MESA WATER DISTRICT

M25-101 INTERAGENCY WATER TRANSFERS – FEASIBILITY STUDY

MARCH 2, 2026

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List of Abbreviations

%	Percent
$/CFS	Dollars per Cubic Feet per Second
$/CF/Day	Dollars per Cubic Feet per Day
$/AF	Dollars per acre-foot
$M/Year	Millions of Dollars per Year
AF	acre-feet
AFY	Acre-feet per year
BEA	Basin Equity Assessment
BPP	Basin Production Percentage
CEQA	California Environmental Quality Act
cfs / CFS	cubic feet per second
City	City of Huntington Beach or City of Newport Beach
CIP	Capital Improvement Program
DDW	Division of Drinking Water
EIR	Environmental Impact Report
FCV	Flow Control Valve
Ft	feet
Ft / sec	Feet per second
FY	Fiscal Year
gpm	gallons per minute
HGL	Hydraulic Grade Line
Mesa Water	Mesa Water District
MG	Million Gallons
MGD	Million Gallons per Day
MKN	Michael K. Nunley and Associates

MWD	Metropolitan Water District of Southern California
MWDOC	Municipal Water District of Orange County
MWRF	Mesa Water Reliability Facility
OC San	Orange County Sanitation District
OCWD	Orange County Water District
PRV	Pressure Reducing Valve
PSV	Pressure Sustaining Valve
PSI / psi	Pounds per Square Inch
PSPS	Public Safety Power Shutoff
RA	Replenishment Assessment
RTCR	Revised Total Coliform Rule
RTS	Readiness to Serve
SCADA	Supervisory Control and Data Acquisition
TM	Technical Memorandum
UWMP	Urban Water Management Plan
VFD	Variable Frequency Drive

Executive Summary

Mesa Water District (Mesa Water) and the City of Huntington Beach (City) are evaluating an interagency water transfer program to increase the delivery of locally produced groundwater from Mesa Water's deep aquifer system to the City's potable water distribution system. The objective of the program is to reduce Huntington Beach's reliance on imported water from the Metropolitan Water District (MWD) while improving regional water supply reliability and long-term cost stability.

Mesa Water produces groundwater from a deep aquifer within the Orange County Groundwater Basin, which is managed by the Orange County Water District (OCWD). This feasibility study evaluates the hydraulic, operational, regulatory, and financial implications associated with increasing groundwater extraction and transferring additional supply to the City through the OC-44 pipeline. The evaluation includes a review of system capacity, operational risks, and potential infrastructure modifications required to reliably convey increased flows.

The study concludes that the hydraulic grade line (HGL) of the OC-44 pipeline is higher than Mesa Water's distribution system, making gravity-based transfer infeasible under existing conditions. The water transfer program is feasible provided that Mesa Water and the City construct a pressure-reducing valve (PRV) station to manage the HGL difference during off-peak hours of the day. During peak demand, when pressures are insufficient to support the transfer, a reduced supply would need to be supplemented by Metropolitan Water District (MWD). Alternatively, constructing a pump station would allow the transfer to operate during all hours, including peak demand conditions.

1.0 Introduction and Objective

1.1 Background

The Orange County Water District (OCWD) was established to manage and protect the Orange County Groundwater Basin. OCWD has established agreements with its 19 member agencies through interagency contracts that outline responsibilities for groundwater pumping, infrastructure, and emergency interconnections. These agreements ensure compliance with OCWD's basin management policies and equitable water distribution. One way in which OCWD protects the Basin's resources is the Basin Production Percentage (BPP). The BPP is the share of each agency's potable water demand that can be met by pumping from the groundwater basin without extra fees. Pumping within the BPP incurs a Replenishment Assessment (RA); pumping above it adds a Basin Equity Assessment (BEA). OCWD sets the BPP annually to maintain basin sustainability and reduce reliance on import water. As of 2025 the BPP is 85% of potable water demands.

Mesa Water District (Mesa Water) is evaluating the feasibility of providing supplemental water supply to the City of Huntington Beach (City) using the Mesa Water Reliability Facility (MWRF). Based on current operational conditions, the MWRF has excess capacity to support demands beyond those in Mesa Water's distribution system. Mesa Water and the City have expressed that a successful interagency water transfer program will include use of the OC-44 Pipeline for conveyance. This infrastructure is already in place and directly connects both systems, thereby reducing the costs associated with establishing a new interconnection. However, there exists a large HGL difference between the Mesa Water District and OC-44 pipeline; therefore, a new PRV or booster pump station is required to ensure a reliable water transfer.

The MWRF, which began operation in 2013, treats water from a deep, confined aquifer using a two-stage nanofiltration process and has a production capacity of approximately 8 million gallons per day. Mesa Water pays the Replenishment Assessment (RA) for this pumping but is exempt from the Basin Equity Assessment (BEA) for the MWRF supply. Currently, Mesa Water uses approximately 25% of the MWRF's total capacity on an annual basis and maintains a groundwater production system that commonly exceeds local demand.

Given these conditions, Mesa Water is exploring opportunities to maximize the value of its water assets by assessing the viability of supplying its available water capacity to the City.

1.2 Objective

The objective of the interconnection study is to establish the feasibility of a water interconnection with the City, through the OC-44 pipeline, with the purpose of lowering the City's import water demands. This water transfer program will decrease the City's reliance on MWDOC import water and the associated costs. A successful transfer program will also generate revenue for Mesa Water. This Technical Memorandum (TM) identifies four potential water transfer volumes 100 AFY, 1,000 AFY, 2,500 AFY, and 4,450 AFY to present a varied number of solutions. This will allow Mesa Water District and the City of Huntington Beach to select the most advantageous water transfer solution that satisfies the needs of both parties. The following elements were used to identify the criteria and determine the feasibility of the water transfer program:

- Mesa Water's available water supply capacity from its wells and the MWRF
- The City's historical and projected import water demands
- Hydraulic and infrastructure constraints of the OC-44 Pipeline and connection locations
- Regulatory and environmental impacts of delivering additional water supplies through the OC-44 Pipeline
- Risk assessment and uncertainties evaluation; and
- A comparative financial analysis of local supply versus import water costs

The TM concludes with an assessment of conceptual feasibility and recommendations for potential next steps should Mesa Water and the City choose to proceed with a more detailed evaluation.

2.0 Supply and Demand

2.1 Mesa Water Production Capacity

Mesa Water is unique among Orange County water agencies in that it is able to meet customer demands entirely with local groundwater supplies, while not exceeding the BPP limitations from OCWD. Mesa Water accomplishes this by pumping from groundwater wells up to the 85% BPP, and then using its deep groundwater wells, which are not subject to BPP limitations, for the remaining 15% of demands.

Mesa Water operates a total of seven (7) groundwater wells (referred to as "Clear Wells") and two (2) amber-tinted wells within its service area (referred to as "Amber Wells"), located in the northwestern portion of Costa Mesa. The total capacity of the active wells is approximately 33.4 MGD. Five (5) of the clear wells are approximately 600 feet deep and have a combined capacity of 13.2 MGD. Additionally, two (2) of the clear wells, Chandler Well No. 12 and Croddy Well No. 14 are approximately 1,000 feet deep and have a capacity

of approximately 11.5 MGD. Wells 12 and 14 were brought online in November 2023 and May 2023, respectively.

The two (2) amber-tinted wells are approximately 1,200 feet deep and are part of the Mesa Water Reliability Facility (MWRF) which treats the water to remove the amber color for distribution. The MWRF has a total capacity of approximately 8.6 MGD and a recovery rate of approximately 95%.

Table 2-1 summarizes the groundwater production wells currently operated by Mesa Water, including clear wells (Clear Wells) and amber-tinted wells (Amber Wells) treated through the MWRF.

Table 2-1: Well Capacity[1]				
Supply Source	**Description**	**Capacity (gpm)**	**Capacity (MGD)**	**Capacity (AFY)**
Clear Wells	Well 1B	2,300	3.31	3,710
	Well 3B	1,600	2.30	2,581
	Well 5	2,200	3.17	3,549
	Well 7	1,300	1.87	2,097
	Well 9B	1,800	2.59	2,903
	Well 12[2]	4,000	5.76	6,452
	Well 14[2]	4,000	5.76	6,452
	Subtotal – Clear Wells	**17,200**	**24.77**	**27,744**
MWRF	Well 6	3,000	4.32	4,839
	Well 11	3,000	4.32	4,839
	Subtotal – Amber Wells	**6,000**	**8.64**	**9,678**
	Production Less Brine[3]	**5,880**	**8.47**	**9,484**

Notes:

1. *Table 2-1 reflects the stable, optimal production capacities for each well as reported in Tables 3-1 and 3-2 of the* Water Supply, Energy, and Supply Chain Reliability Assessment Technical Memorandum *(Brown and Caldwell, 2020) with additional clarification and revisions from Mesa Water.*
2. *Well 12 became Operational in November 2023 and Well 14 Became Operational in May 2023.*
3. *MWRF recovery noted by Mesa Water at 95%.*

2.2 Mesa Water Historical Well Capacity

To evaluate available capacity of the Clear Wells and Amber Wells, historical well production was compared to the capacity values shown in **Table 2-1**. This analysis covers the period from FY2023 through April of FY2025 using production data provided by Mesa Water.

The Clear Wells and Amber Wells were analyzed separately due to their distinct operational roles. Clear Wells draw from the principal aquifer and are governed by the BPP, which defines the portion of an agency's demand that can be met with groundwater without triggering a Basin Equity Assessment (BEA).

Figures 2-1 through 2-6 illustrate monthly well production relative to capacity, with trend lines showing the progression of available cumulative capacity over time. The following summarizes key findings from the figures for both well systems.

Clear Well Demand (Figure 2-1 through Figure 2-3) Analysis:

- **Commissioning of New Wells Has Increased Capacity:** The addition of Wells 14 (in mid-2023) and 12 (in late 2023) significantly increased overall supply capacity.
- **Production-to-Capacity Ratios Are Declining:** Despite increased capacity, actual well production has not increased proportionally, resulting in a declining production-to-capacity ratio—from approximately 80% before Well 14 to 72%, then dropping further to 42% after Well 12.
- **System is Operating Below Capacity:** By FY2025, the system operates at approximately 48% of its available production capacity under Average Day Demand conditions, indicating substantial unused capacity during this period. However, the wells experience significantly higher utilization under Maximum Day Demand conditions.

Amber Well Demand (Figure 2-4 through Figure 2-6) Analysis:

- **Amber Wells Serve as Supplemental Supply:** These wells are used intermittently to meet demand above the Basin Pumping Percentage (BPP), which is currently set at 85%. As a result, their operation is less consistent than the Clear Wells.
- **High Surplus Capacity Throughout the Year:** Across FY2023 to FY2025, the Amber Wells consistently maintain high surplus capacity, averaging 75–77% monthly, indicating they are used only when needed and mostly remain idle.
- **Utilization is Intermittent and Seasonal:** Usage is concentrated in specific months—typically summer and early fall—with minimal to no use during the rest of the year, reflecting their role in meeting peak or above BPP demand. The graph for FY2024 shows some non-typical operational cycles due to operational changes occurring during that time period. Wells 12 and 14 were brought online, and Amber Wells were no longer required to meet peak demands; however, Amber Wells were still utilized to meet BPP requirements. There is a return to form in FY2025 after some operational modifications.

