrs	2.349	2.349	0.108	0.221	2.499	0.113
167		CDT-539	0.667	0.965	0.543	0.052	Free Surface	0 - 10:59:00 hrs	1.398	1.410	0.054	0.164	0.912	0.019
168		CDT-541	0.667	1.160	0.785	0.097	Free Surface	0 - 11:00:00 hrs	1.786	1.786	0.083	0.212	1.063	0.035
169		CDT-543	0.667	0.977	0.557	0.098	Free Surface	0 - 11:00:00 hrs	2.125	2.127	0.100	0.189	0.879	0.036
170		CDT-545	0.667	2.041	2.430	0.087	Free Surface	0 - 11:00:00 hrs	2.243	2.247	0.043	0.168	1.954	0.032
171		CDT-547	0.833	2.331	0.964	0.333	Free Surface	0 - 11:02:00 hrs	3.590	3.590	0.143	0.226	1.998	0.124
172		CDT-549	0.833	4.992	4.424	0.333	Free Surface	0 - 11:02:00 hrs	4.535	4.535	0.067	0.192	4.660	0.124
173		CDT-551	0.833	3.474	2.142	0.333	Free Surface	0 - 11:03:00 hrs	4.001	4.001	0.096	0.210	3.141	0.124
174		CDT-553	0.833	3.436	2.095	0.333	Free Surface	0 - 11:03:59 hrs	3.944	3.944	0.097	0.212	3.103	0.124
175		CDT-555	0.833	3.325	1.962	0.333	Free Surface	0 - 11:03:59 hrs	3.778	3.779	0.100	0.219	2.992	0.124
176		CDT-557	0.833	3.192	1.809	0.341	Free Surface	0 - 11:00:00 hrs	3.906	3.906	0.107	0.217	2.851	0.127
177		CDT-559	0.833	3.539	2.223	0.344	Free Surface	0 - 11:00:00 hrs	3.238	3.269	0.097	0.249	3.196	0.128
178		CDT-561	0.500	0.636	1.095	0.007	Free Surface	0 - 10:11:59 hrs	1.287	1.294	0.011	0.066	0.629	0.003
179		CDT-563	0.500	1.359	5.000	0.007	Free Surface	0 - 10:18:59 hrs	1.682	1.683	0.005	0.055	1.352	0.003
180		CDT-565	0.500	1.118	3.382	0.007	Free Surface	0 - 10:22:00 hrs	1.630	1.630	0.006	0.056	1.111	0.003
181		CDT-567	0.500	1.235	4.130	0.007	Free Surface	0 - 10:21:00 hrs	1.700	1.705	0.006	0.054	1.228	0.003
182		CDT-569	0.500	0.816	1.804	0.007	Free Surface	0 - 11:00:00 hrs	1.059	1.074	0.009	0.075	0.809	0.003
183		CDT-571	0.500	1.234	4.120	0.007	Free Surface	0 - 10:27:59 hrs	1.475	1.485	0.006	0.060	1.227	0.003
184		CDT-573	1.000	5.055	1.716	1.710	Free Surface	0 - 11:00:00 hrs	5.126	5.127	0.338	0.441	3.345	0.626
185		CDT-575	1.000	4.310	1.247	1.711	Free Surface	0 - 11:00:00 hrs	5.351	5.351	0.397	0.427	2.599	0.626
186		CDT-579	1.000	4.536	1.381	1.689	Free Surface	0 - 11:00:00 hrs	5.678	5.678	0.372	0.404	2.847	0.617
187		CDT-581	1.000	3.962	1.054	1.707	Free Surface	0 - 11:00:59 hrs	5.249	5.249	0.431	0.432	2.256	0.626
188		CDT-583	1.000	4.347	1.268	1.750	Free Surface	0 - 11:00:00 hrs	5.052	5.052	0.403	0.454	2.597	0.645
189		CDT-589	1.000	4.483	1.349	1.867	Free Surface	0 - 11:00:59 hrs	5.456	5.456	0.416	0.449	2.616	0.691
190		CDT-591	1.000	4.644	1.448	1.866	Free Surface	0 - 11:02:00 hrs	5.020	5.021	0.402	0.479	2.778	0.691
191		CDT-595	0.833	2.689	1.284	0.728	Free Surface	0 - 11:00:00 hrs	4.304	4.304	0.271	0.348	1.962	0.268
192		CDT-597	0.833	3.076	1.680	0.738	Free Surface	0 - 11:00:00 hrs	4.065	4.065	0.240	0.367	2.338	0.272
193		CDT-603	1.000	3.422	0.786	0.736	Free Surface	0 - 11:03:59 hrs	2.383	2.386	0.215	0.416	2.686	0.272
194		CDT-605	1.000	3.631	0.885	0.298	Free Surface	0 - 11:00:00 hrs	2.503	2.503	0.082	0.209	3.333	0.111
195		CDT-607	0.667	2.202	2.829	0.112	Free Surface	0 - 11:00:00 hrs	3.044	3.052	0.051	0.162	2.090	0.041
196		CDT-609	0.833	1.921	0.655	0.246	Free Surface	0 - 11:00:00 hrs	2.365	2.387	0.128	0.245	1.676	0.092
197		CDT-611	0.833	1.935	0.664	0.245	Free Surface	0 - 11:00:00 hrs	2.418	2.418	0.127	0.241	1.690	0.092
198		CDT-613	0.833	2.665	1.261	0.239	Free Surface	0 - 11:00:00 hrs	2.660	2.660	0.090	0.222	2.426	0.089
199		CDT-615	0.833	2.443	1.060	0.333	Free Surface	0 - 11:00:00 hrs	3.073	3.073	0.136	0.253	2.110	0.124
200		CDT-617	0.667	1.876	2.053	0.085	Free Surface	0 - 10:47:00 hrs	1.414	1.543	0.045	0.228	1.791	0.031

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
201	☐	CDT-619	0.667	2.413	3.396	0.081	Free Surface	0 - 10:08:59 hrs	2.883	2.953	0.034	0.135	2.331	0.030
202	☐	CDT-621	0.667	2.341	3.198	0.082	Free Surface	0 - 10:03:00 hrs	3.191	3.238	0.035	0.127	2.259	0.030
203	☐	CDT-623	0.833	3.924	2.733	0.047	Free Surface	0 - 11:00:00 hrs	1.861	1.864	0.012	0.092	3.878	0.017
204	☐	CDT-625	0.667	1.801	1.893	0.081	Free Surface	0 - 10:52:59 hrs	2.747	2.747	0.045	0.139	1.720	0.029
205	☐	CDT-627	0.667	2.317	3.134	0.083	Free Surface	0 - 10:52:59 hrs	3.156	3.156	0.036	0.129	2.234	0.030
206	☐	CDT-629	0.667	2.519	3.704	0.088	Free Surface	0 - 10:56:59 hrs	3.119	3.119	0.035	0.135	2.431	0.032
207	☐	CDT-631	0.667	2.146	2.686	0.094	Free Surface	0 - 11:00:00 hrs	2.975	2.975	0.044	0.146	2.052	0.034
208	☐	CDT-633	0.667	2.071	2.502	0.100	Free Surface	0 - 11:00:00 hrs	2.981	2.981	0.048	0.152	1.971	0.036
209	☐	CDT-635	0.667	1.965	2.252	0.125	Free Surface	0 - 11:00:00 hrs	2.675	2.676	0.064	0.192	1.840	0.046
210	☐	CDT-637	0.667	2.128	2.641	0.109	Free Surface	0 - 11:00:00 hrs	3.202	3.202	0.051	0.154	2.019	0.040
211	☐	CDT-639	0.667	1.492	1.299	0.147	Free Surface	0 - 11:00:00 hrs	2.678	2.678	0.099	0.215	1.345	0.054
212	☐	CDT-641	0.667	1.672	1.631	0.170	Free Surface	0 - 11:00:00 hrs	3.114	3.114	0.102	0.213	1.502	0.062
213	☐	CDT-643	0.667	1.982	2.292	0.184	Free Surface	0 - 11:00:00 hrs	3.655	3.655	0.093	0.202	1.797	0.067
214	☐	CDT-645	0.667	1.956	2.232	0.196	Free Surface	0 - 11:00:00 hrs	3.152	3.152	0.100	0.234	1.760	0.071
215	☐	CDT-647	0.667	1.464	1.250	0.196	Free Surface	0 - 11:00:00 hrs	3.025	3.025	0.134	0.241	1.268	0.072
216	☐	CDT-649	0.667	1.744	1.776	0.199	Free Surface	0 - 11:00:00 hrs	3.141	3.141	0.114	0.238	1.545	0.073
217	☐	CDT-651	0.667	1.557	1.414	0.206	Free Surface	0 - 11:00:00 hrs	3.086	3.086	0.132	0.246	1.351	0.075
218	☐	CDT-653	0.667	1.625	1.540	0.215	Free Surface	0 - 11:00:00 hrs	2.812	2.812	0.132	0.271	1.410	0.078
219	☐	CDT-655	0.667	1.279	0.955	0.220	Free Surface	0 - 11:00:00 hrs	3.030	3.030	0.172	0.261	1.060	0.080
220	☐	CDT-657	0.667	2.345	3.209	0.229	Free Surface	0 - 11:00:00 hrs	3.838	3.838	0.098	0.227	2.116	0.084
221	☐	CDT-659	0.833	5.344	5.069	0.153	Free Surface	0 - 11:00:00 hrs	2.498	2.498	0.029	0.169	5.191	0.056
222	☐	CDT-661	0.833	2.836	1.427	0.127	Free Surface	0 - 11:00:00 hrs	2.921	2.921	0.045	0.133	2.709	0.047
223	☐	CDT-663	0.833	3.028	1.627	0.073	Free Surface	0 - 11:00:00 hrs	1.767	1.768	0.024	0.129	2.955	0.027
224	☐	CDT-665	0.833	2.359	0.988	0.333	Free Surface	0 - 11:00:59 hrs	3.922	3.922	0.141	0.213	2.026	0.124
225	☐	CDT-667	0.833	7.952	11.225	0.333	Free Surface	0 - 11:00:59 hrs	4.031	4.031	0.042	0.209	7.620	0.124
226	☐	CDT-671	1.000	4.181	1.173	1.184	Free Surface	0 - 11:00:00 hrs	4.435	4.436	0.283	0.373	2.997	0.430
227	☐	CDT-673	1.000	4.233	1.203	1.254	Free Surface	0 - 11:00:00 hrs	4.441	4.441	0.296	0.389	2.979	0.456
228	☐	CDT-675	1.000	3.719	0.929	1.279	Free Surface	0 - 11:00:00 hrs	3.476	3.476	0.344	0.475	2.441	0.466
229	☐	CDT-677	0.667	2.159	2.719	0.346	Free Surface	0 - 11:00:00 hrs	2.609	2.634	0.160	0.405	1.813	0.118
230	☐	CDT-679	0.667	2.076	2.515	0.345	Free Surface	0 - 11:00:00 hrs	4.399	4.399	0.166	0.276	1.731	0.117
231	☐	CDT-681	0.667	2.621	4.007	0.343	Free Surface	0 - 11:00:00 hrs	4.688	4.688	0.131	0.263	2.278	0.117
232	☐	CDT-683	0.833	5.152	4.712	0.767	Free Surface	0 - 11:00:00 hrs	5.080	5.083	0.149	0.321	4.385	0.284
233	☐	CDT-685	0.833	2.808	1.400	0.763	Free Surface	0 - 11:00:00 hrs	4.906	4.906	0.272	0.328	2.045	0.282
234	☐	CDT-687	0.833	2.825	1.416	0.758	Free Surface	0 - 11:00:00 hrs	4.065	4.065	0.268	0.374	2.067	0.280
235	☐	CDT-689	0.833	2.322	0.957	0.748	Free Surface	0 - 11:00:00 hrs	3.939	3.939	0.322	0.379	1.574	0.276
236	☐	CDT-691	0.833	2.702	1.296	0.670	Free Surface	0 - 11:00:00 hrs	3.621	3.621	0.248	0.372	2.032	0.247
237	☐	CDT-693	0.833	2.590	1.191	0.659	Free Surface	0 - 11:00:00 hrs	3.967	3.967	0.255	0.344	1.931	0.244
238	☐	CDT-695	0.833	2.558	1.161	0.625	Free Surface	0 - 11:00:00 hrs	3.709	3.709	0.244	0.348	1.933	0.231
239	☐	CDT-697	0.833	2.430	1.048	0.638	Free Surface	0 - 11:00:00 hrs	3.834	3.834	0.263	0.344	1.791	0.236
240	☐	CDT-699	0.833	2.760	1.352	0.650	Free Surface	0 - 11:00:00 hrs	3.983	3.983	0.236	0.340	2.110	0.240
241	☐	CDT-701	0.667	0.966	0.545	0.048	Free Surface	0 - 11:00:00 hrs	1.449	1.449	0.050	0.151	0.918	0.018
242	☐	CDT-703	0.667	1.154	0.777	0.056	Free Surface	0 - 11:00:00 hrs	1.553	1.558	0.048	0.159	1.099	0.020
243	☐	CDT-705	0.667	1.099	0.704	0.053	Free Surface	0 - 11:00:00 hrs	1.614	1.614	0.048	0.149	1.046	0.019
244	☐	CDT-707	0.667	1.143	0.762	0.071	Free Surface	0 - 11:00:00 hrs	0.686	0.711	0.062	0.338	1.072	0.026
245	☐	CDT-709	0.667	0.984	0.565	0.100	Free Surface	0 - 10:34:59 hrs	1.852	1.853	0.102	0.212	0.884	0.037
246	☐	CDT-711	0.667	1.079	0.679	0.100	Free Surface	0 - 10:42:59 hrs	1.229	1.249	0.093	0.285	0.978	0.037
247	☐	CDT-713	0.667	1.475	1.270	0.419	Free Surface	0 - 11:00:00 hrs	3.575	3.575	0.284	0.370	1.056	0.153
248	☐	CDT-715	0.667	1.415	1.168	0.423	Free Surface	0 - 11:00:00 hrs	3.493	3.493	0.299	0.378	0.992	0.154
249	☐	CDT-717	0.667	1.512	1.335	0.425	Free Surface	0 - 11:00:00 hrs	4.085	4.085	0.281	0.338	1.088	0.155
250	☐	CDT-719	0.667	2.258	2.974	0.428	Free Surface	0 - 11:00:00 hrs	3.887	3.887	0.189	0.352	1.830	0.156

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251	☐	CDT-721	0.833	2.571	1.173	0.598	Free Surface	0 - 11:00:00 hrs	3.714	3.714	0.233	0.336	1.973	0.220
252	☐	CDT-723	0.833	2.395	1.018	0.600	Free Surface	0 - 11:00:00 hrs	3.644	3.646	0.251	0.342	1.795	0.221
253	☐	CDT-725	0.833	2.536	1.142	0.614	Free Surface	0 - 11:00:00 hrs	3.783	3.783	0.242	0.338	1.922	0.227
254	☐	CDT-727	0.667	1.028	0.616	0.085	Free Surface	0 - 11:00:00 hrs	1.685	1.690	0.083	0.202	0.943	0.031
255	☐	CDT-729	0.667	0.975	0.555	0.094	Free Surface	0 - 10:59:00 hrs	1.718	1.719	0.096	0.214	0.881	0.034
256	☐	CDT-731	0.667	1.359	1.078	0.250	Free Surface	0 - 11:00:00 hrs	3.704	3.704	0.184	0.248	1.109	0.091
257	☐	CDT-733	0.667	3.874	8.758	0.253	Free Surface	0 - 11:00:00 hrs	3.340	3.340	0.065	0.269	3.622	0.092
258	☐	CDT-735	0.667	2.344	3.205	0.070	Free Surface	0 - 10:52:00 hrs	2.425	2.435	0.030	0.137	2.274	0.025
259	☐	CDT-737	0.667	1.351	1.064	0.071	Free Surface	0 - 10:55:00 hrs	1.938	1.939	0.052	0.161	1.280	0.026
260	☐	CDT-739	0.667	1.209	0.853	0.074	Free Surface	0 - 10:56:59 hrs	1.712	1.717	0.061	0.181	1.135	0.027
261	☐	CDT-741	0.667	0.965	0.543	0.061	Free Surface	0 - 11:00:00 hrs	1.504	1.515	0.063	0.173	0.904	0.022
262	☐	CDT-743	0.667	0.961	0.538	0.065	Free Surface	0 - 11:00:00 hrs	0.853	0.895	0.068	0.271	0.895	0.024
263	☐	CDT-745	0.667	2.489	3.615	0.243	Free Surface	0 - 11:00:00 hrs	3.239	3.239	0.098	0.267	2.246	0.089
264	☐	CDT-747	0.667	1.542	1.387	0.199	Free Surface	0 - 11:00:00 hrs	3.580	3.580	0.129	0.217	1.342	0.073
265	☐	CDT-749	0.667	3.229	6.083	0.207	Free Surface	0 - 11:00:00 hrs	3.806	3.806	0.064	0.213	3.022	0.076
266	☐	CDT-751	0.667	2.574	3.867	0.024	Free Surface	0 - 10:23:59 hrs	1.631	1.670	0.009	0.087	2.550	0.009
267	☐	CDT-753	0.667	1.693	1.672	0.189	Free Surface	0 - 11:00:00 hrs	3.735	3.735	0.111	0.202	1.504	0.069
268	☐	CDT-755	0.667	3.394	6.722	0.195	Free Surface	0 - 11:00:00 hrs	3.602	3.602	0.057	0.212	3.199	0.071
269	☐	CDT-757	0.667	1.182	0.815	0.148	Free Surface	0 - 11:00:00 hrs	2.205	2.205	0.125	0.247	1.034	0.054
270	☐	CDT-759	0.667	1.122	0.735	0.157	Free Surface	0 - 11:00:00 hrs	2.311	2.314	0.140	0.249	0.966	0.057
271	☐	CDT-761	0.667	1.641	1.570	0.216	Free Surface	0 - 11:00:00 hrs	3.509	3.509	0.132	0.233	1.424	0.079
272	☐	CDT-763	0.667	1.102	0.708	0.140	Free Surface	0 - 11:00:00 hrs	2.171	2.172	0.127	0.240	0.962	0.051
273	☐	CDT-765	0.667	2.149	2.695	0.118	Free Surface	0 - 11:00:00 hrs	2.376	2.376	0.055	0.200	2.031	0.043
274	☐	CDT-767	0.667	2.303	3.095	0.111	Free Surface	0 - 11:00:00 hrs	3.238	3.238	0.048	0.154	2.192	0.040
275	☐	CDT-769	1.000	4.343	1.266	1.173	Free Surface	0 - 11:00:00 hrs	4.576	4.577	0.270	0.362	3.170	0.425
276	☐	CDT-771	1.000	3.380	0.767	0.827	Free Surface	0 - 11:00:00 hrs	3.397	3.397	0.245	0.348	2.553	0.307
277	☐	CDT-773	1.000	2.606	0.456	0.825	Free Surface	0 - 11:00:00 hrs	3.114	3.114	0.317	0.371	1.781	0.306
278	☐	CDT-775	1.000	3.363	0.759	0.819	Free Surface	0 - 11:00:00 hrs	3.094	3.094	0.244	0.370	2.544	0.304
279	☐	CDT-777	1.000	3.062	0.629	0.806	Free Surface	0 - 11:00:00 hrs	3.341	3.341	0.263	0.346	2.257	0.298
280	☐	CDT-779	1.000	3.627	0.883	0.792	Free Surface	0 - 11:00:00 hrs	3.410	3.410	0.218	0.337	2.835	0.293
281	☐	CDT-781	0.667	1.293	0.975	0.039	Free Surface	0 - 11:00:00 hrs	1.363	1.364	0.030	0.135	1.254	0.014
282	☐	CDT-783	0.667	0.769	0.345	0.035	Free Surface	0 - 11:00:00 hrs	1.226	1.226	0.046	0.137	0.734	0.013
283	☐	CDT-785	0.667	1.426	1.186	0.031	Free Surface	0 - 11:00:00 hrs	1.180	1.180	0.022	0.129	1.395	0.011
284	☐	CDT-787	0.667	0.729	0.310	0.026	Free Surface	0 - 11:00:00 hrs	1.086	1.086	0.036	0.122	0.702	0.010
285	☐	CDT-789	0.667	0.989	0.571	0.018	Free Surface	0 - 11:00:00 hrs	0.777	0.779	0.018	0.118	0.971	0.007
286	☐	CDT-791	0.667	0.448	0.117	0.014	Free Surface	0 - 10:52:00 hrs	0.595	0.595	0.031	0.117	0.434	0.005
287	☐	CDT-793	0.667	1.676	1.640	0.011	Free Surface	0 - 11:00:00 hrs	0.623	0.624	0.007	0.100	1.665	0.004
288	☐	CDT-795	0.667	0.873	0.444	0.008	Free Surface	0 - 11:00:00 hrs	0.833	0.833	0.009	0.065	0.865	0.003
289	☐	CDT-797	0.667	1.000	0.584	0.004	Free Surface	0 - 11:00:00 hrs	0.466	0.469	0.004	0.058	0.997	0.001
290	☐	CDT-799	0.667	1.220	0.869	0.004	Free Surface	0 - 11:00:00 hrs	0.262	0.280	0.003	0.092	1.216	0.002
291	☐	CDT-801	0.667	1.099	0.705	0.001	Free Surface	0 - 10:59:00 hrs	0.272	0.278	0.001	0.033	1.098	0.000
292	☐	CDT-803	0.667	1.075	0.674	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.022	1.075	0.000
293	☐	CDT-805	1.000	2.861	0.549	0.158	Free Surface	0 - 11:00:59 hrs	1.940	1.940	0.055	0.160	2.703	0.059
294	☐	CDT-807	1.000	2.795	0.524	0.158	Free Surface	0 - 11:02:00 hrs	1.885	1.885	0.056	0.163	2.637	0.059
295	☐	CDT-809	1.000	2.719	0.496	0.163	Free Surface	0 - 11:00:00 hrs	1.883	1.883	0.060	0.167	2.556	0.061
296	☐	CDT-811	0.833	1.872	0.622	0.167	Free Surface	0 - 11:00:00 hrs	1.443	1.443	0.089	0.265	1.705	0.063
297	☐	CDT-813	0.667	2.309	3.112	0.214	Free Surface	0 - 11:00:00 hrs	3.169	3.235	0.093	0.248	2.095	0.080
298	☐	CDT-815	0.667	0.869	0.440	0.211	Free Surface	0 - 11:00:00 hrs	2.543	2.543	0.243	0.288	0.657	0.079
299	☐	CDT-817	0.667	1.291	0.973	0.205	Free Surface	0 - 11:00:00 hrs	2.134	2.134	0.159	0.320	1.086	0.077
300	☐	CDT-819	0.667	0.849	0.420	0.195	Free Surface	0 - 11:00:00 hrs	2.165	2.165	0.229	0.305	0.654	0.073

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301	☐	CDT-821	0.667	1.425	1.184	0.182	Free Surface	0 - 11:00:00 hrs	2.157	2.157	0.128	0.290	1.243	0.068
302	☐	CDT-823	0.667	1.943	2.204	0.037	Free Surface	0 - 10:55:00 hrs	2.395	2.395	0.019	0.090	1.906	0.014
303	☐	CDT-825	0.667	3.751	8.212	0.049	Free Surface	0 - 10:49:59 hrs	1.512	1.606	0.013	0.149	3.703	0.018
304	☐	CDT-827	0.667	1.475	1.270	0.153	Free Surface	0 - 11:00:00 hrs	2.529	2.530	0.104	0.229	1.323	0.057
305	☐	CDT-829	0.667	1.657	1.603	0.226	Free Surface	0 - 11:00:00 hrs	3.004	3.004	0.136	0.268	1.432	0.082
306	☐	CDT-831	0.667	1.257	0.923	0.075	Free Surface	0 - 10:45:00 hrs	1.734	1.735	0.059	0.181	1.183	0.027
307	☐	CDT-833	0.667	2.137	2.665	0.074	Free Surface	0 - 10:37:00 hrs	2.339	2.346	0.035	0.146	2.063	0.027
308	☐	CDT-835	0.667	2.357	3.241	0.085	Free Surface	0 - 11:00:00 hrs	3.016	3.016	0.036	0.135	2.272	0.031
309	☐	CDT-837	1.000	2.852	0.546	1.519	Free Surface	0 - 11:00:00 hrs	3.919	3.932	0.533	0.495	1.333	0.554
310	☐	CDT-839	0.833	2.523	1.130	0.223	Free Surface	0 - 11:00:00 hrs	2.872	2.879	0.088	0.200	2.301	0.083
311	☐	CDT-841	0.833	3.394	2.044	0.221	Free Surface	0 - 11:00:00 hrs	3.117	3.117	0.065	0.188	3.172	0.082
312	☐	CDT-843	0.833	1.014	0.182	0.218	Free Surface	0 - 11:00:00 hrs	1.709	1.709	0.215	0.284	0.796	0.081
313	☐	CDT-845	0.833	1.840	0.601	0.221	Free Surface	0 - 11:00:00 hrs	2.630	2.630	0.120	0.211	1.620	0.082
314	☐	CDT-847	0.833	1.803	0.577	0.218	Free Surface	0 - 11:00:00 hrs	1.774	1.774	0.121	0.277	1.585	0.081
315	☐	CDT-849	0.833	3.912	2.717	0.167	Free Surface	0 - 11:00:00 hrs	2.638	2.672	0.043	0.173	3.746	0.062
316	☐	CDT-851	0.833	2.309	0.946	0.214	Free Surface	0 - 11:00:00 hrs	2.404	2.404	0.093	0.220	2.094	0.079
317	☐	CDT-853	0.833	3.562	2.252	0.155	Free Surface	0 - 11:00:00 hrs	2.739	2.742	0.044	0.161	3.407	0.058
318	☐	CDT-855	0.833	2.473	1.086	0.163	Free Surface	0 - 11:00:00 hrs	2.663	2.663	0.066	0.169	2.311	0.060
319	☐	CDT-857	0.833	3.199	1.817	0.166	Free Surface	0 - 11:00:00 hrs	3.247	3.247	0.052	0.150	3.033	0.062
320	☐	CDT-859	0.833	1.662	0.491	0.155	Free Surface	0 - 11:00:00 hrs	2.283	2.283	0.093	0.182	1.507	0.058
321	☐	CDT-861	0.833	2.947	1.541	0.235	Free Surface	0 - 11:00:00 hrs	3.432	3.432	0.080	0.183	2.712	0.087
322	☐	CDT-863	0.833	3.791	2.551	0.236	Free Surface	0 - 11:00:00 hrs	3.379	3.379	0.062	0.186	3.555	0.088
323	☐	CDT-865	0.667	0.998	0.581	0.041	Free Surface	0 - 10:33:59 hrs	1.269	1.310	0.041	0.148	0.957	0.015
324	☐	CDT-867	0.667	1.277	0.952	0.228	Free Surface	0 - 11:00:00 hrs	2.547	2.547	0.179	0.304	1.049	0.083
325	☐	CDT-873	0.667	1.393	1.132	0.066	Free Surface	0 - 11:00:00 hrs	1.943	1.943	0.048	0.154	1.327	0.025
326	☐	CDT-875	0.667	1.352	1.067	0.070	Free Surface	0 - 11:00:00 hrs	2.190	2.190	0.052	0.147	1.282	0.026
327	☐	CDT-877	0.667	1.860	2.019	0.072	Free Surface	0 - 11:00:00 hrs	2.287	2.287	0.039	0.146	1.788	0.027
328	☐	CDT-879	0.667	1.346	1.057	0.072	Free Surface	0 - 11:00:00 hrs	1.834	1.834	0.053	0.170	1.274	0.027
329	☐	CDT-881	0.667	0.998	0.581	0.072	Free Surface	0 - 11:00:00 hrs	1.637	1.639	0.072	0.184	0.926	0.027
330	☐	CDT-883	0.667	2.207	2.843	0.026	Free Surface	0 - 10:45:00 hrs	1.720	1.732	0.012	0.088	2.181	0.009
331	☐	CDT-885	0.667	2.091	2.551	0.015	Free Surface	0 - 10:27:59 hrs	1.417	1.452	0.007	0.068	2.076	0.005
332	☐	CDT-887	0.833	3.378	2.026	0.066	Free Surface	0 - 10:03:59 hrs	2.482	2.517	0.020	0.096	3.312	0.023
333	☐	CDT-893	0.667	0.993	0.575	0.113	Free Surface	0 - 10:06:00 hrs	1.993	2.010	0.114	0.220	0.880	0.028
334	☐	CDT-895	0.667	1.223	0.872	0.114	Free Surface	0 - 10:07:59 hrs	1.976	1.977	0.093	0.222	1.109	0.028
335	☐	CDT-897	0.667	0.942	0.518	0.114	Free Surface	0 - 10:08:59 hrs	1.833	1.834	0.121	0.234	0.828	0.028
336	☐	CDT-899	0.667	0.974	0.554	0.114	Free Surface	0 - 10:08:59 hrs	1.836	1.936	0.117	0.236	0.860	0.028
337	☐	CDT-901	1.000	2.981	0.596	0.166	Free Surface	0 - 10:26:00 hrs	1.627	1.669	0.056	0.191	2.814	0.048
338	☐	CDT-903	1.000	3.094	0.643	0.335	Free Surface	0 - 11:00:59 hrs	2.553	2.553	0.108	0.224	2.759	0.113
339	☐	CDT-905	1.000	3.034	0.618	0.335	Free Surface	0 - 11:02:00 hrs	2.517	2.517	0.110	0.226	2.699	0.113
340	☐	CDT-907	1.000	2.969	0.592	0.335	Free Surface	0 - 11:03:00 hrs	2.486	2.486	0.113	0.228	2.635	0.113
341	☐	CDT-909	1.000	2.923	0.573	0.335	Free Surface	0 - 11:04:59 hrs	2.259	2.259	0.114	0.244	2.588	0.113
342	☐	CDT-911	1.000	2.783	0.520	0.336	Free Surface	0 - 11:06:00 hrs	2.991	2.991	0.121	0.201	2.447	0.114
343	☐	CDT-913	1.000	7.764	4.046	0.338	Free Surface	0 - 11:07:00 hrs	4.467	4.467	0.044	0.153	7.425	0.115
344	☐	CDT-915	0.667	2.462	3.538	0.057	Free Surface	0 - 10:29:00 hrs	2.679	2.746	0.023	0.111	2.405	0.021
345	☐	CDT-917	0.667	2.158	2.717	0.063	Free Surface	0 - 10:48:59 hrs	2.727	2.740	0.029	0.118	2.095	0.023
346	☐	CDT-919	0.667	1.674	1.636	0.057	Free Surface	0 - 11:03:00 hrs	2.211	2.211	0.034	0.126	1.618	0.021
347	☐	CDT-921	0.667	1.719	1.723	0.057	Free Surface	0 - 11:03:59 hrs	2.309	2.309	0.033	0.124	1.661	0.021
348	☐	CDT-923	0.667	1.928	2.168	0.059	Free Surface	0 - 11:00:00 hrs	2.542	2.542	0.030	0.118	1.869	0.022
349	☐	CDT-925	0.667	2.132	2.653	0.059	Free Surface	0 - 11:00:00 hrs	2.246	2.246	0.027	0.128	2.074	0.022
350	☐	CDT-927	0.667	1.350	1.064	0.058	Free Surface	0 - 11:00:59 hrs	1.877	1.884	0.043	0.145	1.292	0.022

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
351	☐	CDT-929	0.667	1.593	1.480	0.040	Free Surface	0 - 10:27:59 hrs	1.644	1.698	0.025	0.122	1.553	0.015
352	☐	CDT-931	0.667	1.228	0.879	0.048	Free Surface	0 - 10:45:59 hrs	1.614	1.630	0.039	0.140	1.179	0.018
353	☐	CDT-933	0.667	1.228	0.879	0.056	Free Surface	0 - 10:53:59 hrs	1.653	1.666	0.046	0.153	1.171	0.020
354	☐	CDT-935	0.667	1.117	0.728	0.063	Free Surface	0 - 10:23:59 hrs	1.726	1.728	0.056	0.161	1.054	0.023
355	☐	CDT-937	0.500	0.529	0.758	0.007	Free Surface	0 - 11:00:59 hrs	1.038	1.039	0.013	0.076	0.522	0.003
356	☐	CDT-941	0.833	3.906	2.708	0.099	Free Surface	0 - 10:21:00 hrs	2.825	2.828	0.025	0.115	3.807	0.036
357	☐	CDT-943	0.833	3.390	2.040	0.106	Free Surface	0 - 10:30:00 hrs	2.791	2.791	0.031	0.122	3.285	0.039
358	☐	CDT-945	0.833	3.396	2.047	0.108	Free Surface	0 - 10:56:59 hrs	2.810	2.810	0.032	0.123	3.289	0.039
359	☐	CDT-947	0.833	3.413	2.068	0.108	Free Surface	0 - 10:26:00 hrs	2.894	2.897	0.032	0.120	3.306	0.039
360	☐	CDT-949	0.833	3.672	2.394	0.108	Free Surface	0 - 10:45:59 hrs	2.786	2.821	0.029	0.123	3.565	0.039
361	☐	CDT-951	0.833	3.696	2.425	0.132	Free Surface	0 - 10:52:59 hrs	2.973	2.974	0.036	0.135	3.565	0.048
362	☐	CDT-953	0.833	3.542	2.226	0.153	Free Surface	0 - 10:56:00 hrs	3.087	3.088	0.043	0.147	3.388	0.056
363	☐	CDT-955	0.833	3.534	2.216	0.175	Free Surface	0 - 10:56:00 hrs	2.738	2.738	0.050	0.175	3.359	0.064
364	☐	CDT-957	0.833	2.422	1.041	0.204	Free Surface	0 - 10:59:00 hrs	2.725	2.725	0.084	0.195	2.218	0.074
365	☐	CDT-959	0.833	2.535	1.141	0.204	Free Surface	0 - 10:59:00 hrs	2.742	2.742	0.080	0.194	2.332	0.074
366	☐	CDT-961	0.833	2.420	1.039	0.204	Free Surface	0 - 10:59:00 hrs	2.590	2.598	0.084	0.202	2.216	0.074
367	☐	CDT-963	0.833	2.430	1.048	0.223	Free Surface	0 - 10:59:00 hrs	2.847	2.847	0.092	0.201	2.207	0.081
368	☐	CDT-965	0.833	2.761	1.353	0.230	Free Surface	0 - 11:00:00 hrs	2.789	2.789	0.083	0.208	2.532	0.084
369	☐	CDT-967	0.833	2.293	0.933	0.232	Free Surface	0 - 11:00:00 hrs	2.839	2.839	0.101	0.207	2.061	0.085
370	☐	CDT-969	0.833	2.877	1.469	0.234	Free Surface	0 - 11:00:00 hrs	1.062	1.133	0.081	0.424	2.643	0.085
371	☐	CDT-973	0.833	4.427	3.479	0.050	Free Surface	0 - 10:22:59 hrs	2.472	2.498	0.011	0.079	4.377	0.018
372	☐	CDT-975	0.833	4.037	2.893	0.059	Free Surface	0 - 10:45:59 hrs	2.445	2.459	0.015	0.089	3.979	0.022
373	☐	CDT-977	0.833	3.651	2.366	0.067	Free Surface	0 - 10:30:00 hrs	2.513	2.516	0.018	0.096	3.583	0.025
374	☐	CDT-979	0.833	3.911	2.715	0.078	Free Surface	0 - 10:33:00 hrs	2.320	2.322	0.020	0.112	3.833	0.029
375	☐	CDT-981	0.833	2.787	1.379	0.090	Free Surface	0 - 10:17:00 hrs	2.484	2.485	0.032	0.118	2.697	0.033
376	☐	PATCH1	1.000	5.604	2.108	1.752	Free Surface	0 - 11:00:00 hrs	5.725	5.725	0.313	0.413	3.852	0.645

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
1	☐	CDT-1500	0.196	0.000	0.000	24.000	0.000	0.000	0
2	☐	CDT-1502	0.327	0.000	0.000	24.000	0.000	0.000	0
3	☐	CDT-1504	0.322	0.000	0.000	0.000	0.000	0.000	0
4	☐	CDT-1506	0.355	0.000	0.000	0.000	0.000	0.000	0
5	☐	CDT-1508	0.397	0.000	0.000	0.000	0.000	0.000	0
6	☐	CDT-1510	0.430	0.000	0.000	0.000	0.000	0.000	0
7	☐	CDT-1512	0.454	0.000	0.000	0.000	0.000	0.000	0
8	☐	CDT-1514	0.467	0.000	0.000	0.000	0.000	0.000	0
9	☐	CDT-1516	0.467	0.000	0.000	0.000	0.000	0.000	0
10	☐	CDT-1518	0.459	0.000	0.000	0.000	0.000	0.000	0
11	☐	CDT-1520	0.434	0.000	0.000	0.000	0.000	0.000	0
12	☐	CDT-1522	0.641	0.000	0.000	0.000	0.000	0.000	0
13	☐	CDT-1524	0.972	0.000	0.000	0.000	0.000	0.000	0
14	☐	CDT-1526	0.970	0.000	0.000	0.000	0.000	0.000	0
15	☐	CDT-1528	0.454	0.000	0.000	0.000	0.000	0.000	0
16	☐	CDT-1530	0.375	0.000	0.000	0.000	0.000	0.000	0
17	☐	CDT-1532	0.250	0.000	0.000	0.000	0.000	0.000	0
18	☐	CDT-1534	0.241	0.000	0.000	0.000	0.000	0.000	0
19	☐	CDT-1536	0.196	0.000	0.000	24.000	0.000	0.000	0
20	☐	CDT-1538	0.196	24.000	24.000	24.000	0.000	0.000	0
21	☐	CDT-1540	0.196	24.000	24.000	24.000	0.000	0.000	0
22	☐	CDT-1542	0.196	24.000	24.000	24.000	0.000	0.000	0
23	☐	CDT-1544	0.196	24.000	24.000	24.000	0.000	0.000	0
24	☐	CDT-1546	0.196	24.000	24.000	24.000	0.000	0.000	0
25	☐	CDT-1548	0.196	24.000	24.000	24.000	0.000	0.000	0
26	☐	CDT-1550	0.196	24.000	24.000	24.000	0.000	0.000	0
27	☐	CDT-1552	0.196	24.000	24.000	24.000	0.000	0.000	0
28	☐	CDT-1554	0.196	24.000	24.000	24.000	0.000	0.000	0
29	☐	CDT-1556	0.196	24.000	24.000	24.000	0.000	0.000	0
30	☐	CDT-1558	0.196	24.000	24.000	24.000	0.000	0.000	0
31	☐	CDT-1560	0.196	24.000	24.000	24.000	0.000	0.000	0
32	☐	CDT-1562	0.196	24.000	24.000	24.000	0.000	0.000	0
33	☐	CDT-1564	0.196	24.000	24.000	24.000	0.000	0.000	0
34	☐	CDT-1566	0.196	24.000	24.000	24.000	0.000	0.000	0
35	☐	CDT-1568	0.196	0.000	0.000	24.000	0.000	0.000	0
36	☐	CDT-1570	0.307	0.000	0.000	0.000	0.000	0.000	0
37	☐	CDT-1572	0.327	0.000	0.000	0.000	0.000	0.000	0
38	☐	CDT-1574	0.303	0.000	0.000	0.000	0.000	0.000	0
39	☐	CDT-1576	0.334	0.000	0.000	0.000	0.000	0.000	0
40	☐	CDT-1578	0.196	24.000	24.000	24.000	0.000	0.000	0
41	☐	CDT-1580	0.196	24.000	24.000	24.000	0.000	0.000	0
42	☐	CDT-1582	0.196	24.000	24.000	24.000	0.000	0.000	0
43	☐	CDT-1584	0.995	0.000	0.000	0.000	0.000	0.000	0
44	☐	CDT-1586	1.000	0.000	0.000	0.000	0.000	0.000	0
45	☐	CDT-1588	0.887	0.000	0.000	0.000	0.000	0.000	0
46	☐	CDT-1590	1.238	0.000	0.000	0.000	0.000	0.000	0
47	☐	CDT-1592	1.250	0.000	0.000	0.000	0.000	0.000	0
48	☐	CDT-1594	1.250	0.000	0.000	0.000	0.000	0.000	0
49	☐	CDT-1596	1.250	0.000	0.000	0.000	0.000	0.000	0
50	☐	CDT-1598	1.250	0.000	0.000	0.000	0.000	0.000	0

Print Report

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51	☐	CDT-1600	1.250	0.000	0.000	0.000	0.000	0.000	0
52	☐	CDT-1602	1.236	0.000	0.000	0.000	0.000	0.000	0
53	☐	CDT-1604	1.250	0.000	0.000	0.000	0.000	0.000	0
54	☐	CDT-1606	1.249	0.000	0.000	0.000	0.000	0.000	0
55	☐	CDT-1608	1.230	0.000	0.000	0.000	0.000	0.000	0
56	☐	CDT-1610	1.232	0.000	0.000	0.000	0.000	0.000	0
57	☐	CDT-1612	1.248	0.000	0.000	0.000	0.000	0.000	0
58	☐	CDT-1614	1.250	0.000	0.000	0.000	0.000	0.000	0
59	☐	CDT-1616	1.244	0.000	0.000	0.000	0.000	0.000	0
60	☐	CDT-1618	1.234	0.000	0.000	0.000	0.000	0.000	0
61	☐	CDT-1620	1.221	0.000	0.000	0.000	0.000	0.000	0
62	☐	CDT-1622	1.213	0.000	0.000	0.000	0.000	0.000	0
63	☐	CDT-1624	1.000	0.000	0.000	0.000	0.000	0.000	0
64	☐	CDT-1626	1.000	0.000	0.000	0.000	0.000	0.000	0
65	☐	CDT-1628	1.000	0.000	0.000	0.000	0.000	0.000	0
66	☐	CDT-1630	1.000	0.000	0.000	0.000	0.000	0.000	0
67	☐	CDT-1632	1.000	0.000	0.000	0.000	0.000	0.000	0
68	☐	CDT-1634	1.000	0.000	0.000	0.000	0.000	0.000	0
69	☐	CDT-1636	1.000	0.000	0.000	0.000	0.000	0.000	0
70	☐	CDT-1638	0.998	0.000	0.000	0.000	0.000	0.000	0
71	☐	CDT-1640	0.997	0.000	0.000	0.000	0.000	0.000	0
72	☐	CDT-1642	1.000	0.000	0.000	0.000	0.000	0.000	0
73	☐	CDT-1644	0.662	0.000	0.000	0.000	0.000	0.000	0
74	☐	CDT-1646	0.675	0.000	0.000	0.000	0.000	0.000	0
75	☐	CDT-1648	0.684	0.000	0.000	0.000	0.000	0.000	0
76	☐	CDT-1650	0.688	0.000	0.000	0.000	0.000	0.000	0
77	☐	CDT-1652	0.692	0.000	0.000	0.000	0.000	0.000	0
78	☐	CDT-1654	0.700	0.000	0.000	0.000	0.000	0.000	0
79	☐	CDT-1656	0.666	0.000	0.000	0.000	0.000	0.000	0
80	☐	CDT-1658	0.685	0.000	0.000	0.000	0.000	0.000	0
81	☐	CDT-1660	0.454	0.000	0.000	0.000	0.000	0.000	0
82	☐	CDT-1662	0.426	0.000	0.000	0.000	0.000	0.000	0
83	☐	CDT-1664	0.160	0.000	0.000	0.000	0.000	0.000	0
84	☐	CDT-1666	0.182	0.000	0.000	0.000	0.000	0.000	0
85	☐	CDT-1670	0.222	0.000	0.000	0.000	0.000	0.000	0
86	☐	CDT-1672	0.243	0.000	0.000	0.000	0.000	0.000	0
87	☐	CDT-1674	0.327	0.000	0.000	0.000	0.000	0.000	0
88	☐	CDT-1676	0.416	0.000	0.000	0.000	0.000	0.000	0
89	☐	CDT-1678	0.474	0.000	0.000	0.000	0.000	0.000	0
90	☐	CDT-1680	0.601	0.000	0.000	0.000	0.000	0.000	0
91	☐	CDT-1682	0.517	0.000	0.000	0.000	0.000	0.000	0
92	☐	CDT-1684	0.532	0.000	0.000	0.000	0.000	0.000	0
93	☐	CDT-1686	0.390	0.000	0.000	0.000	0.000	0.000	0
94	☐	CDT-1688	0.385	0.000	0.000	0.000	0.000	0.000	0
95	☐	CDT-1690	0.423	0.000	0.000	0.000	0.000	0.000	0
96	☐	CDT-1692	0.412	0.000	0.000	0.000	0.000	0.000	0
97	☐	CDT-1694	0.403	0.000	0.000	0.000	0.000	0.000	0
98	☐	CDT-1696	0.420	0.000	0.000	0.000	0.000	0.000	0
99	☐	CDT-1698	0.448	0.000	0.000	0.000	0.000	0.000	0
100	☐	CDT-1700	0.477	0.000	0.000	0.000	0.000	0.000	0

Print Report

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101	☐	CDT-1702	0.478	0.000	0.000	0.000	0.000	0.000	0
102	☐	CDT-1704	0.479	0.000	0.000	0.000	0.000	0.000	0
103	☐	CDT-1706	0.476	0.000	0.000	0.000	0.000	0.000	0
104	☐	CDT-1708	0.472	0.000	0.000	0.000	0.000	0.000	0
105	☐	CDT-1710	0.472	0.000	0.000	0.000	0.000	0.000	0
106	☐	CDT-1712	0.475	0.000	0.000	0.000	0.000	0.000	0
107	☐	CDT-1714	0.473	0.000	0.000	0.000	0.000	0.000	0
108	☐	CDT-1716	0.486	0.000	0.000	0.000	0.000	0.000	0
109	☐	CDT-1718	0.452	0.000	0.000	0.000	0.000	0.000	0
110	☐	CDT-1720	0.403	0.000	0.000	0.000	0.000	0.000	0
111	☐	CDT-1722	0.398	0.000	0.000	0.000	0.000	0.000	0
112	☐	CDT-1724	0.376	0.000	0.000	0.000	0.000	0.000	0
113	☐	CDT-1726	0.374	0.000	0.000	0.000	0.000	0.000	0
114	☐	CDT-1728	0.384	0.000	0.000	0.000	0.000	0.000	0
115	☐	CDT-1730	0.393	0.000	0.000	0.000	0.000	0.000	0
116	☐	CDT-1732	0.402	0.000	0.000	0.000	0.000	0.000	0
117	☐	CDT-1734	0.427	0.000	0.000	0.000	0.000	0.000	0
118	☐	CDT-1736	0.939	0.000	0.000	0.000	0.000	0.000	0
119	☐	CDT-1738	0.936	0.000	0.000	0.000	0.000	0.000	0
120	☐	CDT-1740	0.936	0.000	0.000	0.000	0.000	0.000	0
121	☐	CDT-1742	0.938	0.000	0.000	0.000	0.000	0.000	0
122	☐	CDT-1744	0.931	0.000	0.000	0.000	0.000	0.000	0
123	☐	CDT-1746	0.924	0.000	0.000	0.000	0.000	0.000	0
124	☐	CDT-1748	0.997	0.000	0.000	0.000	0.000	0.000	0
125	☐	CDT-1750	0.997	0.000	0.000	0.000	0.000	0.000	0
126	☐	CDT-1752	0.997	0.000	0.000	0.000	0.000	0.000	0
127	☐	CDT-1754	0.997	0.000	0.000	0.000	0.000	0.000	0
128	☐	CDT-1756	0.996	0.000	0.000	0.000	0.000	0.000	0
129	☐	CDT-1758	0.996	0.000	0.000	0.000	0.000	0.000	0
130	☐	CDT-465	0.524	0.000	0.000	0.000	0.000	0.000	0
131	☐	CDT-467	0.539	0.000	0.000	0.000	0.000	0.000	0
132	☐	CDT-469	0.486	0.000	0.000	0.000	0.000	0.000	0
133	☐	CDT-471	0.595	0.000	0.000	0.000	0.000	0.000	0
134	☐	CDT-473	0.595	0.000	0.000	0.000	0.000	0.000	0
135	☐	CDT-475	0.479	0.000	0.000	0.000	0.000	0.000	0
136	☐	CDT-477	0.444	0.000	0.000	0.000	0.000	0.000	0
137	☐	CDT-479	0.537	0.000	0.000	0.000	0.000	0.000	0
138	☐	CDT-481	0.441	0.000	0.000	0.000	0.000	0.000	0
139	☐	CDT-483	0.435	0.000	0.000	0.000	0.000	0.000	0
140	☐	CDT-485	0.443	0.000	0.000	0.000	0.000	0.000	0
141	☐	CDT-487	0.473	0.000	0.000	0.000	0.000	0.000	0
142	☐	CDT-489	0.494	0.000	0.000	0.000	0.000	0.000	0
143	☐	CDT-491	0.463	0.000	0.000	0.000	0.000	0.000	0
144	☐	CDT-493	0.741	0.000	0.000	0.000	0.000	0.000	0
145	☐	CDT-495	0.464	0.000	0.000	0.000	0.000	0.000	0
146	☐	CDT-497	0.433	0.000	0.000	0.000	0.000	0.000	0
147	☐	CDT-499	0.430	0.000	0.000	0.000	0.000	0.000	0
148	☐	CDT-501	0.426	0.000	0.000	0.000	0.000	0.000	0
149	☐	CDT-503	0.350	0.000	0.000	0.000	0.000	0.000	0
150	☐	CDT-505	0.370	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
151	☐	CDT-507	0.589	0.000	0.000	0.000	0.000	0.000	0
152	☐	CDT-509	0.568	0.000	0.000	0.000	0.000	0.000	0
153	☐	CDT-511	0.612	0.000	0.000	0.000	0.000	0.000	0
154	☐	CDT-513	0.764	0.000	0.000	0.000	0.000	0.000	0
155	☐	CDT-515	0.775	0.000	0.000	0.000	0.000	0.000	0
156	☐	CDT-517	0.776	0.000	0.000	0.000	0.000	0.000	0
157	☐	CDT-519	0.778	0.000	0.000	0.000	0.000	0.000	0
158	☐	CDT-521	0.778	0.000	0.000	0.000	0.000	0.000	0
159	☐	CDT-523	0.774	0.000	0.000	0.000	0.000	0.000	0
160	☐	CDT-525	0.784	0.000	0.000	0.000	0.000	0.000	0
161	☐	CDT-527	0.794	0.000	0.000	0.000	0.000	0.000	0
162	☐	CDT-529	0.798	0.000	0.000	0.000	0.000	0.000	0
163	☐	CDT-531	0.804	0.000	0.000	0.000	0.000	0.000	0
164	☐	CDT-533	0.844	0.000	0.000	0.000	0.000	0.000	0
165	☐	CDT-535	0.826	0.000	0.000	0.000	0.000	0.000	0
166	☐	CDT-537	0.830	0.000	0.000	0.000	0.000	0.000	0
167	☐	CDT-539	0.494	0.000	0.000	0.000	0.000	0.000	0
168	☐	CDT-541	0.545	0.000	0.000	0.000	0.000	0.000	0
169	☐	CDT-543	0.522	0.000	0.000	0.000	0.000	0.000	0
170	☐	CDT-545	0.498	0.000	0.000	0.000	0.000	0.000	0
171	☐	CDT-547	0.697	0.000	0.000	0.000	0.000	0.000	0
172	☐	CDT-549	0.656	0.000	0.000	0.000	0.000	0.000	0
173	☐	CDT-551	0.678	0.000	0.000	0.000	0.000	0.000	0
174	☐	CDT-553	0.681	0.000	0.000	0.000	0.000	0.000	0
175	☐	CDT-555	0.689	0.000	0.000	0.000	0.000	0.000	0
176	☐	CDT-557	0.687	0.000	0.000	0.000	0.000	0.000	0
177	☐	CDT-559	0.721	0.000	0.000	0.000	0.000	0.000	0
178	☐	CDT-561	0.247	0.000	0.000	0.000	0.000	0.000	0
179	☐	CDT-563	0.226	0.000	0.000	0.000	0.000	0.000	0
180	☐	CDT-565	0.229	0.000	0.000	0.000	0.000	0.000	0
181	☐	CDT-567	0.225	0.000	0.000	0.000	0.000	0.000	0
182	☐	CDT-569	0.263	0.000	0.000	0.000	0.000	0.000	0
183	☐	CDT-571	0.237	0.000	0.000	0.000	0.000	0.000	0
184	☐	CDT-573	0.993	0.000	0.000	0.000	0.000	0.000	0
185	☐	CDT-575	0.989	0.000	0.000	0.000	0.000	0.000	0
186	☐	CDT-579	0.981	0.000	0.000	0.000	0.000	0.000	0
187	☐	CDT-581	0.991	0.000	0.000	0.000	0.000	0.000	0
188	☐	CDT-583	0.996	0.000	0.000	0.000	0.000	0.000	0
189	☐	CDT-589	0.995	0.000	0.000	0.000	0.000	0.000	0
190	☐	CDT-591	0.999	0.000	0.000	0.000	0.000	0.000	0
191	☐	CDT-595	0.794	0.000	0.000	0.000	0.000	0.000	0
192	☐	CDT-597	0.803	0.000	0.000	0.000	0.000	0.000	0
193	☐	CDT-603	0.986	0.000	0.000	0.000	0.000	0.000	0
194	☐	CDT-605	0.813	0.000	0.000	0.000	0.000	0.000	0
195	☐	CDT-607	0.491	0.000	0.000	0.000	0.000	0.000	0
196	☐	CDT-609	0.717	0.000	0.000	0.000	0.000	0.000	0
197	☐	CDT-611	0.713	0.000	0.000	0.000	0.000	0.000	0
198	☐	CDT-613	0.692	0.000	0.000	0.000	0.000	0.000	0
199	☐	CDT-615	0.724	0.000	0.000	0.000	0.000	0.000	0
200	☐	CDT-617	0.559	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
201	☐	CDT-619	0.456	0.000	0.000	0.000	0.000	0.000	0
202	☐	CDT-621	0.443	0.000	0.000	0.000	0.000	0.000	0
203	☐	CDT-623	0.480	0.000	0.000	0.000	0.000	0.000	0
204	☐	CDT-625	0.461	0.000	0.000	0.000	0.000	0.000	0
205	☐	CDT-627	0.447	0.000	0.000	0.000	0.000	0.000	0
206	☐	CDT-629	0.456	0.000	0.000	0.000	0.000	0.000	0
207	☐	CDT-631	0.470	0.000	0.000	0.000	0.000	0.000	0
208	☐	CDT-633	0.478	0.000	0.000	0.000	0.000	0.000	0
209	☐	CDT-635	0.524	0.000	0.000	0.000	0.000	0.000	0
210	☐	CDT-637	0.480	0.000	0.000	0.000	0.000	0.000	0
211	☐	CDT-639	0.547	0.000	0.000	0.000	0.000	0.000	0
212	☐	CDT-641	0.546	0.000	0.000	0.000	0.000	0.000	0
213	☐	CDT-643	0.535	0.000	0.000	0.000	0.000	0.000	0
214	☐	CDT-645	0.564	0.000	0.000	0.000	0.000	0.000	0
215	☐	CDT-647	0.570	0.000	0.000	0.000	0.000	0.000	0
216	☐	CDT-649	0.567	0.000	0.000	0.000	0.000	0.000	0
217	☐	CDT-651	0.574	0.000	0.000	0.000	0.000	0.000	0
218	☐	CDT-653	0.592	0.000	0.000	0.000	0.000	0.000	0
219	☐	CDT-655	0.586	0.000	0.000	0.000	0.000	0.000	0
220	☐	CDT-657	0.559	0.000	0.000	0.000	0.000	0.000	0
221	☐	CDT-659	0.625	0.000	0.000	0.000	0.000	0.000	0
222	☐	CDT-661	0.566	0.000	0.000	0.000	0.000	0.000	0
223	☐	CDT-663	0.558	0.000	0.000	0.000	0.000	0.000	0
224	☐	CDT-665	0.682	0.000	0.000	0.000	0.000	0.000	0
225	☐	CDT-667	0.677	0.000	0.000	0.000	0.000	0.000	0
226	☐	CDT-671	0.967	0.000	0.000	0.000	0.000	0.000	0
227	☐	CDT-673	0.975	0.000	0.000	0.000	0.000	0.000	0
228	☐	CDT-675	0.999	0.000	0.000	0.000	0.000	0.000	0
229	☐	CDT-677	0.654	0.000	0.000	0.000	0.000	0.000	0
230	☐	CDT-679	0.596	0.000	0.000	0.000	0.000	0.000	0
231	☐	CDT-681	0.587	0.000	0.000	0.000	0.000	0.000	0
232	☐	CDT-683	0.778	0.000	0.000	0.000	0.000	0.000	0
233	☐	CDT-685	0.782	0.000	0.000	0.000	0.000	0.000	0
234	☐	CDT-687	0.806	0.000	0.000	0.000	0.000	0.000	0
235	☐	CDT-689	0.809	0.000	0.000	0.000	0.000	0.000	0
236	☐	CDT-691	0.805	0.000	0.000	0.000	0.000	0.000	0
237	☐	CDT-693	0.792	0.000	0.000	0.000	0.000	0.000	0
238	☐	CDT-695	0.794	0.000	0.000	0.000	0.000	0.000	0
239	☐	CDT-697	0.792	0.000	0.000	0.000	0.000	0.000	0
240	☐	CDT-699	0.789	0.000	0.000	0.000	0.000	0.000	0
241	☐	CDT-701	0.477	0.000	0.000	0.000	0.000	0.000	0
242	☐	CDT-703	0.488	0.000	0.000	0.000	0.000	0.000	0
243	☐	CDT-705	0.475	0.000	0.000	0.000	0.000	0.000	0
244	☐	CDT-707	0.630	0.000	0.000	0.000	0.000	0.000	0
245	☐	CDT-709	0.545	0.000	0.000	0.000	0.000	0.000	0
246	☐	CDT-711	0.602	0.000	0.000	0.000	0.000	0.000	0
247	☐	CDT-713	0.644	0.000	0.000	0.000	0.000	0.000	0
248	☐	CDT-715	0.647	0.000	0.000	0.000	0.000	0.000	0
249	☐	CDT-717	0.631	0.000	0.000	0.000	0.000	0.000	0
250	☐	CDT-719	0.637	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
251	☐	CDT-721	0.787	0.000	0.000	0.000	0.000	0.000	0
252	☐	CDT-723	0.790	0.000	0.000	0.000	0.000	0.000	0
253	☐	CDT-725	0.788	0.000	0.000	0.000	0.000	0.000	0
254	☐	CDT-727	0.535	0.000	0.000	0.000	0.000	0.000	0
255	☐	CDT-729	0.546	0.000	0.000	0.000	0.000	0.000	0
256	☐	CDT-731	0.576	0.000	0.000	0.000	0.000	0.000	0
257	☐	CDT-733	0.591	0.000	0.000	0.000	0.000	0.000	0
258	☐	CDT-735	0.458	0.000	0.000	0.000	0.000	0.000	0
259	☐	CDT-737	0.490	0.000	0.000	0.000	0.000	0.000	0
260	☐	CDT-739	0.513	0.000	0.000	0.000	0.000	0.000	0
261	☐	CDT-741	0.504	0.000	0.000	0.000	0.000	0.000	0
262	☐	CDT-743	0.592	0.000	0.000	0.000	0.000	0.000	0
263	☐	CDT-745	0.590	0.000	0.000	0.000	0.000	0.000	0
264	☐	CDT-747	0.549	0.000	0.000	0.000	0.000	0.000	0
265	☐	CDT-749	0.546	0.000	0.000	0.000	0.000	0.000	0
266	☐	CDT-751	0.374	0.000	0.000	0.000	0.000	0.000	0
267	☐	CDT-753	0.535	0.000	0.000	0.000	0.000	0.000	0
268	☐	CDT-755	0.545	0.000	0.000	0.000	0.000	0.000	0
269	☐	CDT-757	0.575	0.000	0.000	0.000	0.000	0.000	0
270	☐	CDT-759	0.576	0.000	0.000	0.000	0.000	0.000	0
271	☐	CDT-761	0.563	0.000	0.000	0.000	0.000	0.000	0
272	☐	CDT-763	0.570	0.000	0.000	0.000	0.000	0.000	0
273	☐	CDT-765	0.534	0.000	0.000	0.000	0.000	0.000	0
274	☐	CDT-767	0.481	0.000	0.000	0.000	0.000	0.000	0
275	☐	CDT-769	0.961	0.000	0.000	0.000	0.000	0.000	0
276	☐	CDT-771	0.953	0.000	0.000	0.000	0.000	0.000	0
277	☐	CDT-773	0.966	0.000	0.000	0.000	0.000	0.000	0
278	☐	CDT-775	0.966	0.000	0.000	0.000	0.000	0.000	0
279	☐	CDT-777	0.951	0.000	0.000	0.000	0.000	0.000	0
280	☐	CDT-779	0.945	0.000	0.000	0.000	0.000	0.000	0
281	☐	CDT-781	0.456	0.000	0.000	0.000	0.000	0.000	0
282	☐	CDT-783	0.458	0.000	0.000	0.000	0.000	0.000	0
283	☐	CDT-785	0.446	0.000	0.000	0.000	0.000	0.000	0
284	☐	CDT-787	0.436	0.000	0.000	0.000	0.000	0.000	0
285	☐	CDT-789	0.429	0.000	0.000	0.000	0.000	0.000	0
286	☐	CDT-791	0.429	0.000	0.000	0.000	0.000	0.000	0
287	☐	CDT-793	0.400	0.000	0.000	0.000	0.000	0.000	0
288	☐	CDT-795	0.328	0.000	0.000	0.000	0.000	0.000	0
289	☐	CDT-797	0.310	0.000	0.000	0.000	0.000	0.000	0
290	☐	CDT-799	0.385	0.000	0.000	0.000	0.000	0.000	0
291	☐	CDT-801	0.236	0.000	0.000	0.000	0.000	0.000	0
292	☐	CDT-803	0.196	0.000	0.000	0.000	0.000	0.000	0
293	☐	CDT-805	0.734	0.000	0.000	0.000	0.000	0.000	0
294	☐	CDT-807	0.739	0.000	0.000	0.000	0.000	0.000	0
295	☐	CDT-809	0.746	0.000	0.000	0.000	0.000	0.000	0
296	☐	CDT-811	0.735	0.000	0.000	0.000	0.000	0.000	0
297	☐	CDT-813	0.576	0.000	0.000	0.000	0.000	0.000	0
298	☐	CDT-815	0.603	0.000	0.000	0.000	0.000	0.000	0
299	☐	CDT-817	0.622	0.000	0.000	0.000	0.000	0.000	0
300	☐	CDT-819	0.614	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
301	☐	CDT-821	0.605	0.000	0.000	0.000	0.000	0.000	0
302	☐	CDT-823	0.380	0.000	0.000	0.000	0.000	0.000	0
303	☐	CDT-825	0.474	0.000	0.000	0.000	0.000	0.000	0
304	☐	CDT-827	0.560	0.000	0.000	0.000	0.000	0.000	0
305	☐	CDT-829	0.590	0.000	0.000	0.000	0.000	0.000	0
306	☐	CDT-831	0.513	0.000	0.000	0.000	0.000	0.000	0
307	☐	CDT-833	0.471	0.000	0.000	0.000	0.000	0.000	0
308	☐	CDT-835	0.456	0.000	0.000	0.000	0.000	0.000	0
309	☐	CDT-837	1.000	0.000	0.000	0.000	0.000	0.000	0
310	☐	CDT-839	0.666	0.000	0.000	0.000	0.000	0.000	0
311	☐	CDT-841	0.651	0.000	0.000	0.000	0.000	0.000	0
312	☐	CDT-843	0.751	0.000	0.000	0.000	0.000	0.000	0
313	☐	CDT-845	0.680	0.000	0.000	0.000	0.000	0.000	0
314	☐	CDT-847	0.746	0.000	0.000	0.000	0.000	0.000	0
315	☐	CDT-849	0.631	0.000	0.000	0.000	0.000	0.000	0
316	☐	CDT-851	0.691	0.000	0.000	0.000	0.000	0.000	0
317	☐	CDT-853	0.612	0.000	0.000	0.000	0.000	0.000	0
318	☐	CDT-855	0.624	0.000	0.000	0.000	0.000	0.000	0
319	☐	CDT-857	0.594	0.000	0.000	0.000	0.000	0.000	0
320	☐	CDT-859	0.643	0.000	0.000	0.000	0.000	0.000	0
321	☐	CDT-861	0.644	0.000	0.000	0.000	0.000	0.000	0
322	☐	CDT-863	0.648	0.000	0.000	0.000	0.000	0.000	0
323	☐	CDT-865	0.473	0.000	0.000	0.000	0.000	0.000	0
324	☐	CDT-867	0.613	0.000	0.000	0.000	0.000	0.000	0
325	☐	CDT-873	0.481	0.000	0.000	0.000	0.000	0.000	0
326	☐	CDT-875	0.472	0.000	0.000	0.000	0.000	0.000	0
327	☐	CDT-877	0.470	0.000	0.000	0.000	0.000	0.000	0
328	☐	CDT-879	0.500	0.000	0.000	0.000	0.000	0.000	0
329	☐	CDT-881	0.517	0.000	0.000	0.000	0.000	0.000	0
330	☐	CDT-883	0.377	0.000	0.000	0.000	0.000	0.000	0
331	☐	CDT-885	0.334	0.000	0.000	0.000	0.000	0.000	0
332	☐	CDT-887	0.491	0.000	0.000	0.000	0.000	0.000	0
333	☐	CDT-893	0.552	0.000	0.000	0.000	0.000	0.000	0
334	☐	CDT-895	0.554	0.000	0.000	0.000	0.000	0.000	0
335	☐	CDT-897	0.565	0.000	0.000	0.000	0.000	0.000	0
336	☐	CDT-899	0.566	0.000	0.000	0.000	0.000	0.000	0
337	☐	CDT-901	0.786	0.000	0.000	0.000	0.000	0.000	0
338	☐	CDT-903	0.833	0.000	0.000	0.000	0.000	0.000	0
339	☐	CDT-905	0.836	0.000	0.000	0.000	0.000	0.000	0
340	☐	CDT-907	0.839	0.000	0.000	0.000	0.000	0.000	0
341	☐	CDT-909	0.859	0.000	0.000	0.000	0.000	0.000	0
342	☐	CDT-911	0.801	0.000	0.000	0.000	0.000	0.000	0
343	☐	CDT-913	0.719	0.000	0.000	0.000	0.000	0.000	0
344	☐	CDT-915	0.419	0.000	0.000	0.000	0.000	0.000	0
345	☐	CDT-917	0.430	0.000	0.000	0.000	0.000	0.000	0
346	☐	CDT-919	0.442	0.000	0.000	0.000	0.000	0.000	0
347	☐	CDT-921	0.439	0.000	0.000	0.000	0.000	0.000	0
348	☐	CDT-923	0.429	0.000	0.000	0.000	0.000	0.000	0
349	☐	CDT-925	0.445	0.000	0.000	0.000	0.000	0.000	0
350	☐	CDT-927	0.469	0.000	0.000	0.000	0.000	0.000	0