Figure 2-1: FY2023 Available Clear Well Supply

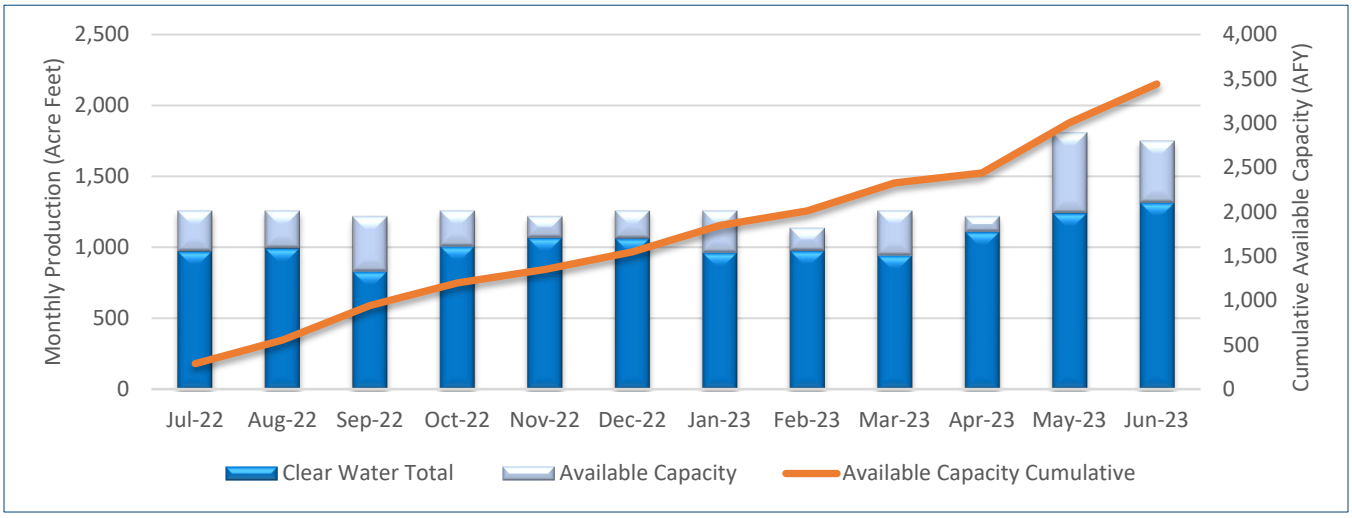


Figure 2-2: FY2024 Available Clear Well Supply

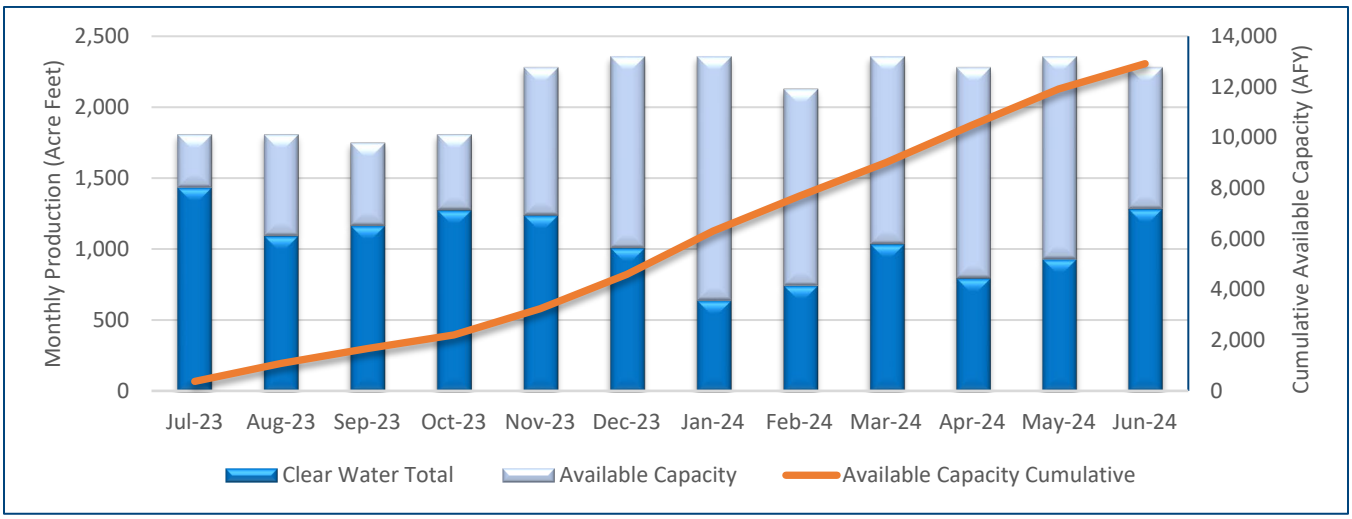


Figure 2-3: FY2025 Available Clear Well Supply

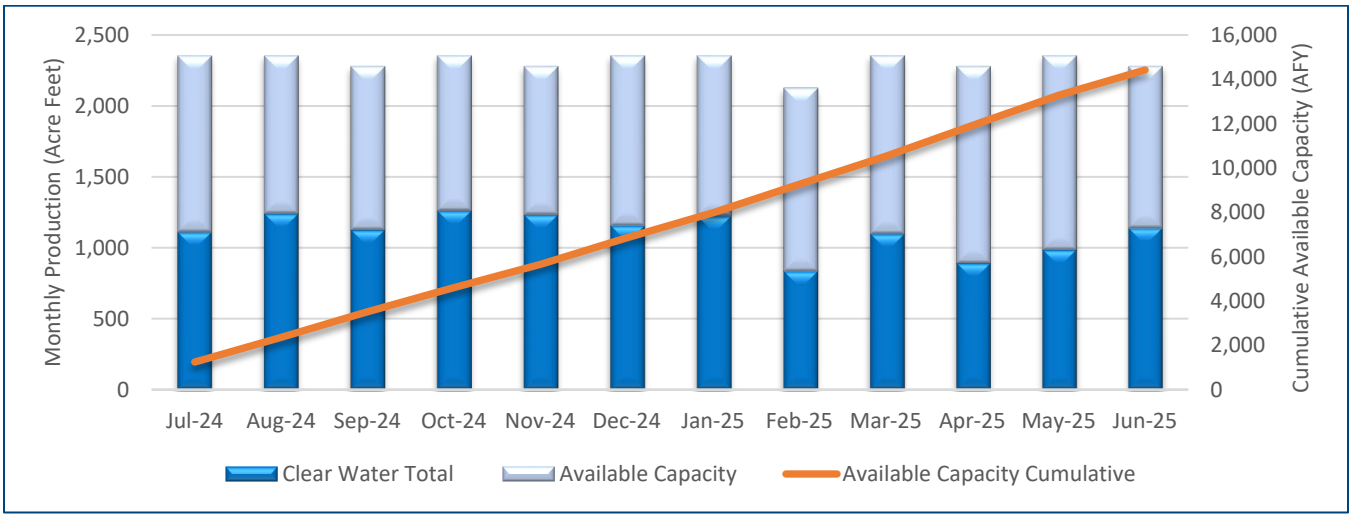


Figure 2-4: FY2023 Available Amber Well Supply

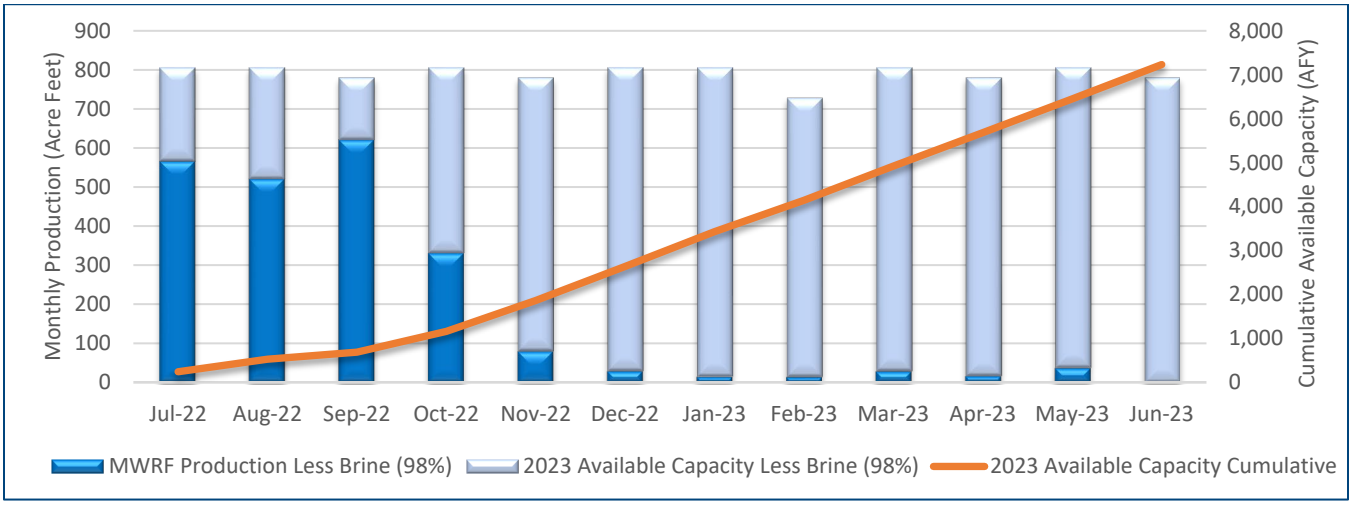


Figure 2-5: FY2024 Available Amber Well Supply

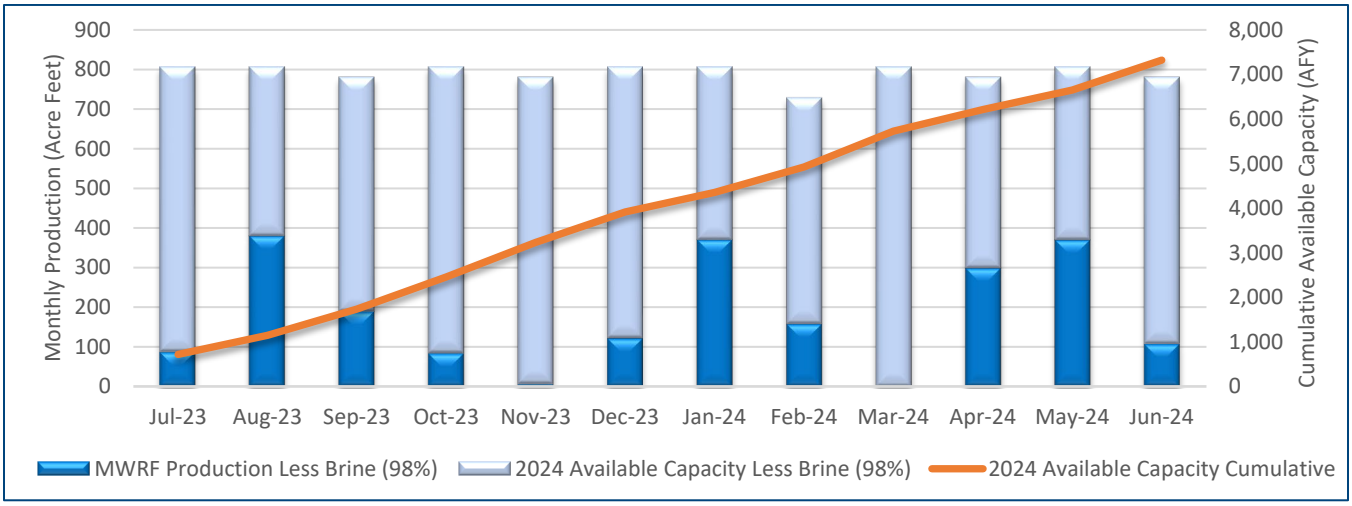


Figure 2-6: FY2025 Available Amber Well Supply

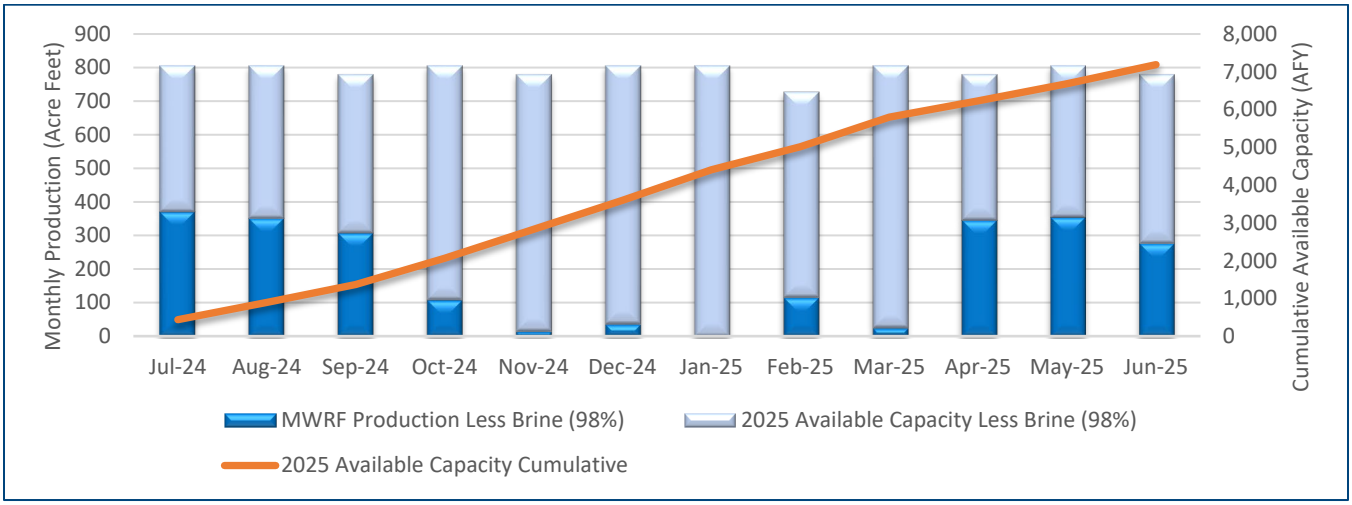


Table 2-2 provides a summary of the historical available capacity.

Table 2-2: Historical Available Capacity			
Description	**FY2023**	**FY2024**	**FY2025**
Clear Well Demand (AF)	12,473	12,647	13,317
Amber Well Demand (AF)	2,258	2,169	2,301
Total Demand (AF)	14,732	14,816	15,618
Remaining Clear Well Capacity (AF)[1]	8,818	15,097	14,427
Remaining Amber Well Capacity (AF)[2]	7,420	7,509	7,377
Total Remaining Capacity (AF)	16,238	22,606	21,803

Notes:

1. *Clear Well Capacity is based on the largest available capacity within the fiscal year, Well 14 became operational in May of 2023, capacity for FY2023 includes Well 14. Well 12 became operational in November 2023, capacity for FY2024 and FY2025 includes Wells 12 and 14. See **Table 2-1** for a breakdown of each well's capacity.*
2. *Amber Well Capacity set at 9,484 AFY per **Table 2-1**.*

2.3 Mesa Water Future Well Capacity

While historical production versus capacity analysis provides valuable insight, it is incomplete without consideration of future demand projections and their implications on total production capacity. To support this forward-looking evaluation, MKN reviewed water demand projections presented in the January 2025 Capital Improvement Program (CIP) Update, which covers the period from 2022 through 2035. To extend the planning horizon to 2050, MKN extrapolated demand estimates for 2040 through 2050 using a linear growth assumption based on the CIP data. For the hydraulic analysis, the data produced by Carollo was used since it is more conservative than the production data. **Table 2-3** presents the original demand projections from the 2025 CIP Update along with MKN's extrapolated values.

Table 2-3: Mesa Water 2050 Demand Projections[1,2]						
Demand Source	**2025**	**2030**	**2035**	**2040**	**2045**	**2050**
Residential Demand (AFY)	10,988	11,361	11,921	12,733	13,841	15,306
Commercial Demand (AFY)	5,467	5,467	5,467	5,467	5,467	5,467
Total Demand (AFY)	16,455	16,828	17,388	18,200	19,308	20,773

Note:

1. *Demand projections through 2035 are sourced from the January 2025 CIP Update, demand projections for 2040 through 2050 are linearly extrapolated from the CIP Update (1.88%/year).*
2. *Carollo's demand projects were used in the hydraulic modeling and reporting due to it's conservative estimate when compared to the actual production data*

To translate future annual demand projections into monthly estimates, an average historical monthly distribution factor is applied. Additionally, estimating available well capacity to meet these monthly demands

requires assumptions regarding operational strategies—specifically, the targeted allocation between Clear Wells and Amber Wells. **Table 2-4** summarizes the calculated historical monthly demand distribution (based on FY2023–2025 data) and the estimated allocation of demand between the two well systems.

Table 2-4: Monthly Demand and Clear Well Allocation Assumptions

Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
FY23-25 average (AF)	1,513	1,526	1,413	1,356	1,213	1,139	1,070	949	1,044	1,152	1,289	1,352	15,016
Monthly Percent of Total	10%	10%	9%	9%	8%	8%	7%	6%	7%	8%	9%	9%	100%
Clear Well Component (%)	70	70	75	75	95	100	100	100	100	80	80	75	85.0
Amber Well Component (%)	30	30	25	25	5	0	0	0	0	20	20	25	15.0

Table 2-5 provides a comparison between the demand projections presented in **Table 2-3** and the historical capacity identified in **Table 2-2**. For a more direct comparison the maximum available capacity, including Wells 12 and 14, was used when calculating historical/current surplus capacity in FY23-25. The calculation results identify that there is more than 17,000 AFY between the Amber Wells and the Clear Wells that can be made available for water transfer through the year 2050.

Table 2-5: Mesa Water Production Surplus With Future Demand Projections

	Avg FY23-25	2030	2035	2040	2045	2050
Clear Well Capacity (AFY)	27,744	27,744	27,744	27,744	27,744	27,744
Amber Well Capacity (AFY)	9,484	9,484	9,484	9,484	9,484	9,194
Demand (AFY)[1]	15,055	16,828	17,388	18,200	19,308	20,773
Surplus Clear Well Capacity (AFY)	15,184	13,706	13,238	12,561	11,637	10,087
Surplus Amber Well Capacity (AFY)	6,985	6,690	6,598	6,463	6,279	6,078

Note:

Demand projections are assumed to be split according to 85% BPP requirements to avoid BEA, 85% for Clear Wells and 15% for Amber Wells.

Figures 2-7 and 2-8 apply the monthly Clear Well and Amber Well allocations provided in **Table 2-4** against the demand projections in **Table 2-3**. The figures illustrate the estimated near-term availability of Amber Well capacity by month for the future demands Scenarios through 2050.

Figure 2-7: Future Clear Well Capacity Availability

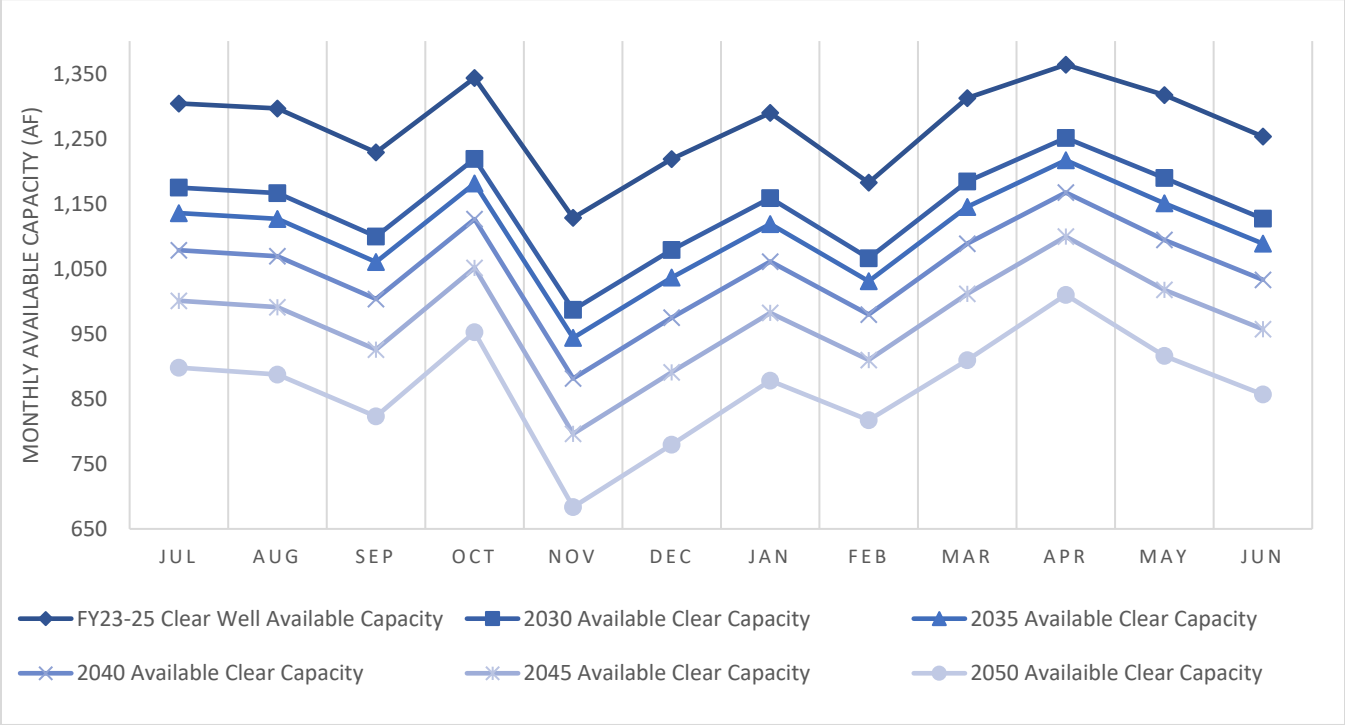
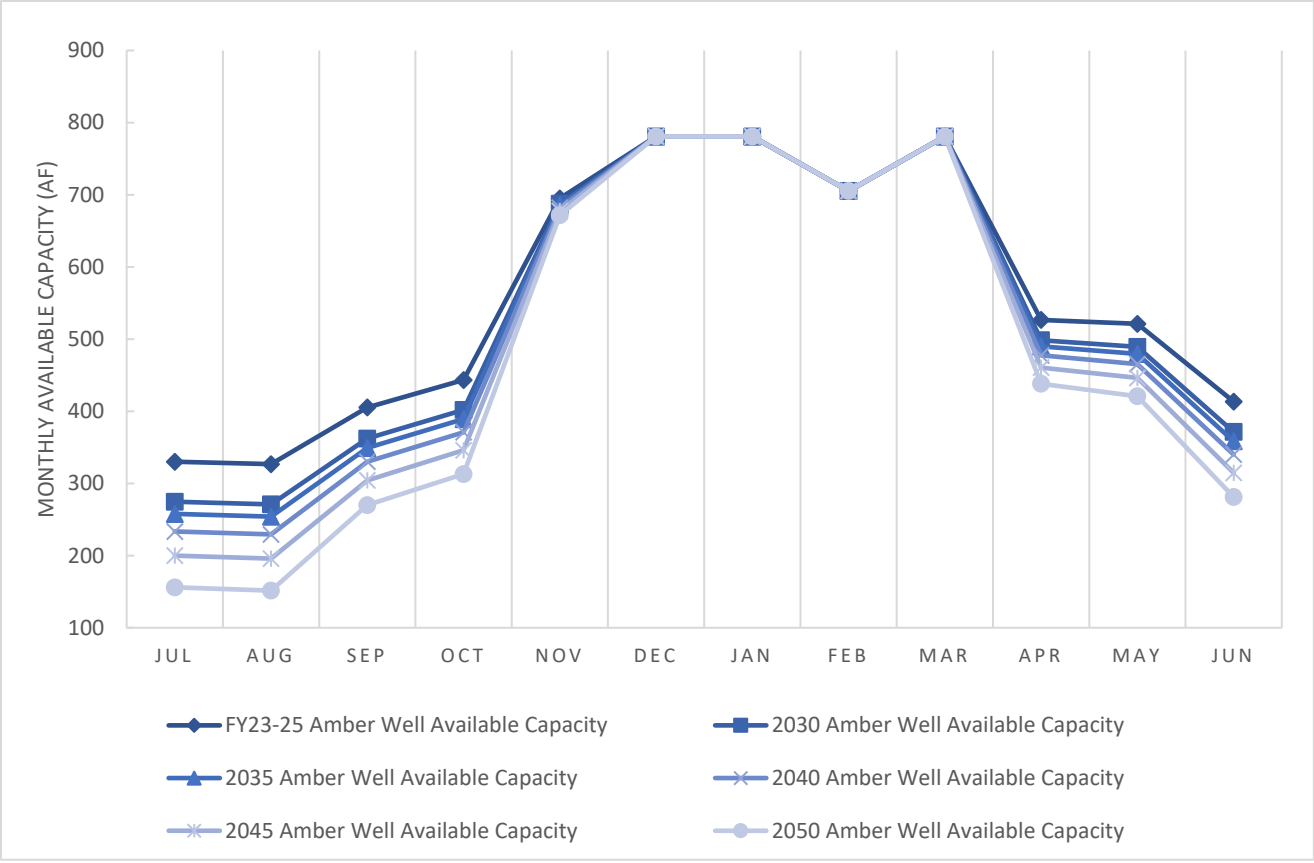


Figure 2-8: Future Amber Well Capacity Availability



Accounting for future demand projections against current production capacity limitation shows that there is capacity available to Mesa Water for a number of contingent uses. The capacity for the Clear Wells is sufficient to account for the largest well out of service and still have some remaining capacity. Similarly, one of the Amber Wells could be offline and still meet future demand requirements. **Figures 2-9 and 2-10** depict Mesa Water's supply capacity reflected against future demand responsibilities. The figures also identify how capacities are affected with one well out of service.

Figure 2-9: Clear Well Capacity with Future Demand Projections

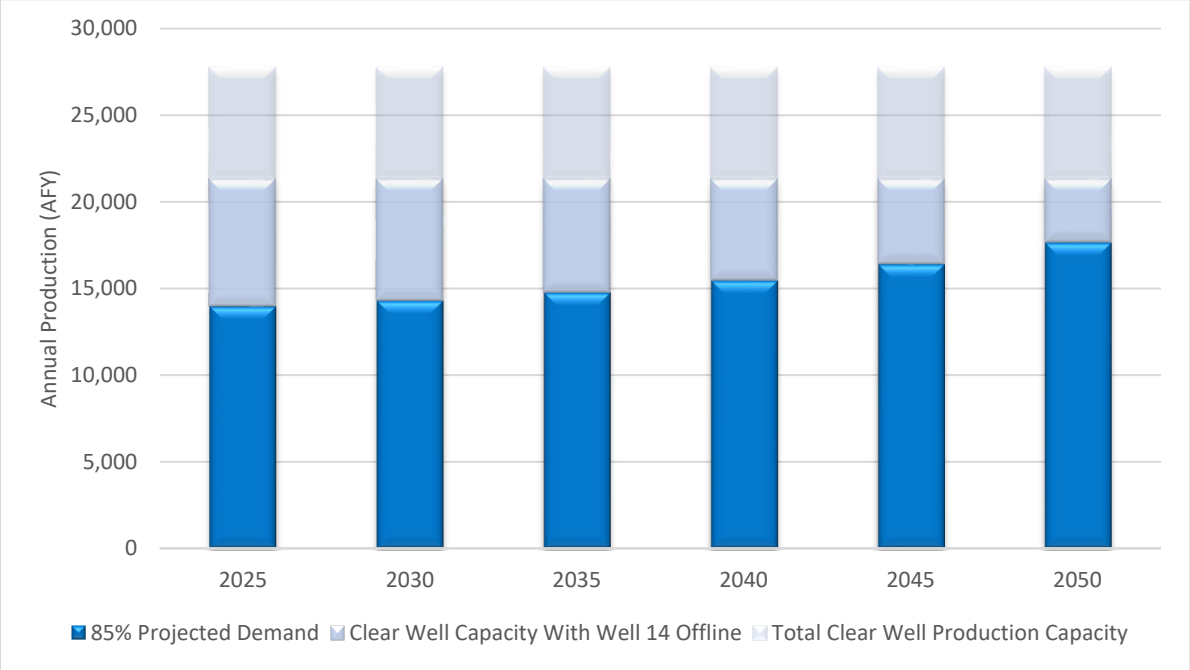
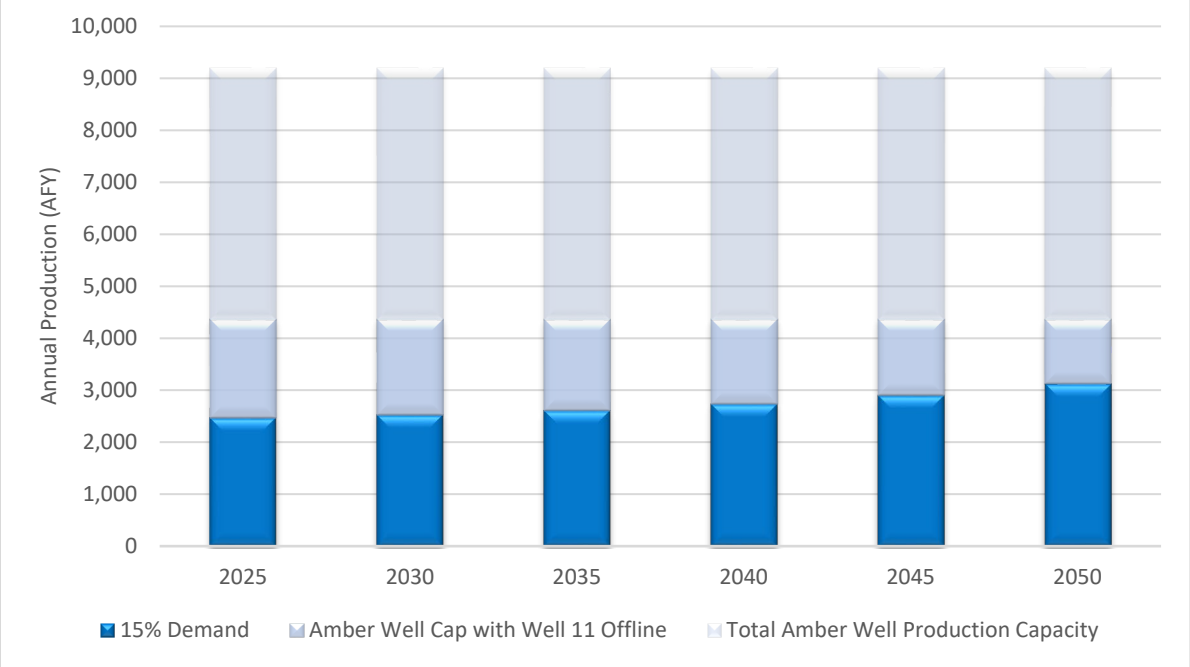