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
351	☐	CDT-929	0.436	0.000	0.000	0.000	0.000	0.000	0
352	☐	CDT-931	0.463	0.000	0.000	0.000	0.000	0.000	0
353	☐	CDT-933	0.480	0.000	0.000	0.000	0.000	0.000	0
354	☐	CDT-935	0.490	0.000	0.000	0.000	0.000	0.000	0
355	☐	CDT-937	0.264	0.000	0.000	0.000	0.000	0.000	0
356	☐	CDT-941	0.532	0.000	0.000	0.000	0.000	0.000	0
357	☐	CDT-943	0.545	0.000	0.000	0.000	0.000	0.000	0
358	☐	CDT-945	0.546	0.000	0.000	0.000	0.000	0.000	0
359	☐	CDT-947	0.542	0.000	0.000	0.000	0.000	0.000	0
360	☐	CDT-949	0.548	0.000	0.000	0.000	0.000	0.000	0
361	☐	CDT-951	0.570	0.000	0.000	0.000	0.000	0.000	0
362	☐	CDT-953	0.589	0.000	0.000	0.000	0.000	0.000	0
363	☐	CDT-955	0.632	0.000	0.000	0.000	0.000	0.000	0
364	☐	CDT-957	0.660	0.000	0.000	0.000	0.000	0.000	0
365	☐	CDT-959	0.659	0.000	0.000	0.000	0.000	0.000	0
366	☐	CDT-961	0.669	0.000	0.000	0.000	0.000	0.000	0
367	☐	CDT-963	0.668	0.000	0.000	0.000	0.000	0.000	0
368	☐	CDT-965	0.677	0.000	0.000	0.000	0.000	0.000	0
369	☐	CDT-967	0.675	0.000	0.000	0.000	0.000	0.000	0
370	☐	CDT-969	0.824	0.000	0.000	0.000	0.000	0.000	0
371	☐	CDT-973	0.451	0.000	0.000	0.000	0.000	0.000	0
372	☐	CDT-975	0.474	0.000	0.000	0.000	0.000	0.000	0
373	☐	CDT-977	0.491	0.000	0.000	0.000	0.000	0.000	0
374	☐	CDT-979	0.526	0.000	0.000	0.000	0.000	0.000	0
375	☐	CDT-981	0.538	0.000	0.000	0.000	0.000	0.000	0
376	☐	PATCH1	0.984	0.000	0.000	0.000	0.000	0.000	0

LEGEND

Peak Flow Depth to Diameter

- Less than 0.1
- 0.11 - 0.25
- 0.26 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.9
- Greater than 0.9
- Ivins City Boundary

Kayenta Parkway
Kwavasa Drive
Old Highway 91
Ivins
200 North
400 South
800 South
Center Street
400 West
400 East
Snow Canyon Drive
Snow Canyon Parkway
Pioneer Parkway

CDT-561
CDT-1532
CDT-1530
CDT-1528
CDT-497
CDT-835
CDT-763
CDT-883
CDT-465
CDT-827
CDT-819
CDT-865
CDT-747
CDT-731
CDT-715
CDT-709
CDT-917
CDT-809
CDT-1666
CDT-1674
CDT-1648
CDT-789
CDT-701
CDT-691
CDT-797
CDT-777
CDT-1500
CDT-905
CDT-911
CDT-673
CDT-947
CDT-955
CDT-929
CDT-487
CDT-625
CDT-633
CDT-641
CDT-1686
CDT-1698
CDT-1716
CDT-1730
CDT-663
CDT-845
CDT-863
CDT-617
CDT-665
CDT-551
CDT-557
CDT-1510
CDT-1518
CDT-527
CDT-597
CDT-575
PATCH1
CDT-1642
CDT-1632
CDT-1626
CDT-1618
CDT-1604
CDT-1594

IVINS CITY

2025 SEWER MASTER PLAN

10 YEAR GROWTH CONDITIONS HYDRAULIC MODEL RESULTS

NORTH:

SCALE: 0 1,100 2,200 Feet

FIGURE NO. A-2

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure A2 - 10 Year Conditions Model Output.mxd aanderson 7/3/2025

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
1	☐	CDT-1500	0.500	2.091	6.564	0.130	Free Surface	0 - 23:00:00 hrs	0.937	1.057	0.062	0.668	1.961	0.076
2	☐	CDT-1502	0.833	3.926	2.736	0.210	Free Surface	0 - 10:11:00 hrs	0.641	0.641	0.053	0.578	3.717	0.074
3	☐	CDT-1504	0.833	5.417	5.208	0.527	Free Surface	0 - 10:00:59 hrs	6.318	6.426	0.097	0.212	4.890	0.186
4	☐	CDT-1506	0.833	5.294	4.974	0.526	Free Surface	0 - 10:03:00 hrs	5.377	5.581	0.099	0.236	4.767	0.187
5	☐	CDT-1508	0.833	3.640	2.352	0.532	Free Surface	0 - 10:21:00 hrs	4.601	4.714	0.146	0.265	3.108	0.189
6	☐	CDT-1510	0.833	3.347	1.988	0.539	Free Surface	0 - 10:27:59 hrs	4.171	4.226	0.161	0.287	2.808	0.191
7	☐	CDT-1512	0.833	2.858	1.450	0.547	Free Surface	0 - 10:11:00 hrs	4.140	4.153	0.191	0.291	2.312	0.194
8	☐	CDT-1514	0.833	3.229	1.850	0.556	Free Surface	0 - 10:14:00 hrs	4.228	4.239	0.172	0.290	2.673	0.198
9	☐	CDT-1516	0.833	3.115	1.723	0.561	Free Surface	0 - 10:15:59 hrs	4.631	4.631	0.180	0.274	2.554	0.199
10	☐	CDT-1518	0.833	4.305	3.289	0.571	Free Surface	0 - 10:17:00 hrs	5.498	5.498	0.133	0.245	3.734	0.203
11	☐	CDT-1520	0.833	5.104	4.624	0.577	Free Surface	0 - 10:18:00 hrs	6.892	6.892	0.113	0.211	4.527	0.205
12	☐	CDT-1522	2.000	53.133	4.700	0.577	Free Surface	0 - 10:18:00 hrs	5.502	5.502	0.011	0.074	52.555	0.205
13	☐	CDT-1524	1.000	3.958	1.052	1.602	Free Surface	0 - 11:00:00 hrs	4.678	4.678	0.405	0.450	2.357	0.620
14	☐	CDT-1526	1.000	4.046	1.099	1.621	Free Surface	0 - 11:00:00 hrs	4.830	4.830	0.400	0.443	2.426	0.627
15	☐	CDT-1528	0.667	1.360	1.079	0.141	Free Surface	0 - 11:00:00 hrs	2.581	2.581	0.104	0.214	1.219	0.050
16	☐	CDT-1530	0.500	1.020	2.815	0.076	Free Surface	0 - 11:00:00 hrs	2.122	2.217	0.075	0.239	0.943	0.027
17	☐	CDT-1532	0.500	0.768	1.598	0.007	Free Surface	0 - 10:45:59 hrs	1.265	1.272	0.010	0.068	0.761	0.003
18	☐	CDT-1534	0.500	0.837	1.896	0.007	Free Surface	0 - 11:00:59 hrs	0.784	0.833	0.009	0.097	0.830	0.003
19	☐	CDT-1536	0.500	1.088	3.202	0.038	Free Surface	0 - 11:00:00 hrs	0.332	0.332	0.035	0.564	1.050	0.013
20	☐	CDT-1538	0.500	1.432	5.550	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.026	1.000	1.394	0.013
21	☐	CDT-1540	0.500	1.053	2.998	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.036	1.000	1.015	0.013
22	☐	CDT-1542	0.500	1.049	2.979	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.036	1.000	1.011	0.013
23	☐	CDT-1544	0.500	0.566	0.868	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.067	1.000	0.528	0.013
24	☐	CDT-1546	0.500	0.220	0.131	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.172	1.000	0.182	0.013
25	☐	CDT-1548	0.500	0.607	0.999	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.062	1.000	0.570	0.013
26	☐	CDT-1550	0.500	0.609	1.003	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.062	1.000	0.571	0.013
27	☐	CDT-1552	0.500	1.050	2.983	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.036	1.000	1.012	0.013
28	☐	CDT-1554	0.500	1.138	3.505	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.033	1.000	1.100	0.013
29	☐	CDT-1556	0.500	1.366	5.047	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.028	1.000	1.328	0.013
30	☐	CDT-1558	0.500	1.213	3.982	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.031	1.000	1.175	0.013
31	☐	CDT-1560	0.500	1.423	5.479	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.027	1.000	1.385	0.013
32	☐	CDT-1562	0.500	1.287	4.481	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.029	1.000	1.249	0.013
33	☐	CDT-1564	0.500	1.398	5.293	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.027	1.000	1.361	0.013
34	☐	CDT-1566	0.500	1.259	4.291	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.030	1.000	1.221	0.013
35	☐	CDT-1568	0.500	0.979	2.594	0.038	Free Surface	0 - 11:00:00 hrs	0.295	0.295	0.039	0.622	0.941	0.013
36	☐	CDT-1570	0.500	0.299	0.242	0.038	Free Surface	0 - 11:00:00 hrs	1.044	1.044	0.126	0.240	0.261	0.013
37	☐	CDT-1572	0.500	0.308	0.257	0.038	Free Surface	0 - 11:00:00 hrs	0.912	0.912	0.123	0.264	0.270	0.013
38	☐	CDT-1574	0.500	0.271	0.198	0.038	Free Surface	0 - 11:00:59 hrs	1.180	1.180	0.140	0.220	0.233	0.013
39	☐	CDT-1576	0.500	0.791	1.693	0.038	Free Surface	0 - 11:00:59 hrs	1.179	1.213	0.048	0.221	0.753	0.013
40	☐	CDT-1578	0.500	1.534	6.367	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.025	1.000	1.496	0.013
41	☐	CDT-1580	0.500	1.063	3.059	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.036	1.000	1.025	0.013
42	☐	CDT-1582	0.500	1.390	5.229	0.038	Backwater	0 - 11:00:00 hrs	0.193	0.193	0.027	1.000	1.352	0.013
43	☐	CDT-1584	1.000	5.958	2.383	2.154	Free Surface	0 - 11:00:00 hrs	5.149	5.151	0.362	0.526	3.804	0.820
44	☐	CDT-1586	1.000	3.279	0.722	2.210	Free Surface	0 - 11:00:00 hrs	4.668	4.668	0.674	0.581	1.069	0.841
45	☐	CDT-1588	1.250	62.046	78.608	4.158	Free Surface	0 - 11:21:00 hrs	26.692	26.692	0.067	0.185	57.888	1.592
46	☐	CDT-1590	1.250	4.499	0.413	4.158	Free Surface	0 - 11:19:59 hrs	5.442	5.506	0.924	0.597	0.341	1.592
47	☐	CDT-1592	1.250	4.612	0.434	4.158	Free Surface	0 - 11:19:59 hrs	3.630	3.645	0.902	0.882	0.453	1.592
48	☐	CDT-1594	1.250	4.515	0.416	4.182	Free Surface	0 - 11:17:00 hrs	4.130	4.148	0.926	0.770	0.333	1.592
49	☐	CDT-1596	1.250	4.652	0.442	4.176	Free Surface	0 - 11:15:00 hrs	4.151	4.151	0.898	0.764	0.476	1.592
50	☐	CDT-1598	1.250	4.363	0.389	4.082	Free Surface	0 - 11:14:00 hrs	3.971	3.972	0.936	0.781	0.281	1.546

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
51	☐	CDT-1600	1.250	7.311	1.091	4.083	Free Surface	0 - 11:14:00 hrs	4.634	4.635	0.558	0.675	3.228	1.546
52	☐	CDT-1602	1.250	6.790	0.941	4.083	Free Surface	0 - 11:12:59 hrs	5.781	5.781	0.601	0.559	2.707	1.546
53	☐	CDT-1604	1.250	4.889	0.488	4.084	Free Surface	0 - 11:12:59 hrs	4.722	4.722	0.835	0.664	0.805	1.546
54	☐	CDT-1606	1.250	6.588	0.886	4.087	Free Surface	0 - 11:11:00 hrs	4.786	4.790	0.620	0.657	2.501	1.546
55	☐	CDT-1608	1.250	8.193	1.371	4.088	Free Surface	0 - 11:10:00 hrs	6.121	6.122	0.499	0.535	4.104	1.546
56	☐	CDT-1610	1.250	6.870	0.964	4.089	Free Surface	0 - 11:10:00 hrs	5.998	5.998	0.595	0.544	2.781	1.546
57	☐	CDT-1612	1.250	5.475	0.612	4.089	Free Surface	0 - 11:08:59 hrs	4.969	4.969	0.747	0.636	1.385	1.546
58	☐	CDT-1614	1.250	5.377	0.590	4.090	Free Surface	0 - 11:08:59 hrs	4.659	4.660	0.761	0.673	1.287	1.546
59	☐	CDT-1616	1.250	7.320	1.094	4.091	Free Surface	0 - 11:07:59 hrs	5.343	5.344	0.559	0.598	3.229	1.546
60	☐	CDT-1618	1.250	6.930	0.981	4.093	Free Surface	0 - 11:07:00 hrs	5.911	5.911	0.591	0.550	2.837	1.546
61	☐	CDT-1620	1.250	9.593	1.879	4.094	Free Surface	0 - 11:06:00 hrs	6.484	6.485	0.427	0.511	5.499	1.546
62	☐	CDT-1622	1.250	8.126	1.348	4.095	Free Surface	0 - 11:06:00 hrs	6.830	6.830	0.504	0.491	4.032	1.546
63	☐	CDT-1624	1.000	4.548	1.389	4.095	Free Surface	0 - 11:04:59 hrs	6.717	6.718	0.900	0.725	0.453	1.546
64	☐	CDT-1626	1.000	4.369	1.281	4.101	Free Surface	0 - 11:03:59 hrs	6.228	6.230	0.939	0.781	0.268	1.546
65	☐	CDT-1628	1.000	4.089	1.123	4.105	Free Surface	0 - 11:02:00 hrs	5.957	5.974	1.004	0.820	-0.015	1.546
66	☐	CDT-1630	1.000	5.166	1.792	4.112	Free Surface	0 - 11:00:59 hrs	6.331	6.360	0.796	0.771	1.054	1.546
67	☐	CDT-1632	1.000	5.197	1.813	4.114	Free Surface	0 - 11:00:59 hrs	7.253	7.253	0.792	0.679	1.083	1.546
68	☐	CDT-1634	1.000	4.873	1.594	4.117	Free Surface	0 - 11:00:59 hrs	6.943	6.944	0.845	0.706	0.756	1.546
69	☐	CDT-1636	1.000	5.181	1.802	4.118	Free Surface	0 - 11:00:00 hrs	6.986	6.986	0.795	0.703	1.063	1.546
70	☐	CDT-1638	1.000	6.756	3.064	4.119	Free Surface	0 - 11:00:00 hrs	8.055	8.055	0.610	0.620	2.637	1.546
71	☐	CDT-1640	1.000	5.727	2.202	4.120	Free Surface	0 - 11:00:00 hrs	8.071	8.071	0.719	0.619	1.607	1.546
72	☐	CDT-1642	1.000	5.051	1.713	4.124	Free Surface	0 - 11:00:00 hrs	7.158	7.158	0.816	0.688	0.927	1.546
73	☐	CDT-1644	0.833	1.965	0.686	0.237	Free Surface	0 - 11:00:00 hrs	2.333	2.333	0.120	0.241	1.729	0.086
74	☐	CDT-1646	0.833	1.784	0.565	0.241	Free Surface	0 - 11:00:00 hrs	2.187	2.187	0.135	0.256	1.543	0.088
75	☐	CDT-1648	0.833	1.577	0.442	0.240	Free Surface	0 - 11:00:59 hrs	2.067	2.067	0.152	0.266	1.337	0.088
76	☐	CDT-1650	0.833	1.570	0.438	0.247	Free Surface	0 - 11:00:00 hrs	2.042	2.049	0.157	0.274	1.323	0.091
77	☐	CDT-1652	0.833	1.555	0.429	0.263	Free Surface	0 - 11:00:00 hrs	2.109	2.109	0.169	0.280	1.292	0.097
78	☐	CDT-1654	0.833	1.558	0.431	0.267	Free Surface	0 - 11:00:00 hrs	2.060	2.060	0.171	0.287	1.291	0.099
79	☐	CDT-1656	0.833	1.593	0.451	0.267	Free Surface	0 - 11:00:59 hrs	2.503	2.503	0.167	0.250	1.327	0.099
80	☐	CDT-1658	0.833	2.900	1.493	0.267	Free Surface	0 - 11:02:00 hrs	2.231	2.242	0.092	0.271	2.633	0.099
81	☐	CDT-1660	0.833	2.561	1.164	0.043	Free Surface	0 - 10:00:59 hrs	2.027	2.050	0.017	0.082	2.518	0.015
82	☐	CDT-1662	0.833	4.643	3.826	0.042	Free Surface	0 - 10:08:59 hrs	2.429	2.521	0.009	0.072	4.601	0.015
83	☐	CDT-1664	0.833	2.387	1.011	0.073	Free Surface	0 - 10:06:00 hrs	1.992	2.026	0.030	0.119	2.314	0.026
84	☐	CDT-1666	0.833	2.413	1.033	0.072	Free Surface	0 - 10:21:00 hrs	1.899	1.933	0.030	0.122	2.341	0.026
85	☐	CDT-1670	0.833	2.164	0.831	0.073	Free Surface	0 - 10:18:00 hrs	1.827	1.836	0.034	0.126	2.091	0.026
86	☐	CDT-1672	0.833	2.163	0.830	0.073	Free Surface	0 - 10:22:00 hrs	1.837	1.846	0.034	0.126	2.089	0.027
87	☐	CDT-1674	0.833	2.164	0.831	0.074	Free Surface	0 - 10:29:00 hrs	1.694	1.706	0.034	0.134	2.090	0.027
88	☐	CDT-1676	0.833	1.975	0.692	0.085	Free Surface	0 - 11:00:00 hrs	1.631	1.640	0.043	0.151	1.890	0.031
89	☐	CDT-1678	0.833	1.970	0.689	0.111	Free Surface	0 - 11:00:00 hrs	1.848	1.848	0.057	0.168	1.858	0.040
90	☐	CDT-1680	0.833	1.866	0.618	0.142	Free Surface	0 - 11:00:00 hrs	1.647	1.654	0.076	0.215	1.725	0.051
91	☐	CDT-1682	0.833	1.988	0.702	0.131	Free Surface	0 - 11:00:00 hrs	1.965	1.965	0.066	0.180	1.857	0.047
92	☐	CDT-1684	0.833	1.895	0.637	0.142	Free Surface	0 - 11:00:00 hrs	2.023	2.023	0.075	0.186	1.753	0.051
93	☐	CDT-1686	0.833	1.907	0.646	0.016	Free Surface	0 - 10:11:59 hrs	1.194	1.205	0.008	0.059	1.892	0.006
94	☐	CDT-1688	0.833	3.001	1.598	0.016	Free Surface	0 - 10:23:59 hrs	1.235	1.249	0.005	0.058	2.985	0.006
95	☐	CDT-1690	0.833	1.930	0.661	0.016	Free Surface	0 - 10:37:00 hrs	0.909	0.941	0.008	0.071	1.915	0.006
96	☐	CDT-1692	0.833	2.716	1.309	0.030	Free Surface	0 - 10:38:59 hrs	1.892	1.892	0.011	0.067	2.686	0.011
97	☐	CDT-1694	0.833	4.920	4.296	0.030	Free Surface	0 - 10:40:00 hrs	2.035	2.035	0.006	0.064	4.890	0.011
98	☐	CDT-1696	0.833	2.939	1.533	0.030	Free Surface	0 - 10:40:00 hrs	1.780	1.780	0.010	0.070	2.909	0.011
99	☐	CDT-1698	0.833	3.266	1.894	0.030	Free Surface	0 - 10:45:00 hrs	1.469	1.475	0.009	0.080	3.237	0.011
100	☐	CDT-1700	0.833	1.702	0.514	0.030	Free Surface	0 - 11:00:00 hrs	0.812	0.854	0.017	0.119	1.673	0.011

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		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
101	☐	CDT-1702	0.833	1.727	0.529	0.081	Free Surface	0 - 11:00:00 hrs	1.585	1.585	0.047	0.149	1.646	0.029
102	☐	CDT-1704	0.833	1.655	0.486	0.081	Free Surface	0 - 11:00:00 hrs	1.574	1.574	0.049	0.150	1.575	0.029
103	☐	CDT-1706	0.833	1.709	0.518	0.081	Free Surface	0 - 11:00:00 hrs	1.605	1.605	0.047	0.148	1.628	0.029
104	☐	CDT-1708	0.833	1.760	0.550	0.081	Free Surface	0 - 11:00:00 hrs	1.659	1.659	0.046	0.144	1.679	0.029
105	☐	CDT-1710	0.833	1.860	0.614	0.081	Free Surface	0 - 11:00:00 hrs	1.650	1.650	0.043	0.145	1.779	0.029
106	☐	CDT-1712	0.833	1.742	0.539	0.081	Free Surface	0 - 11:00:00 hrs	1.612	1.612	0.046	0.147	1.662	0.029
107	☐	CDT-1714	0.833	1.754	0.546	0.081	Free Surface	0 - 11:00:59 hrs	1.643	1.644	0.046	0.145	1.673	0.029
108	☐	CDT-1716	0.833	1.801	0.575	0.081	Free Surface	0 - 11:02:00 hrs	1.507	1.508	0.045	0.154	1.720	0.029
109	☐	CDT-1718	0.833	1.629	0.471	0.081	Free Surface	0 - 11:03:00 hrs	1.914	1.914	0.050	0.131	1.548	0.029
110	☐	CDT-1720	0.833	4.085	2.963	0.081	Free Surface	0 - 11:03:00 hrs	2.750	2.750	0.020	0.102	4.005	0.029
111	☐	CDT-1722	0.833	3.593	2.292	0.081	Free Surface	0 - 11:03:59 hrs	2.880	2.880	0.022	0.099	3.513	0.029
112	☐	CDT-1724	0.833	4.814	4.114	0.081	Free Surface	0 - 11:03:59 hrs	3.383	3.383	0.017	0.089	4.734	0.029
113	☐	CDT-1726	0.833	5.273	4.934	0.081	Free Surface	0 - 11:04:59 hrs	3.445	3.445	0.015	0.088	5.192	0.029
114	☐	CDT-1728	0.833	4.939	4.330	0.081	Free Surface	0 - 11:04:59 hrs	3.190	3.190	0.016	0.092	4.858	0.029
115	☐	CDT-1730	0.833	4.242	3.194	0.081	Free Surface	0 - 11:06:00 hrs	3.005	3.005	0.019	0.096	4.161	0.029
116	☐	CDT-1732	0.833	4.142	3.045	0.081	Free Surface	0 - 11:07:00 hrs	2.891	2.891	0.019	0.099	4.061	0.029
117	☐	CDT-1734	0.833	4.027	2.878	0.087	Free Surface	0 - 11:00:00 hrs	2.825	2.842	0.022	0.106	3.939	0.031
118	☐	CDT-1736	1.000	3.283	0.723	1.296	Free Surface	0 - 11:00:00 hrs	3.783	3.783	0.395	0.450	1.987	0.468
119	☐	CDT-1738	1.000	3.284	0.724	1.296	Free Surface	0 - 11:00:00 hrs	3.876	3.876	0.395	0.442	1.988	0.468
120	☐	CDT-1740	1.000	3.280	0.722	1.295	Free Surface	0 - 11:00:00 hrs	3.894	3.894	0.395	0.440	1.985	0.468
121	☐	CDT-1742	1.000	3.282	0.723	1.295	Free Surface	0 - 11:00:59 hrs	3.835	3.835	0.395	0.445	1.987	0.468
122	☐	CDT-1744	1.000	3.281	0.723	1.294	Free Surface	0 - 11:02:00 hrs	3.996	3.996	0.395	0.431	1.986	0.468
123	☐	CDT-1746	1.000	3.693	0.915	1.294	Free Surface	0 - 11:02:00 hrs	4.167	4.167	0.350	0.417	2.399	0.468
124	☐	CDT-1748	1.000	4.049	1.101	2.261	Free Surface	0 - 11:00:00 hrs	5.233	5.254	0.558	0.539	1.788	0.867
125	☐	CDT-1750	1.000	4.478	1.346	2.399	Free Surface	0 - 11:00:00 hrs	5.594	5.594	0.536	0.536	2.078	0.917
126	☐	CDT-1752	1.000	4.477	1.346	2.398	Free Surface	0 - 11:00:00 hrs	5.627	5.627	0.536	0.534	2.079	0.917
127	☐	CDT-1754	1.000	4.478	1.346	2.398	Free Surface	0 - 11:00:00 hrs	5.636	5.636	0.535	0.533	2.080	0.917
128	☐	CDT-1756	1.000	4.478	1.346	2.397	Free Surface	0 - 11:00:00 hrs	5.683	5.683	0.535	0.529	2.081	0.917
129	☐	CDT-1758	1.000	4.477	1.345	2.396	Free Surface	0 - 11:00:00 hrs	5.680	5.680	0.535	0.529	2.081	0.917
130	☐	CDT-465	0.667	1.061	0.657	0.192	Free Surface	0 - 11:00:00 hrs	2.241	2.241	0.181	0.294	0.869	0.069
131	☐	CDT-467	0.667	1.029	0.618	0.197	Free Surface	0 - 11:00:00 hrs	2.302	2.302	0.191	0.293	0.832	0.071
132	☐	CDT-469	0.667	1.110	0.719	0.075	Free Surface	0 - 11:00:00 hrs	2.088	2.088	0.068	0.160	1.035	0.027
133	☐	CDT-471	0.667	0.751	0.329	0.088	Free Surface	0 - 11:00:00 hrs	1.105	1.105	0.117	0.278	0.663	0.031
134	☐	CDT-473	0.667	2.020	2.382	0.077	Free Surface	0 - 11:00:00 hrs	0.968	0.976	0.038	0.279	1.943	0.027
135	☐	CDT-475	0.667	2.268	3.002	0.072	Free Surface	0 - 11:00:00 hrs	2.096	2.097	0.032	0.155	2.196	0.026
136	☐	CDT-477	0.667	1.706	1.699	0.065	Free Surface	0 - 11:00:00 hrs	2.453	2.453	0.038	0.129	1.641	0.023
137	☐	CDT-479	0.667	2.304	3.097	0.204	Free Surface	0 - 11:00:00 hrs	3.802	3.806	0.089	0.211	2.099	0.073
138	☐	CDT-481	0.667	2.266	2.997	0.084	Free Surface	0 - 10:33:59 hrs	3.030	3.030	0.037	0.134	2.182	0.030
139	☐	CDT-483	0.667	2.495	3.633	0.084	Free Surface	0 - 10:33:00 hrs	3.197	3.197	0.034	0.129	2.411	0.030
140	☐	CDT-485	0.667	2.018	2.376	0.076	Free Surface	0 - 10:32:00 hrs	2.839	2.839	0.038	0.131	1.941	0.027
141	☐	CDT-487	0.667	1.319	1.015	0.072	Free Surface	0 - 10:30:00 hrs	2.185	2.185	0.054	0.150	1.247	0.025
142	☐	CDT-489	0.667	1.021	0.608	0.085	Free Surface	0 - 10:48:59 hrs	2.066	2.069	0.083	0.175	0.936	0.030
143	☐	CDT-491	0.667	2.056	2.467	0.088	Free Surface	0 - 10:49:59 hrs	2.722	2.722	0.043	0.149	1.968	0.031
144	☐	CDT-493	0.833	2.314	0.950	0.416	Free Surface	0 - 11:00:59 hrs	2.356	2.392	0.180	0.369	1.898	0.150
145	☐	CDT-495	0.667	1.012	0.597	0.048	Free Surface	0 - 11:00:00 hrs	1.554	1.558	0.047	0.143	0.964	0.017
146	☐	CDT-497	0.667	2.446	3.492	0.044	Free Surface	0 - 10:42:59 hrs	1.821	1.845	0.018	0.122	2.402	0.016
147	☐	CDT-499	0.667	1.761	1.809	0.036	Free Surface	0 - 10:45:59 hrs	1.502	1.550	0.020	0.120	1.725	0.013
148	☐	CDT-501	0.667	0.992	0.574	0.037	Free Surface	0 - 10:37:00 hrs	1.612	1.613	0.037	0.117	0.955	0.013
149	☐	CDT-503	0.667	2.429	3.443	0.030	Free Surface	0 - 10:03:59 hrs	2.475	2.507	0.012	0.076	2.399	0.011
150	☐	CDT-505	0.667	3.091	5.574	0.033	Free Surface	0 - 10:10:00 hrs	2.291	2.366	0.011	0.086	3.058	0.012

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
151	☐	CDT-507	0.667	1.231	0.884	0.244	Free Surface	0 - 11:00:00 hrs	3.120	3.120	0.198	0.275	0.987	0.087
152	☐	CDT-509	0.667	1.967	2.257	0.236	Free Surface	0 - 11:00:00 hrs	3.538	3.542	0.120	0.246	1.731	0.084
153	☐	CDT-511	0.667	1.760	1.807	0.244	Free Surface	0 - 11:00:00 hrs	2.083	2.087	0.139	0.370	1.516	0.087
154	☐	CDT-513	0.833	3.172	1.786	1.021	Free Surface	0 - 11:00:00 hrs	4.879	4.879	0.322	0.408	2.151	0.368
155	☐	CDT-515	0.833	2.702	1.296	1.021	Free Surface	0 - 11:00:59 hrs	4.521	4.522	0.378	0.432	1.681	0.368
156	☐	CDT-517	0.833	2.613	1.212	1.021	Free Surface	0 - 11:02:00 hrs	4.474	4.475	0.391	0.436	1.592	0.368
157	☐	CDT-519	0.833	2.635	1.233	1.020	Free Surface	0 - 11:02:00 hrs	4.437	4.437	0.387	0.438	1.615	0.368
158	☐	CDT-521	0.833	2.578	1.179	1.020	Free Surface	0 - 11:03:00 hrs	4.422	4.422	0.396	0.439	1.557	0.368
159	☐	CDT-523	0.833	2.674	1.269	1.020	Free Surface	0 - 11:03:59 hrs	4.558	4.558	0.382	0.429	1.654	0.368
160	☐	CDT-525	0.833	2.726	1.319	1.020	Free Surface	0 - 11:03:59 hrs	4.344	4.345	0.374	0.450	1.705	0.368
161	☐	CDT-527	0.833	2.587	1.188	1.175	Free Surface	0 - 11:00:00 hrs	4.609	4.609	0.454	0.474	1.412	0.424
162	☐	CDT-529	0.833	2.591	1.192	1.174	Free Surface	0 - 11:00:00 hrs	4.511	4.517	0.453	0.482	1.417	0.424
163	☐	CDT-531	1.000	2.770	0.515	0.470	Free Surface	0 - 11:00:00 hrs	3.087	3.087	0.170	0.248	2.300	0.171
164	☐	CDT-533	1.000	3.010	0.608	0.469	Free Surface	0 - 11:00:00 hrs	2.549	2.549	0.156	0.284	2.541	0.170
165	☐	CDT-535	1.000	3.015	0.610	0.450	Free Surface	0 - 11:00:00 hrs	2.715	2.715	0.149	0.264	2.565	0.163
166	☐	CDT-537	1.000	2.803	0.527	0.441	Free Surface	0 - 11:00:00 hrs	2.625	2.625	0.157	0.266	2.362	0.160
167	☐	CDT-539	0.667	0.965	0.543	0.054	Free Surface	0 - 10:57:59 hrs	1.411	1.425	0.056	0.167	0.911	0.019
168	☐	CDT-541	0.667	1.160	0.785	0.100	Free Surface	0 - 11:00:00 hrs	1.803	1.803	0.086	0.216	1.060	0.036
169	☐	CDT-543	0.667	0.977	0.557	0.101	Free Surface	0 - 11:00:00 hrs	2.145	2.147	0.103	0.192	0.876	0.036
170	☐	CDT-545	0.667	2.041	2.430	0.090	Free Surface	0 - 11:00:00 hrs	2.264	2.269	0.044	0.171	1.951	0.032
171	☐	CDT-547	0.833	2.331	0.964	0.770	Free Surface	0 - 11:00:00 hrs	4.497	4.497	0.330	0.351	1.561	0.277
172	☐	CDT-549	0.833	4.992	4.424	0.769	Free Surface	0 - 11:00:00 hrs	5.771	5.771	0.154	0.293	4.223	0.277
173	☐	CDT-551	0.833	3.474	2.142	0.769	Free Surface	0 - 11:00:00 hrs	5.080	5.080	0.221	0.321	2.704	0.277
174	☐	CDT-553	0.833	3.436	2.095	0.769	Free Surface	0 - 11:00:59 hrs	5.011	5.011	0.224	0.325	2.667	0.277
175	☐	CDT-555	0.833	3.325	1.962	0.769	Free Surface	0 - 11:00:59 hrs	4.808	4.808	0.231	0.334	2.556	0.277
176	☐	CDT-557	0.833	3.192	1.809	0.775	Free Surface	0 - 11:00:00 hrs	4.937	4.937	0.243	0.330	2.417	0.280
177	☐	CDT-559	0.833	3.539	2.223	0.777	Free Surface	0 - 11:00:00 hrs	4.492	4.494	0.220	0.354	2.762	0.281
178	☐	CDT-561	0.500	0.636	1.095	0.007	Free Surface	0 - 10:11:59 hrs	1.300	1.307	0.011	0.067	0.629	0.003
179	☐	CDT-563	0.500	1.359	5.000	0.007	Free Surface	0 - 10:18:59 hrs	1.699	1.700	0.005	0.055	1.352	0.003
180	☐	CDT-565	0.500	1.118	3.382	0.007	Free Surface	0 - 10:22:00 hrs	1.647	1.647	0.007	0.057	1.111	0.003
181	☐	CDT-567	0.500	1.235	4.130	0.007	Free Surface	0 - 10:21:00 hrs	1.718	1.724	0.006	0.055	1.228	0.003
182	☐	CDT-569	0.500	0.816	1.804	0.007	Free Surface	0 - 11:00:00 hrs	1.071	1.089	0.009	0.076	0.809	0.003
183	☐	CDT-571	0.500	1.234	4.120	0.007	Free Surface	0 - 10:26:59 hrs	1.487	1.505	0.006	0.061	1.227	0.003
184	☐	CDT-573	1.000	5.055	1.716	2.207	Free Surface	0 - 11:00:00 hrs	5.495	5.496	0.436	0.509	2.849	0.841
185	☐	CDT-575	1.000	4.310	1.247	2.208	Free Surface	0 - 11:00:00 hrs	5.705	5.705	0.512	0.494	2.102	0.841
186	☐	CDT-579	1.000	4.536	1.381	2.155	Free Surface	0 - 11:00:00 hrs	6.039	6.039	0.475	0.464	2.381	0.820
187	☐	CDT-581	1.000	3.962	1.054	2.202	Free Surface	0 - 11:00:59 hrs	5.494	5.494	0.556	0.508	1.760	0.841
188	☐	CDT-583	1.000	4.347	1.268	2.246	Free Surface	0 - 11:00:00 hrs	5.384	5.385	0.517	0.525	2.101	0.860
189	☐	CDT-589	1.000	4.483	1.349	2.395	Free Surface	0 - 11:00:59 hrs	5.803	5.803	0.534	0.520	2.088	0.917
190	☐	CDT-591	1.000	4.644	1.448	2.394	Free Surface	0 - 11:00:59 hrs	4.874	4.876	0.515	0.605	2.251	0.917
191	☐	CDT-595	0.833	2.689	1.284	1.255	Free Surface	0 - 11:00:00 hrs	4.946	4.946	0.467	0.473	1.434	0.453
192	☐	CDT-597	0.833	3.076	1.680	1.297	Free Surface	0 - 11:00:00 hrs	4.724	4.724	0.421	0.502	1.780	0.468
193	☐	CDT-603	1.000	3.422	0.786	1.294	Free Surface	0 - 11:03:00 hrs	2.879	2.883	0.378	0.564	2.128	0.468
194	☐	CDT-605	1.000	3.631	0.885	0.436	Free Surface	0 - 11:00:00 hrs	2.794	2.794	0.120	0.253	3.196	0.157
195	☐	CDT-607	0.667	2.202	2.829	0.123	Free Surface	0 - 11:00:00 hrs	3.137	3.145	0.056	0.170	2.079	0.044
196	☐	CDT-609	0.833	1.921	0.655	0.317	Free Surface	0 - 11:00:00 hrs	2.569	2.590	0.165	0.277	1.605	0.114
197	☐	CDT-611	0.833	1.935	0.664	0.316	Free Surface	0 - 11:00:00 hrs	2.600	2.600	0.164	0.275	1.618	0.114
198	☐	CDT-613	0.833	2.665	1.261	0.311	Free Surface	0 - 11:00:00 hrs	2.875	2.875	0.117	0.252	2.355	0.112
199	☐	CDT-615	0.833	2.443	1.060	0.416	Free Surface	0 - 11:00:00 hrs	3.278	3.278	0.170	0.283	2.027	0.150
200	☐	CDT-617	0.667	1.876	2.053	0.098	Free Surface	0 - 10:48:59 hrs	1.432	1.585	0.052	0.252	1.778	0.035