Figure 2-10: Amber Well Capacity with Future Demand Projections



Analysis shows that Mesa Water has sufficient production capacity to meet current and future demands with water available for transfer. The cost breakdown will be conducted as part of **Section 3**.

2.4 City of Huntington Beach Demand and Interconnections

City Population and Demand Evaluation

According to the 2025 Center for Demographic Research (CDR) Orange County Progress Report (OCP), the City maintains a water service area that contains an estimated population of 193,134 in 2025. The population is anticipated to decrease by approximately 1.3% between 2025 and 2050 to 190,716. Additionally, the OCP identifies that the total number of dwelling units will increase from 83,348 to 87,123, a total increase of 4.5%. The anticipated decline in population, coupled with the increase in dwelling units yields a decrease in population density. **Table 2-6** contains the population and housing data and anticipated growth percentage in 5-year increments between 2025 and 2050.

Table 2-6: Population and Housing Data 2025 through 2050

	Historical			Projected				
	2010	2020	2025	2030	2035	2040	2045	2050
Population	190,963	197,752	193,134	194,743	194,600	194,529	193,141	190,716
Annual % Increase	-	3.56%	-2.34%	0.83%	-0.07%	-0.04%	-0.71%	-1.26%
Total Dwelling Units	78,644	82,734	83,348	84,223	85,199	85,817	86,471	87,123
Population/DU	2.43	2.39	2.32	2.31	2.28	2.27	2.23	2.19
Per Capita M&I (gpcd)	118.3							
Projected Water Demands (MG per day)	22.591	23.394	22.848	23.038	23.021	23.013	22.849	22.562
Projected Water Demands (AFY)	25,307	26,207	25,595	25,808	25,789	25,779	25,595	25,274

The 2023 City of Huntington Beach Water Master Plan Updated (2023 WMP) identifies a demand factor based on the average daily per capita municipal and industrial (Per Capita M&I) water use. It is used to estimate mean urban water demand and includes residential, commercial, municipal, and industrial water demand, as well as unaccounted-for water associated with each person in the population. The demand factor determined in the 2023 WMP is 118.3 gallons per capita per day (gpcd). Using the OCP's reported population in 2025 and the demand factor developed in the 2023 WMP, the total estimated water demand is 25,595 AFY. Using the same process for projected population and Per Capita M&I projection the 2050 water demand is estimated to be 25,274 AFY.

The 2023 WMP also presents projected demands based on the City's 2020 Urban Water Management Plan (City's 2020 UWMP). The demand projections were provided by MWDOC and were reviewed by the City as part of the City's 2020 UWMP preparation process. In 2025 the estimated water demand was 26,399 AF. The City's 2020 UWMP only estimates water demands through 2045. This feasibility study aims to develop a 25-year outlook; therefore, linear extrapolation was used to develop demand projections through 2050. **Table 2-7** contains the 2020 UWMP's retail projections from 2025 through 2050.

Table 2-7: Retail Water Demand Estimates 2025 through 2050							
Use Type	Additional Description (As Needed)	Projected Water Use (AF)					
		2025	2030	2035	2040	2045	2050 [2]
Single Family		11,714	11,525	11,339	11,127	11,090	11,053
Multi-Family		5,950	5,826	5,731	5,603	5,603	5,603
Commercial		3,115	3,465	3,551	3,640	3,640	3,640
Industrial		588	654	670	687	687	687
Institutional / Governmental		125	139	142	146	146	146
Landscape		3,412	3,412	3,412	3,412	3,412	3,412
Losses	Non-revenue water	1,496	1,503	1,492	1,478	1,476	1,474
	Total [1]	**26,399**	**26,524**	**26,339**	**26,093**	**26,054**	**26,015**

Notes:
1. Projected water use is from Table 4-3 of the 2020 UWMP, column totals do not sum perfectly, likely due to rounding.
2. 2050 projected water use is an estimate based off of a linear extrapolation between 2040 and 2045.

The methodologies presented for projecting and estimating water demands through 2050 yielded different but similar results. The magnitude of the estimated demands differs from 1.2% to 3.2%; additionally, the results show a general trend of decreasing water demands through 2050. Despite the similarities in results, there are some differences to how the data is compiled. The City's 2020 UWMP estimate is based on retail water use breakdowns for multiple use categories, the projections include water loss estimates, whereas the 2023 WMP demand estimate excludes water losses, finally, the 2023 WMP's Per Capita M&I factor was assumed to be constant through 2050. With this information in mind, MKN suggests using City's 2020 UWMP methodology resulting in 26,399 AFY for the 2025 demand estimate and 26,015 AFY for the 2050 demand estimate for this feasibility study.

Historical City Groundwater Production and MWDOC Import

The City of Huntington Beach owns and operates nine (9) groundwater wells within its service area, each pulling water from the OCWD Groundwater Basin, specifically the principal aquifer. Most of the groundwater wells are concentrated in the central-eastern portion of the City, but there are a few wells in the northern portion as well.

The City's groundwater supply, similar to Mesa Water's, is subject to the BPP limit of 85%, so groundwater production is supplemented with import water from MWDOC. The City maintains three (3) interconnections with MWDOC to receive import water. The import water connections are spread across the City's eastern border with OC-35 in the north, OC-9 in the center, and OC-44 in the southern portion of the City. **Figure 2-11** shows the approximate locations for the groundwater wells and the MWDOC interconnections.

The City of Huntington Beach provided monthly groundwater production data for FY21-22 through FY24-25 for each well that the City operates. Additionally, the data includes monthly import water data for the same time period for each of the three turnouts between the City and MWDOC. **Table 2-8** contains a summary of the water production data and import water data, including capacities for each.

Table 2-8: Water Production and Import Summary					
Source	Production/Import Total (AF)				
	FY21-22	FY22-23	FY23-24	FY24-25	Capacity[1]
Well #1A	2,699	2,241	2,981	2,709	3,629
Well #3A	564	828	-	348	4,033
Well #4[2]	-	-	-	55	1,290
Well #5	3,899	3,533	3,502	3,474	6,452
Well #6	910	778	1,085	1,099	5,323
Well #7	3,416	2,603	3,745	3,339	6,452
Well #8[3]	-	-	-	-	-
Well #9	3,670	3,797	2,340	3,350	4,839
Well #10	3,152	1,759	3,163	3,821	6,452
Well #13	3,144	305	3,113	3,535	6,452
Well #14[5]	-	-	-	-	-
Total Production	**21,619**	**16,103**	**20,167**	**21,910**	**44,722**
OC-9	1,548	1,409	319	386	10,859
OC-35	763	3,019	450	433	14,479
OC-44[6]	2,530	2,828	2,493	2,399	10,859
Total Import	**4,841**	**7,255**	**3,263**	**3,217**	**36,197**
Total Supply	**26,459**	**23,358**	**23,430**	**25,128**	**81,119**

Notes:

1. Groundwater well capacity data sourced from Table 3-4 in the 2023 Water Master Plan and updated information provided by the City of Huntington Beach.
2. Well No. 4 was offline prior to FY21-22 and brought back online late in FY24-25. Production was reported as 54.8 AFY between January 2025 and June 2025. Capacity was stated to be 800 gpm, which MKN converted to 1,290 AFY.
3. Well No. 8 is non-operational
4. Well No. 12 is abandoned
5. Well No. 14 is anticipated to be in-service 2028
6. Per City of Huntington Beach OC-44 capacity is approximately 6,700 gpm.

Figure 2-11: OC-44 Transmission line and connections to City of Huntington Beach

The City imports water from MWDOC to meet demands not met by the groundwater wells. Current cost schedule escalation for MWDOC water is increasing rapidly through 2035. Therefore, the focus of this analysis is two-fold:

- Reduce overall import water from MWDOC
- Reduce peak import water imports from MWDOC

The anticipated import water demand for the City is based on projections presented in the City's 2020 UWMP. According to the City's 2020 UWMP, import water is anticipated to remain a supplemental supply source for the City, complementing groundwater to meet their total potable demands. In FY19-20 the City imported approximately 7,670 acre-feet (AF) of water, representing 29.5% of its total water supply. Based on projections, the UWMP projects that by 2045, import water will account for approximately 14.9% of the City's total water supply, equating to around 3,908 AF annually. The downward trend indicates a shift toward greater use of local groundwater rather than relying on import water.

The City-provided import water data, summarized in **Table 2-8**, identifies that the City-wide total annual import water demands are trending downward. There is some anomalous data in FY22-23 which indicates that import water used is more than double FY23-24 and FY24-25. This may be explained by the 2023 WMP identifying some planned improvements to groundwater wells proposed within that timeframe. Furthermore, the same production data shows a trend in overall reduced water usage which is consistent with the City's 2020 UWMP projected groundwater and import water needs.

MKN explored the City's total water production on a month-to-month basis to more accurately gauge whether or not the existing infrastructure could support an alternative import water source to replace the MWDOC import water. Using the most recent full year of data provided by the City, **Figure 2-12** was prepared, which identifies the FY24-25 groundwater production water from each well. This process was repeated for the import water through each turnout and, **Figure 2-13** was prepared identifying the monthly breakdown of FY24-25 import water demand through each interconnection.