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
201	☐	CDT-619	0.667	2.413	3.396	0.094	Free Surface	0 - 10:08:59 hrs	3.018	3.113	0.039	0.145	2.318	0.033
202	☐	CDT-621	0.667	2.341	3.198	0.095	Free Surface	0 - 10:03:00 hrs	3.341	3.399	0.040	0.136	2.246	0.033
203	☐	CDT-623	0.833	3.924	2.733	0.100	Free Surface	0 - 11:00:00 hrs	2.542	2.556	0.025	0.125	3.824	0.036
204	☐	CDT-625	0.667	1.801	1.893	0.091	Free Surface	0 - 10:52:00 hrs	2.845	2.845	0.050	0.147	1.710	0.032
205	☐	CDT-627	0.667	2.317	3.134	0.094	Free Surface	0 - 10:52:59 hrs	3.273	3.273	0.040	0.137	2.224	0.033
206	☐	CDT-629	0.667	2.519	3.704	0.099	Free Surface	0 - 10:56:00 hrs	3.234	3.234	0.039	0.143	2.421	0.035
207	☐	CDT-631	0.667	2.146	2.686	0.105	Free Surface	0 - 10:59:00 hrs	3.077	3.078	0.049	0.153	2.041	0.037
208	☐	CDT-633	0.667	2.071	2.502	0.110	Free Surface	0 - 11:00:00 hrs	3.082	3.083	0.053	0.159	1.960	0.039
209	☐	CDT-635	0.667	1.965	2.252	0.137	Free Surface	0 - 11:00:00 hrs	2.757	2.757	0.070	0.200	1.828	0.049
210	☐	CDT-637	0.667	2.128	2.641	0.120	Free Surface	0 - 11:00:00 hrs	3.299	3.299	0.056	0.161	2.007	0.043
211	☐	CDT-639	0.667	1.492	1.299	0.160	Free Surface	0 - 11:00:00 hrs	2.748	2.748	0.107	0.223	1.332	0.057
212	☐	CDT-641	0.667	1.672	1.631	0.183	Free Surface	0 - 11:00:00 hrs	3.185	3.185	0.109	0.221	1.489	0.065
213	☐	CDT-643	0.667	1.982	2.292	0.198	Free Surface	0 - 11:00:00 hrs	3.731	3.731	0.100	0.209	1.784	0.070
214	☐	CDT-645	0.667	1.956	2.232	0.210	Free Surface	0 - 11:00:00 hrs	3.216	3.216	0.107	0.242	1.746	0.075
215	☐	CDT-647	0.667	1.464	1.250	0.210	Free Surface	0 - 11:00:00 hrs	3.085	3.085	0.144	0.250	1.253	0.075
216	☐	CDT-649	0.667	1.744	1.776	0.214	Free Surface	0 - 11:00:00 hrs	3.203	3.204	0.122	0.246	1.531	0.076
217	☐	CDT-651	0.667	1.557	1.414	0.220	Free Surface	0 - 11:00:00 hrs	3.147	3.147	0.142	0.255	1.336	0.078
218	☐	CDT-653	0.667	1.625	1.540	0.229	Free Surface	0 - 11:00:00 hrs	2.866	2.866	0.141	0.280	1.396	0.082
219	☐	CDT-655	0.667	1.279	0.955	0.235	Free Surface	0 - 11:00:00 hrs	3.086	3.086	0.183	0.270	1.045	0.083
220	☐	CDT-657	0.667	2.345	3.209	0.244	Free Surface	0 - 11:00:00 hrs	3.911	3.911	0.104	0.235	2.101	0.087
221	☐	CDT-659	0.833	5.344	5.069	0.210	Free Surface	0 - 11:00:00 hrs	2.743	2.743	0.039	0.198	5.134	0.075
222	☐	CDT-661	0.833	2.836	1.427	0.183	Free Surface	0 - 11:00:00 hrs	3.294	3.294	0.065	0.158	2.653	0.065
223	☐	CDT-663	0.833	3.028	1.627	0.127	Free Surface	0 - 11:00:00 hrs	2.243	2.244	0.042	0.161	2.900	0.045
224	☐	CDT-665	0.833	2.359	0.988	0.770	Free Surface	0 - 11:00:00 hrs	4.889	4.889	0.327	0.331	1.588	0.277
225	☐	CDT-667	0.833	7.952	11.225	0.770	Free Surface	0 - 11:00:00 hrs	5.034	5.034	0.097	0.324	7.182	0.277
226	☐	CDT-671	1.000	4.181	1.173	1.582	Free Surface	0 - 11:00:00 hrs	4.797	4.799	0.378	0.437	2.599	0.612
227	☐	CDT-673	1.000	4.233	1.203	1.652	Free Surface	0 - 11:00:00 hrs	4.787	4.787	0.390	0.452	2.581	0.639
228	☐	CDT-675	1.000	3.719	0.929	1.677	Free Surface	0 - 11:00:00 hrs	3.763	3.763	0.451	0.553	2.042	0.649
229	☐	CDT-677	0.667	2.159	2.719	0.641	Free Surface	0 - 11:00:00 hrs	3.636	3.636	0.297	0.504	1.518	0.268
230	☐	CDT-679	0.667	2.076	2.515	0.640	Free Surface	0 - 11:00:00 hrs	5.207	5.207	0.308	0.383	1.436	0.267
231	☐	CDT-681	0.667	2.621	4.007	0.639	Free Surface	0 - 11:00:00 hrs	5.557	5.557	0.244	0.364	1.982	0.267
232	☐	CDT-683	0.833	5.152	4.712	0.871	Free Surface	0 - 11:00:00 hrs	5.277	5.281	0.169	0.342	4.281	0.316
233	☐	CDT-685	0.833	2.808	1.400	0.867	Free Surface	0 - 11:00:00 hrs	5.066	5.066	0.309	0.351	1.941	0.315
234	☐	CDT-687	0.833	2.825	1.416	0.862	Free Surface	0 - 11:00:00 hrs	4.202	4.202	0.305	0.402	1.963	0.313
235	☐	CDT-689	0.833	2.322	0.957	0.852	Free Surface	0 - 11:00:00 hrs	4.076	4.077	0.367	0.408	1.470	0.309
236	☐	CDT-691	0.833	2.702	1.296	0.762	Free Surface	0 - 11:00:00 hrs	3.743	3.743	0.282	0.400	1.940	0.276
237	☐	CDT-693	0.833	2.590	1.191	0.751	Free Surface	0 - 11:00:00 hrs	4.112	4.112	0.290	0.369	1.839	0.272
238	☐	CDT-695	0.833	2.558	1.161	0.717	Free Surface	0 - 11:00:00 hrs	3.852	3.852	0.280	0.374	1.840	0.259
239	☐	CDT-697	0.833	2.430	1.048	0.730	Free Surface	0 - 11:00:00 hrs	3.978	3.978	0.301	0.370	1.699	0.264
240	☐	CDT-699	0.833	2.760	1.352	0.742	Free Surface	0 - 11:00:00 hrs	4.131	4.131	0.269	0.364	2.018	0.269
241	☐	CDT-701	0.667	0.966	0.545	0.050	Free Surface	0 - 11:00:00 hrs	1.381	1.381	0.051	0.160	0.917	0.018
242	☐	CDT-703	0.667	1.154	0.777	0.068	Free Surface	0 - 11:00:00 hrs	1.666	1.668	0.059	0.174	1.087	0.024
243	☐	CDT-705	0.667	1.099	0.704	0.065	Free Surface	0 - 11:00:00 hrs	1.719	1.719	0.059	0.165	1.034	0.023
244	☐	CDT-707	0.667	1.143	0.762	0.084	Free Surface	0 - 11:00:00 hrs	0.728	0.770	0.073	0.364	1.059	0.030
245	☐	CDT-709	0.667	0.984	0.565	0.103	Free Surface	0 - 10:34:59 hrs	1.870	1.872	0.105	0.215	0.881	0.037
246	☐	CDT-711	0.667	1.079	0.679	0.104	Free Surface	0 - 10:41:59 hrs	1.242	1.266	0.096	0.290	0.975	0.037
247	☐	CDT-713	0.667	1.475	1.270	0.433	Free Surface	0 - 11:00:00 hrs	3.606	3.606	0.294	0.376	1.042	0.154
248	☐	CDT-715	0.667	1.415	1.168	0.436	Free Surface	0 - 11:00:00 hrs	3.523	3.523	0.308	0.385	0.979	0.155
249	☐	CDT-717	0.667	1.512	1.335	0.439	Free Surface	0 - 11:00:00 hrs	4.120	4.120	0.290	0.344	1.074	0.156
250	☐	CDT-719	0.667	2.258	2.974	0.441	Free Surface	0 - 11:00:00 hrs	3.745	3.749	0.196	0.371	1.816	0.157

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251	☐	CDT-721	0.833	2.571	1.173	0.690	Free Surface	0 - 11:00:00 hrs	3.864	3.864	0.268	0.363	1.881	0.249
252	☐	CDT-723	0.833	2.395	1.018	0.692	Free Surface	0 - 11:00:00 hrs	3.788	3.791	0.289	0.369	1.703	0.250
253	☐	CDT-725	0.833	2.536	1.142	0.706	Free Surface	0 - 11:00:00 hrs	3.931	3.931	0.278	0.364	1.830	0.255
254	☐	CDT-727	0.667	1.028	0.616	0.088	Free Surface	0 - 10:56:59 hrs	1.700	1.707	0.085	0.205	0.940	0.031
255	☐	CDT-729	0.667	0.975	0.555	0.097	Free Surface	0 - 10:59:00 hrs	1.735	1.736	0.099	0.217	0.878	0.034
256	☐	CDT-731	0.667	1.359	1.078	0.258	Free Surface	0 - 11:00:00 hrs	3.737	3.737	0.190	0.252	1.101	0.092
257	☐	CDT-733	0.667	3.874	8.758	0.261	Free Surface	0 - 11:00:00 hrs	3.369	3.369	0.067	0.273	3.613	0.093
258	☐	CDT-735	0.667	2.344	3.205	0.072	Free Surface	0 - 10:59:00 hrs	2.450	2.461	0.031	0.139	2.271	0.026
259	☐	CDT-737	0.667	1.351	1.064	0.073	Free Surface	0 - 10:52:59 hrs	1.956	1.957	0.054	0.164	1.278	0.026
260	☐	CDT-739	0.667	1.209	0.853	0.076	Free Surface	0 - 10:56:00 hrs	1.727	1.733	0.063	0.184	1.133	0.027
261	☐	CDT-741	0.667	0.965	0.543	0.063	Free Surface	0 - 10:59:00 hrs	1.518	1.534	0.065	0.176	0.902	0.022
262	☐	CDT-743	0.667	0.961	0.538	0.067	Free Surface	0 - 11:00:00 hrs	0.861	0.913	0.070	0.275	0.893	0.024
263	☐	CDT-745	0.667	2.489	3.615	0.251	Free Surface	0 - 11:00:00 hrs	3.268	3.268	0.101	0.272	2.238	0.089
264	☐	CDT-747	0.667	1.542	1.387	0.206	Free Surface	0 - 11:00:00 hrs	3.613	3.613	0.134	0.220	1.336	0.073
265	☐	CDT-749	0.667	3.229	6.083	0.214	Free Surface	0 - 11:00:00 hrs	3.841	3.841	0.066	0.216	3.015	0.076
266	☐	CDT-751	0.667	2.574	3.867	0.025	Free Surface	0 - 10:17:00 hrs	1.647	1.694	0.010	0.088	2.550	0.009
267	☐	CDT-753	0.667	1.693	1.672	0.195	Free Surface	0 - 11:00:00 hrs	3.769	3.769	0.115	0.206	1.498	0.069
268	☐	CDT-755	0.667	3.394	6.722	0.201	Free Surface	0 - 11:00:00 hrs	3.635	3.635	0.059	0.216	3.193	0.072
269	☐	CDT-757	0.667	1.182	0.815	0.153	Free Surface	0 - 11:00:00 hrs	2.225	2.225	0.129	0.251	1.029	0.054
270	☐	CDT-759	0.667	1.122	0.735	0.162	Free Surface	0 - 11:00:00 hrs	2.332	2.336	0.144	0.253	0.961	0.058
271	☐	CDT-761	0.667	1.641	1.570	0.223	Free Surface	0 - 11:00:00 hrs	3.542	3.542	0.136	0.237	1.417	0.080
272	☐	CDT-763	0.667	1.102	0.708	0.145	Free Surface	0 - 11:00:00 hrs	2.191	2.191	0.131	0.244	0.957	0.051
273	☐	CDT-765	0.667	2.149	2.695	0.122	Free Surface	0 - 11:00:00 hrs	2.397	2.398	0.057	0.204	2.027	0.044
274	☐	CDT-767	0.667	2.303	3.095	0.114	Free Surface	0 - 11:00:00 hrs	3.270	3.270	0.050	0.157	2.189	0.041
275	☐	CDT-769	1.000	4.343	1.266	1.571	Free Surface	0 - 11:00:00 hrs	4.944	4.944	0.362	0.425	2.771	0.608
276	☐	CDT-771	1.000	3.380	0.767	0.930	Free Surface	0 - 11:00:00 hrs	3.270	3.270	0.275	0.391	2.450	0.340
277	☐	CDT-773	1.000	2.606	0.456	0.929	Free Surface	0 - 11:00:00 hrs	3.214	3.214	0.356	0.396	1.677	0.339
278	☐	CDT-775	1.000	3.363	0.759	0.923	Free Surface	0 - 11:00:00 hrs	3.195	3.195	0.274	0.395	2.440	0.336
279	☐	CDT-777	1.000	3.062	0.629	0.910	Free Surface	0 - 11:00:00 hrs	3.455	3.455	0.297	0.369	2.153	0.331
280	☐	CDT-779	1.000	3.627	0.883	0.896	Free Surface	0 - 11:00:00 hrs	3.529	3.529	0.247	0.359	2.731	0.326
281	☐	CDT-781	0.667	1.293	0.975	0.040	Free Surface	0 - 11:00:00 hrs	1.382	1.383	0.031	0.137	1.253	0.014
282	☐	CDT-783	0.667	0.769	0.345	0.037	Free Surface	0 - 11:00:00 hrs	1.239	1.239	0.047	0.139	0.733	0.013
283	☐	CDT-785	0.667	1.426	1.186	0.032	Free Surface	0 - 11:00:00 hrs	1.192	1.192	0.023	0.131	1.394	0.011
284	☐	CDT-787	0.667	0.729	0.310	0.027	Free Surface	0 - 11:00:00 hrs	1.096	1.096	0.037	0.124	0.701	0.010
285	☐	CDT-789	0.667	0.989	0.571	0.019	Free Surface	0 - 11:00:00 hrs	0.785	0.788	0.019	0.119	0.971	0.007
286	☐	CDT-791	0.667	0.448	0.117	0.014	Free Surface	0 - 10:52:00 hrs	0.601	0.601	0.032	0.119	0.434	0.005
287	☐	CDT-793	0.667	1.676	1.640	0.012	Free Surface	0 - 11:00:00 hrs	0.628	0.631	0.007	0.102	1.665	0.004
288	☐	CDT-795	0.667	0.873	0.444	0.008	Free Surface	0 - 11:00:00 hrs	0.840	0.840	0.009	0.066	0.864	0.003
289	☐	CDT-797	0.667	1.000	0.584	0.004	Free Surface	0 - 11:00:00 hrs	0.472	0.475	0.004	0.059	0.996	0.001
290	☐	CDT-799	0.667	1.220	0.869	0.004	Free Surface	0 - 11:00:00 hrs	0.264	0.287	0.004	0.094	1.216	0.002
291	☐	CDT-801	0.667	1.099	0.705	0.001	Free Surface	0 - 10:45:59 hrs	0.275	0.283	0.001	0.033	1.098	0.000
292	☐	CDT-803	0.667	1.075	0.674	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.023	1.075	0.000
293	☐	CDT-805	1.000	2.861	0.549	0.238	Free Surface	0 - 11:00:00 hrs	2.189	2.189	0.083	0.196	2.623	0.086
294	☐	CDT-807	1.000	2.795	0.524	0.237	Free Surface	0 - 11:00:59 hrs	2.133	2.133	0.085	0.199	2.558	0.086
295	☐	CDT-809	1.000	2.719	0.496	0.242	Free Surface	0 - 11:00:00 hrs	2.120	2.120	0.089	0.203	2.477	0.088
296	☐	CDT-811	0.833	1.872	0.622	0.246	Free Surface	0 - 11:00:00 hrs	1.791	1.791	0.131	0.299	1.626	0.090
297	☐	CDT-813	0.667	2.309	3.112	0.333	Free Surface	0 - 11:00:00 hrs	3.721	3.795	0.144	0.304	1.976	0.121
298	☐	CDT-815	0.667	0.869	0.440	0.331	Free Surface	0 - 11:00:00 hrs	2.865	2.865	0.381	0.365	0.538	0.120
299	☐	CDT-817	0.667	1.291	0.973	0.325	Free Surface	0 - 11:00:00 hrs	2.425	2.425	0.252	0.408	0.967	0.118
300	☐	CDT-819	0.667	0.849	0.420	0.314	Free Surface	0 - 11:00:00 hrs	2.475	2.475	0.370	0.392	0.535	0.114

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301	☐	CDT-821	0.667	1.425	1.184	0.301	Free Surface	0 - 11:00:00 hrs	2.498	2.498	0.211	0.377	1.124	0.108
302	☐	CDT-823	0.667	1.943	2.204	0.038	Free Surface	0 - 10:57:59 hrs	2.419	2.419	0.020	0.091	1.905	0.014
303	☐	CDT-825	0.667	3.751	8.212	0.050	Free Surface	0 - 10:48:59 hrs	1.147	1.278	0.013	0.184	3.701	0.018
304	☐	CDT-827	0.667	1.475	1.270	0.266	Free Surface	0 - 11:00:00 hrs	3.022	3.023	0.180	0.300	1.209	0.096
305	☐	CDT-829	0.667	1.657	1.603	0.241	Free Surface	0 - 11:00:00 hrs	3.061	3.061	0.145	0.277	1.417	0.086
306	☐	CDT-831	0.667	1.257	0.923	0.085	Free Surface	0 - 10:45:00 hrs	1.798	1.798	0.067	0.192	1.173	0.030
307	☐	CDT-833	0.667	2.137	2.665	0.084	Free Surface	0 - 10:37:00 hrs	2.428	2.435	0.039	0.156	2.053	0.030
308	☐	CDT-835	0.667	2.357	3.241	0.088	Free Surface	0 - 11:00:00 hrs	3.047	3.047	0.037	0.137	2.269	0.031
309	☐	CDT-837	1.000	2.852	0.546	1.925	Free Surface	0 - 11:00:00 hrs	4.127	4.147	0.675	0.574	0.928	0.738
310	☐	CDT-839	0.833	2.523	1.130	0.294	Free Surface	0 - 11:00:00 hrs	3.119	3.124	0.117	0.229	2.229	0.105
311	☐	CDT-841	0.833	3.394	2.044	0.293	Free Surface	0 - 11:00:00 hrs	3.379	3.379	0.086	0.216	3.101	0.105
312	☐	CDT-843	0.833	1.014	0.182	0.289	Free Surface	0 - 11:00:00 hrs	1.862	1.862	0.285	0.327	0.725	0.103
313	☐	CDT-845	0.833	1.840	0.601	0.292	Free Surface	0 - 11:00:00 hrs	2.849	2.849	0.159	0.243	1.548	0.105
314	☐	CDT-847	0.833	1.803	0.577	0.284	Free Surface	0 - 11:00:00 hrs	1.907	1.907	0.158	0.318	1.519	0.101
315	☐	CDT-849	0.833	3.912	2.717	0.225	Free Surface	0 - 11:00:00 hrs	2.924	2.965	0.058	0.199	3.687	0.080
316	☐	CDT-851	0.833	2.309	0.946	0.280	Free Surface	0 - 11:00:00 hrs	2.599	2.599	0.121	0.252	2.029	0.100
317	☐	CDT-853	0.833	3.562	2.252	0.213	Free Surface	0 - 11:00:00 hrs	3.008	3.014	0.060	0.188	3.349	0.076
318	☐	CDT-855	0.833	2.473	1.086	0.221	Free Surface	0 - 11:00:00 hrs	2.910	2.910	0.089	0.197	2.252	0.079
319	☐	CDT-857	0.833	3.199	1.817	0.225	Free Surface	0 - 11:00:00 hrs	3.550	3.550	0.070	0.173	2.975	0.080
320	☐	CDT-859	0.833	1.662	0.491	0.213	Free Surface	0 - 11:00:00 hrs	2.500	2.500	0.128	0.213	1.449	0.076
321	☐	CDT-861	0.833	2.947	1.541	0.306	Free Surface	0 - 11:00:00 hrs	3.709	3.709	0.104	0.209	2.640	0.110
322	☐	CDT-863	0.833	3.791	2.551	0.308	Free Surface	0 - 11:00:00 hrs	3.657	3.657	0.081	0.212	3.483	0.111
323	☐	CDT-865	0.667	0.998	0.581	0.042	Free Surface	0 - 10:32:00 hrs	1.281	1.331	0.042	0.151	0.955	0.015
324	☐	CDT-867	0.667	1.277	0.952	0.243	Free Surface	0 - 11:00:00 hrs	2.591	2.591	0.190	0.314	1.034	0.087
325	☐	CDT-873	0.667	1.393	1.132	0.177	Free Surface	0 - 11:00:00 hrs	2.611	2.611	0.127	0.248	1.216	0.063
326	☐	CDT-875	0.667	1.352	1.067	0.180	Free Surface	0 - 11:00:00 hrs	2.901	2.901	0.133	0.234	1.172	0.064
327	☐	CDT-877	0.667	1.860	2.019	0.183	Free Surface	0 - 11:00:00 hrs	3.007	3.007	0.098	0.230	1.677	0.065
328	☐	CDT-879	0.667	1.346	1.057	0.183	Free Surface	0 - 11:00:00 hrs	2.399	2.399	0.136	0.270	1.163	0.065
329	☐	CDT-881	0.667	0.998	0.581	0.183	Free Surface	0 - 11:00:00 hrs	2.180	2.182	0.183	0.290	0.815	0.066
330	☐	CDT-883	0.667	2.207	2.843	0.027	Free Surface	0 - 10:45:59 hrs	1.736	1.750	0.012	0.089	2.180	0.010
331	☐	CDT-885	0.667	2.091	2.551	0.015	Free Surface	0 - 10:22:59 hrs	1.431	1.472	0.007	0.069	2.076	0.005
332	☐	CDT-887	0.833	3.378	2.026	0.202	Free Surface	0 - 10:03:00 hrs	3.540	3.599	0.060	0.162	3.176	0.071
333	☐	CDT-893	0.667	0.993	0.575	0.131	Free Surface	0 - 23:00:00 hrs	2.081	2.081	0.132	0.237	0.861	0.076
334	☐	CDT-895	0.667	1.223	0.872	0.132	Free Surface	0 - 23:00:00 hrs	2.063	2.063	0.108	0.239	1.091	0.076
335	☐	CDT-897	0.667	0.942	0.518	0.132	Free Surface	0 - 23:00:00 hrs	1.912	1.912	0.140	0.252	0.810	0.076
336	☐	CDT-899	0.667	0.974	0.554	0.132	Free Surface	0 - 23:00:00 hrs	1.773	1.886	0.136	0.274	0.842	0.076
337	☐	CDT-901	1.000	2.981	0.596	0.268	Free Surface	0 - 11:00:00 hrs	1.829	1.854	0.090	0.242	2.713	0.127
338	☐	CDT-903	1.000	3.094	0.643	0.534	Free Surface	0 - 11:02:00 hrs	2.842	2.843	0.172	0.290	2.561	0.227
339	☐	CDT-905	1.000	3.034	0.618	0.588	Free Surface	0 - 11:00:00 hrs	2.954	2.954	0.194	0.301	2.446	0.247
340	☐	CDT-907	1.000	2.969	0.592	0.586	Free Surface	0 - 11:00:00 hrs	2.919	2.919	0.198	0.303	2.383	0.247
341	☐	CDT-909	1.000	2.923	0.573	0.585	Free Surface	0 - 11:00:59 hrs	2.656	2.657	0.200	0.324	2.337	0.247
342	☐	CDT-911	1.000	2.783	0.520	0.585	Free Surface	0 - 11:02:00 hrs	3.456	3.456	0.210	0.269	2.197	0.247
343	☐	CDT-913	1.000	7.764	4.046	0.634	Free Surface	0 - 11:00:00 hrs	5.333	5.333	0.082	0.209	7.130	0.265
344	☐	CDT-915	0.667	2.462	3.538	0.059	Free Surface	0 - 10:33:00 hrs	2.705	2.787	0.024	0.113	2.403	0.021
345	☐	CDT-917	0.667	2.158	2.717	0.065	Free Surface	0 - 10:56:59 hrs	2.755	2.770	0.030	0.120	2.093	0.023
346	☐	CDT-919	0.667	1.674	1.636	0.156	Free Surface	0 - 11:00:00 hrs	2.981	2.981	0.093	0.207	1.519	0.056
347	☐	CDT-921	0.667	1.719	1.723	0.157	Free Surface	0 - 11:00:00 hrs	3.113	3.113	0.091	0.202	1.562	0.056
348	☐	CDT-923	0.667	1.928	2.168	0.158	Free Surface	0 - 11:00:00 hrs	3.408	3.408	0.082	0.191	1.770	0.056
349	☐	CDT-925	0.667	2.132	2.653	0.158	Free Surface	0 - 11:00:00 hrs	2.935	2.944	0.074	0.212	1.974	0.056
350	☐	CDT-927	0.667	1.350	1.064	0.168	Free Surface	0 - 11:00:00 hrs	2.618	2.618	0.125	0.240	1.182	0.060

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
351	☐	CDT-929	0.667	1.593	1.480	0.041	Free Surface	0 - 10:25:00 hrs	1.659	1.728	0.026	0.124	1.551	0.015
352	☐	CDT-931	0.667	1.228	0.879	0.050	Free Surface	0 - 10:49:59 hrs	1.629	1.650	0.040	0.143	1.178	0.018
353	☐	CDT-933	0.667	1.228	0.879	0.058	Free Surface	0 - 10:55:00 hrs	1.671	1.685	0.047	0.156	1.170	0.021
354	☐	CDT-935	0.667	1.117	0.728	0.065	Free Surface	0 - 10:23:59 hrs	1.740	1.743	0.058	0.164	1.052	0.023
355	☐	CDT-937	0.500	0.529	0.758	0.007	Free Surface	0 - 10:41:59 hrs	1.045	1.047	0.014	0.077	0.522	0.003
356	☐	CDT-941	0.833	3.906	2.708	0.102	Free Surface	0 - 10:21:00 hrs	2.855	2.858	0.026	0.117	3.803	0.036
357	☐	CDT-943	0.833	3.390	2.040	0.109	Free Surface	0 - 10:29:00 hrs	2.817	2.817	0.032	0.124	3.281	0.039
358	☐	CDT-945	0.833	3.396	2.047	0.111	Free Surface	0 - 10:55:00 hrs	2.837	2.837	0.033	0.124	3.285	0.040
359	☐	CDT-947	0.833	3.413	2.068	0.111	Free Surface	0 - 10:26:00 hrs	2.920	2.925	0.033	0.122	3.302	0.040
360	☐	CDT-949	0.833	3.672	2.394	0.111	Free Surface	0 - 10:48:00 hrs	2.812	2.850	0.030	0.125	3.561	0.040
361	☐	CDT-951	0.833	3.696	2.425	0.136	Free Surface	0 - 10:51:00 hrs	3.004	3.004	0.037	0.138	3.560	0.048
362	☐	CDT-953	0.833	3.542	2.226	0.158	Free Surface	0 - 10:52:59 hrs	3.117	3.117	0.045	0.149	3.383	0.056
363	☐	CDT-955	0.833	3.534	2.216	0.181	Free Surface	0 - 10:55:00 hrs	2.765	2.765	0.051	0.177	3.353	0.064
364	☐	CDT-957	0.833	2.422	1.041	0.210	Free Surface	0 - 10:59:00 hrs	2.751	2.751	0.087	0.198	2.211	0.075
365	☐	CDT-959	0.833	2.535	1.141	0.210	Free Surface	0 - 10:59:00 hrs	2.768	2.768	0.083	0.197	2.325	0.075
366	☐	CDT-961	0.833	2.420	1.039	0.210	Free Surface	0 - 10:59:00 hrs	2.613	2.623	0.087	0.205	2.210	0.075
367	☐	CDT-963	0.833	2.430	1.048	0.230	Free Surface	0 - 11:00:00 hrs	2.873	2.873	0.095	0.205	2.199	0.082
368	☐	CDT-965	0.833	2.761	1.353	0.237	Free Surface	0 - 10:59:00 hrs	2.814	2.814	0.086	0.212	2.524	0.084
369	☐	CDT-967	0.833	2.293	0.933	0.240	Free Surface	0 - 11:00:00 hrs	2.865	2.865	0.105	0.211	2.053	0.085
370	☐	CDT-969	0.833	2.877	1.469	0.242	Free Surface	0 - 11:00:00 hrs	0.936	1.019	0.084	0.479	2.635	0.086
371	☐	CDT-973	0.833	4.427	3.479	0.052	Free Surface	0 - 10:29:00 hrs	2.496	2.531	0.012	0.081	4.376	0.018
372	☐	CDT-975	0.833	4.037	2.893	0.061	Free Surface	0 - 10:34:59 hrs	2.468	2.487	0.015	0.091	3.977	0.022
373	☐	CDT-977	0.833	3.651	2.366	0.070	Free Surface	0 - 10:30:59 hrs	2.538	2.542	0.019	0.098	3.581	0.025
374	☐	CDT-979	0.833	3.911	2.715	0.081	Free Surface	0 - 10:33:59 hrs	2.342	2.344	0.021	0.114	3.830	0.029
375	☐	CDT-981	0.833	2.787	1.379	0.093	Free Surface	0 - 10:17:00 hrs	2.509	2.511	0.033	0.120	2.694	0.033
376	☐	PATCH1	1.000	5.173	2.108	2.248	Free Surface	0 - 11:00:00 hrs	5.947	5.947	0.435	0.485	2.925	0.860