Figure 2-12: FY24-25 City's Monthly Groundwater Well Production

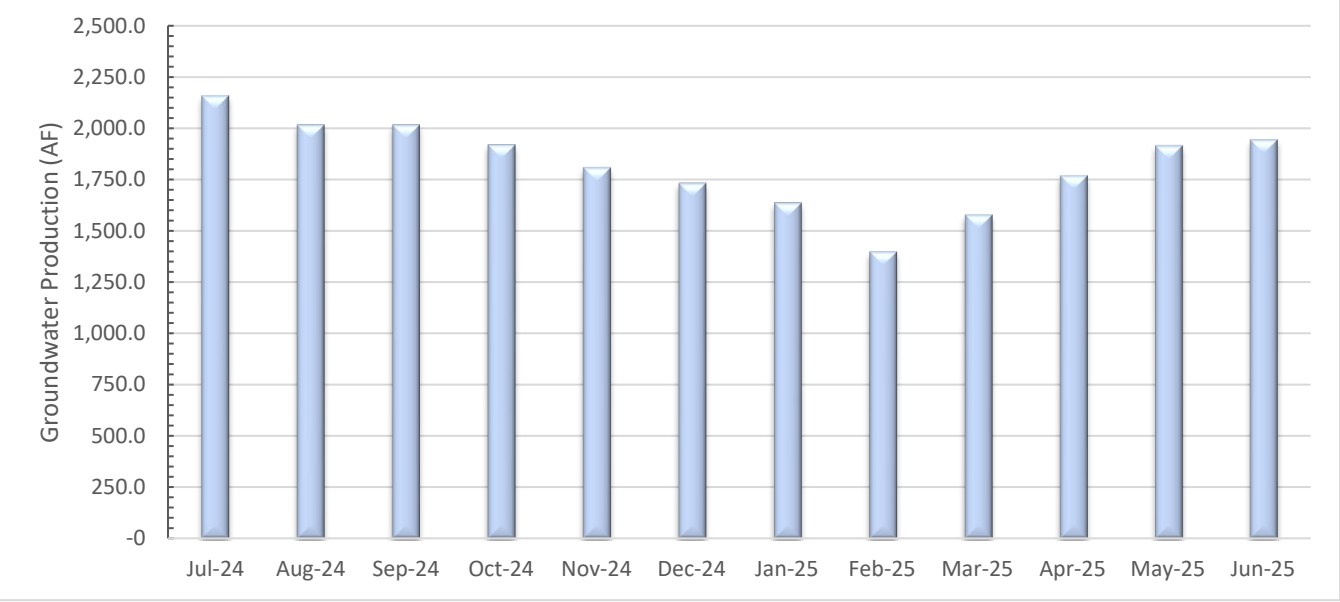


Figure 2-13: FY24-25 City's Monthly Imported Water by Interconnection

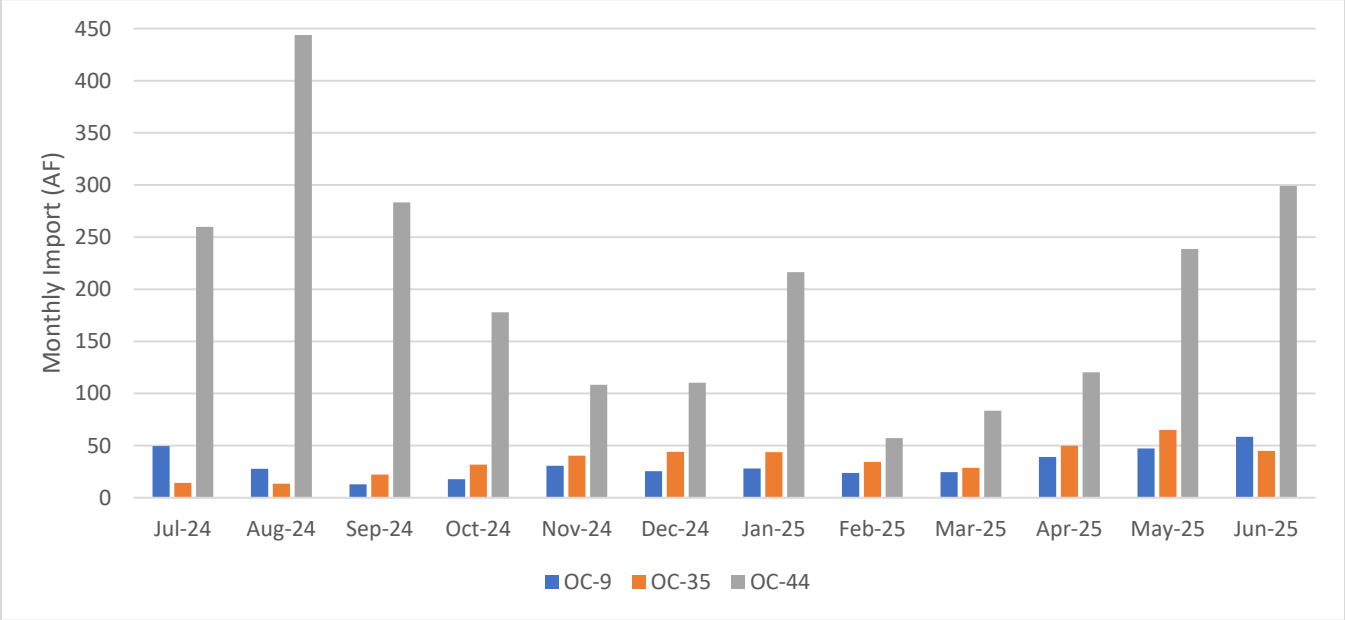
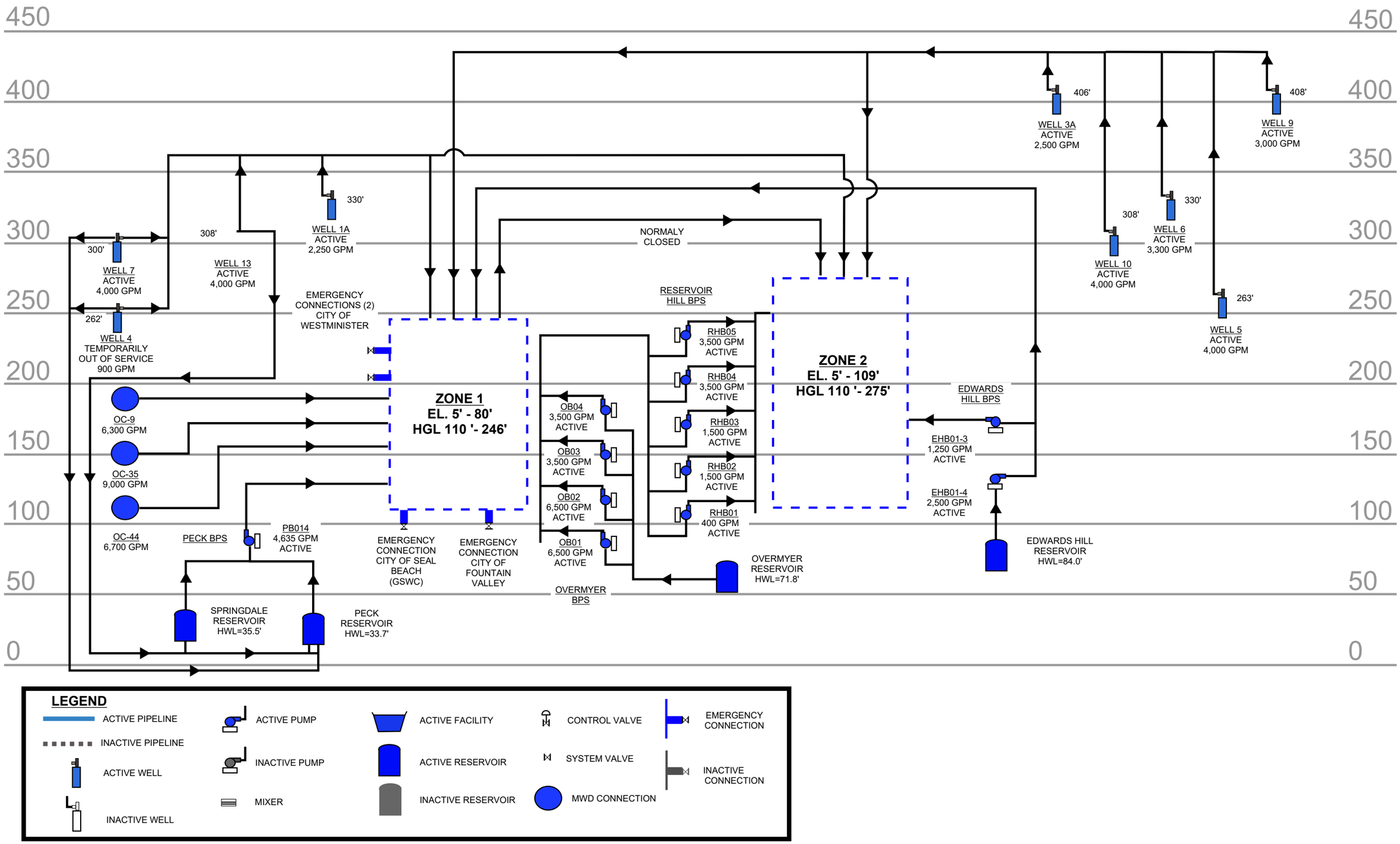


Figure 2-12 illustrates a trend where groundwater production is higher in warmer, summer, months and lower in cooler, winter, months. This is an expected trend in production and demand data, but it is important to identify that the City's water use trends are consistent with Southern California norms.

There is a similar trend with the import water in **Figure 2-13**, additionally, it is evident that the majority of import water supply is provided through the OC-44 interconnection. In August 2024 import water through OC-44 was nearly 20% of all water supplied to the City to meet demands. Furthermore, the City's 2020 UWMP identifies that the maximum available capacity through the OC-44 turnout is 15 cubic-feet per second, or approximately 900 AF per month. The OC-44 turnout has more than double the peak capacity that is currently being used.

Based on information provided in the 2023 Water Master Plan, interconnection OC-44 discharges into the City's Zone 1 which has a hydraulic grade line (HGL) of 246 feet and can supply Zone 2 through a gate valve but is normally closed. The City water system hydraulic schematic is shown in **Figure 2-14** below.

Figure 2-14: City Water System Hydraulic Schematic



Projected City Groundwater Production and MWDOC Import

The City's demands are anticipated to change between 2025 and 2050 which will affect groundwater production and the anticipated import water needs. **Table 2-9** summarizes the City's projected demands, the groundwater production based on 85% BPP, and the import water needs for the remaining 15%.

Table 2-9: City's Projected Demands, Groundwater Production and Import Water Needs

	Projected Water Use (AF)					
	2025	2030	2035	2040	2045	2050
Projected Water Demands[1]	26,399	26,524	26,339	26,093	26,054	26,015
Projected Groundwater Production (85%)	22,439	22,545	22,388	22,179	22,146	22,113
Projected Import Water (15%)	3,960	3,979	3,951	3,914	3,908	3,902

Notes:
1. Projected demands are from Table 2-7.
2. Assumes BPP limits will remain at 85% through 2050.

The interagency water transfer feasibility study will look at a number of alternative flow Scenarios to determine different purchase price points for the City. Therefore, it is also notable that the City can and has reliably taken more than 3,900 AF of water through its OC-44 turnout in a single FY. MKN proposes to explore three flow Scenarios where the City can purchase up to 500 AFY, 1,000 AFY, and 2,500 AFY. Based on the proposed flow Scenarios, a successful water transfer program could reduce the City's reliance on MWDOC by approximately 63%. This can still result in a significant savings for the City of Huntington Beach.

City Interconnections with Mesa Water

According to the 2010 Mesa Water Emergency Interconnection Study, Mesa Water and the City maintain two (2) metered interconnections. The primary connection, and the one proposed to convey the MWRF water as part of the water transfer program, is the OC-44 pipeline. The OC-44 pipeline interconnection with the City has a capacity of 10,859 AFY and the OC-44 turnout to Mesa Water has a capacity of 43,438 AFY. Therefore, there is sufficient capacity to move water through the turnout connections between Mesa Water and the City of Huntington Beach.

2.5 Water Quality Evaluation

The City of Huntington Beach uses free chlorine to treat their water at the wells. Mesa Water District and MWD treats with chloramines. The City pulls chloraminated water from MWD using the OC-44 interconnection and already has infrastructure in place for water blending, so there would be no operational changes.

The City of Huntington Beach currently adds fluoride to its potable water supply in accordance with a municipal ordinance adopted in the 1970s. Imported water purchased through the MWD is generally fluoridated; however, there have been periods when fluoridation treatment was temporarily out of service. During those periods, ordinance requirements were still met due to naturally occurring fluoride present in local groundwater sources.

Mesa Water does not fluoridate its water supply. Based on historical groundwater quality data, naturally occurring fluoride concentrations are anticipated to be sufficient to meet applicable ordinance requirements and are not expected to create compliance issues. The City issues monthly reports documenting fluoride levels, and public feedback has indicated limited concern regarding low fluoride concentrations and a desire to discontinue active fluoridation.

As part of this project, Mesa Water District will not initiate or operate fluoridation facilities. All fluoridation-related operations, monitoring, and regulatory compliance will remain the responsibility of the City of Huntington Beach.

3.0 Infrastructure Assessment

3.1 Mesa Water System Evaluation

This section evaluates Mesa Water District's distribution system to assess its ability to supply water to its own customers, the City of Huntington Beach, and the City of Newport Beach using additional groundwater pumped from the deep aquifer at the MWRF, which can produce a maximum of approximately 5,750 gpm. The City of Newport Beach is included because Mesa Water is planning a future water transfer with the City of Newport Beach. Mesa Water's hydraulic model, developed and maintained using Autodesk's InfoWater Pro software (built on the Esri ArcGIS Pro platform), was provided to MKN as calibrated and complete. The model includes all major distribution system components, such as pipelines, hydrants, junction nodes, reservoirs, wells, and the MWRF. The proposed transfer to the City of Huntington Beach would occur via the OC-44 Pipeline and is estimated to require approximately 6,700 gpm of additional flow under peak conditions. The proposed transfer to the City of Newport Beach would deliver up to 3,000 gpm at peak conditions through a new interconnection at Whittier Avenue and 17th Street. Water transferred to Huntington Beach would be conveyed from the MWRF into Mesa Water's distribution system, routed through the OC-44 Pipeline via the Ranger Station at Adams Avenue and Ranger Lane, and ultimately delivered to the City's distribution system.

3.1.1 Model Scenarios

To complete a thorough hydraulic analysis of the Mesa Water Distribution System, the following Scenarios were developed:

- Scenario 1: Existing Mesa Water District Baseline Scenario.
- Scenario 2: Existing Mesa Water District Scenario with Interagency transfers to City of Huntington Beach and City of Newport Beach
- Scenario 3: Future Mesa Water District Scenario with Interagency transfers to City of Huntington Beach and City of Newport Beach

Scenario 1, originally developed by the Mesa Water District, serves as the base Scenario for Scenario 2 and Scenario 3. Scenario 1, identifies 2,700 gpm from the MWRF. The OC-44 pipeline is deactivated, there is no demand on the City of Newport Beach interconnection, and no PRV is in place to facilitate water transfer.