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
1	☐	CDT-1500	0.196	0.000	0.000	24.000	0.000	0.000	0
2	☐	CDT-1502	0.327	0.000	0.000	24.000	0.000	0.000	0
3	☐	CDT-1504	0.680	0.000	0.000	0.000	0.000	0.000	0
4	☐	CDT-1506	0.707	0.000	0.000	0.000	0.000	0.000	0
5	☐	CDT-1508	0.735	0.000	0.000	0.000	0.000	0.000	0
6	☐	CDT-1510	0.753	0.000	0.000	0.000	0.000	0.000	0
7	☐	CDT-1512	0.757	0.000	0.000	0.000	0.000	0.000	0
8	☐	CDT-1514	0.756	0.000	0.000	0.000	0.000	0.000	0
9	☐	CDT-1516	0.743	0.000	0.000	0.000	0.000	0.000	0
10	☐	CDT-1518	0.717	0.000	0.000	0.000	0.000	0.000	0
11	☐	CDT-1520	0.679	0.000	0.000	0.000	0.000	0.000	0
12	☐	CDT-1522	1.044	0.000	0.000	0.000	0.000	0.000	0
13	☐	CDT-1524	0.995	0.000	0.000	0.000	0.000	0.000	0
14	☐	CDT-1526	0.993	0.000	0.000	0.000	0.000	0.000	0
15	☐	CDT-1528	0.546	0.000	0.000	0.000	0.000	0.000	0
16	☐	CDT-1530	0.426	0.000	0.000	0.000	0.000	0.000	0
17	☐	CDT-1532	0.251	0.000	0.000	0.000	0.000	0.000	0
18	☐	CDT-1534	0.295	0.000	0.000	0.000	0.000	0.000	0
19	☐	CDT-1536	0.196	0.000	0.000	24.000	0.000	0.000	0
20	☐	CDT-1538	0.196	24.000	24.000	24.000	0.000	0.000	0
21	☐	CDT-1540	0.196	24.000	24.000	24.000	0.000	0.000	0
22	☐	CDT-1542	0.196	24.000	24.000	24.000	0.000	0.000	0
23	☐	CDT-1544	0.196	24.000	24.000	24.000	0.000	0.000	0
24	☐	CDT-1546	0.196	24.000	24.000	24.000	0.000	0.000	0
25	☐	CDT-1548	0.196	24.000	24.000	24.000	0.000	0.000	0
26	☐	CDT-1550	0.196	24.000	24.000	24.000	0.000	0.000	0
27	☐	CDT-1552	0.196	24.000	24.000	24.000	0.000	0.000	0
28	☐	CDT-1554	0.196	24.000	24.000	24.000	0.000	0.000	0
29	☐	CDT-1556	0.196	24.000	24.000	24.000	0.000	0.000	0
30	☐	CDT-1558	0.196	24.000	24.000	24.000	0.000	0.000	0
31	☐	CDT-1560	0.196	24.000	24.000	24.000	0.000	0.000	0
32	☐	CDT-1562	0.196	24.000	24.000	24.000	0.000	0.000	0
33	☐	CDT-1564	0.196	24.000	24.000	24.000	0.000	0.000	0
34	☐	CDT-1566	0.196	24.000	24.000	24.000	0.000	0.000	0
35	☐	CDT-1568	0.196	0.000	0.000	24.000	0.000	0.000	0
36	☐	CDT-1570	0.427	0.000	0.000	0.000	0.000	0.000	0
37	☐	CDT-1572	0.441	0.000	0.000	0.000	0.000	0.000	0
38	☐	CDT-1574	0.414	0.000	0.000	0.000	0.000	0.000	0
39	☐	CDT-1576	0.415	0.000	0.000	0.000	0.000	0.000	0
40	☐	CDT-1578	0.196	24.000	24.000	24.000	0.000	0.000	0
41	☐	CDT-1580	0.196	24.000	24.000	24.000	0.000	0.000	0
42	☐	CDT-1582	0.196	24.000	24.000	24.000	0.000	0.000	0
43	☐	CDT-1584	1.000	0.000	0.000	0.000	0.000	0.000	0
44	☐	CDT-1586	1.000	0.000	0.000	0.000	0.000	0.000	0
45	☐	CDT-1588	0.970	0.000	0.000	0.000	0.000	0.000	0
46	☐	CDT-1590	1.250	0.000	0.369	0.000	0.000	0.000	0
47	☐	CDT-1592	1.250	0.000	0.000	0.369	0.000	0.000	0
48	☐	CDT-1594	1.250	0.000	0.000	0.000	0.000	0.000	0
49	☐	CDT-1596	1.250	0.000	0.000	0.000	0.000	0.000	0
50	☐	CDT-1598	1.250	0.000	0.000	0.000	0.000	0.000	0

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51	☐	CDT-1600	1.250	0.000	0.000	0.000	0.000	0.000	0
52	☐	CDT-1602	1.250	0.000	0.000	0.000	0.000	0.000	0
53	☐	CDT-1604	1.250	0.000	0.000	0.000	0.000	0.000	0
54	☐	CDT-1606	1.250	0.000	0.000	0.000	0.000	0.000	0
55	☐	CDT-1608	1.250	0.000	0.000	0.000	0.000	0.000	0
56	☐	CDT-1610	1.250	0.000	0.000	0.000	0.000	0.000	0
57	☐	CDT-1612	1.250	0.000	0.000	0.000	0.000	0.000	0
58	☐	CDT-1614	1.250	0.000	0.000	0.000	0.000	0.000	0
59	☐	CDT-1616	1.250	0.000	0.000	0.000	0.000	0.000	0
60	☐	CDT-1618	1.250	0.000	0.000	0.000	0.000	0.000	0
61	☐	CDT-1620	1.250	0.000	0.000	0.000	0.000	0.000	0
62	☐	CDT-1622	1.250	0.000	0.000	0.000	0.000	0.000	0
63	☐	CDT-1624	1.000	0.000	0.000	0.000	0.000	0.000	0
64	☐	CDT-1626	1.000	0.000	0.000	0.000	0.000	0.000	0
65	☐	CDT-1628	1.000	0.000	0.000	0.000	0.065	0.000	0
66	☐	CDT-1630	1.000	0.000	0.000	0.000	0.000	0.000	0
67	☐	CDT-1632	1.000	0.000	0.000	0.000	0.000	0.000	0
68	☐	CDT-1634	1.000	0.000	0.000	0.000	0.000	0.000	0
69	☐	CDT-1636	1.000	0.000	0.000	0.000	0.000	0.000	0
70	☐	CDT-1638	1.000	0.000	0.000	0.000	0.000	0.000	0
71	☐	CDT-1640	1.000	0.000	0.000	0.000	0.000	0.000	0
72	☐	CDT-1642	1.000	0.000	0.000	0.000	0.000	0.000	0
73	☐	CDT-1644	0.713	0.000	0.000	0.000	0.000	0.000	0
74	☐	CDT-1646	0.727	0.000	0.000	0.000	0.000	0.000	0
75	☐	CDT-1648	0.736	0.000	0.000	0.000	0.000	0.000	0
76	☐	CDT-1650	0.743	0.000	0.000	0.000	0.000	0.000	0
77	☐	CDT-1652	0.748	0.000	0.000	0.000	0.000	0.000	0
78	☐	CDT-1654	0.754	0.000	0.000	0.000	0.000	0.000	0
79	☐	CDT-1656	0.721	0.000	0.000	0.000	0.000	0.000	0
80	☐	CDT-1658	0.741	0.000	0.000	0.000	0.000	0.000	0
81	☐	CDT-1660	0.457	0.000	0.000	0.000	0.000	0.000	0
82	☐	CDT-1662	0.429	0.000	0.000	0.000	0.000	0.000	0
83	☐	CDT-1664	0.540	0.000	0.000	0.000	0.000	0.000	0
84	☐	CDT-1666	0.546	0.000	0.000	0.000	0.000	0.000	0
85	☐	CDT-1670	0.552	0.000	0.000	0.000	0.000	0.000	0
86	☐	CDT-1672	0.553	0.000	0.000	0.000	0.000	0.000	0
87	☐	CDT-1674	0.567	0.000	0.000	0.000	0.000	0.000	0
88	☐	CDT-1676	0.597	0.000	0.000	0.000	0.000	0.000	0
89	☐	CDT-1678	0.622	0.000	0.000	0.000	0.000	0.000	0
90	☐	CDT-1680	0.684	0.000	0.000	0.000	0.000	0.000	0
91	☐	CDT-1682	0.640	0.000	0.000	0.000	0.000	0.000	0
92	☐	CDT-1684	0.648	0.000	0.000	0.000	0.000	0.000	0
93	☐	CDT-1686	0.393	0.000	0.000	0.000	0.000	0.000	0
94	☐	CDT-1688	0.388	0.000	0.000	0.000	0.000	0.000	0
95	☐	CDT-1690	0.426	0.000	0.000	0.000	0.000	0.000	0
96	☐	CDT-1692	0.415	0.000	0.000	0.000	0.000	0.000	0
97	☐	CDT-1694	0.406	0.000	0.000	0.000	0.000	0.000	0
98	☐	CDT-1696	0.423	0.000	0.000	0.000	0.000	0.000	0
99	☐	CDT-1698	0.451	0.000	0.000	0.000	0.000	0.000	0
100	☐	CDT-1700	0.540	0.000	0.000	0.000	0.000	0.000	0

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101	☐	CDT-1702	0.593	0.000	0.000	0.000	0.000	0.000	0
102	☐	CDT-1704	0.594	0.000	0.000	0.000	0.000	0.000	0
103	☐	CDT-1706	0.591	0.000	0.000	0.000	0.000	0.000	0
104	☐	CDT-1708	0.586	0.000	0.000	0.000	0.000	0.000	0
105	☐	CDT-1710	0.586	0.000	0.000	0.000	0.000	0.000	0
106	☐	CDT-1712	0.590	0.000	0.000	0.000	0.000	0.000	0
107	☐	CDT-1714	0.587	0.000	0.000	0.000	0.000	0.000	0
108	☐	CDT-1716	0.602	0.000	0.000	0.000	0.000	0.000	0
109	☐	CDT-1718	0.562	0.000	0.000	0.000	0.000	0.000	0
110	☐	CDT-1720	0.504	0.000	0.000	0.000	0.000	0.000	0
111	☐	CDT-1722	0.498	0.000	0.000	0.000	0.000	0.000	0
112	☐	CDT-1724	0.473	0.000	0.000	0.000	0.000	0.000	0
113	☐	CDT-1726	0.470	0.000	0.000	0.000	0.000	0.000	0
114	☐	CDT-1728	0.481	0.000	0.000	0.000	0.000	0.000	0
115	☐	CDT-1730	0.491	0.000	0.000	0.000	0.000	0.000	0
116	☐	CDT-1732	0.498	0.000	0.000	0.000	0.000	0.000	0
117	☐	CDT-1734	0.512	0.000	0.000	0.000	0.000	0.000	0
118	☐	CDT-1736	0.995	0.000	0.000	0.000	0.000	0.000	0
119	☐	CDT-1738	0.993	0.000	0.000	0.000	0.000	0.000	0
120	☐	CDT-1740	0.993	0.000	0.000	0.000	0.000	0.000	0
121	☐	CDT-1742	0.994	0.000	0.000	0.000	0.000	0.000	0
122	☐	CDT-1744	0.990	0.000	0.000	0.000	0.000	0.000	0
123	☐	CDT-1746	0.986	0.000	0.000	0.000	0.000	0.000	0
124	☐	CDT-1748	1.000	0.000	0.000	0.000	0.000	0.000	0
125	☐	CDT-1750	1.000	0.000	0.000	0.000	0.000	0.000	0
126	☐	CDT-1752	1.000	0.000	0.000	0.000	0.000	0.000	0
127	☐	CDT-1754	1.000	0.000	0.000	0.000	0.000	0.000	0
128	☐	CDT-1756	1.000	0.000	0.000	0.000	0.000	0.000	0
129	☐	CDT-1758	1.000	0.000	0.000	0.000	0.000	0.000	0
130	☐	CDT-465	0.607	0.000	0.000	0.000	0.000	0.000	0
131	☐	CDT-467	0.607	0.000	0.000	0.000	0.000	0.000	0
132	☐	CDT-469	0.489	0.000	0.000	0.000	0.000	0.000	0
133	☐	CDT-471	0.597	0.000	0.000	0.000	0.000	0.000	0
134	☐	CDT-473	0.598	0.000	0.000	0.000	0.000	0.000	0
135	☐	CDT-475	0.482	0.000	0.000	0.000	0.000	0.000	0
136	☐	CDT-477	0.446	0.000	0.000	0.000	0.000	0.000	0
137	☐	CDT-479	0.544	0.000	0.000	0.000	0.000	0.000	0
138	☐	CDT-481	0.453	0.000	0.000	0.000	0.000	0.000	0
139	☐	CDT-483	0.446	0.000	0.000	0.000	0.000	0.000	0
140	☐	CDT-485	0.449	0.000	0.000	0.000	0.000	0.000	0
141	☐	CDT-487	0.475	0.000	0.000	0.000	0.000	0.000	0
142	☐	CDT-489	0.507	0.000	0.000	0.000	0.000	0.000	0
143	☐	CDT-491	0.474	0.000	0.000	0.000	0.000	0.000	0
144	☐	CDT-493	0.804	0.000	0.000	0.000	0.000	0.000	0
145	☐	CDT-495	0.467	0.000	0.000	0.000	0.000	0.000	0
146	☐	CDT-497	0.436	0.000	0.000	0.000	0.000	0.000	0
147	☐	CDT-499	0.433	0.000	0.000	0.000	0.000	0.000	0
148	☐	CDT-501	0.429	0.000	0.000	0.000	0.000	0.000	0
149	☐	CDT-503	0.352	0.000	0.000	0.000	0.000	0.000	0
150	☐	CDT-505	0.372	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
151	☐	CDT-507	0.595	0.000	0.000	0.000	0.000	0.000	0
152	☐	CDT-509	0.574	0.000	0.000	0.000	0.000	0.000	0
153	☐	CDT-511	0.643	0.000	0.000	0.000	0.000	0.000	0
154	☐	CDT-513	0.819	0.000	0.000	0.000	0.000	0.000	0
155	☐	CDT-515	0.825	0.000	0.000	0.000	0.000	0.000	0
156	☐	CDT-517	0.826	0.000	0.000	0.000	0.000	0.000	0
157	☐	CDT-519	0.827	0.000	0.000	0.000	0.000	0.000	0
158	☐	CDT-521	0.827	0.000	0.000	0.000	0.000	0.000	0
159	☐	CDT-523	0.825	0.000	0.000	0.000	0.000	0.000	0
160	☐	CDT-525	0.829	0.000	0.000	0.000	0.000	0.000	0
161	☐	CDT-527	0.832	0.000	0.000	0.000	0.000	0.000	0
162	☐	CDT-529	0.833	0.000	0.000	0.000	0.000	0.000	0
163	☐	CDT-531	0.864	0.000	0.000	0.000	0.000	0.000	0
164	☐	CDT-533	0.902	0.000	0.000	0.000	0.000	0.000	0
165	☐	CDT-535	0.882	0.000	0.000	0.000	0.000	0.000	0
166	☐	CDT-537	0.884	0.000	0.000	0.000	0.000	0.000	0
167	☐	CDT-539	0.497	0.000	0.000	0.000	0.000	0.000	0
168	☐	CDT-541	0.548	0.000	0.000	0.000	0.000	0.000	0
169	☐	CDT-543	0.525	0.000	0.000	0.000	0.000	0.000	0
170	☐	CDT-545	0.501	0.000	0.000	0.000	0.000	0.000	0
171	☐	CDT-547	0.795	0.000	0.000	0.000	0.000	0.000	0
172	☐	CDT-549	0.758	0.000	0.000	0.000	0.000	0.000	0
173	☐	CDT-551	0.778	0.000	0.000	0.000	0.000	0.000	0
174	☐	CDT-553	0.780	0.000	0.000	0.000	0.000	0.000	0
175	☐	CDT-555	0.786	0.000	0.000	0.000	0.000	0.000	0
176	☐	CDT-557	0.784	0.000	0.000	0.000	0.000	0.000	0
177	☐	CDT-559	0.797	0.000	0.000	0.000	0.000	0.000	0
178	☐	CDT-561	0.249	0.000	0.000	0.000	0.000	0.000	0
179	☐	CDT-563	0.228	0.000	0.000	0.000	0.000	0.000	0
180	☐	CDT-565	0.231	0.000	0.000	0.000	0.000	0.000	0
181	☐	CDT-567	0.227	0.000	0.000	0.000	0.000	0.000	0
182	☐	CDT-569	0.264	0.000	0.000	0.000	0.000	0.000	0
183	☐	CDT-571	0.239	0.000	0.000	0.000	0.000	0.000	0
184	☐	CDT-573	1.000	0.000	0.000	0.000	0.000	0.000	0
185	☐	CDT-575	1.000	0.000	0.000	0.000	0.000	0.000	0
186	☐	CDT-579	0.997	0.000	0.000	0.000	0.000	0.000	0
187	☐	CDT-581	1.000	0.000	0.000	0.000	0.000	0.000	0
188	☐	CDT-583	1.000	0.000	0.000	0.000	0.000	0.000	0
189	☐	CDT-589	1.000	0.000	0.000	0.000	0.000	0.000	0
190	☐	CDT-591	1.000	0.000	0.000	0.000	0.000	0.000	0
191	☐	CDT-595	0.832	0.000	0.000	0.000	0.000	0.000	0
192	☐	CDT-597	0.833	0.000	0.000	0.000	0.000	0.000	0
193	☐	CDT-603	1.000	0.000	0.000	0.000	0.000	0.000	0
194	☐	CDT-605	0.869	0.000	0.000	0.000	0.000	0.000	0
195	☐	CDT-607	0.500	0.000	0.000	0.000	0.000	0.000	0
196	☐	CDT-609	0.746	0.000	0.000	0.000	0.000	0.000	0
197	☐	CDT-611	0.744	0.000	0.000	0.000	0.000	0.000	0
198	☐	CDT-613	0.724	0.000	0.000	0.000	0.000	0.000	0
199	☐	CDT-615	0.751	0.000	0.000	0.000	0.000	0.000	0
200	☐	CDT-617	0.579	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
201	☐	CDT-619	0.469	0.000	0.000	0.000	0.000	0.000	0
202	☐	CDT-621	0.457	0.000	0.000	0.000	0.000	0.000	0
203	☐	CDT-623	0.550	0.000	0.000	0.000	0.000	0.000	0
204	☐	CDT-625	0.472	0.000	0.000	0.000	0.000	0.000	0
205	☐	CDT-627	0.458	0.000	0.000	0.000	0.000	0.000	0
206	☐	CDT-629	0.466	0.000	0.000	0.000	0.000	0.000	0
207	☐	CDT-631	0.480	0.000	0.000	0.000	0.000	0.000	0
208	☐	CDT-633	0.488	0.000	0.000	0.000	0.000	0.000	0
209	☐	CDT-635	0.533	0.000	0.000	0.000	0.000	0.000	0
210	☐	CDT-637	0.490	0.000	0.000	0.000	0.000	0.000	0
211	☐	CDT-639	0.555	0.000	0.000	0.000	0.000	0.000	0
212	☐	CDT-641	0.554	0.000	0.000	0.000	0.000	0.000	0
213	☐	CDT-643	0.542	0.000	0.000	0.000	0.000	0.000	0
214	☐	CDT-645	0.571	0.000	0.000	0.000	0.000	0.000	0
215	☐	CDT-647	0.577	0.000	0.000	0.000	0.000	0.000	0
216	☐	CDT-649	0.574	0.000	0.000	0.000	0.000	0.000	0
217	☐	CDT-651	0.581	0.000	0.000	0.000	0.000	0.000	0
218	☐	CDT-653	0.599	0.000	0.000	0.000	0.000	0.000	0
219	☐	CDT-655	0.592	0.000	0.000	0.000	0.000	0.000	0
220	☐	CDT-657	0.565	0.000	0.000	0.000	0.000	0.000	0
221	☐	CDT-659	0.664	0.000	0.000	0.000	0.000	0.000	0
222	☐	CDT-661	0.608	0.000	0.000	0.000	0.000	0.000	0
223	☐	CDT-663	0.612	0.000	0.000	0.000	0.000	0.000	0
224	☐	CDT-665	0.784	0.000	0.000	0.000	0.000	0.000	0
225	☐	CDT-667	0.780	0.000	0.000	0.000	0.000	0.000	0
226	☐	CDT-671	0.992	0.000	0.000	0.000	0.000	0.000	0
227	☐	CDT-673	0.995	0.000	0.000	0.000	0.000	0.000	0
228	☐	CDT-675	1.000	0.000	0.000	0.000	0.000	0.000	0
229	☐	CDT-677	0.667	0.000	0.000	0.000	0.000	0.000	0
230	☐	CDT-679	0.648	0.000	0.000	0.000	0.000	0.000	0
231	☐	CDT-681	0.641	0.000	0.000	0.000	0.000	0.000	0
232	☐	CDT-683	0.791	0.000	0.000	0.000	0.000	0.000	0
233	☐	CDT-685	0.796	0.000	0.000	0.000	0.000	0.000	0
234	☐	CDT-687	0.817	0.000	0.000	0.000	0.000	0.000	0
235	☐	CDT-689	0.819	0.000	0.000	0.000	0.000	0.000	0
236	☐	CDT-691	0.816	0.000	0.000	0.000	0.000	0.000	0
237	☐	CDT-693	0.804	0.000	0.000	0.000	0.000	0.000	0
238	☐	CDT-695	0.806	0.000	0.000	0.000	0.000	0.000	0
239	☐	CDT-697	0.805	0.000	0.000	0.000	0.000	0.000	0
240	☐	CDT-699	0.802	0.000	0.000	0.000	0.000	0.000	0
241	☐	CDT-701	0.488	0.000	0.000	0.000	0.000	0.000	0
242	☐	CDT-703	0.505	0.000	0.000	0.000	0.000	0.000	0
243	☐	CDT-705	0.494	0.000	0.000	0.000	0.000	0.000	0
244	☐	CDT-707	0.641	0.000	0.000	0.000	0.000	0.000	0
245	☐	CDT-709	0.548	0.000	0.000	0.000	0.000	0.000	0
246	☐	CDT-711	0.605	0.000	0.000	0.000	0.000	0.000	0
247	☐	CDT-713	0.646	0.000	0.000	0.000	0.000	0.000	0
248	☐	CDT-715	0.649	0.000	0.000	0.000	0.000	0.000	0
249	☐	CDT-717	0.633	0.000	0.000	0.000	0.000	0.000	0
250	☐	CDT-719	0.644	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
251	☐	CDT-721	0.801	0.000	0.000	0.000	0.000	0.000	0
252	☐	CDT-723	0.804	0.000	0.000	0.000	0.000	0.000	0
253	☐	CDT-725	0.802	0.000	0.000	0.000	0.000	0.000	0
254	☐	CDT-727	0.538	0.000	0.000	0.000	0.000	0.000	0
255	☐	CDT-729	0.550	0.000	0.000	0.000	0.000	0.000	0
256	☐	CDT-731	0.579	0.000	0.000	0.000	0.000	0.000	0
257	☐	CDT-733	0.594	0.000	0.000	0.000	0.000	0.000	0
258	☐	CDT-735	0.461	0.000	0.000	0.000	0.000	0.000	0
259	☐	CDT-737	0.493	0.000	0.000	0.000	0.000	0.000	0
260	☐	CDT-739	0.516	0.000	0.000	0.000	0.000	0.000	0
261	☐	CDT-741	0.508	0.000	0.000	0.000	0.000	0.000	0
262	☐	CDT-743	0.595	0.000	0.000	0.000	0.000	0.000	0
263	☐	CDT-745	0.593	0.000	0.000	0.000	0.000	0.000	0
264	☐	CDT-747	0.553	0.000	0.000	0.000	0.000	0.000	0
265	☐	CDT-749	0.549	0.000	0.000	0.000	0.000	0.000	0
266	☐	CDT-751	0.377	0.000	0.000	0.000	0.000	0.000	0
267	☐	CDT-753	0.539	0.000	0.000	0.000	0.000	0.000	0
268	☐	CDT-755	0.548	0.000	0.000	0.000	0.000	0.000	0
269	☐	CDT-757	0.578	0.000	0.000	0.000	0.000	0.000	0
270	☐	CDT-759	0.579	0.000	0.000	0.000	0.000	0.000	0
271	☐	CDT-761	0.566	0.000	0.000	0.000	0.000	0.000	0
272	☐	CDT-763	0.573	0.000	0.000	0.000	0.000	0.000	0
273	☐	CDT-765	0.537	0.000	0.000	0.000	0.000	0.000	0
274	☐	CDT-767	0.484	0.000	0.000	0.000	0.000	0.000	0
275	☐	CDT-769	0.988	0.000	0.000	0.000	0.000	0.000	0
276	☐	CDT-771	0.976	0.000	0.000	0.000	0.000	0.000	0
277	☐	CDT-773	0.978	0.000	0.000	0.000	0.000	0.000	0
278	☐	CDT-775	0.978	0.000	0.000	0.000	0.000	0.000	0
279	☐	CDT-777	0.965	0.000	0.000	0.000	0.000	0.000	0
280	☐	CDT-779	0.960	0.000	0.000	0.000	0.000	0.000	0
281	☐	CDT-781	0.459	0.000	0.000	0.000	0.000	0.000	0
282	☐	CDT-783	0.462	0.000	0.000	0.000	0.000	0.000	0
283	☐	CDT-785	0.449	0.000	0.000	0.000	0.000	0.000	0
284	☐	CDT-787	0.439	0.000	0.000	0.000	0.000	0.000	0
285	☐	CDT-789	0.432	0.000	0.000	0.000	0.000	0.000	0
286	☐	CDT-791	0.432	0.000	0.000	0.000	0.000	0.000	0
287	☐	CDT-793	0.403	0.000	0.000	0.000	0.000	0.000	0
288	☐	CDT-795	0.330	0.000	0.000	0.000	0.000	0.000	0
289	☐	CDT-797	0.313	0.000	0.000	0.000	0.000	0.000	0
290	☐	CDT-799	0.388	0.000	0.000	0.000	0.000	0.000	0
291	☐	CDT-801	0.238	0.000	0.000	0.000	0.000	0.000	0
292	☐	CDT-803	0.197	0.000	0.000	0.000	0.000	0.000	0
293	☐	CDT-805	0.794	0.000	0.000	0.000	0.000	0.000	0
294	☐	CDT-807	0.799	0.000	0.000	0.000	0.000	0.000	0
295	☐	CDT-809	0.804	0.000	0.000	0.000	0.000	0.000	0
296	☐	CDT-811	0.763	0.000	0.000	0.000	0.000	0.000	0
297	☐	CDT-813	0.613	0.000	0.000	0.000	0.000	0.000	0
298	☐	CDT-815	0.642	0.000	0.000	0.000	0.000	0.000	0
299	☐	CDT-817	0.655	0.000	0.000	0.000	0.000	0.000	0
300	☐	CDT-819	0.651	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
301	☐	CDT-821	0.646	0.000	0.000	0.000	0.000	0.000	0
302	☐	CDT-823	0.383	0.000	0.000	0.000	0.000	0.000	0
303	☐	CDT-825	0.517	0.000	0.000	0.000	0.000	0.000	0
304	☐	CDT-827	0.611	0.000	0.000	0.000	0.000	0.000	0
305	☐	CDT-829	0.596	0.000	0.000	0.000	0.000	0.000	0
306	☐	CDT-831	0.525	0.000	0.000	0.000	0.000	0.000	0
307	☐	CDT-833	0.483	0.000	0.000	0.000	0.000	0.000	0
308	☐	CDT-835	0.459	0.000	0.000	0.000	0.000	0.000	0
309	☐	CDT-837	1.000	0.000	0.000	0.000	0.000	0.000	0
310	☐	CDT-839	0.700	0.000	0.000	0.000	0.000	0.000	0
311	☐	CDT-841	0.686	0.000	0.000	0.000	0.000	0.000	0
312	☐	CDT-843	0.782	0.000	0.000	0.000	0.000	0.000	0
313	☐	CDT-845	0.715	0.000	0.000	0.000	0.000	0.000	0
314	☐	CDT-847	0.776	0.000	0.000	0.000	0.000	0.000	0
315	☐	CDT-849	0.665	0.000	0.000	0.000	0.000	0.000	0
316	☐	CDT-851	0.723	0.000	0.000	0.000	0.000	0.000	0
317	☐	CDT-853	0.650	0.000	0.000	0.000	0.000	0.000	0
318	☐	CDT-855	0.662	0.000	0.000	0.000	0.000	0.000	0
319	☐	CDT-857	0.631	0.000	0.000	0.000	0.000	0.000	0
320	☐	CDT-859	0.683	0.000	0.000	0.000	0.000	0.000	0
321	☐	CDT-861	0.677	0.000	0.000	0.000	0.000	0.000	0
322	☐	CDT-863	0.681	0.000	0.000	0.000	0.000	0.000	0
323	☐	CDT-865	0.477	0.000	0.000	0.000	0.000	0.000	0
324	☐	CDT-867	0.619	0.000	0.000	0.000	0.000	0.000	0
325	☐	CDT-873	0.576	0.000	0.000	0.000	0.000	0.000	0
326	☐	CDT-875	0.564	0.000	0.000	0.000	0.000	0.000	0
327	☐	CDT-877	0.561	0.000	0.000	0.000	0.000	0.000	0
328	☐	CDT-879	0.592	0.000	0.000	0.000	0.000	0.000	0
329	☐	CDT-881	0.605	0.000	0.000	0.000	0.000	0.000	0
330	☐	CDT-883	0.380	0.000	0.000	0.000	0.000	0.000	0
331	☐	CDT-885	0.337	0.000	0.000	0.000	0.000	0.000	0
332	☐	CDT-887	0.614	0.000	0.000	0.000	0.000	0.000	0
333	☐	CDT-893	0.567	0.000	0.000	0.000	0.000	0.000	0
334	☐	CDT-895	0.568	0.000	0.000	0.000	0.000	0.000	0
335	☐	CDT-897	0.579	0.000	0.000	0.000	0.000	0.000	0
336	☐	CDT-899	0.594	0.000	0.000	0.000	0.000	0.000	0
337	☐	CDT-901	0.856	0.000	0.000	0.000	0.000	0.000	0
338	☐	CDT-903	0.907	0.000	0.000	0.000	0.000	0.000	0
339	☐	CDT-905	0.917	0.000	0.000	0.000	0.000	0.000	0
340	☐	CDT-907	0.919	0.000	0.000	0.000	0.000	0.000	0
341	☐	CDT-909	0.936	0.000	0.000	0.000	0.000	0.000	0
342	☐	CDT-911	0.886	0.000	0.000	0.000	0.000	0.000	0
343	☐	CDT-913	0.812	0.000	0.000	0.000	0.000	0.000	0
344	☐	CDT-915	0.422	0.000	0.000	0.000	0.000	0.000	0
345	☐	CDT-917	0.433	0.000	0.000	0.000	0.000	0.000	0
346	☐	CDT-919	0.540	0.000	0.000	0.000	0.000	0.000	0
347	☐	CDT-921	0.535	0.000	0.000	0.000	0.000	0.000	0
348	☐	CDT-923	0.523	0.000	0.000	0.000	0.000	0.000	0
349	☐	CDT-925	0.544	0.000	0.000	0.000	0.000	0.000	0
350	☐	CDT-927	0.569	0.000	0.000	0.000	0.000	0.000	0

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
351	☐	CDT-929	0.439	0.000	0.000	0.000	0.000	0.000	0
352	☐	CDT-931	0.466	0.000	0.000	0.000	0.000	0.000	0
353	☐	CDT-933	0.483	0.000	0.000	0.000	0.000	0.000	0
354	☐	CDT-935	0.493	0.000	0.000	0.000	0.000	0.000	0
355	☐	CDT-937	0.267	0.000	0.000	0.000	0.000	0.000	0
356	☐	CDT-941	0.536	0.000	0.000	0.000	0.000	0.000	0
357	☐	CDT-943	0.548	0.000	0.000	0.000	0.000	0.000	0
358	☐	CDT-945	0.550	0.000	0.000	0.000	0.000	0.000	0
359	☐	CDT-947	0.545	0.000	0.000	0.000	0.000	0.000	0
360	☐	CDT-949	0.551	0.000	0.000	0.000	0.000	0.000	0
361	☐	CDT-951	0.574	0.000	0.000	0.000	0.000	0.000	0
362	☐	CDT-953	0.593	0.000	0.000	0.000	0.000	0.000	0
363	☐	CDT-955	0.636	0.000	0.000	0.000	0.000	0.000	0
364	☐	CDT-957	0.664	0.000	0.000	0.000	0.000	0.000	0
365	☐	CDT-959	0.663	0.000	0.000	0.000	0.000	0.000	0
366	☐	CDT-961	0.673	0.000	0.000	0.000	0.000	0.000	0
367	☐	CDT-963	0.672	0.000	0.000	0.000	0.000	0.000	0
368	☐	CDT-965	0.681	0.000	0.000	0.000	0.000	0.000	0
369	☐	CDT-967	0.679	0.000	0.000	0.000	0.000	0.000	0
370	☐	CDT-969	0.833	0.000	0.000	0.000	0.000	0.000	0
371	☐	CDT-973	0.454	0.000	0.000	0.000	0.000	0.000	0
372	☐	CDT-975	0.478	0.000	0.000	0.000	0.000	0.000	0
373	☐	CDT-977	0.494	0.000	0.000	0.000	0.000	0.000	0
374	☐	CDT-979	0.529	0.000	0.000	0.000	0.000	0.000	0
375	☐	CDT-981	0.542	0.000	0.000	0.000	0.000	0.000	0
376	☐	PATCH1	0.999	0.000	0.000	0.000	0.000	0.000	0

L E G E N D

Ratio of Peak Flow to Pipe Diameter

- Less than 0.1
- 0.11 - 0.25
- 0.26 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.9
- Greater than 0.9
- Ivins City Boundary

Kayenta Parkway
Kwavasa Drive
Old Highway 91
Ivins
200 North
Center Street
400 South
800 South
400 West
400 East
Snow Canyon Drive
Snow Canyon Parkway
Pioneer Parkway