In Scenario 2, total MWRF flow increases to 5,750 gpm. Of this total, approximately 3,000 gpm is conveyed to the City of Newport Beach and 2,750 gpm to the City of Huntington Beach. The demand node connecting the OC-44 pipeline to Huntington Beach is set at 6,700 gpm, representing the maximum import rate, with the additional 3,950 gpm supplied by MWDOC. The Newport Beach interconnection, located at Whittier Avenue and 17th Street, can transfer a maximum of 3,000 gpm. To simulate the full 5,750 gpm exiting the MWRF under Scenario 2, the flow control valve at the MWRF was increased to this capacity. Under this Scenario, the MWRF is operated at its maximum capacity to supply both Huntington Beach and Newport Beach for their respective peak import rates, coincident with Mesa Water District's existing MDD. Since the MWRF is fully allocated to interagency transfers, it cannot supply Mesa Water District's distribution system, resulting in a 2,700 gpm supply deficit. This deficit is offset by activating Wells 3, 5 and 7, which were offline in the base Scenario 1.

In Scenario 3, the water portfolio, MWRF production, and interagency transfer volumes remain unchanged from Scenario 2. The only difference is that future demand conditions are applied.

Scenarios 1 and 2 use existing demand conditions based on Carollo's 2025 demand projections, while Scenario 3 reflects future demand conditions based on Carollo's 2050 projections, which were selected due to their conservative nature. Future water demands were developed by multiplying all existing demands by a factor of 1.26, consistent with Carollo's projected increase in water demand. A system map for Mesa Water District is shown in **Figure 3-1** below.

3.1.2 Model Settings

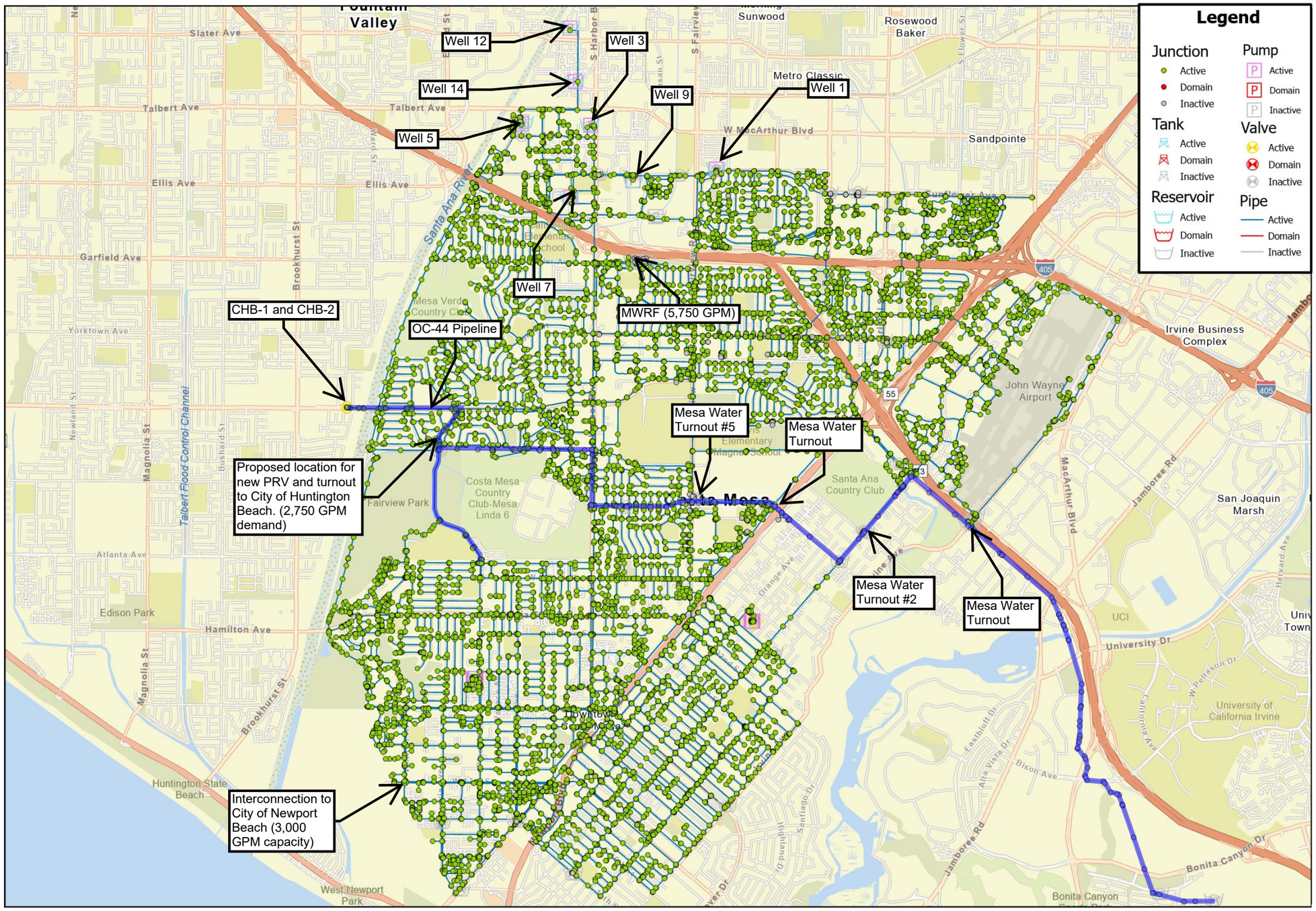
For the Huntington Beach transfer, the OC-44 pipeline was determined to be the most effective conveyance option. In Scenario 1, the OC-44 pipeline was deactivated. To enable it for Scenarios 2 and 3, query sets were created within the model so that any pipeline with its zone set to "OC-44" would activate the previously deactivated segment. Since the model already includes all of Mesa Water's infrastructure, applying this query set and updating the pipeline zone was sufficient to activate the OC-44 pipeline.

Mesa Water District's distribution system has a HGL of approximately 251 feet at the abandoned turnout located at Placentia Avenue and Swan Drive, where OC-44 water historically entered the Mesa Water distribution system. At this same location, the OC-44 pipeline has an HGL of approximately 478 feet, resulting in an HGL difference of 227 feet, which makes gravity transfer infeasible without pressure reducing infrastructure. To address this, a PRV was modeled adjacent to the abandoned turnout at Placentia Avenue and Swan Drive. The PRV reduces the downstream OC-44 HGL to 214 feet. With this adjustment, the HGL within Mesa Water District's distribution system is higher than the downstream OC-44 HGL, allowing a feasible gravity transfer into the OC-44 pipeline. The City of Huntington Beach OC-44 pipeline turnout has an HGL of 181 feet. Since the downstream OC-44 HGL remains higher than the City of Huntington Beach turnout HGL, gravity transfer from Mesa Water District to the City of Huntington Beach through the OC-44 pipeline is feasible.

Two potential locations were evaluated in the model for placement of the PRV. The first location was at Placentia Avenue and Swan Drive, and the second was at Fair Drive and Fairview Road. The Placentia

Avenue and Swan Drive location was selected due to its previously existing connection to the OC-44 pipeline, which minimizes additional infrastructure requirements for potential PRV station construction.

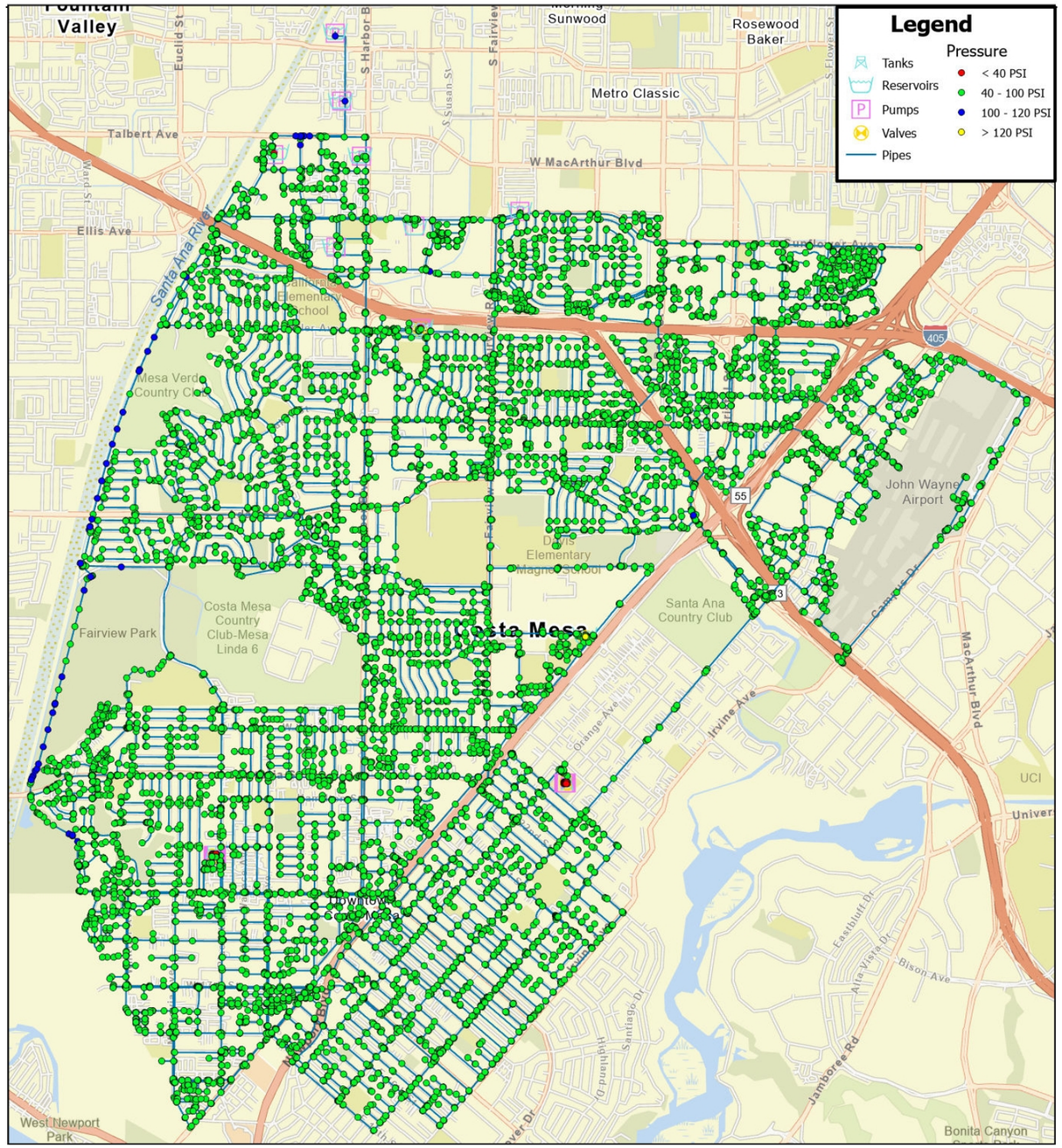
Figure 3-1: Mesa Water District System Map



3.1.3 Model Results Discussion

To accurately compare pressure and pipeline velocity changes among Scenarios 1, 2, and 3, system-wide pressure and velocity results at nodes and within pipes are presented in **Figure 3-2**, **Figure 3-3**, and **Figure 3-4**. The maximum, minimum, and average pressures, as well as pipeline velocities and flow rates, are summarized in **Table 3-1** for selected areas of the distribution system. These areas include key infrastructure such as wells, reservoirs, and the MWRF, along with regions containing dense pipeline networks. Specific pipeline segments and nodes associated with these facilities were analyzed to assess pressure drops and velocity changes under Scenarios 2 and 3. Raw hydraulic model output for these areas is provided in **Appendix D**.