CDT-561, CDT-1532, CDT-1772, CDT-1774, CDT-1778, CDT-1782, CDT-1530, CDT-1528, CDT-497, CDT-835, CDT-763, CDT-883, CDT-465, CDT-827, CDT-819, CDT-865, CDT-747, CDT-731, CDT-715, CDT-709, CDT-917, CDT-809, CDT-1648, CDT-789, CDT-701, CDT-691, CDT-797, CDT-777, CDT-947, CDT-955, CDT-929, CDT-487, CDT-625, CDT-633, CDT-641, CDT-1686, CDT-1698, CDT-1716, CDT-1730, CDT-663, CDT-845, CDT-863, CDT-617, CDT-665, CDT-551, CDT-557, CDT-1510, CDT-1518, CDT-1666, CDT-1674, CDT-1764, CDT-1766, CDT-1500, CDT-905, CDT-911, CDT-673, CDT-1768, CDT-1760, CDT-575, CDT-583, CDT-527, CDT-597, CDT-1642, CDT-1632, CDT-1626, CDT-1618, CDT-1604, CDT-1594

OUR HOME BENEATH THE BIG RED MOUNTAIN — IVINS UTAH	IVINS CITY 2025 SEWER MASTER PLAN	IMPROVED BUILDOUT CONDITIONS HYDRAULIC MODEL RESULTS	NORTH: NORTH	SCALE: 0 1,100 2,200 Feet	FIGURE NO. A-3

S:\Ivins\235-22-01 Sewer, Culinary, and Secondary Master Plan, IFFP, IFA, and Rate Study\4.0 GIS\4.3 Figures\Figure A3 - Improved Buildout Conditions Model Output.mxd aanderson 7/3/2025

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
1	☐	CDT-1500	0.500	2.091	6.564	0.394	Free Surface	0 - 11:00:00 hrs	2.200	2.200	0.188	0.856	1.698	0.139
2	☐	CDT-1502	0.833	2.846	1.438	0.362	Free Surface	0 - 11:00:00 hrs	3.572	6.986	0.127	0.241	2.484	0.128
3	☐	CDT-1504	0.833	5.417	5.208	0.060	Free Surface	0 - 00:00:00 hrs	38.748	38.748	0.011	0.064	5.357	0.013
4	☐	CDT-1506	0.833	5.294	4.974	0.050	Free Surface	0 - 10:42:59 hrs	2.552	4.794	0.009	0.077	5.244	0.018
5	☐	CDT-1508	0.833	3.640	2.352	0.056	Free Surface	0 - 10:48:59 hrs	2.241	2.277	0.015	0.092	3.584	0.020
6	☐	CDT-1510	0.833	3.347	1.988	0.065	Free Surface	0 - 10:55:00 hrs	1.649	1.684	0.019	0.125	3.281	0.023
7	☐	CDT-1512	0.833	2.858	1.450	0.147	Free Surface	0 - 10:59:00 hrs	2.302	2.303	0.051	0.174	2.712	0.052
8	☐	CDT-1514	0.833	3.229	1.850	0.267	Free Surface	0 - 10:56:00 hrs	2.866	2.995	0.083	0.227	2.962	0.094
9	☐	CDT-1516	0.833	3.115	1.723	0.428	Free Surface	0 - 10:56:59 hrs	4.267	9.455	0.137	0.239	2.688	0.150
10	☐	CDT-1518	0.833	4.305	3.289	0.440	Free Surface	0 - 10:56:59 hrs	5.184	5.184	0.102	0.213	3.865	0.155
11	☐	CDT-1520	0.833	5.104	4.624	0.449	Free Surface	0 - 10:57:59 hrs	6.035	6.097	0.088	0.194	4.655	0.158
12	☐	CDT-1522	2.000	53.133	4.700	0.598	Free Surface	0 - 10:57:59 hrs	5.563	5.563	0.011	0.075	52.534	0.210
13	☐	CDT-1524	1.250	7.177	1.052	3.213	Free Surface	0 - 11:00:00 hrs	5.514	5.517	0.448	0.480	3.964	1.141
14	☐	CDT-1526	1.250	7.337	1.099	3.257	Free Surface	0 - 11:00:00 hrs	5.727	7.386	0.444	0.471	4.079	1.157
15	☐	CDT-1528	0.667	1.360	1.079	0.172	Free Surface	0 - 11:00:00 hrs	2.566	2.570	0.127	0.247	1.188	0.061
16	☐	CDT-1530	0.500	1.020	2.815	0.123	Free Surface	0 - 11:00:00 hrs	2.774	24.916	0.121	0.278	0.896	0.044
17	☐	CDT-1532	0.500	0.768	1.598	0.083	Free Surface	0 - 10:26:59 hrs	1.351	1.500	0.108	0.351	0.686	0.029
18	☐	CDT-1534	0.500	1.199	3.894	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.199	0.000
19	☐	CDT-1536	0.500	1.088	3.202	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.088	0.000
20	☐	CDT-1538	0.500	1.432	5.550	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.432	0.000
21	☐	CDT-1540	0.500	1.053	2.998	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.053	0.000
22	☐	CDT-1542	0.500	1.049	2.979	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.049	0.000
23	☐	CDT-1544	0.500	0.566	0.868	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.566	0.000
24	☐	CDT-1546	0.500	0.220	0.131	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.220	0.000
25	☐	CDT-1548	0.500	0.607	0.999	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.607	0.000
26	☐	CDT-1550	0.500	0.609	1.003	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.609	0.000
27	☐	CDT-1552	0.500	1.050	2.983	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.050	0.000
28	☐	CDT-1554	0.500	1.138	3.505	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.138	0.000
29	☐	CDT-1556	0.500	1.366	5.047	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.366	0.000
30	☐	CDT-1558	0.500	1.213	3.982	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.213	0.000
31	☐	CDT-1560	0.500	1.423	5.479	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.423	0.000
32	☐	CDT-1562	0.500	1.287	4.481	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.287	0.000
33	☐	CDT-1564	0.500	1.398	5.293	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.398	0.000
34	☐	CDT-1566	0.500	1.259	4.291	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.259	0.000
35	☐	CDT-1568	0.500	0.979	2.594	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.979	0.000
36	☐	CDT-1570	0.500	0.299	0.242	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.299	0.000
37	☐	CDT-1572	0.500	0.308	0.257	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	0.308	0.000
38	☐	CDT-1574	0.500	0.271	0.198	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.024	0.271	0.000
39	☐	CDT-1576	0.500	0.791	1.693	0.004	Free Surface	0 - 10:19:59 hrs	0.152	0.623	0.005	0.184	0.787	0.001
40	☐	CDT-1578	0.500	1.534	6.367	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.534	0.000
41	☐	CDT-1580	0.500	1.063	3.059	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.063	0.000
42	☐	CDT-1582	0.500	1.390	5.229	0.000	Free Surface	0 - 00:00:00 hrs	0.000	0.000	0.000	0.000	1.390	0.000
43	☐	CDT-1584	1.250	10.802	2.383	3.922	Free Surface	0 - 11:00:00 hrs	5.970	7.736	0.363	0.528	6.880	1.399
44	☐	CDT-1586	1.250	5.945	0.722	3.973	Free Surface	0 - 11:00:00 hrs	5.376	5.376	0.668	0.581	1.973	1.418
45	☐	CDT-1588	1.750	152.191	78.608	6.630	Free Surface	0 - 11:14:00 hrs	29.245	29.245	0.044	0.150	145.561	2.370
46	☐	CDT-1590	1.750	11.036	0.413	6.630	Free Surface	0 - 11:14:00 hrs	6.352	6.352	0.601	0.448	4.406	2.371
47	☐	CDT-1592	1.750	11.312	0.434	6.633	Free Surface	0 - 11:14:00 hrs	4.051	4.052	0.586	0.644	4.679	2.373
48	☐	CDT-1594	1.750	11.075	0.416	6.637	Free Surface	0 - 11:12:59 hrs	4.774	4.774	0.599	0.561	4.438	2.376
49	☐	CDT-1596	1.750	11.411	0.442	6.641	Free Surface	0 - 11:11:59 hrs	4.754	4.755	0.582	0.564	4.771	2.380
50	☐	CDT-1598	1.500	7.095	0.389	6.529	Free Surface	0 - 11:11:00 hrs	4.737	4.737	0.920	0.728	0.566	2.327

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
51	☐	CDT-1600	1.500	11.888	1.091	6.530	Free Surface	0 - 11:10:00 hrs	5.198	5.198	0.549	0.669	5.358	2.328
52	☐	CDT-1602	1.500	11.042	0.941	6.530	Free Surface	0 - 11:10:00 hrs	6.460	6.460	0.591	0.557	4.511	2.329
53	☐	CDT-1604	1.500	7.950	0.488	6.532	Free Surface	0 - 11:08:59 hrs	5.294	5.294	0.822	0.658	1.418	2.331
54	☐	CDT-1606	1.500	10.713	0.886	6.537	Free Surface	0 - 11:07:59 hrs	5.394	5.396	0.610	0.648	4.175	2.334
55	☐	CDT-1608	1.500	13.322	1.371	6.540	Free Surface	0 - 11:07:59 hrs	6.885	6.886	0.491	0.529	6.783	2.336
56	☐	CDT-1610	1.500	11.171	0.964	6.541	Free Surface	0 - 11:07:00 hrs	6.703	6.703	0.586	0.541	4.630	2.337
57	☐	CDT-1612	1.500	8.903	0.612	6.542	Free Surface	0 - 11:07:00 hrs	5.532	5.532	0.735	0.635	2.361	2.339
58	☐	CDT-1614	1.500	8.744	0.590	6.544	Free Surface	0 - 11:06:00 hrs	5.204	5.205	0.748	0.670	2.200	2.341
59	☐	CDT-1616	1.500	11.903	1.094	6.546	Free Surface	0 - 11:04:59 hrs	5.994	5.995	0.550	0.593	5.357	2.343
60	☐	CDT-1618	1.500	11.269	0.981	6.549	Free Surface	0 - 11:04:59 hrs	6.629	6.629	0.581	0.546	4.720	2.345
61	☐	CDT-1620	1.500	15.598	1.879	6.551	Free Surface	0 - 11:03:59 hrs	7.270	7.271	0.420	0.508	9.047	2.347
62	☐	CDT-1622	1.500	13.214	1.348	6.553	Free Surface	0 - 11:03:59 hrs	7.645	7.645	0.496	0.488	6.661	2.348
63	☐	CDT-1624	1.500	13.410	1.389	6.556	Free Surface	0 - 11:03:00 hrs	7.255	7.255	0.489	0.509	6.854	2.350
64	☐	CDT-1626	1.500	12.881	1.281	6.563	Free Surface	0 - 11:02:00 hrs	7.357	7.357	0.509	0.504	6.318	2.353
65	☐	CDT-1628	1.500	12.057	1.123	6.570	Free Surface	0 - 11:02:00 hrs	6.961	6.962	0.545	0.527	5.486	2.356
66	☐	CDT-1630	1.500	15.231	1.792	6.575	Free Surface	0 - 11:00:59 hrs	7.454	7.455	0.432	0.499	8.657	2.358
67	☐	CDT-1632	1.500	15.322	1.813	6.578	Free Surface	0 - 11:00:59 hrs	8.227	8.227	0.429	0.463	8.744	2.360
68	☐	CDT-1634	1.500	14.366	1.594	6.581	Free Surface	0 - 11:00:00 hrs	7.901	7.901	0.458	0.478	7.785	2.361
69	☐	CDT-1636	1.500	15.277	1.802	6.584	Free Surface	0 - 11:00:00 hrs	7.939	7.939	0.431	0.476	8.693	2.362
70	☐	CDT-1638	1.500	19.920	3.064	6.585	Free Surface	0 - 11:00:00 hrs	9.080	15.071	0.331	0.429	13.335	2.363
71	☐	CDT-1640	1.500	16.886	2.202	6.587	Free Surface	0 - 11:00:00 hrs	9.063	9.063	0.390	0.430	10.299	2.364
72	☐	CDT-1642	1.500	14.893	1.713	6.594	Free Surface	0 - 11:00:00 hrs	8.102	14.035	0.443	0.469	8.298	2.365
73	☐	CDT-1644	0.833	1.965	0.686	0.322	Free Surface	0 - 11:00:00 hrs	2.569	2.569	0.164	0.281	1.643	0.115
74	☐	CDT-1646	0.833	1.784	0.565	0.322	Free Surface	0 - 11:00:59 hrs	2.373	2.373	0.180	0.297	1.462	0.115
75	☐	CDT-1648	0.833	1.577	0.442	0.322	Free Surface	0 - 11:02:00 hrs	2.240	2.240	0.204	0.310	1.256	0.115
76	☐	CDT-1650	0.833	1.570	0.438	0.333	Free Surface	0 - 11:00:00 hrs	2.257	2.257	0.212	0.316	1.237	0.119
77	☐	CDT-1652	0.833	1.555	0.429	0.339	Free Surface	0 - 11:00:00 hrs	2.267	2.267	0.218	0.319	1.216	0.121
78	☐	CDT-1654	0.833	1.558	0.431	0.343	Free Surface	0 - 11:00:00 hrs	2.210	2.210	0.220	0.328	1.214	0.123
79	☐	CDT-1656	0.833	1.593	0.451	0.343	Free Surface	0 - 11:02:00 hrs	2.685	2.685	0.215	0.284	1.250	0.123
80	☐	CDT-1658	0.833	2.900	1.493	0.344	Free Surface	0 - 11:03:00 hrs	1.499	1.551	0.119	0.438	2.556	0.123
81	☐	CDT-1660	0.833	2.561	1.164	0.105	Free Surface	0 - 10:00:00 hrs	2.612	4.022	0.041	0.127	2.456	0.038
82	☐	CDT-1662	0.833	4.643	3.826	0.104	Free Surface	0 - 10:07:59 hrs	3.322	16.182	0.022	0.107	4.539	0.037
83	☐	CDT-1664	0.833	2.387	1.011	0.731	Free Surface	0 - 11:00:00 hrs	3.827	6.979	0.306	0.381	1.656	0.252
84	☐	CDT-1666	0.833	2.413	1.033	0.741	Free Surface	0 - 11:00:00 hrs	3.700	3.700	0.307	0.395	1.672	0.255
85	☐	CDT-1670	0.833	2.164	0.831	0.755	Free Surface	0 - 11:00:00 hrs	3.584	3.584	0.349	0.410	1.409	0.260
86	☐	CDT-1672	0.833	2.163	0.830	0.756	Free Surface	0 - 11:00:00 hrs	3.597	3.597	0.350	0.409	1.406	0.261
87	☐	CDT-1674	0.833	2.164	0.831	0.757	Free Surface	0 - 11:00:59 hrs	3.474	3.474	0.350	0.421	1.407	0.261
88	☐	CDT-1676	0.833	1.975	0.692	0.768	Free Surface	0 - 11:00:00 hrs	3.332	3.335	0.389	0.439	1.207	0.265
89	☐	CDT-1678	0.833	1.970	0.689	0.798	Free Surface	0 - 11:00:00 hrs	3.386	4.133	0.405	0.447	1.171	0.276
90	☐	CDT-1680	0.833	1.866	0.618	0.832	Free Surface	0 - 11:00:00 hrs	2.908	2.937	0.446	0.519	1.034	0.288
91	☐	CDT-1682	0.833	1.988	0.702	0.822	Free Surface	0 - 11:00:00 hrs	3.360	3.360	0.414	0.460	1.166	0.284
92	☐	CDT-1684	0.833	1.895	0.637	0.833	Free Surface	0 - 11:00:00 hrs	3.310	3.310	0.439	0.470	1.062	0.288
93	☐	CDT-1686	0.833	1.907	0.646	0.023	Free Surface	0 - 10:10:00 hrs	1.333	3.148	0.012	0.071	1.884	0.008
94	☐	CDT-1688	0.833	3.001	1.598	0.023	Free Surface	0 - 10:19:59 hrs	1.381	1.403	0.008	0.069	2.978	0.008
95	☐	CDT-1690	0.833	1.930	0.661	0.023	Free Surface	0 - 11:00:00 hrs	1.086	1.114	0.012	0.082	1.907	0.008
96	☐	CDT-1692	0.833	2.716	1.309	0.038	Free Surface	0 - 11:00:00 hrs	2.034	2.034	0.014	0.075	2.678	0.014
97	☐	CDT-1694	0.833	4.920	4.296	0.038	Free Surface	0 - 11:00:00 hrs	2.167	2.168	0.008	0.071	4.882	0.014
98	☐	CDT-1696	0.833	2.939	1.533	0.039	Free Surface	0 - 11:00:00 hrs	1.843	1.846	0.013	0.082	2.900	0.014
99	☐	CDT-1698	0.833	3.266	1.894	0.046	Free Surface	0 - 11:00:00 hrs	1.640	1.640	0.014	0.100	3.220	0.017
100	☐	CDT-1700	0.833	1.702	0.514	0.048	Free Surface	0 - 10:34:59 hrs	1.373	1.375	0.028	0.115	1.654	0.017

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		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
101	☐	CDT-1702	0.833	1.727	0.529	0.048	Free Surface	0 - 10:42:59 hrs	1.141	1.173	0.028	0.131	1.678	0.017
102	☐	CDT-1704	0.833	1.655	0.486	0.077	Free Surface	0 - 10:45:59 hrs	1.549	1.549	0.046	0.146	1.579	0.027
103	☐	CDT-1706	0.833	1.709	0.518	0.077	Free Surface	0 - 10:48:00 hrs	1.581	1.581	0.045	0.144	1.632	0.027
104	☐	CDT-1708	0.833	1.760	0.550	0.077	Free Surface	0 - 10:49:59 hrs	1.629	1.629	0.043	0.141	1.683	0.027
105	☐	CDT-1710	0.833	1.860	0.614	0.077	Free Surface	0 - 10:52:00 hrs	1.627	1.627	0.042	0.142	1.783	0.027
106	☐	CDT-1712	0.833	1.742	0.539	0.079	Free Surface	0 - 10:53:59 hrs	1.582	1.582	0.045	0.147	1.664	0.028
107	☐	CDT-1714	0.833	1.754	0.546	0.083	Free Surface	0 - 10:52:59 hrs	1.642	1.643	0.047	0.148	1.671	0.029
108	☐	CDT-1716	0.833	1.801	0.575	0.086	Free Surface	0 - 11:00:00 hrs	1.535	1.536	0.048	0.159	1.715	0.030
109	☐	CDT-1718	0.833	1.629	0.471	0.086	Free Surface	0 - 11:00:00 hrs	1.948	1.948	0.053	0.135	1.543	0.030
110	☐	CDT-1720	0.833	4.085	2.963	0.086	Free Surface	0 - 11:00:00 hrs	2.796	2.796	0.021	0.105	4.000	0.030
111	☐	CDT-1722	0.833	3.593	2.292	0.086	Free Surface	0 - 11:00:00 hrs	2.931	2.931	0.024	0.102	3.508	0.030
112	☐	CDT-1724	0.833	4.814	4.114	0.086	Free Surface	0 - 11:00:00 hrs	3.444	3.444	0.018	0.091	4.729	0.030
113	☐	CDT-1726	0.833	5.273	4.934	0.086	Free Surface	0 - 11:00:59 hrs	3.507	3.507	0.016	0.090	5.187	0.030
114	☐	CDT-1728	0.833	4.939	4.330	0.086	Free Surface	0 - 11:00:59 hrs	3.249	3.249	0.017	0.095	4.853	0.030
115	☐	CDT-1730	0.833	4.242	3.194	0.086	Free Surface	0 - 11:02:00 hrs	3.052	3.052	0.020	0.099	4.156	0.030
116	☐	CDT-1732	0.833	4.142	3.045	0.086	Free Surface	0 - 11:00:00 hrs	2.933	2.949	0.021	0.102	4.055	0.030
117	☐	CDT-1734	0.833	4.027	2.878	0.093	Free Surface	0 - 11:00:00 hrs	2.884	2.896	0.023	0.109	3.933	0.033
118	☐	CDT-1736	1.000	3.283	0.723	1.542	Free Surface	0 - 11:00:00 hrs	3.941	3.941	0.470	0.499	1.741	0.549
119	☐	CDT-1738	1.000	3.284	0.724	1.542	Free Surface	0 - 11:00:00 hrs	4.048	4.048	0.469	0.488	1.742	0.549
120	☐	CDT-1740	1.000	3.280	0.722	1.541	Free Surface	0 - 11:00:00 hrs	4.068	4.068	0.470	0.486	1.739	0.548
121	☐	CDT-1742	1.000	3.282	0.723	1.541	Free Surface	0 - 11:00:59 hrs	4.004	4.004	0.469	0.492	1.741	0.548
122	☐	CDT-1744	1.000	3.281	0.723	1.541	Free Surface	0 - 11:00:59 hrs	4.175	4.175	0.470	0.476	1.740	0.547
123	☐	CDT-1746	1.000	3.693	0.915	1.540	Free Surface	0 - 11:02:00 hrs	4.362	4.363	0.417	0.460	2.153	0.547
124	☐	CDT-1748	1.250	7.341	1.101	4.026	Free Surface	0 - 11:03:00 hrs	6.046	6.046	0.548	0.534	3.316	1.442
125	☐	CDT-1750	1.250	8.118	1.346	4.184	Free Surface	0 - 11:00:00 hrs	6.354	6.355	0.515	0.529	3.935	1.503
126	☐	CDT-1752	1.250	8.118	1.346	4.182	Free Surface	0 - 11:00:00 hrs	6.408	6.408	0.515	0.525	3.936	1.502
127	☐	CDT-1754	1.250	8.119	1.346	4.181	Free Surface	0 - 11:00:00 hrs	6.418	6.676	0.515	0.524	3.938	1.502
128	☐	CDT-1756	1.250	8.119	1.346	4.179	Free Surface	0 - 11:00:00 hrs	6.489	6.490	0.515	0.519	3.939	1.501
129	☐	CDT-1758	1.250	8.117	1.345	4.178	Free Surface	0 - 11:00:59 hrs	6.490	6.490	0.515	0.519	3.939	1.500
130	☐	CDT-1760	0.833	3.377	2.376	0.123	Free Surface	0 - 11:00:00 hrs	5.617	24.121	0.036	0.084	3.255	0.046
131	☐	CDT-1764	1.000	9.053	6.457	0.174	Free Surface	0 - 00:00:00 hrs	49.279	49.279	0.019	0.088	8.879	0.046
132	☐	CDT-1766	1.000	6.573	3.403	0.123	Free Surface	0 - 11:00:00 hrs	1.934	2.024	0.019	0.135	6.450	0.046
133	☐	CDT-1768	0.500	0.876	1.130	0.123	Free Surface	0 - 11:00:00 hrs	0.686	0.686	0.140	0.856	0.753	0.044
134	☐	CDT-1772	0.667	1.921	2.526	0.390	Free Surface	0 - 10:30:00 hrs	4.348	24.083	0.203	0.304	1.530	0.137
135	☐	CDT-1774	0.667	2.429	4.041	0.480	Free Surface	0 - 10:44:00 hrs	2.837	30.179	0.198	0.489	1.949	0.168
136	☐	CDT-1776	0.667	0.810	0.450	0.570	Free Surface	0 - 11:00:00 hrs	2.748	3.390	0.704	0.574	0.240	0.199
137	☐	CDT-1778	0.667	1.466	1.471	0.660	Free Surface	0 - 11:00:00 hrs	4.108	9.938	0.450	0.469	0.806	0.231
138	☐	CDT-1780	0.667	2.533	4.395	0.660	Free Surface	0 - 11:00:00 hrs	10.669	10.669	0.260	0.233	1.874	0.230
139	☐	CDT-1782	0.500	1.060	1.864	0.660	Free Surface	0 - 11:00:00 hrs	3.836	3.838	0.622	0.818	0.400	0.228
140	☐	CDT-1784	0.667	1.147	0.901	0.300	Free Surface	0 - 10:26:59 hrs	2.948	8.810	0.262	0.333	0.847	0.105
141	☐	CDT-1786	1.250	10.161	2.108	4.015	Free Surface	0 - 11:00:00 hrs	7.066	9.341	0.395	0.471	6.146	1.438
142	☐	CDT-1788	1.250	10.140	2.100	3.969	Free Surface	0 - 11:00:59 hrs	7.732	7.732	0.391	0.436	6.171	1.416
143	☐	CDT-465	0.667	1.061	0.657	0.350	Free Surface	0 - 11:00:00 hrs	2.652	2.652	0.330	0.403	0.711	0.122
144	☐	CDT-467	0.667	1.029	0.618	0.355	Free Surface	0 - 11:00:00 hrs	2.719	2.719	0.345	0.400	0.674	0.124
145	☐	CDT-469	0.667	1.110	0.719	0.155	Free Surface	0 - 11:00:00 hrs	2.574	2.574	0.139	0.229	0.956	0.056
146	☐	CDT-471	0.667	0.751	0.329	0.168	Free Surface	0 - 11:00:00 hrs	1.459	1.459	0.223	0.364	0.583	0.060
147	☐	CDT-473	0.667	2.020	2.382	0.156	Free Surface	0 - 11:00:00 hrs	1.343	1.349	0.077	0.368	1.864	0.056
148	☐	CDT-475	0.667	2.268	3.002	0.141	Free Surface	0 - 10:59:00 hrs	2.492	2.493	0.062	0.219	2.127	0.051
149	☐	CDT-477	0.667	1.706	1.699	0.133	Free Surface	0 - 10:59:00 hrs	3.079	8.217	0.078	0.182	1.573	0.048
150	☐	CDT-479	0.667	2.304	3.097	0.305	Free Surface	0 - 11:00:00 hrs	4.283	4.285	0.132	0.257	1.999	0.110

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		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
151	☐	CDT-481	0.667	2.266	2.997	0.159	Free Surface	0 - 10:59:00 hrs	3.653	3.653	0.070	0.182	2.108	0.057
152	☐	CDT-483	0.667	2.495	3.633	0.156	Free Surface	0 - 10:59:00 hrs	3.827	3.827	0.063	0.174	2.339	0.056
153	☐	CDT-485	0.667	2.018	2.376	0.155	Free Surface	0 - 11:00:00 hrs	3.560	3.560	0.077	0.182	1.863	0.056
154	☐	CDT-487	0.667	1.319	1.015	0.146	Free Surface	0 - 11:00:00 hrs	2.678	5.117	0.111	0.214	1.173	0.053
155	☐	CDT-489	0.667	1.021	0.608	0.166	Free Surface	0 - 11:00:00 hrs	2.509	2.509	0.163	0.245	0.854	0.059
156	☐	CDT-491	0.667	2.056	2.467	0.170	Free Surface	0 - 11:00:00 hrs	3.313	3.313	0.083	0.204	1.887	0.061
157	☐	CDT-493	0.833	2.314	0.950	0.476	Free Surface	0 - 11:00:00 hrs	3.077	3.077	0.206	0.326	1.838	0.174
158	☐	CDT-495	0.667	1.012	0.597	0.116	Free Surface	0 - 10:57:59 hrs	2.095	3.605	0.115	0.216	0.896	0.042
159	☐	CDT-497	0.667	2.446	3.492	0.079	Free Surface	0 - 10:33:59 hrs	1.851	1.859	0.032	0.180	2.367	0.029
160	☐	CDT-499	0.667	1.761	1.809	0.068	Free Surface	0 - 10:37:59 hrs	1.815	1.890	0.039	0.164	1.693	0.025
161	☐	CDT-501	0.667	0.992	0.574	0.070	Free Surface	0 - 10:30:00 hrs	1.974	1.974	0.071	0.159	0.921	0.025
162	☐	CDT-503	0.667	2.429	3.443	0.053	Free Surface	0 - 00:00:00 hrs	26.776	26.776	0.022	0.095	2.376	0.015
163	☐	CDT-505	0.667	3.091	5.574	0.064	Free Surface	0 - 10:33:59 hrs	2.790	26.908	0.021	0.117	3.027	0.023
164	☐	CDT-507	0.667	1.231	0.884	0.344	Free Surface	0 - 11:00:00 hrs	3.414	3.414	0.280	0.331	0.886	0.124
165	☐	CDT-509	0.667	1.967	2.257	0.336	Free Surface	0 - 11:00:00 hrs	3.926	3.929	0.171	0.294	1.631	0.121
166	☐	CDT-511	0.667	1.760	1.807	0.345	Free Surface	0 - 11:00:00 hrs	2.950	2.958	0.196	0.369	1.415	0.124
167	☐	CDT-513	1.250	9.353	1.786	1.117	Free Surface	0 - 11:00:00 hrs	4.265	4.265	0.119	0.266	8.236	0.401
168	☐	CDT-515	0.833	2.702	1.296	1.117	Free Surface	0 - 11:00:00 hrs	4.628	4.628	0.413	0.455	1.586	0.401
169	☐	CDT-517	0.833	2.613	1.212	1.116	Free Surface	0 - 11:00:59 hrs	4.579	4.579	0.427	0.458	1.496	0.400
170	☐	CDT-519	0.833	2.635	1.233	1.116	Free Surface	0 - 11:02:00 hrs	4.540	4.540	0.424	0.461	1.519	0.400
171	☐	CDT-521	0.833	2.578	1.179	1.116	Free Surface	0 - 11:02:00 hrs	4.523	4.523	0.433	0.463	1.462	0.400
172	☐	CDT-523	0.833	2.674	1.269	1.116	Free Surface	0 - 11:03:00 hrs	4.664	4.665	0.417	0.452	1.558	0.399
173	☐	CDT-525	0.833	2.726	1.319	1.116	Free Surface	0 - 11:03:00 hrs	4.440	4.440	0.409	0.474	1.610	0.399
174	☐	CDT-527	0.833	2.587	1.188	1.291	Free Surface	0 - 11:00:00 hrs	4.719	7.724	0.499	0.501	1.296	0.462
175	☐	CDT-529	0.833	2.591	1.192	1.291	Free Surface	0 - 11:00:00 hrs	4.513	4.532	0.498	0.520	1.301	0.461
176	☐	CDT-531	1.000	2.770	0.515	0.650	Free Surface	0 - 11:00:00 hrs	3.381	3.381	0.235	0.293	2.120	0.231
177	☐	CDT-533	1.000	3.010	0.608	0.635	Free Surface	0 - 11:00:00 hrs	2.749	2.751	0.211	0.335	2.375	0.226
178	☐	CDT-535	1.000	3.015	0.610	0.634	Free Surface	0 - 11:00:00 hrs	3.021	3.021	0.210	0.313	2.381	0.226
179	☐	CDT-537	1.000	2.803	0.527	0.624	Free Surface	0 - 11:00:00 hrs	2.890	2.890	0.223	0.319	2.179	0.222
180	☐	CDT-539	0.667	0.965	0.543	0.098	Free Surface	0 - 10:51:00 hrs	1.721	2.831	0.102	0.221	0.866	0.036
181	☐	CDT-541	0.667	1.160	0.785	0.186	Free Surface	0 - 11:00:00 hrs	2.144	2.144	0.161	0.297	0.973	0.067
182	☐	CDT-543	0.667	0.977	0.557	0.189	Free Surface	0 - 11:00:00 hrs	2.585	2.586	0.193	0.262	0.788	0.068
183	☐	CDT-545	0.667	2.041	2.430	0.175	Free Surface	0 - 11:00:00 hrs	2.807	2.808	0.086	0.234	1.866	0.063
184	☐	CDT-547	0.833	2.331	0.964	0.609	Free Surface	0 - 11:00:00 hrs	4.078	11.054	0.261	0.318	1.722	0.220
185	☐	CDT-549	0.833	4.992	4.424	0.744	Free Surface	0 - 11:00:00 hrs	5.719	9.776	0.149	0.288	4.249	0.267
186	☐	CDT-551	0.833	3.474	2.142	0.744	Free Surface	0 - 11:00:00 hrs	5.027	8.066	0.214	0.316	2.730	0.267
187	☐	CDT-553	0.833	3.436	2.095	0.746	Free Surface	0 - 11:00:00 hrs	4.969	4.969	0.217	0.319	2.690	0.268
188	☐	CDT-555	0.833	3.325	1.962	0.745	Free Surface	0 - 11:00:00 hrs	4.729	4.730	0.224	0.331	2.579	0.268
189	☐	CDT-557	0.833	3.192	1.809	0.770	Free Surface	0 - 11:00:00 hrs	4.927	4.927	0.241	0.329	2.422	0.277
190	☐	CDT-559	0.833	3.539	2.223	0.772	Free Surface	0 - 11:00:00 hrs	4.845	4.845	0.218	0.334	2.767	0.277
191	☐	CDT-561	0.500	0.636	1.095	0.083	Free Surface	0 - 10:06:00 hrs	2.672	4.763	0.130	0.215	0.553	0.029
192	☐	CDT-563	0.500	1.359	5.000	0.083	Free Surface	0 - 10:08:59 hrs	3.530	3.531	0.061	0.177	1.276	0.029
193	☐	CDT-565	0.500	1.118	3.382	0.083	Free Surface	0 - 10:11:00 hrs	3.414	3.414	0.074	0.181	1.035	0.029
194	☐	CDT-567	0.500	1.235	4.130	0.083	Free Surface	0 - 10:10:00 hrs	3.573	3.587	0.067	0.176	1.152	0.029
195	☐	CDT-569	0.500	0.816	1.804	0.083	Free Surface	0 - 10:38:59 hrs	2.197	2.266	0.102	0.247	0.733	0.029
196	☐	CDT-571	0.500	1.234	4.120	0.083	Free Surface	0 - 10:12:59 hrs	3.068	3.113	0.067	0.195	1.151	0.029
197	☐	CDT-573	1.250	9.166	1.716	3.971	Free Surface	0 - 11:00:59 hrs	7.315	7.315	0.433	0.455	5.195	1.418
198	☐	CDT-575	1.250	7.815	1.247	3.973	Free Surface	0 - 11:00:00 hrs	6.498	6.498	0.508	0.499	3.842	1.419
199	☐	CDT-579	1.250	8.224	1.381	3.924	Free Surface	0 - 11:00:00 hrs	6.975	9.260	0.477	0.467	4.300	1.400
200	☐	CDT-583	1.250	7.881	1.268	4.012	Free Surface	0 - 11:02:00 hrs	6.214	6.221	0.509	0.521	3.869	1.436