Figure 3-2: Scenario 1 Pressures and Pipe Velocities Results



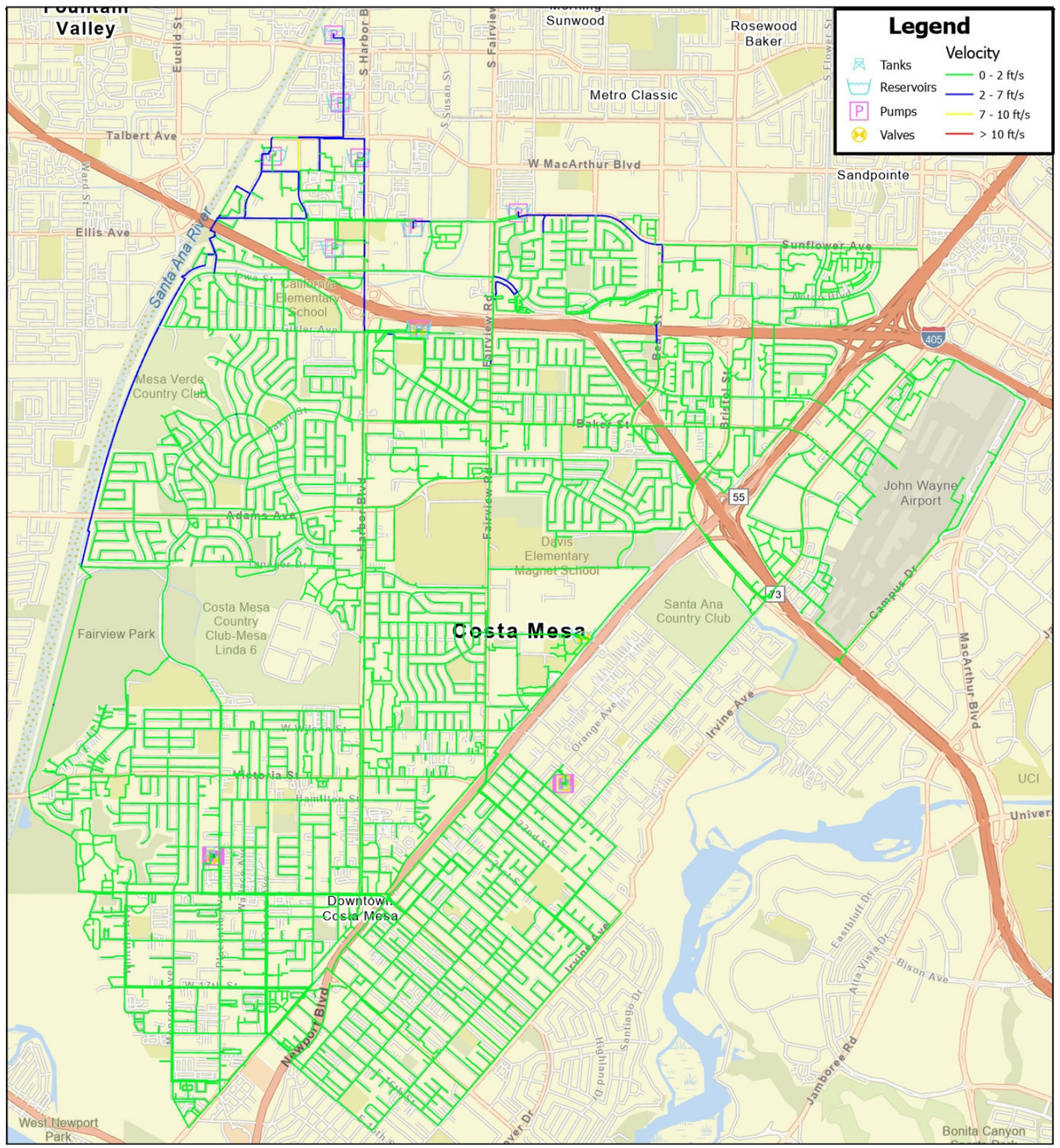
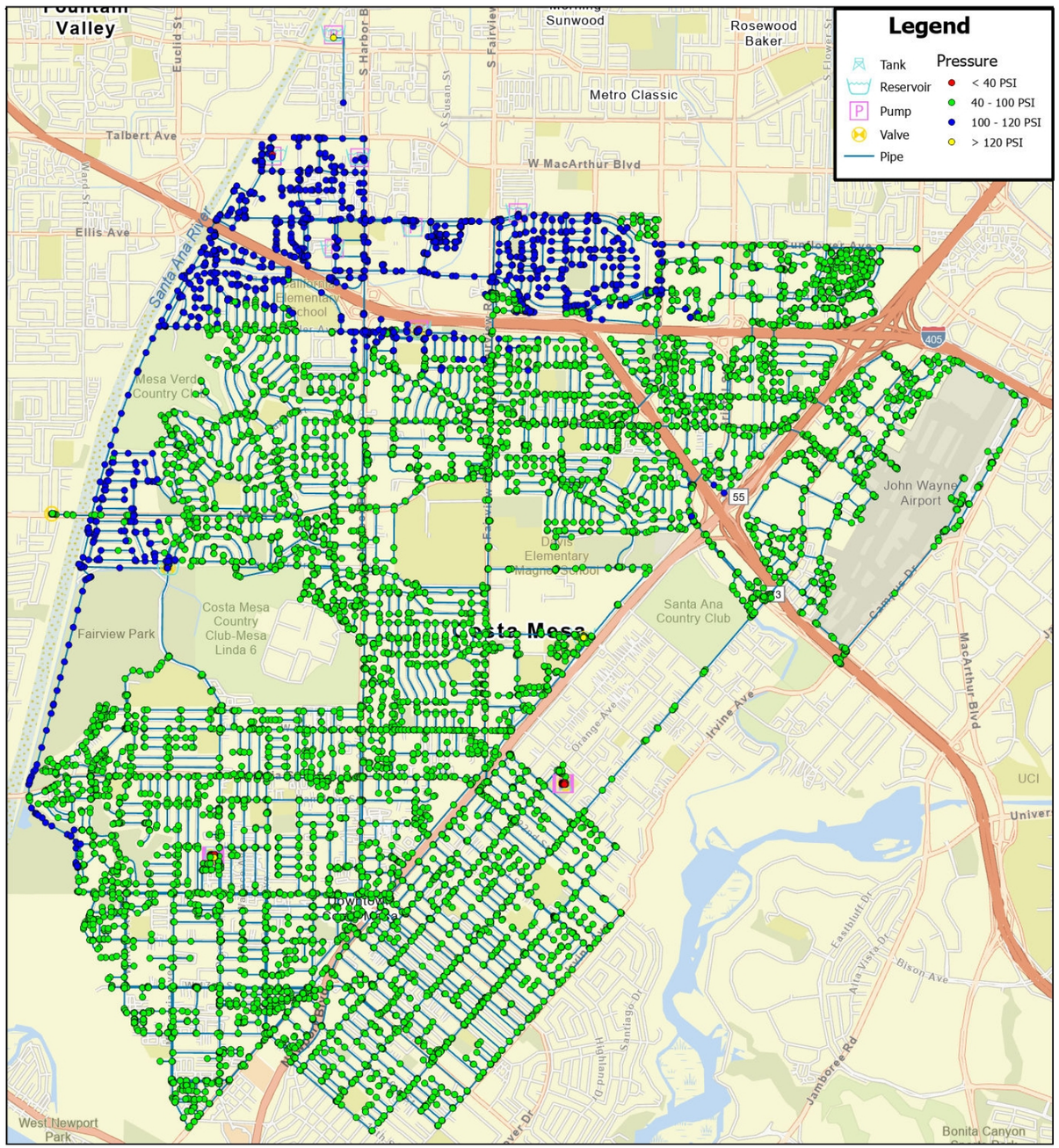


Figure 3-3: Scenario 2 Pressures and Pipe Velocities Results



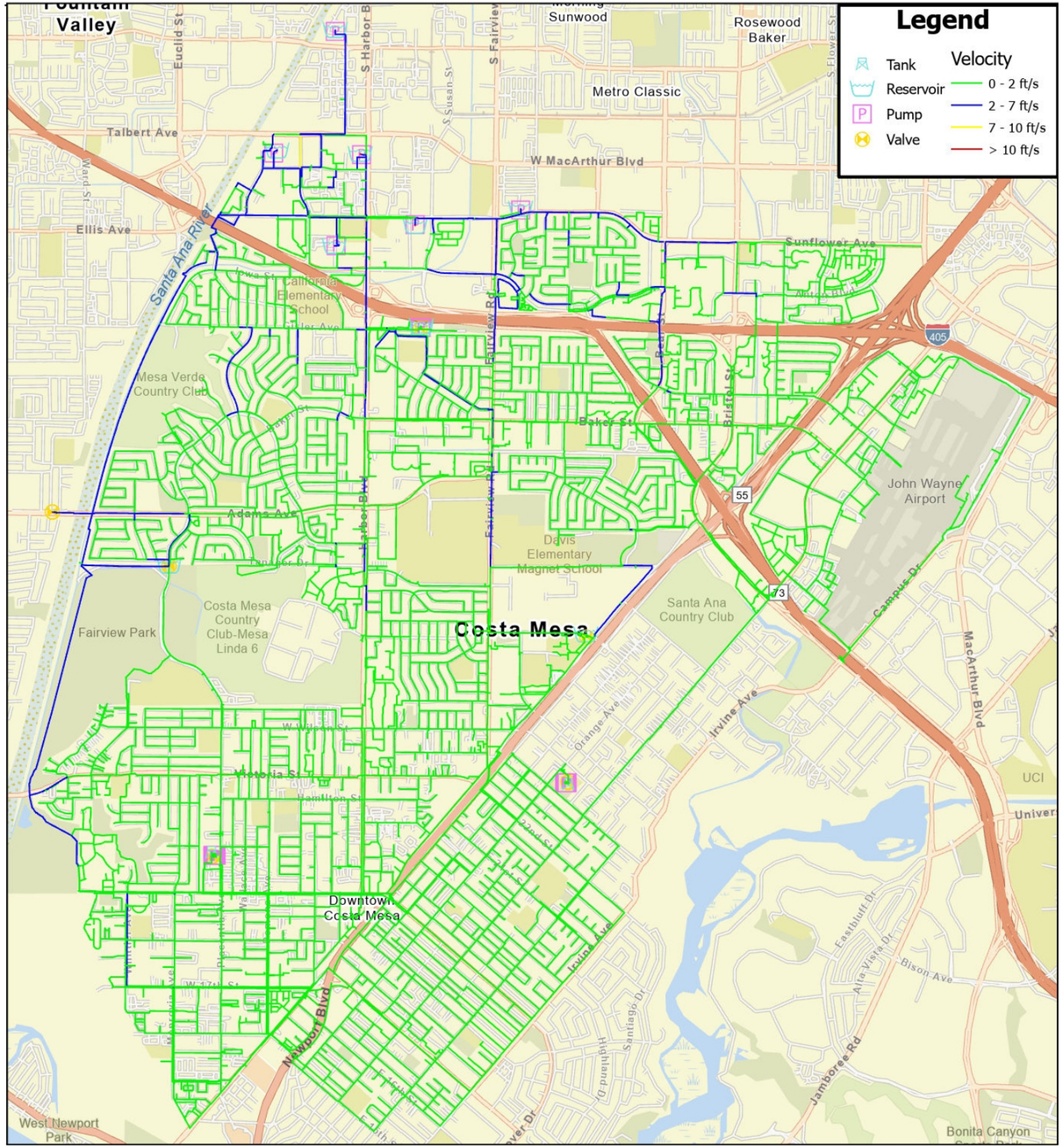
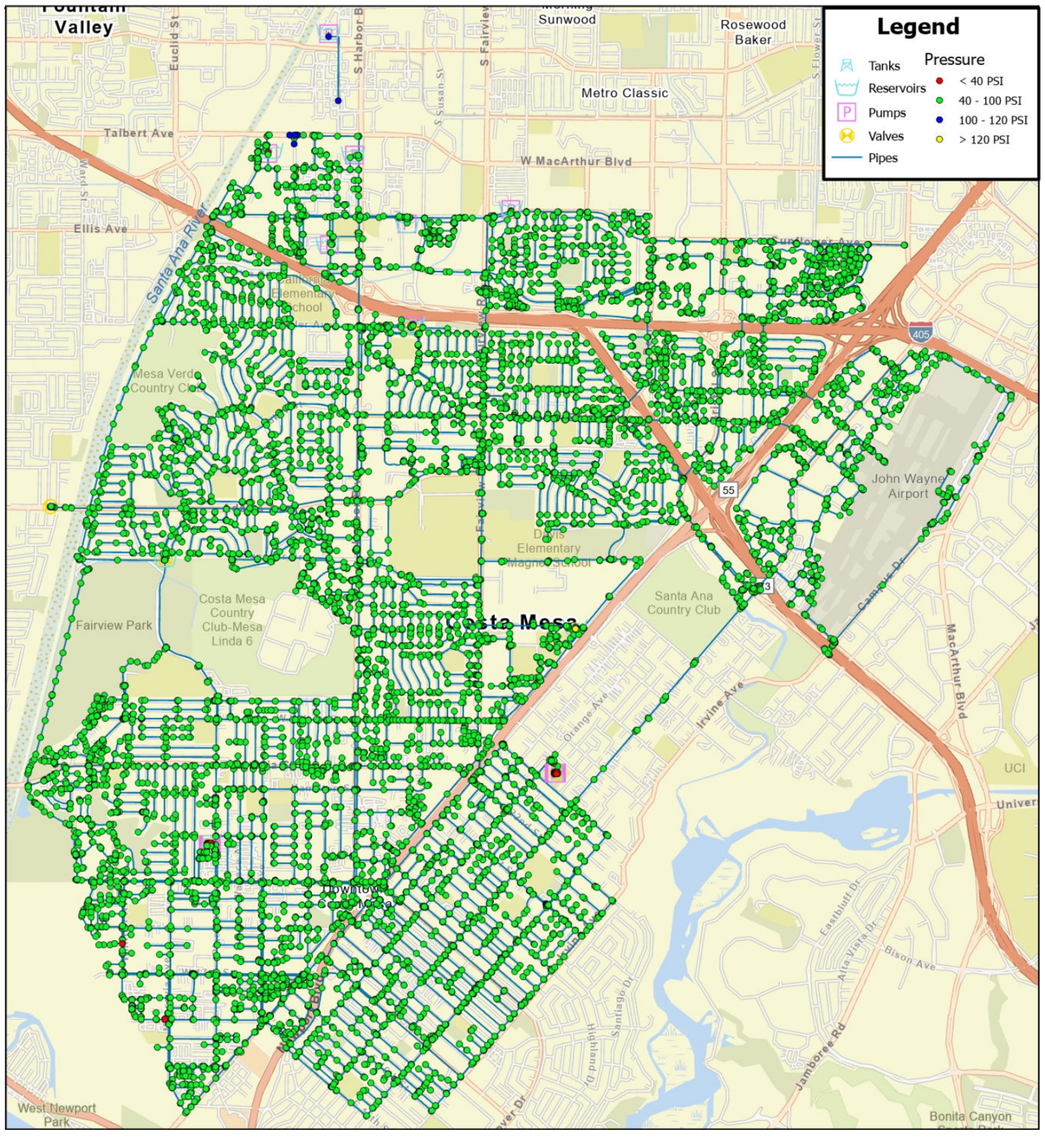