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		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
201	☐	CDT-589	1.250	8.128	1.349	4.176	Free Surface	0 - 11:00:59 hrs	6.646	6.646	0.514	0.509	3.952	1.499
202	☐	CDT-591	1.250	8.421	1.448	4.174	Free Surface	0 - 11:00:59 hrs	6.360	6.360	0.496	0.532	4.247	1.498
203	☐	CDT-595	0.833	2.689	1.284	1.469	Free Surface	0 - 11:00:00 hrs	5.119	9.752	0.546	0.520	1.220	0.524
204	☐	CDT-597	0.833	3.076	1.680	1.542	Free Surface	0 - 11:00:00 hrs	4.939	4.939	0.501	0.557	1.534	0.550
205	☐	CDT-603	1.000	3.422	0.786	1.540	Free Surface	0 - 11:02:00 hrs	3.238	3.238	0.450	0.590	1.882	0.546
206	☐	CDT-605	1.000	3.631	0.885	0.618	Free Surface	0 - 11:00:00 hrs	3.089	4.680	0.170	0.302	3.013	0.220
207	☐	CDT-607	0.667	2.202	2.829	0.222	Free Surface	0 - 11:00:00 hrs	3.797	13.253	0.101	0.224	1.980	0.079
208	☐	CDT-609	0.833	1.921	0.655	0.375	Free Surface	0 - 11:00:00 hrs	2.738	2.749	0.195	0.299	1.546	0.136
209	☐	CDT-611	0.833	1.935	0.664	0.374	Free Surface	0 - 11:00:00 hrs	2.716	2.716	0.194	0.300	1.560	0.136
210	☐	CDT-613	0.833	2.665	1.261	0.368	Free Surface	0 - 11:00:00 hrs	3.023	3.023	0.138	0.275	2.297	0.133
211	☐	CDT-615	0.833	2.443	1.060	0.464	Free Surface	0 - 11:00:00 hrs	3.352	3.352	0.190	0.302	1.979	0.169
212	☐	CDT-617	0.667	1.876	2.053	0.088	Free Surface	0 - 10:51:00 hrs	1.239	2.504	0.047	0.258	1.788	0.033
213	☐	CDT-619	0.667	2.413	3.396	0.084	Free Surface	0 - 10:08:59 hrs	2.917	10.387	0.035	0.138	2.328	0.031
214	☐	CDT-621	0.667	2.341	3.198	0.084	Free Surface	0 - 10:03:00 hrs	3.220	14.052	0.036	0.129	2.257	0.031
215	☐	CDT-623	0.833	3.924	2.733	0.107	Free Surface	0 - 11:00:00 hrs	2.599	2.603	0.027	0.128	3.818	0.037
216	☐	CDT-625	0.667	1.801	1.893	0.172	Free Surface	0 - 11:00:00 hrs	3.443	3.443	0.096	0.201	1.629	0.062
217	☐	CDT-627	0.667	2.317	3.134	0.175	Free Surface	0 - 11:00:00 hrs	3.961	3.961	0.076	0.184	2.142	0.063
218	☐	CDT-629	0.667	2.519	3.704	0.181	Free Surface	0 - 11:00:00 hrs	3.898	3.898	0.072	0.190	2.339	0.064
219	☐	CDT-631	0.667	2.146	2.686	0.187	Free Surface	0 - 11:00:00 hrs	3.687	3.687	0.087	0.203	1.959	0.067
220	☐	CDT-633	0.667	2.071	2.502	0.193	Free Surface	0 - 11:00:00 hrs	3.682	3.682	0.093	0.207	1.878	0.069
221	☐	CDT-635	0.667	1.965	2.252	0.236	Free Surface	0 - 11:00:00 hrs	3.296	3.296	0.120	0.259	1.728	0.084
222	☐	CDT-637	0.667	2.128	2.641	0.203	Free Surface	0 - 11:00:00 hrs	3.769	3.776	0.096	0.212	1.924	0.073
223	☐	CDT-639	0.667	1.492	1.299	0.259	Free Surface	0 - 11:00:00 hrs	3.200	3.200	0.174	0.283	1.233	0.093
224	☐	CDT-641	0.667	1.672	1.631	0.283	Free Surface	0 - 11:00:00 hrs	3.629	9.306	0.169	0.275	1.389	0.102
225	☐	CDT-643	0.667	1.982	2.292	0.298	Free Surface	0 - 11:00:00 hrs	4.207	11.087	0.150	0.257	1.684	0.107
226	☐	CDT-645	0.667	1.956	2.232	0.310	Free Surface	0 - 11:00:00 hrs	3.586	3.586	0.159	0.296	1.646	0.112
227	☐	CDT-647	0.667	1.464	1.250	0.311	Free Surface	0 - 11:00:00 hrs	3.445	3.445	0.212	0.305	1.153	0.112
228	☐	CDT-649	0.667	1.744	1.776	0.314	Free Surface	0 - 11:00:00 hrs	3.582	3.582	0.180	0.299	1.430	0.113
229	☐	CDT-651	0.667	1.557	1.414	0.321	Free Surface	0 - 11:00:00 hrs	3.510	3.510	0.206	0.308	1.236	0.115
230	☐	CDT-653	0.667	1.625	1.540	0.330	Free Surface	0 - 11:00:00 hrs	3.176	3.176	0.203	0.338	1.295	0.119
231	☐	CDT-655	0.667	1.279	0.955	0.335	Free Surface	0 - 11:00:00 hrs	3.405	3.405	0.262	0.325	0.944	0.121
232	☐	CDT-657	0.667	2.345	3.209	0.345	Free Surface	0 - 11:00:00 hrs	4.319	4.319	0.147	0.280	2.000	0.124
233	☐	CDT-659	0.833	5.344	5.069	0.219	Free Surface	0 - 11:00:00 hrs	2.772	5.386	0.041	0.202	5.125	0.079
234	☐	CDT-661	0.833	2.836	1.427	0.191	Free Surface	0 - 11:00:00 hrs	3.336	9.790	0.067	0.162	2.645	0.069
235	☐	CDT-663	0.833	3.028	1.627	0.135	Free Surface	0 - 11:00:00 hrs	2.292	2.293	0.044	0.165	2.893	0.048
236	☐	CDT-665	0.833	2.359	0.988	0.475	Free Surface	0 - 11:00:00 hrs	4.320	4.321	0.201	0.255	1.884	0.173
237	☐	CDT-667	0.833	7.952	11.225	0.475	Free Surface	0 - 11:00:59 hrs	4.074	4.092	0.060	0.271	7.477	0.173
238	☐	CDT-671	1.250	7.580	1.173	3.194	Free Surface	0 - 11:00:00 hrs	5.719	5.719	0.421	0.465	4.386	1.133
239	☐	CDT-673	1.250	7.675	1.203	3.288	Free Surface	0 - 11:00:00 hrs	5.707	5.985	0.428	0.476	4.387	1.169
240	☐	CDT-675	1.250	6.743	0.929	3.311	Free Surface	0 - 11:00:00 hrs	4.471	4.610	0.491	0.582	3.433	1.178
241	☐	CDT-677	1.000	6.365	2.719	1.865	Free Surface	0 - 11:00:00 hrs	5.139	5.139	0.293	0.470	4.500	0.655
242	☐	CDT-679	1.000	6.120	2.515	1.842	Free Surface	0 - 11:00:00 hrs	6.674	6.674	0.301	0.382	4.279	0.647
243	☐	CDT-681	1.000	7.726	4.007	1.832	Free Surface	0 - 11:00:00 hrs	7.131	7.738	0.237	0.362	5.894	0.643
244	☐	CDT-683	0.833	5.152	4.712	1.261	Free Surface	0 - 11:00:00 hrs	5.884	5.887	0.245	0.415	3.891	0.452
245	☐	CDT-685	0.833	2.808	1.400	1.257	Free Surface	0 - 11:00:00 hrs	5.533	5.533	0.448	0.434	1.551	0.450
246	☐	CDT-687	0.833	2.825	1.416	1.252	Free Surface	0 - 11:00:00 hrs	4.603	4.603	0.443	0.499	1.573	0.448
247	☐	CDT-689	0.833	2.322	0.957	1.241	Free Surface	0 - 11:00:00 hrs	4.482	4.483	0.535	0.506	1.080	0.444
248	☐	CDT-691	0.833	2.702	1.296	1.141	Free Surface	0 - 11:00:00 hrs	4.185	6.263	0.422	0.500	1.561	0.408
249	☐	CDT-693	0.833	2.590	1.191	1.130	Free Surface	0 - 11:00:00 hrs	4.581	4.581	0.436	0.462	1.460	0.404
250	☐	CDT-695	0.833	2.558	1.161	1.095	Free Surface	0 - 11:00:00 hrs	4.305	4.305	0.428	0.473	1.463	0.391

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
251	☐	CDT-697	0.833	2.430	1.048	1.108	Free Surface	0 - 11:00:00 hrs	4.439	5.064	0.456	0.467	1.321	0.396
252	☐	CDT-699	0.833	2.760	1.352	1.121	Free Surface	0 - 11:00:00 hrs	4.607	6.537	0.406	0.458	1.639	0.400
253	☐	CDT-701	0.667	0.966	0.545	0.070	Free Surface	0 - 11:00:00 hrs	1.627	1.627	0.072	0.180	0.897	0.025
254	☐	CDT-703	0.667	1.154	0.777	0.078	Free Surface	0 - 11:00:00 hrs	1.753	1.757	0.067	0.185	1.076	0.028
255	☐	CDT-705	0.667	1.099	0.704	0.075	Free Surface	0 - 11:00:00 hrs	1.791	1.791	0.068	0.177	1.024	0.027
256	☐	CDT-707	0.667	1.143	0.762	0.094	Free Surface	0 - 11:00:00 hrs	0.640	3.698	0.082	0.438	1.049	0.034
257	☐	CDT-709	0.667	0.984	0.565	0.147	Free Surface	0 - 10:34:59 hrs	2.056	2.057	0.150	0.259	0.837	0.054
258	☐	CDT-711	0.667	1.079	0.679	0.152	Free Surface	0 - 10:41:59 hrs	1.342	1.384	0.141	0.362	0.927	0.055
259	☐	CDT-713	0.667	1.475	1.270	0.662	Free Surface	0 - 11:00:00 hrs	4.039	4.039	0.449	0.476	0.813	0.238
260	☐	CDT-715	0.667	1.415	1.168	0.665	Free Surface	0 - 11:00:00 hrs	3.851	3.863	0.470	0.496	0.750	0.239
261	☐	CDT-717	0.667	1.512	1.335	0.704	Free Surface	0 - 11:00:00 hrs	4.661	6.562	0.465	0.447	0.809	0.252
262	☐	CDT-719	0.667	2.258	2.974	0.707	Free Surface	0 - 11:00:00 hrs	4.351	4.361	0.313	0.473	1.551	0.253
263	☐	CDT-721	0.833	2.571	1.173	1.066	Free Surface	0 - 11:00:00 hrs	4.338	4.338	0.415	0.461	1.504	0.381
264	☐	CDT-723	0.833	2.395	1.018	1.069	Free Surface	0 - 11:00:00 hrs	4.243	4.245	0.446	0.470	1.327	0.381
265	☐	CDT-725	0.833	2.536	1.142	1.083	Free Surface	0 - 11:00:00 hrs	4.400	5.526	0.427	0.462	1.453	0.387
266	☐	CDT-727	0.667	1.028	0.616	0.127	Free Surface	0 - 10:56:00 hrs	1.903	2.993	0.123	0.245	0.901	0.046
267	☐	CDT-729	0.667	0.975	0.555	0.138	Free Surface	0 - 10:59:00 hrs	1.922	2.682	0.141	0.259	0.837	0.050
268	☐	CDT-731	0.667	1.359	1.078	0.375	Free Surface	0 - 11:00:00 hrs	4.123	4.123	0.276	0.307	0.984	0.135
269	☐	CDT-733	0.667	3.874	8.758	0.381	Free Surface	0 - 11:00:00 hrs	3.627	3.627	0.098	0.341	3.494	0.137
270	☐	CDT-735	0.667	2.344	3.205	0.097	Free Surface	0 - 10:49:59 hrs	2.658	15.500	0.041	0.162	2.246	0.036
271	☐	CDT-737	0.667	1.351	1.064	0.100	Free Surface	0 - 10:52:59 hrs	2.147	2.147	0.074	0.191	1.251	0.037
272	☐	CDT-739	0.667	1.209	0.853	0.104	Free Surface	0 - 10:52:59 hrs	1.854	1.864	0.086	0.218	1.105	0.038
273	☐	CDT-741	0.667	0.965	0.543	0.108	Free Surface	0 - 10:59:00 hrs	1.717	1.727	0.112	0.236	0.857	0.039
274	☐	CDT-743	0.667	0.961	0.538	0.127	Free Surface	0 - 10:59:00 hrs	1.133	2.623	0.132	0.358	0.834	0.046
275	☐	CDT-745	0.667	2.489	3.615	0.364	Free Surface	0 - 11:00:00 hrs	3.621	17.951	0.146	0.330	2.125	0.131
276	☐	CDT-747	0.667	1.542	1.387	0.311	Free Surface	0 - 11:00:00 hrs	4.057	4.057	0.202	0.271	1.231	0.112
277	☐	CDT-749	0.667	3.229	6.083	0.321	Free Surface	0 - 11:00:00 hrs	4.318	4.318	0.099	0.265	2.908	0.115
278	☐	CDT-751	0.667	2.574	3.867	0.032	Free Surface	0 - 10:15:59 hrs	1.854	2.169	0.012	0.096	2.542	0.012
279	☐	CDT-753	0.667	1.693	1.672	0.297	Free Surface	0 - 11:00:00 hrs	4.247	10.016	0.176	0.254	1.396	0.107
280	☐	CDT-755	0.667	3.394	6.722	0.306	Free Surface	0 - 11:00:00 hrs	4.092	4.092	0.090	0.266	3.089	0.110
281	☐	CDT-757	0.667	1.182	0.815	0.249	Free Surface	0 - 10:56:59 hrs	2.556	2.557	0.211	0.323	0.933	0.089
282	☐	CDT-759	0.667	1.122	0.735	0.260	Free Surface	0 - 11:00:00 hrs	2.702	2.704	0.232	0.320	0.862	0.093
283	☐	CDT-761	0.667	1.641	1.570	0.331	Free Surface	0 - 11:00:00 hrs	3.976	3.977	0.202	0.288	1.309	0.119
284	☐	CDT-763	0.667	1.102	0.708	0.239	Free Surface	0 - 10:51:00 hrs	2.539	4.079	0.217	0.315	0.863	0.086
285	☐	CDT-765	0.667	2.149	2.695	0.213	Free Surface	0 - 11:00:00 hrs	2.867	2.869	0.099	0.265	1.936	0.077
286	☐	CDT-767	0.667	2.303	3.095	0.204	Free Surface	0 - 11:00:00 hrs	3.907	14.952	0.088	0.207	2.099	0.073
287	☐	CDT-769	1.250	7.874	1.266	3.185	Free Surface	0 - 11:00:00 hrs	5.860	5.860	0.404	0.455	4.689	1.129
288	☐	CDT-771	1.000	3.380	0.767	1.322	Free Surface	0 - 11:00:00 hrs	3.349	3.350	0.391	0.502	2.058	0.474
289	☐	CDT-773	1.000	2.606	0.456	1.321	Free Surface	0 - 11:00:00 hrs	3.518	3.518	0.507	0.483	1.286	0.474
290	☐	CDT-775	1.000	3.363	0.759	1.314	Free Surface	0 - 11:00:00 hrs	3.501	3.690	0.391	0.483	2.048	0.472
291	☐	CDT-777	1.000	3.062	0.629	1.301	Free Surface	0 - 11:00:00 hrs	3.803	3.803	0.425	0.449	1.761	0.466
292	☐	CDT-779	1.000	3.627	0.883	1.288	Free Surface	0 - 11:00:00 hrs	3.892	4.999	0.355	0.438	2.339	0.461
293	☐	CDT-781	0.667	1.293	0.975	0.060	Free Surface	0 - 11:00:00 hrs	1.589	1.589	0.046	0.165	1.233	0.022
294	☐	CDT-783	0.667	0.769	0.345	0.056	Free Surface	0 - 11:00:00 hrs	1.422	1.422	0.073	0.171	0.713	0.020
295	☐	CDT-785	0.667	1.426	1.186	0.043	Free Surface	0 - 11:00:00 hrs	1.231	1.237	0.030	0.157	1.383	0.016
296	☐	CDT-787	0.667	0.729	0.310	0.038	Free Surface	0 - 11:00:00 hrs	1.232	1.232	0.053	0.145	0.690	0.014
297	☐	CDT-789	0.667	0.989	0.571	0.030	Free Surface	0 - 10:44:00 hrs	0.953	0.961	0.030	0.144	0.960	0.011
298	☐	CDT-791	0.667	0.448	0.117	0.025	Free Surface	0 - 10:37:00 hrs	0.724	0.724	0.056	0.156	0.423	0.009
299	☐	CDT-793	0.667	1.676	1.640	0.023	Free Surface	0 - 11:00:00 hrs	0.786	0.788	0.013	0.137	1.654	0.008
300	☐	CDT-795	0.667	0.873	0.444	0.019	Free Surface	0 - 11:00:00 hrs	1.144	1.144	0.022	0.094	0.853	0.007

Print Report

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
301	☐	CDT-797	0.667	1.000	0.584	0.015	Free Surface	0 - 11:00:00 hrs	0.857	0.875	0.015	0.096	0.986	0.005
302	☐	CDT-799	0.667	1.220	0.869	0.004	Free Surface	0 - 11:00:00 hrs	0.221	0.512	0.004	0.107	1.216	0.002
303	☐	CDT-801	0.667	1.099	0.705	0.001	Free Surface	0 - 10:45:59 hrs	0.276	0.283	0.001	0.033	1.098	0.000
304	☐	CDT-803	0.667	1.075	0.674	0.011	Free Surface	0 - 10:26:00 hrs	0.863	0.916	0.010	0.078	1.064	0.004
305	☐	CDT-805	1.000	2.861	0.549	0.327	Free Surface	0 - 11:00:00 hrs	2.356	2.359	0.114	0.233	2.534	0.116
306	☐	CDT-807	1.000	2.795	0.524	0.346	Free Surface	0 - 11:00:00 hrs	2.381	2.549	0.124	0.240	2.449	0.122
307	☐	CDT-809	1.000	2.719	0.496	0.351	Free Surface	0 - 11:00:00 hrs	2.359	2.359	0.129	0.245	2.368	0.124
308	☐	CDT-811	0.833	1.872	0.622	0.355	Free Surface	0 - 11:00:00 hrs	1.922	1.929	0.190	0.372	1.517	0.126
309	☐	CDT-813	0.667	2.310	3.112	0.548	Free Surface	0 - 11:00:00 hrs	4.579	4.614	0.237	0.375	1.762	0.194
310	☐	CDT-815	0.667	0.869	0.440	0.545	Free Surface	0 - 11:00:00 hrs	3.228	3.228	0.627	0.487	0.324	0.193
311	☐	CDT-817	0.667	1.292	0.973	0.539	Free Surface	0 - 11:00:00 hrs	2.758	2.758	0.417	0.547	0.753	0.190
312	☐	CDT-819	0.667	0.849	0.420	0.528	Free Surface	0 - 11:00:00 hrs	2.805	2.805	0.622	0.531	0.321	0.186
313	☐	CDT-821	0.667	1.425	1.184	0.510	Free Surface	0 - 11:00:00 hrs	2.836	6.737	0.358	0.512	0.914	0.180
314	☐	CDT-823	0.667	1.943	2.204	0.084	Free Surface	0 - 10:26:59 hrs	3.160	10.641	0.043	0.130	1.859	0.030
315	☐	CDT-825	0.667	3.751	8.212	0.096	Free Surface	0 - 10:30:00 hrs	1.454	3.027	0.026	0.250	3.655	0.035
316	☐	CDT-827	0.667	1.475	1.270	0.473	Free Surface	0 - 11:00:00 hrs	3.608	3.608	0.320	0.401	1.003	0.167
317	☐	CDT-829	0.667	1.657	1.603	0.342	Free Surface	0 - 11:00:00 hrs	3.382	3.382	0.206	0.331	1.316	0.123
318	☐	CDT-831	0.667	1.257	0.923	0.165	Free Surface	0 - 11:00:00 hrs	2.164	2.164	0.131	0.270	1.093	0.059
319	☐	CDT-833	0.667	2.137	2.665	0.159	Free Surface	0 - 11:00:00 hrs	2.902	2.905	0.075	0.215	1.978	0.057
320	☐	CDT-835	0.667	2.357	3.241	0.169	Free Surface	0 - 11:00:00 hrs	3.663	3.663	0.072	0.190	2.188	0.061
321	☐	CDT-837	1.250	5.171	0.546	3.687	Free Surface	0 - 11:00:00 hrs	4.861	4.876	0.713	0.593	1.484	1.315
322	☐	CDT-839	0.833	2.523	1.130	0.351	Free Surface	0 - 11:00:00 hrs	3.286	3.287	0.139	0.250	2.172	0.127
323	☐	CDT-841	0.833	3.394	2.044	0.350	Free Surface	0 - 11:00:00 hrs	3.557	3.557	0.103	0.236	3.044	0.127
324	☐	CDT-843	0.833	1.014	0.182	0.339	Free Surface	0 - 11:00:00 hrs	1.955	1.955	0.334	0.355	0.675	0.123
325	☐	CDT-845	0.833	1.840	0.601	0.342	Free Surface	0 - 11:00:00 hrs	2.965	2.966	0.186	0.264	1.498	0.124
326	☐	CDT-847	0.833	1.803	0.577	0.339	Free Surface	0 - 11:00:00 hrs	2.027	2.027	0.188	0.346	1.464	0.123
327	☐	CDT-849	0.833	3.912	2.717	0.282	Free Surface	0 - 11:00:00 hrs	3.189	3.189	0.072	0.219	3.631	0.102
328	☐	CDT-851	0.833	2.309	0.946	0.332	Free Surface	0 - 11:00:00 hrs	2.722	4.731	0.144	0.275	1.977	0.120
329	☐	CDT-853	0.833	3.562	2.252	0.222	Free Surface	0 - 11:00:00 hrs	3.031	3.036	0.062	0.192	3.340	0.081
330	☐	CDT-855	0.833	2.473	1.086	0.231	Free Surface	0 - 11:00:00 hrs	2.975	2.975	0.093	0.200	2.243	0.084
331	☐	CDT-857	0.833	3.199	1.817	0.234	Free Surface	0 - 11:00:00 hrs	3.431	3.454	0.073	0.183	2.965	0.085
332	☐	CDT-859	0.833	1.662	0.491	0.222	Free Surface	0 - 11:00:00 hrs	2.531	2.531	0.134	0.218	1.440	0.081
333	☐	CDT-861	0.833	2.947	1.541	0.364	Free Surface	0 - 11:00:00 hrs	3.898	3.898	0.124	0.228	2.583	0.132
334	☐	CDT-863	0.833	3.791	2.551	0.365	Free Surface	0 - 11:00:00 hrs	3.846	3.846	0.096	0.230	3.425	0.132
335	☐	CDT-865	0.667	0.998	0.581	0.050	Free Surface	0 - 10:33:00 hrs	1.135	3.437	0.050	0.184	0.947	0.019
336	☐	CDT-867	0.667	1.277	0.952	0.344	Free Surface	0 - 11:00:00 hrs	2.839	2.839	0.269	0.379	0.933	0.124
337	☐	CDT-873	0.667	1.393	1.132	0.275	Free Surface	0 - 11:00:00 hrs	2.963	2.963	0.198	0.312	1.118	0.096
338	☐	CDT-875	0.667	1.352	1.067	0.279	Free Surface	0 - 11:00:00 hrs	3.286	3.286	0.207	0.292	1.073	0.098
339	☐	CDT-877	0.667	1.860	2.019	0.282	Free Surface	0 - 11:00:00 hrs	3.159	3.209	0.152	0.303	1.578	0.099
340	☐	CDT-879	0.667	1.346	1.057	0.340	Free Surface	0 - 11:00:00 hrs	2.847	4.019	0.252	0.374	1.006	0.119
341	☐	CDT-881	0.667	0.998	0.581	0.340	Free Surface	0 - 11:00:00 hrs	2.601	2.602	0.341	0.401	0.658	0.119
342	☐	CDT-883	0.667	2.207	2.843	0.073	Free Surface	0 - 10:32:00 hrs	2.521	13.725	0.033	0.137	2.135	0.026
343	☐	CDT-885	0.667	2.091	2.551	0.060	Free Surface	0 - 10:15:59 hrs	2.528	15.989	0.029	0.120	2.031	0.021
344	☐	CDT-887	0.833	3.378	2.026	0.328	Free Surface	0 - 11:00:00 hrs	3.546	13.930	0.097	0.226	3.050	0.116
345	☐	CDT-893	0.667	0.993	0.575	0.524	Free Surface	0 - 11:00:00 hrs	3.030	3.030	0.528	0.496	0.469	0.185
346	☐	CDT-895	0.667	1.223	0.872	0.528	Free Surface	0 - 11:00:00 hrs	2.981	2.982	0.432	0.506	0.695	0.186
347	☐	CDT-897	0.667	0.942	0.518	0.536	Free Surface	0 - 11:00:00 hrs	2.780	2.780	0.569	0.541	0.406	0.189
348	☐	CDT-899	0.667	0.974	0.554	0.536	Free Surface	0 - 11:00:00 hrs	2.351	2.444	0.550	0.621	0.438	0.189
349	☐	CDT-901	1.000	2.981	0.596	1.368	Free Surface	0 - 11:00:00 hrs	3.428	3.428	0.459	0.506	1.613	0.476
350	☐	CDT-903	1.000	3.094	0.643	1.711	Free Surface	0 - 11:00:59 hrs	3.963	3.963	0.553	0.539	1.384	0.599

		ID	Full Depth (ft)	Full Flow (cfs)	Percent Slope (%)	Maximum Flow (cfs)	Maximum Flow Class	Max.Flow Day-Time (day-time)	Velocity at Maximum Flow (ft/s)	Maximum Velocity (ft/s)	Max.Flow/Full Flow	Max.Depth/Full Depth	Reserve Capacity (cfs)	Total Flow Volume (MG)
351	☐	CDT-905	1.000	3.034	0.618	1.710	Free Surface	0 - 11:02:00 hrs	3.902	3.902	0.564	0.546	1.323	0.598
352	☐	CDT-907	1.000	2.969	0.592	1.727	Free Surface	0 - 11:00:00 hrs	3.840	3.847	0.582	0.557	1.242	0.605
353	☐	CDT-909	1.000	2.923	0.573	1.783	Free Surface	0 - 11:00:00 hrs	3.528	3.528	0.610	0.614	1.140	0.625
354	☐	CDT-911	1.000	2.783	0.520	1.780	Free Surface	0 - 11:00:00 hrs	4.547	4.551	0.640	0.499	1.003	0.625
355	☐	CDT-913	1.000	7.764	4.046	1.828	Free Surface	0 - 11:00:00 hrs	7.991	15.042	0.235	0.333	5.935	0.642
356	☐	CDT-915	0.667	2.462	3.538	0.068	Free Surface	0 - 10:29:00 hrs	2.789	19.268	0.028	0.122	2.394	0.025
357	☐	CDT-917	0.667	2.158	2.717	0.079	Free Surface	0 - 10:47:00 hrs	2.797	2.805	0.036	0.135	2.079	0.029
358	☐	CDT-919	0.667	1.674	1.636	0.232	Free Surface	0 - 11:00:00 hrs	3.352	6.087	0.138	0.252	1.443	0.081
359	☐	CDT-921	0.667	1.719	1.723	0.233	Free Surface	0 - 11:00:00 hrs	3.434	6.178	0.135	0.249	1.486	0.081
360	☐	CDT-923	0.667	1.928	2.168	0.248	Free Surface	0 - 11:00:00 hrs	3.881	3.881	0.129	0.239	1.680	0.087
361	☐	CDT-925	0.667	2.132	2.653	0.248	Free Surface	0 - 11:00:00 hrs	3.333	3.339	0.116	0.266	1.884	0.087
362	☐	CDT-927	0.667	1.350	1.064	0.265	Free Surface	0 - 11:00:00 hrs	2.982	5.150	0.196	0.301	1.086	0.092
363	☐	CDT-929	0.667	1.593	1.480	0.068	Free Surface	0 - 10:33:59 hrs	1.969	6.355	0.042	0.155	1.525	0.025
364	☐	CDT-931	0.667	1.228	0.879	0.076	Free Surface	0 - 10:44:00 hrs	1.866	1.892	0.062	0.174	1.152	0.028
365	☐	CDT-933	0.667	1.228	0.879	0.086	Free Surface	0 - 10:51:00 hrs	1.877	1.901	0.070	0.189	1.141	0.032
366	☐	CDT-935	0.667	1.117	0.728	0.097	Free Surface	0 - 10:59:00 hrs	1.746	1.761	0.087	0.216	1.020	0.035
367	☐	CDT-937	0.500	0.529	0.758	0.083	Free Surface	0 - 10:19:59 hrs	2.158	2.170	0.157	0.250	0.446	0.029
368	☐	CDT-941	0.833	3.906	2.708	0.167	Free Surface	0 - 10:15:00 hrs	3.209	3.214	0.043	0.151	3.739	0.061
369	☐	CDT-943	0.833	3.390	2.040	0.192	Free Surface	0 - 10:17:00 hrs	3.339	7.723	0.057	0.162	3.198	0.069
370	☐	CDT-945	0.833	3.396	2.047	0.195	Free Surface	0 - 10:18:00 hrs	3.180	3.193	0.057	0.170	3.201	0.071
371	☐	CDT-947	0.833	3.413	2.068	0.232	Free Surface	0 - 10:18:00 hrs	3.560	11.832	0.068	0.177	3.182	0.083
372	☐	CDT-949	0.833	3.672	2.394	0.251	Free Surface	0 - 10:21:00 hrs	3.729	3.731	0.068	0.181	3.422	0.090
373	☐	CDT-951	0.833	3.696	2.425	0.276	Free Surface	0 - 10:23:59 hrs	3.805	16.609	0.075	0.191	3.420	0.099
374	☐	CDT-953	0.833	3.542	2.226	0.298	Free Surface	0 - 10:26:59 hrs	3.846	10.750	0.084	0.200	3.243	0.107
375	☐	CDT-955	0.833	3.534	2.216	0.321	Free Surface	0 - 10:30:00 hrs	3.350	3.351	0.091	0.232	3.213	0.116
376	☐	CDT-957	0.833	2.422	1.041	0.351	Free Surface	0 - 10:59:00 hrs	3.186	4.067	0.145	0.256	2.071	0.127
377	☐	CDT-959	0.833	2.535	1.141	0.351	Free Surface	0 - 10:56:59 hrs	3.208	3.208	0.138	0.255	2.184	0.127
378	☐	CDT-961	0.833	2.420	1.039	0.351	Free Surface	0 - 10:49:59 hrs	3.065	3.072	0.145	0.263	2.069	0.127
379	☐	CDT-963	0.833	2.430	1.048	0.371	Free Surface	0 - 10:38:59 hrs	3.307	3.307	0.153	0.259	2.058	0.134
380	☐	CDT-965	0.833	2.761	1.353	0.378	Free Surface	0 - 10:41:00 hrs	3.217	3.217	0.137	0.268	2.383	0.137
381	☐	CDT-967	0.833	2.293	0.933	0.381	Free Surface	0 - 10:41:00 hrs	3.269	3.269	0.166	0.266	1.912	0.137
382	☐	CDT-969	0.833	2.877	1.469	0.383	Free Surface	0 - 10:42:59 hrs	1.110	1.877	0.133	0.623	2.494	0.138
383	☐	CDT-973	0.833	4.427	3.479	0.113	Free Surface	0 - 10:18:00 hrs	3.253	5.089	0.026	0.115	4.314	0.041
384	☐	CDT-975	0.833	4.037	2.893	0.123	Free Surface	0 - 10:23:59 hrs	3.119	13.970	0.030	0.125	3.915	0.044
385	☐	CDT-977	0.833	3.651	2.366	0.132	Free Surface	0 - 10:08:59 hrs	3.148	3.155	0.036	0.131	3.519	0.048
386	☐	CDT-979	0.833	3.911	2.715	0.143	Free Surface	0 - 10:11:59 hrs	2.839	2.851	0.037	0.148	3.768	0.052
387	☐	CDT-981	0.833	2.787	1.379	0.156	Free Surface	0 - 10:11:59 hrs	2.939	6.662	0.056	0.153	2.631	0.057

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
1	☐	CDT-1500	0.499	0.000	0.000	23.793	0.000	0.000	0
2	☐	CDT-1502	0.543	0.000	0.000	0.000	0.000	0.000	0
3	☐	CDT-1504	0.406	0.000	0.000	0.000	0.000	0.000	0
4	☐	CDT-1506	0.445	0.000	0.000	0.000	0.000	0.000	0
5	☐	CDT-1508	0.480	0.000	0.000	0.000	0.000	0.000	0
6	☐	CDT-1510	0.551	0.000	0.000	0.000	0.000	0.000	0
7	☐	CDT-1512	0.632	0.000	0.000	0.000	0.000	0.000	0
8	☐	CDT-1514	0.698	0.000	0.000	0.000	0.000	0.000	0
9	☐	CDT-1516	0.711	0.000	0.000	0.000	0.000	0.000	0
10	☐	CDT-1518	0.682	0.000	0.000	0.000	0.000	0.000	0
11	☐	CDT-1520	0.659	0.000	0.000	0.000	0.000	0.000	0
12	☐	CDT-1522	1.052	0.000	0.000	0.000	0.000	0.000	0
13	☐	CDT-1524	1.249	0.000	0.000	0.000	0.000	0.000	0
14	☐	CDT-1526	1.248	0.000	0.000	0.000	0.000	0.000	0
15	☐	CDT-1528	0.575	0.000	0.000	0.000	0.000	0.000	0
16	☐	CDT-1530	0.448	0.000	0.000	0.000	0.000	0.000	0
17	☐	CDT-1532	0.477	0.000	0.000	0.000	0.000	0.000	0
18	☐	CDT-1534	0.427	0.000	0.000	0.000	0.000	0.000	0
19	☐	CDT-1536	0.000	0.000	0.000	0.000	0.000	0.000	0
20	☐	CDT-1538	0.000	0.000	0.000	0.000	0.000	0.000	0
21	☐	CDT-1540	0.000	0.000	0.000	0.000	0.000	0.000	0
22	☐	CDT-1542	0.000	0.000	0.000	0.000	0.000	0.000	0
23	☐	CDT-1544	0.000	0.000	0.000	0.000	0.000	0.000	0
24	☐	CDT-1546	0.000	0.000	0.000	0.000	0.000	0.000	0
25	☐	CDT-1548	0.000	0.000	0.000	0.000	0.000	0.000	0
26	☐	CDT-1550	0.000	0.000	0.000	0.000	0.000	0.000	0
27	☐	CDT-1552	0.000	0.000	0.000	0.000	0.000	0.000	0
28	☐	CDT-1554	0.000	0.000	0.000	0.000	0.000	0.000	0
29	☐	CDT-1556	0.000	0.000	0.000	0.000	0.000	0.000	0
30	☐	CDT-1558	0.000	0.000	0.000	0.000	0.000	0.000	0
31	☐	CDT-1560	0.000	0.000	0.000	0.000	0.000	0.000	0
32	☐	CDT-1562	0.000	0.000	0.000	0.000	0.000	0.000	0
33	☐	CDT-1564	0.000	0.000	0.000	0.000	0.000	0.000	0
34	☐	CDT-1566	0.000	0.000	0.000	0.000	0.000	0.000	0
35	☐	CDT-1568	0.000	0.000	0.000	0.000	0.000	0.000	0
36	☐	CDT-1570	0.000	0.000	0.000	0.000	0.000	0.000	0
37	☐	CDT-1572	0.000	0.000	0.000	0.000	0.000	0.000	0
38	☐	CDT-1574	0.153	0.000	0.000	0.000	0.000	0.000	0
39	☐	CDT-1576	0.388	0.000	0.000	0.000	0.000	0.000	0
40	☐	CDT-1578	0.000	0.000	0.000	0.000	0.000	0.000	0
41	☐	CDT-1580	0.000	0.000	0.000	0.000	0.000	0.000	0
42	☐	CDT-1582	0.000	0.000	0.000	0.000	0.000	0.000	0
43	☐	CDT-1584	1.250	0.000	0.000	0.000	0.000	0.000	0
44	☐	CDT-1586	1.250	0.000	0.000	0.000	0.000	0.000	0
45	☐	CDT-1588	1.249	0.000	0.000	0.000	0.000	0.000	0
46	☐	CDT-1590	1.740	0.000	0.000	0.000	0.000	0.000	0
47	☐	CDT-1592	1.750	0.000	0.000	0.000	0.000	0.000	0
48	☐	CDT-1594	1.750	0.000	0.000	0.000	0.000	0.000	0
49	☐	CDT-1596	1.750	0.000	0.000	0.000	0.000	0.000	0
50	☐	CDT-1598	1.500	0.000	0.000	0.000	0.000	0.000	0

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51	☐	CDT-1600	1.500	0.000	0.000	0.000	0.000	0.000	0
52	☐	CDT-1602	1.500	0.000	0.000	0.000	0.000	0.000	0
53	☐	CDT-1604	1.500	0.000	0.000	0.000	0.000	0.000	0
54	☐	CDT-1606	1.500	0.000	0.000	0.000	0.000	0.000	0
55	☐	CDT-1608	1.500	0.000	0.000	0.000	0.000	0.000	0
56	☐	CDT-1610	1.500	0.000	0.000	0.000	0.000	0.000	0
57	☐	CDT-1612	1.500	0.000	0.000	0.000	0.000	0.000	0
58	☐	CDT-1614	1.500	0.000	0.000	0.000	0.000	0.000	0
59	☐	CDT-1616	1.500	0.000	0.000	0.000	0.000	0.000	0
60	☐	CDT-1618	1.500	0.000	0.000	0.000	0.000	0.000	0
61	☐	CDT-1620	1.500	0.000	0.000	0.000	0.000	0.000	0
62	☐	CDT-1622	1.499	0.000	0.000	0.000	0.000	0.000	0
63	☐	CDT-1624	1.500	0.000	0.000	0.000	0.000	0.000	0
64	☐	CDT-1626	1.500	0.000	0.000	0.000	0.000	0.000	0
65	☐	CDT-1628	1.500	0.000	0.000	0.000	0.000	0.000	0
66	☐	CDT-1630	1.500	0.000	0.000	0.000	0.000	0.000	0
67	☐	CDT-1632	1.496	0.000	0.000	0.000	0.000	0.000	0
68	☐	CDT-1634	1.498	0.000	0.000	0.000	0.000	0.000	0
69	☐	CDT-1636	1.498	0.000	0.000	0.000	0.000	0.000	0
70	☐	CDT-1638	1.485	0.000	0.000	0.000	0.000	0.000	0
71	☐	CDT-1640	1.485	0.000	0.000	0.000	0.000	0.000	0
72	☐	CDT-1642	1.497	0.000	0.000	0.000	0.000	0.000	0
73	☐	CDT-1644	0.749	0.000	0.000	0.000	0.000	0.000	0
74	☐	CDT-1646	0.761	0.000	0.000	0.000	0.000	0.000	0
75	☐	CDT-1648	0.770	0.000	0.000	0.000	0.000	0.000	0
76	☐	CDT-1650	0.775	0.000	0.000	0.000	0.000	0.000	0
77	☐	CDT-1652	0.777	0.000	0.000	0.000	0.000	0.000	0
78	☐	CDT-1654	0.782	0.000	0.000	0.000	0.000	0.000	0
79	☐	CDT-1656	0.752	0.000	0.000	0.000	0.000	0.000	0
80	☐	CDT-1658	0.827	0.000	0.000	0.000	0.000	0.000	0
81	☐	CDT-1660	0.555	0.000	0.000	0.000	0.000	0.000	0
82	☐	CDT-1662	0.514	0.000	0.000	0.000	0.000	0.000	0
83	☐	CDT-1664	0.809	0.000	0.000	0.000	0.000	0.000	0
84	☐	CDT-1666	0.815	0.000	0.000	0.000	0.000	0.000	0
85	☐	CDT-1670	0.820	0.000	0.000	0.000	0.000	0.000	0
86	☐	CDT-1672	0.819	0.000	0.000	0.000	0.000	0.000	0
87	☐	CDT-1674	0.823	0.000	0.000	0.000	0.000	0.000	0
88	☐	CDT-1676	0.827	0.000	0.000	0.000	0.000	0.000	0
89	☐	CDT-1678	0.828	0.000	0.000	0.000	0.000	0.000	0
90	☐	CDT-1680	0.833	0.000	0.000	0.000	0.000	0.000	0
91	☐	CDT-1682	0.831	0.000	0.000	0.000	0.000	0.000	0
92	☐	CDT-1684	0.832	0.000	0.000	0.000	0.000	0.000	0
93	☐	CDT-1686	0.428	0.000	0.000	0.000	0.000	0.000	0
94	☐	CDT-1688	0.422	0.000	0.000	0.000	0.000	0.000	0
95	☐	CDT-1690	0.457	0.000	0.000	0.000	0.000	0.000	0
96	☐	CDT-1692	0.437	0.000	0.000	0.000	0.000	0.000	0
97	☐	CDT-1694	0.428	0.000	0.000	0.000	0.000	0.000	0
98	☐	CDT-1696	0.457	0.000	0.000	0.000	0.000	0.000	0
99	☐	CDT-1698	0.499	0.000	0.000	0.000	0.000	0.000	0
100	☐	CDT-1700	0.532	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
101	☐	CDT-1702	0.562	0.000	0.000	0.000	0.000	0.000	0
102	☐	CDT-1704	0.588	0.000	0.000	0.000	0.000	0.000	0
103	☐	CDT-1706	0.585	0.000	0.000	0.000	0.000	0.000	0
104	☐	CDT-1708	0.580	0.000	0.000	0.000	0.000	0.000	0
105	☐	CDT-1710	0.582	0.000	0.000	0.000	0.000	0.000	0
106	☐	CDT-1712	0.590	0.000	0.000	0.000	0.000	0.000	0
107	☐	CDT-1714	0.592	0.000	0.000	0.000	0.000	0.000	0
108	☐	CDT-1716	0.609	0.000	0.000	0.000	0.000	0.000	0
109	☐	CDT-1718	0.569	0.000	0.000	0.000	0.000	0.000	0
110	☐	CDT-1720	0.511	0.000	0.000	0.000	0.000	0.000	0
111	☐	CDT-1722	0.504	0.000	0.000	0.000	0.000	0.000	0
112	☐	CDT-1724	0.479	0.000	0.000	0.000	0.000	0.000	0
113	☐	CDT-1726	0.476	0.000	0.000	0.000	0.000	0.000	0
114	☐	CDT-1728	0.488	0.000	0.000	0.000	0.000	0.000	0
115	☐	CDT-1730	0.498	0.000	0.000	0.000	0.000	0.000	0
116	☐	CDT-1732	0.505	0.000	0.000	0.000	0.000	0.000	0
117	☐	CDT-1734	0.519	0.000	0.000	0.000	0.000	0.000	0
118	☐	CDT-1736	1.000	0.000	0.000	0.000	0.000	0.000	0
119	☐	CDT-1738	1.000	0.000	0.000	0.000	0.000	0.000	0
120	☐	CDT-1740	0.999	0.000	0.000	0.000	0.000	0.000	0
121	☐	CDT-1742	1.000	0.000	0.000	0.000	0.000	0.000	0
122	☐	CDT-1744	0.999	0.000	0.000	0.000	0.000	0.000	0
123	☐	CDT-1746	0.997	0.000	0.000	0.000	0.000	0.000	0
124	☐	CDT-1748	1.250	0.000	0.000	0.000	0.000	0.000	0
125	☐	CDT-1750	1.250	0.000	0.000	0.000	0.000	0.000	0
126	☐	CDT-1752	1.250	0.000	0.000	0.000	0.000	0.000	0
127	☐	CDT-1754	1.250	0.000	0.000	0.000	0.000	0.000	0
128	☐	CDT-1756	1.250	0.000	0.000	0.000	0.000	0.000	0
129	☐	CDT-1758	1.250	0.000	0.000	0.000	0.000	0.000	0
130	☐	CDT-1760	0.461	0.000	0.000	0.000	0.000	0.000	0
131	☐	CDT-1764	0.566	0.000	0.000	0.000	0.000	0.000	0
132	☐	CDT-1766	0.683	0.000	0.000	0.000	0.000	0.000	0
133	☐	CDT-1768	0.500	0.000	0.000	22.955	0.000	0.000	0
134	☐	CDT-1772	0.613	0.000	0.000	0.000	0.000	0.000	0
135	☐	CDT-1774	0.666	0.000	0.000	0.000	0.000	0.000	0
136	☐	CDT-1776	0.667	0.000	0.000	0.000	0.000	0.000	0
137	☐	CDT-1778	0.665	0.000	0.000	0.000	0.000	0.000	0
138	☐	CDT-1780	0.563	0.000	0.000	0.000	0.000	0.000	0
139	☐	CDT-1782	0.500	0.000	0.000	23.224	0.000	0.000	0
140	☐	CDT-1784	0.628	0.000	0.000	0.000	0.000	0.000	0
141	☐	CDT-1786	1.248	0.000	0.000	0.000	0.000	0.000	0
142	☐	CDT-1788	1.239	0.000	0.000	0.000	0.000	0.000	0
143	☐	CDT-465	0.654	0.000	0.000	0.000	0.000	0.000	0
144	☐	CDT-467	0.653	0.000	0.000	0.000	0.000	0.000	0
145	☐	CDT-469	0.560	0.000	0.000	0.000	0.000	0.000	0
146	☐	CDT-471	0.641	0.000	0.000	0.000	0.000	0.000	0
147	☐	CDT-473	0.643	0.000	0.000	0.000	0.000	0.000	0
148	☐	CDT-475	0.551	0.000	0.000	0.000	0.000	0.000	0
149	☐	CDT-477	0.514	0.000	0.000	0.000	0.000	0.000	0
150	☐	CDT-479	0.583	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
151	☐	CDT-481	0.514	0.000	0.000	0.000	0.000	0.000	0
152	☐	CDT-483	0.506	0.000	0.000	0.000	0.000	0.000	0
153	☐	CDT-485	0.515	0.000	0.000	0.000	0.000	0.000	0
154	☐	CDT-487	0.546	0.000	0.000	0.000	0.000	0.000	0
155	☐	CDT-489	0.573	0.000	0.000	0.000	0.000	0.000	0
156	☐	CDT-491	0.537	0.000	0.000	0.000	0.000	0.000	0
157	☐	CDT-493	0.781	0.000	0.000	0.000	0.000	0.000	0
158	☐	CDT-495	0.548	0.000	0.000	0.000	0.000	0.000	0
159	☐	CDT-497	0.512	0.000	0.000	0.000	0.000	0.000	0
160	☐	CDT-499	0.494	0.000	0.000	0.000	0.000	0.000	0
161	☐	CDT-501	0.487	0.000	0.000	0.000	0.000	0.000	0
162	☐	CDT-503	0.391	0.000	0.000	0.000	0.000	0.000	0
163	☐	CDT-505	0.428	0.000	0.000	0.000	0.000	0.000	0
164	☐	CDT-507	0.627	0.000	0.000	0.000	0.000	0.000	0
165	☐	CDT-509	0.607	0.000	0.000	0.000	0.000	0.000	0
166	☐	CDT-511	0.643	0.000	0.000	0.000	0.000	0.000	0
167	☐	CDT-513	1.104	0.000	0.000	0.000	0.000	0.000	0
168	☐	CDT-515	0.830	0.000	0.000	0.000	0.000	0.000	0
169	☐	CDT-517	0.830	0.000	0.000	0.000	0.000	0.000	0
170	☐	CDT-519	0.831	0.000	0.000	0.000	0.000	0.000	0
171	☐	CDT-521	0.831	0.000	0.000	0.000	0.000	0.000	0
172	☐	CDT-523	0.829	0.000	0.000	0.000	0.000	0.000	0
173	☐	CDT-525	0.832	0.000	0.000	0.000	0.000	0.000	0
174	☐	CDT-527	0.833	0.000	0.000	0.000	0.000	0.000	0
175	☐	CDT-529	0.833	0.000	0.000	0.000	0.000	0.000	0
176	☐	CDT-531	0.910	0.000	0.000	0.000	0.000	0.000	0
177	☐	CDT-533	0.944	0.000	0.000	0.000	0.000	0.000	0
178	☐	CDT-535	0.927	0.000	0.000	0.000	0.000	0.000	0
179	☐	CDT-537	0.932	0.000	0.000	0.000	0.000	0.000	0
180	☐	CDT-539	0.553	0.000	0.000	0.000	0.000	0.000	0
181	☐	CDT-541	0.609	0.000	0.000	0.000	0.000	0.000	0
182	☐	CDT-543	0.586	0.000	0.000	0.000	0.000	0.000	0
183	☐	CDT-545	0.565	0.000	0.000	0.000	0.000	0.000	0
184	☐	CDT-547	0.776	0.000	0.000	0.000	0.000	0.000	0
185	☐	CDT-549	0.754	0.000	0.000	0.000	0.000	0.000	0
186	☐	CDT-551	0.775	0.000	0.000	0.000	0.000	0.000	0
187	☐	CDT-553	0.777	0.000	0.000	0.000	0.000	0.000	0
188	☐	CDT-555	0.784	0.000	0.000	0.000	0.000	0.000	0
189	☐	CDT-557	0.783	0.000	0.000	0.000	0.000	0.000	0
190	☐	CDT-559	0.786	0.000	0.000	0.000	0.000	0.000	0
191	☐	CDT-561	0.411	0.000	0.000	0.000	0.000	0.000	0
192	☐	CDT-563	0.382	0.000	0.000	0.000	0.000	0.000	0
193	☐	CDT-565	0.385	0.000	0.000	0.000	0.000	0.000	0
194	☐	CDT-567	0.380	0.000	0.000	0.000	0.000	0.000	0
195	☐	CDT-569	0.431	0.000	0.000	0.000	0.000	0.000	0
196	☐	CDT-571	0.396	0.000	0.000	0.000	0.000	0.000	0
197	☐	CDT-573	1.245	0.000	0.000	0.000	0.000	0.000	0
198	☐	CDT-575	1.250	0.000	0.000	0.000	0.000	0.000	0
199	☐	CDT-579	1.247	0.000	0.000	0.000	0.000	0.000	0
200	☐	CDT-583	1.250	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
201	☐	CDT-589	1.250	0.000	0.000	0.000	0.000	0.000	0
202	☐	CDT-591	1.250	0.000	0.000	0.000	0.000	0.000	0
203	☐	CDT-595	0.833	0.000	0.000	0.000	0.000	0.000	0
204	☐	CDT-597	0.833	0.000	0.000	0.000	0.000	0.000	0
205	☐	CDT-603	1.000	0.000	0.000	0.000	0.000	0.000	0
206	☐	CDT-605	0.918	0.000	0.000	0.000	0.000	0.000	0
207	☐	CDT-607	0.556	0.000	0.000	0.000	0.000	0.000	0
208	☐	CDT-609	0.763	0.000	0.000	0.000	0.000	0.000	0
209	☐	CDT-611	0.764	0.000	0.000	0.000	0.000	0.000	0
210	☐	CDT-613	0.744	0.000	0.000	0.000	0.000	0.000	0
211	☐	CDT-615	0.765	0.000	0.000	0.000	0.000	0.000	0
212	☐	CDT-617	0.584	0.000	0.000	0.000	0.000	0.000	0
213	☐	CDT-619	0.459	0.000	0.000	0.000	0.000	0.000	0
214	☐	CDT-621	0.447	0.000	0.000	0.000	0.000	0.000	0
215	☐	CDT-623	0.557	0.000	0.000	0.000	0.000	0.000	0
216	☐	CDT-625	0.534	0.000	0.000	0.000	0.000	0.000	0
217	☐	CDT-627	0.517	0.000	0.000	0.000	0.000	0.000	0
218	☐	CDT-629	0.523	0.000	0.000	0.000	0.000	0.000	0
219	☐	CDT-631	0.536	0.000	0.000	0.000	0.000	0.000	0
220	☐	CDT-633	0.540	0.000	0.000	0.000	0.000	0.000	0
221	☐	CDT-635	0.584	0.000	0.000	0.000	0.000	0.000	0
222	☐	CDT-637	0.544	0.000	0.000	0.000	0.000	0.000	0
223	☐	CDT-639	0.600	0.000	0.000	0.000	0.000	0.000	0
224	☐	CDT-641	0.595	0.000	0.000	0.000	0.000	0.000	0
225	☐	CDT-643	0.582	0.000	0.000	0.000	0.000	0.000	0
226	☐	CDT-645	0.609	0.000	0.000	0.000	0.000	0.000	0
227	☐	CDT-647	0.614	0.000	0.000	0.000	0.000	0.000	0
228	☐	CDT-649	0.610	0.000	0.000	0.000	0.000	0.000	0
229	☐	CDT-651	0.615	0.000	0.000	0.000	0.000	0.000	0
230	☐	CDT-653	0.631	0.000	0.000	0.000	0.000	0.000	0
231	☐	CDT-655	0.624	0.000	0.000	0.000	0.000	0.000	0
232	☐	CDT-657	0.598	0.000	0.000	0.000	0.000	0.000	0
233	☐	CDT-659	0.670	0.000	0.000	0.000	0.000	0.000	0
234	☐	CDT-661	0.614	0.000	0.000	0.000	0.000	0.000	0
235	☐	CDT-663	0.618	0.000	0.000	0.000	0.000	0.000	0
236	☐	CDT-665	0.727	0.000	0.000	0.000	0.000	0.000	0
237	☐	CDT-667	0.740	0.000	0.000	0.000	0.000	0.000	0
238	☐	CDT-671	1.247	0.000	0.000	0.000	0.000	0.000	0
239	☐	CDT-673	1.248	0.000	0.000	0.000	0.000	0.000	0
240	☐	CDT-675	1.250	0.000	0.000	0.000	0.000	0.000	0
241	☐	CDT-677	0.998	0.000	0.000	0.000	0.000	0.000	0
242	☐	CDT-679	0.972	0.000	0.000	0.000	0.000	0.000	0
243	☐	CDT-681	0.961	0.000	0.000	0.000	0.000	0.000	0
244	☐	CDT-683	0.821	0.000	0.000	0.000	0.000	0.000	0
245	☐	CDT-685	0.826	0.000	0.000	0.000	0.000	0.000	0
246	☐	CDT-687	0.833	0.000	0.000	0.000	0.000	0.000	0
247	☐	CDT-689	0.833	0.000	0.000	0.000	0.000	0.000	0
248	☐	CDT-691	0.833	0.000	0.000	0.000	0.000	0.000	0
249	☐	CDT-693	0.831	0.000	0.000	0.000	0.000	0.000	0
250	☐	CDT-695	0.832	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
251	☐	CDT-697	0.831	0.000	0.000	0.000	0.000	0.000	0
252	☐	CDT-699	0.830	0.000	0.000	0.000	0.000	0.000	0
253	☐	CDT-701	0.512	0.000	0.000	0.000	0.000	0.000	0
254	☐	CDT-703	0.518	0.000	0.000	0.000	0.000	0.000	0
255	☐	CDT-705	0.508	0.000	0.000	0.000	0.000	0.000	0
256	☐	CDT-707	0.662	0.000	0.000	0.000	0.000	0.000	0
257	☐	CDT-709	0.584	0.000	0.000	0.000	0.000	0.000	0
258	☐	CDT-711	0.641	0.000	0.000	0.000	0.000	0.000	0
259	☐	CDT-713	0.666	0.000	0.000	0.000	0.000	0.000	0
260	☐	CDT-715	0.667	0.000	0.000	0.000	0.000	0.000	0
261	☐	CDT-717	0.663	0.000	0.000	0.000	0.000	0.000	0
262	☐	CDT-719	0.666	0.000	0.000	0.000	0.000	0.000	0
263	☐	CDT-721	0.831	0.000	0.000	0.000	0.000	0.000	0
264	☐	CDT-723	0.832	0.000	0.000	0.000	0.000	0.000	0
265	☐	CDT-725	0.831	0.000	0.000	0.000	0.000	0.000	0
266	☐	CDT-727	0.574	0.000	0.000	0.000	0.000	0.000	0
267	☐	CDT-729	0.584	0.000	0.000	0.000	0.000	0.000	0
268	☐	CDT-731	0.615	0.000	0.000	0.000	0.000	0.000	0
269	☐	CDT-733	0.632	0.000	0.000	0.000	0.000	0.000	0
270	☐	CDT-735	0.491	0.000	0.000	0.000	0.000	0.000	0
271	☐	CDT-737	0.524	0.000	0.000	0.000	0.000	0.000	0
272	☐	CDT-739	0.550	0.000	0.000	0.000	0.000	0.000	0
273	☐	CDT-741	0.566	0.000	0.000	0.000	0.000	0.000	0
274	☐	CDT-743	0.639	0.000	0.000	0.000	0.000	0.000	0
275	☐	CDT-745	0.627	0.000	0.000	0.000	0.000	0.000	0
276	☐	CDT-747	0.593	0.000	0.000	0.000	0.000	0.000	0
277	☐	CDT-749	0.589	0.000	0.000	0.000	0.000	0.000	0
278	☐	CDT-751	0.393	0.000	0.000	0.000	0.000	0.000	0
279	☐	CDT-753	0.581	0.000	0.000	0.000	0.000	0.000	0
280	☐	CDT-755	0.589	0.000	0.000	0.000	0.000	0.000	0
281	☐	CDT-757	0.623	0.000	0.000	0.000	0.000	0.000	0
282	☐	CDT-759	0.622	0.000	0.000	0.000	0.000	0.000	0
283	☐	CDT-761	0.604	0.000	0.000	0.000	0.000	0.000	0
284	☐	CDT-763	0.619	0.000	0.000	0.000	0.000	0.000	0
285	☐	CDT-765	0.589	0.000	0.000	0.000	0.000	0.000	0
286	☐	CDT-767	0.540	0.000	0.000	0.000	0.000	0.000	0
287	☐	CDT-769	1.245	0.000	0.000	0.000	0.000	0.000	0
288	☐	CDT-771	1.000	0.000	0.000	0.000	0.000	0.000	0
289	☐	CDT-773	0.999	0.000	0.000	0.000	0.000	0.000	0
290	☐	CDT-775	0.999	0.000	0.000	0.000	0.000	0.000	0
291	☐	CDT-777	0.995	0.000	0.000	0.000	0.000	0.000	0
292	☐	CDT-779	0.992	0.000	0.000	0.000	0.000	0.000	0
293	☐	CDT-781	0.494	0.000	0.000	0.000	0.000	0.000	0
294	☐	CDT-783	0.501	0.000	0.000	0.000	0.000	0.000	0
295	☐	CDT-785	0.485	0.000	0.000	0.000	0.000	0.000	0
296	☐	CDT-787	0.469	0.000	0.000	0.000	0.000	0.000	0
297	☐	CDT-789	0.468	0.000	0.000	0.000	0.000	0.000	0
298	☐	CDT-791	0.483	0.000	0.000	0.000	0.000	0.000	0
299	☐	CDT-793	0.458	0.000	0.000	0.000	0.000	0.000	0
300	☐	CDT-795	0.389	0.000	0.000	0.000	0.000	0.000	0

Print Report

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
301	☐	CDT-797	0.393	0.000	0.000	0.000	0.000	0.000	0
302	☐	CDT-799	0.411	0.000	0.000	0.000	0.000	0.000	0
303	☐	CDT-801	0.238	0.000	0.000	0.000	0.000	0.000	0
304	☐	CDT-803	0.356	0.000	0.000	0.000	0.000	0.000	0
305	☐	CDT-805	0.845	0.000	0.000	0.000	0.000	0.000	0
306	☐	CDT-807	0.855	0.000	0.000	0.000	0.000	0.000	0
307	☐	CDT-809	0.859	0.000	0.000	0.000	0.000	0.000	0
308	☐	CDT-811	0.805	0.000	0.000	0.000	0.000	0.000	0
309	☐	CDT-813	0.645	0.000	0.000	0.000	0.000	0.000	0
310	☐	CDT-815	0.666	0.000	0.000	0.000	0.000	0.000	0
311	☐	CDT-817	0.667	0.000	0.000	0.000	0.000	0.000	0
312	☐	CDT-819	0.667	0.000	0.000	0.000	0.000	0.000	0
313	☐	CDT-821	0.667	0.000	0.000	0.000	0.000	0.000	0
314	☐	CDT-823	0.448	0.000	0.000	0.000	0.000	0.000	0
315	☐	CDT-825	0.577	0.000	0.000	0.000	0.000	0.000	0
316	☐	CDT-827	0.654	0.000	0.000	0.000	0.000	0.000	0
317	☐	CDT-829	0.627	0.000	0.000	0.000	0.000	0.000	0
318	☐	CDT-831	0.592	0.000	0.000	0.000	0.000	0.000	0
319	☐	CDT-833	0.547	0.000	0.000	0.000	0.000	0.000	0
320	☐	CDT-835	0.522	0.000	0.000	0.000	0.000	0.000	0
321	☐	CDT-837	1.250	0.000	0.000	0.000	0.000	0.000	0
322	☐	CDT-839	0.722	0.000	0.000	0.000	0.000	0.000	0
323	☐	CDT-841	0.708	0.000	0.000	0.000	0.000	0.000	0
324	☐	CDT-843	0.797	0.000	0.000	0.000	0.000	0.000	0
325	☐	CDT-845	0.735	0.000	0.000	0.000	0.000	0.000	0
326	☐	CDT-847	0.792	0.000	0.000	0.000	0.000	0.000	0
327	☐	CDT-849	0.689	0.000	0.000	0.000	0.000	0.000	0
328	☐	CDT-851	0.744	0.000	0.000	0.000	0.000	0.000	0
329	☐	CDT-853	0.657	0.000	0.000	0.000	0.000	0.000	0
330	☐	CDT-855	0.666	0.000	0.000	0.000	0.000	0.000	0
331	☐	CDT-857	0.644	0.000	0.000	0.000	0.000	0.000	0
332	☐	CDT-859	0.688	0.000	0.000	0.000	0.000	0.000	0
333	☐	CDT-861	0.699	0.000	0.000	0.000	0.000	0.000	0
334	☐	CDT-863	0.702	0.000	0.000	0.000	0.000	0.000	0
335	☐	CDT-865	0.516	0.000	0.000	0.000	0.000	0.000	0
336	☐	CDT-867	0.647	0.000	0.000	0.000	0.000	0.000	0
337	☐	CDT-873	0.617	0.000	0.000	0.000	0.000	0.000	0
338	☐	CDT-875	0.606	0.000	0.000	0.000	0.000	0.000	0
339	☐	CDT-877	0.613	0.000	0.000	0.000	0.000	0.000	0
340	☐	CDT-879	0.645	0.000	0.000	0.000	0.000	0.000	0
341	☐	CDT-881	0.653	0.000	0.000	0.000	0.000	0.000	0
342	☐	CDT-883	0.458	0.000	0.000	0.000	0.000	0.000	0
343	☐	CDT-885	0.434	0.000	0.000	0.000	0.000	0.000	0
344	☐	CDT-887	0.697	0.000	0.000	0.000	0.000	0.000	0
345	☐	CDT-893	0.667	0.000	0.000	0.000	0.000	0.000	0
346	☐	CDT-895	0.667	0.000	0.000	0.000	0.000	0.000	0
347	☐	CDT-897	0.667	0.000	0.000	0.000	0.000	0.000	0
348	☐	CDT-899	0.667	0.000	0.000	0.000	0.000	0.000	0
349	☐	CDT-901	1.000	0.000	0.000	0.000	0.000	0.000	0
350	☐	CDT-903	1.000	0.000	0.000	0.000	0.000	0.000	0

		ID	Maximum Top Width (ft)	Both End Surcharge Time (hrs)	Upstream Surcharge Time (hrs)	Downstream Surcharge Time (hrs)	Above Full-Flow Time (hrs)	Capacity Limited Time (hrs)	Instability Index
351	☐	CDT-905	1.000	0.000	0.000	0.000	0.000	0.000	0
352	☐	CDT-907	1.000	0.000	0.000	0.000	0.000	0.000	0
353	☐	CDT-909	1.000	0.000	0.000	0.000	0.000	0.000	0
354	☐	CDT-911	1.000	0.000	0.000	0.000	0.000	0.000	0
355	☐	CDT-913	0.942	0.000	0.000	0.000	0.000	0.000	0
356	☐	CDT-915	0.437	0.000	0.000	0.000	0.000	0.000	0
357	☐	CDT-917	0.455	0.000	0.000	0.000	0.000	0.000	0
358	☐	CDT-919	0.579	0.000	0.000	0.000	0.000	0.000	0
359	☐	CDT-921	0.576	0.000	0.000	0.000	0.000	0.000	0
360	☐	CDT-923	0.568	0.000	0.000	0.000	0.000	0.000	0
361	☐	CDT-925	0.589	0.000	0.000	0.000	0.000	0.000	0
362	☐	CDT-927	0.612	0.000	0.000	0.000	0.000	0.000	0
363	☐	CDT-929	0.482	0.000	0.000	0.000	0.000	0.000	0
364	☐	CDT-931	0.505	0.000	0.000	0.000	0.000	0.000	0
365	☐	CDT-933	0.522	0.000	0.000	0.000	0.000	0.000	0
366	☐	CDT-935	0.548	0.000	0.000	0.000	0.000	0.000	0
367	☐	CDT-937	0.433	0.000	0.000	0.000	0.000	0.000	0
368	☐	CDT-941	0.597	0.000	0.000	0.000	0.000	0.000	0
369	☐	CDT-943	0.614	0.000	0.000	0.000	0.000	0.000	0
370	☐	CDT-945	0.625	0.000	0.000	0.000	0.000	0.000	0
371	☐	CDT-947	0.636	0.000	0.000	0.000	0.000	0.000	0
372	☐	CDT-949	0.641	0.000	0.000	0.000	0.000	0.000	0
373	☐	CDT-951	0.654	0.000	0.000	0.000	0.000	0.000	0
374	☐	CDT-953	0.667	0.000	0.000	0.000	0.000	0.000	0
375	☐	CDT-955	0.703	0.000	0.000	0.000	0.000	0.000	0
376	☐	CDT-957	0.727	0.000	0.000	0.000	0.000	0.000	0
377	☐	CDT-959	0.726	0.000	0.000	0.000	0.000	0.000	0
378	☐	CDT-961	0.734	0.000	0.000	0.000	0.000	0.000	0
379	☐	CDT-963	0.730	0.000	0.000	0.000	0.000	0.000	0
380	☐	CDT-965	0.738	0.000	0.000	0.000	0.000	0.000	0
381	☐	CDT-967	0.736	0.000	0.000	0.000	0.000	0.000	0
382	☐	CDT-969	0.833	0.000	0.000	0.100	0.000	0.000	0
383	☐	CDT-973	0.531	0.000	0.000	0.000	0.000	0.000	0
384	☐	CDT-975	0.551	0.000	0.000	0.000	0.000	0.000	0
385	☐	CDT-977	0.561	0.000	0.000	0.000	0.000	0.000	0
386	☐	CDT-979	0.592	0.000	0.000	0.000	0.000	0.000	0
387	☐	CDT-981	0.600	0.000	0.000	0.000	0.000	0.000	0

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