Figure 3-4: Scenario 3 Pressures and Pipe Velocities Results



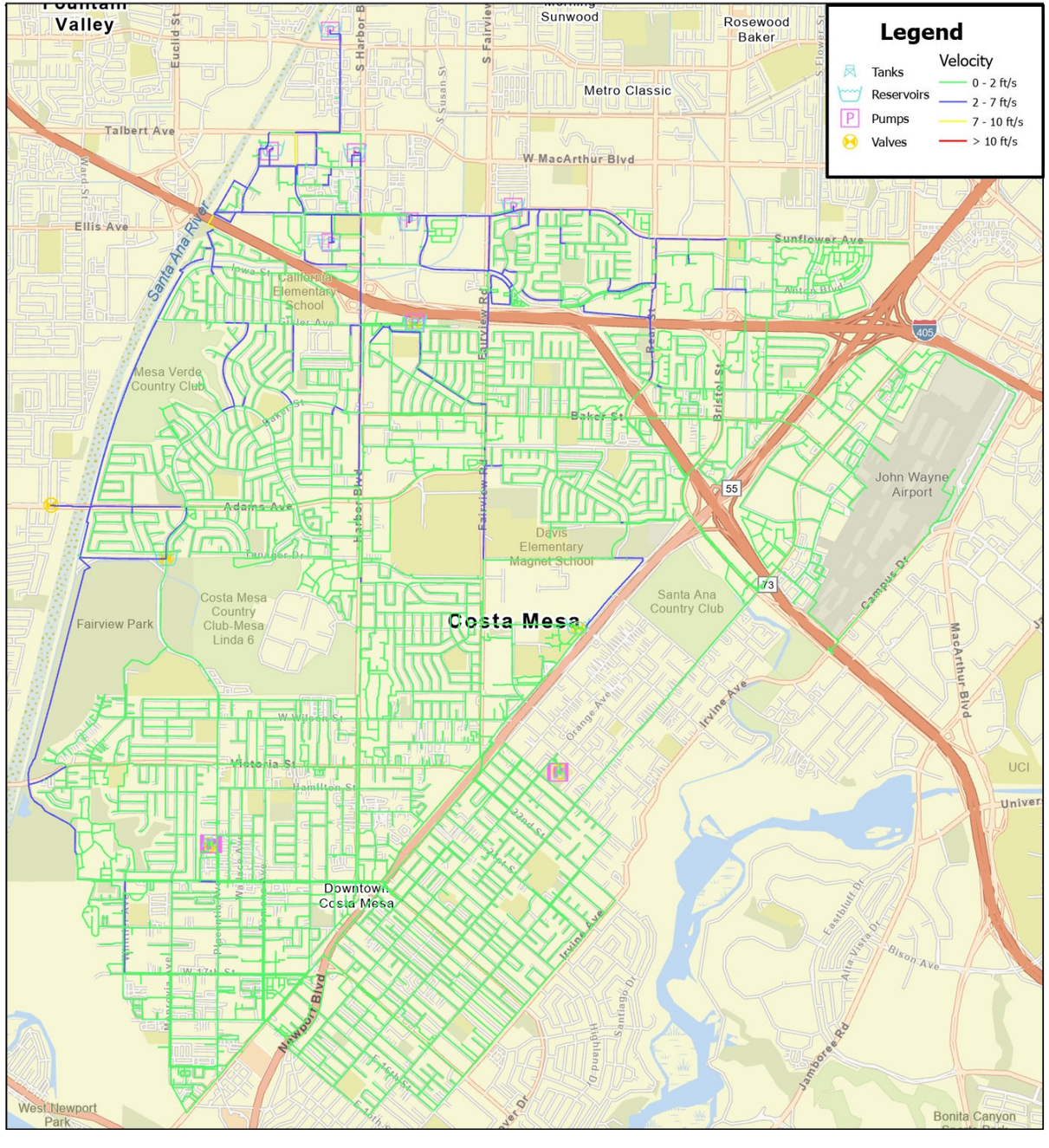


Table 3-1: Summary of Hydraulic Modeling Results

Area of Interest	Max, Min and Average Pressure in Scenario 1 (psi)	Max, Min and Average Pressure in Scenario 2 (psi)	Max, Min and Average Pressure in Scenario 3 (psi)	Max, Min and Average Pipeline Velocity in Scenario 1 (ft/s)	Max, Min and Average Pipeline Velocity in Scenario 2 (ft/s)	Max, Min and Average Pipeline Velocity in Scenario 3 (ft/s)	Max, Min and Average Flow Rates in Scenario 1 (gpm)	Max, Min and Average Flow Rates in Scenario 2 (gpm)	Max, Min and Average Flow Rates in Scenario 3 (gpm)
MWRF	**Max:** 98.96 **Min:** 2.17 **Average:** 83.81	**Max:** 106.61 **Min:** 2.17 **Average:** 90.49	**Max:** 89.48 **Min:** 2.17 **Average:** 75.50	**Max:** 2.76 **Min:** 0 **Average:** 0.65	**Max:** 4.08 **Min:** 0 **Average:** 0.95	**Max:** 4.08 **Min:** 0 **Average:** 0.95	**Max:** 3,900 **Min:** 0 **Average:** 1,595	**Max:** 5,750 **Min:** 0 **Average:** 2,352	**Max:** 5,750 **Min:** 0 **Average:** 2,352
South System	**Max:** 65.86 **Min:** 56.80 **Average:** 61.67	**Max:** 67.50 **Min:** 58.49 **Average:** 63.33	**Max:** 51.28 **Min:** 42.26 **Average:** 47.11	**Max:** 0.67 **Min:** 0 **Average:** 0.12	**Max:** 1.24 **Min:** 0 **Average:** 0.25	**Max:** 1.14 **Min:** 0 Average: 0.25	**Max:** 208 **Min:** 0 **Average:** 21	**Max:** 779 **Min:** 0 **Average:** 72.06	**Max:** 717 **Min:** 0 **Average:** 67.22
Mid System	**Max:** 81.54 **Min:** 71.77 **Average:** 76.67	**Max:** 86.15 **Min:** 76.43 **Average:** 81.31	**Max:** 68.67 **Min:** 58.94 **Average:** 63.82	**Max:** 0.41 **Min:** 0 **Average:** 0.13	**Max:** 0.60 **Min:** 0 **Average:** 0.13	**Max:** 0.62 **Min:** 0 **Average:** 0.14	**Max:** 138 **Min:** 0 **Average:** 29	**Max:** 142 **Min:** 0 **Average:** 27.96	**Max:** 149 **Min:** 0 **Average:** 29.28
Reservoir 1	**Max:** 89.53 **Min:** 1.46 **Average:** 56.57	**Max:** 67.11 **Min:** 1.46 **Average:** 55.08	**Max:** 51.36 **Min:** 1.46 **Average:** 42.16	**Max:** 3.17 **Min:** 0 **Average:** 0.38	**Max:** 0.39 **Min:** 0 **Average:** 0.10	**Max:** 1.91 **Min:** 0 **Average:** 0.64	**Max:** 1,117 **Min:** 0 **Average:** 358	**Max:** 187 **Min:** 0 **Average:** 36.81	**Max:** 2,691 **Min:** 0 **Average:** 835.95
Reservoir 2	**Max:** 75.15 **Min:** 0 **Average:** 52.00	**Max:** 77.60 **Min:** 0 **Average:** 53.12	**Max:** 61.2 **Min:** 0 **Average:** 40.80	**Max:** 0.32 **Min:** 0 **Average:** 0.03	**Max:** 0.70 **Min:** 0 **Average:** 0.06	**Max:** 0.60 **Min:** 0 **Average:** 0.05	**Max:** 74 **Min:** 0 **Average:** 5.60	**Max:** 196 **Min:** 0 **Average:** 13.37	**Max:** 157.89 **Min:** 0 **Average:** 11.09
Well 1	**Max:** 97.18 **Min:** 95.97 **Average:** 96.78	**Max:** 106.21 **Min:** 105.01 **Average:** 105.82	**Max:** 90.10 **Min:** 88.84 **Average:** 89.68	**Max:** 6.44 **Min:** 1.13 **Average:** 4.40	**Max:** 6.11 **Min:** 0.66 **Average:** 4.47	**Max:** 6.67 **Min:** 0.69 **Average:** 4.89	**Max:** 2,970 **Min:** 193 **Average:** 1,718	**Max:** 3,840 **Min:** 102 **Average:** 1,873	**Max:** 4,225 **Min:** 107.65 **Average:** 2,052
Well 3	**Max:** 96.43 **Min:** 93.52 **Average:** 95.49	**Max:** 113.24 **Min:** 109.41 **Average:** 111.55	**Max:** 98.37 **Min:** 94.43 **Average:** 96.59	**Max:** 2.90 **Min:** 0 **Average:** 1.13	**Max:** 6.41 **Min:** 0.04 **Average:** 3.35	**Max:** 6.77 **Min:** 0.09 **Average:** 3.54	**Max:** 1,023 **Min:** 0 **Average:** 332	**Max:** 2,260 **Min:** 8.71 **Average:** 1,199	**Max:** 2,386 **Min:** 22.43 **Average:** 1,269
Well 5	**Max:** 99.36 **Min:** 0 **Average:** 87.67	**Max:** 111.10 **Min:** 0 **Average:** 96.83	**Max:** 96.25 **Min:** 0 **Average:** 83.44	**Max:** 3.27 **Min:** 0 **Average:** 1.59	**Max:** 5.30 **Min:** 1.47 **Average:** 3.28	**Max:** 6.57 **Min:** 1.68 **Average:** 3.67	**Max:** 2,592 **Min:** 0 **Average:** 1,069	**Max:** 4,036 **Min:** 230 **Average:** 2,070	**Max:** 4,360 **Min:** 263 **Average:** 2,290
Well 7	**Max:** 100.3 **Min:** 97.02 **Average:** 98.45	**Max:** 113.78 **Min:** 108.55 **Average:** 111.02	**Max:** 98.97 **Min:** 93.15 **Average:** 95.82	**Max:** 0.59 **Min:** 0 **Average:** 0.26	**Max:** 5.32 **Min:** 2.38 **Average:** 4.17	**Max:** 5.85 **Min:** 2.72 **Average:** 4.58	**Max:** 207 **Min:** 0 **Average:** 91	**Max:** 1,876 **Min:** 837 **Average:** 1,471	**Max:** 2,061 **Min:** 957 **Average:** 1,615
Well 9	**Max:** 98.86 **Min:** 96.28 **Average:** 97.09	**Max:** 109.41 **Min:** 106.45 **Average:** 107.61	**Max:** 93.82 **Min:** 90.64 **Average:** 91.94	**Max:** 5.22 **Min:** 0.02 **Average:** 1.42	**Max:** 4.99 **Min:** 0.42 **Average:** 2.33	**Max:** 5.39 **Min:** 0.48 **Average:** 2.58	**Max:** 1,936 **Min:** 7.16 **Average:** 802	**Max:** 3,207 **Min:** 332 **Average:** 1,370	**Max:** 3,557 **Min:** 379.41 **Average:** 1,522
Well 12	**Max:** 109.59 **Min:** 109.59 **Average:** 109.59	**Max:** 121.12 **Min:** 121.12 **Average:** 121.12	**Max:** 107.18 **Min:** 107.18 **Average:** 107.18	**Max:** 6.2 **Min:** 6.2 **Average:** 6.2	**Max:** 6.2 **Min:** 6.2 **Average:** 6.2	**Max:** 6.2 **Min:** 6.2 **Average:** 6.2	**Max:** 3,885 **Min:** 3,885 **Average:** 3,885	**Max:** 3,885 **Min:** 3,885 **Average:** 3,885	**Max:** 3,885 **Min:** 3,885 **Average:** 3,885
Well 14	**Max:** 103.71 **Min:** 95.82 **Average:** 101.61	**Max:** 116.02 **Min:** 107.81 **Average:** 114.03	**Max:** 101.18 **Min:** 92.73 **Average:** 99.15	**Max:** 7.09 **Min:** 1.73 **Average:** 4.27	**Max:** 7.51 **Min:** 1.64 **Average:** 3.72	**Max:** 7.77 **Min:** 1.76 **Average:** 3.86	**Max:** 7,729 **Min:** 610 **Average:** 3,019	**Max:** 7,506 **Min:** 658 **Average:** 2,858	**Max:** 7,769 **Min:** 681.02 **Average:** 2,970

Note:

1. Minimum pressures shown in the hydraulic model do not indicate that system pressures drop to zero. Zero or near-zero values are modeling artifacts representing nodes upstream of closed or isolated valves and do not reflect actual operating pressures in the active distribution system.
2. Pipeline velocities and pressures were observed that far exceeded the maximum criteria. These values are observed within the pumps and do not represent pressures in the distribution system.
3. Some reported well flow rates may exceed the maximum allowable flow rate for the respective wells. These values do not represent the actual flow rate at the pump or within the well itself, but rather the flow occurring in the connected piping and in areas surrounding the well.

Based on the hydraulic model results and comparison of data between Scenario 1 and Scenario 2, there is an increase in system pressures from Scenario 1 to Scenario 2. The increase is a 5 to 10 psi increase across most areas; however, these pressures remain within the applicable design criteria, as summarized in **Table 3-2**, and therefore do not present any operational concerns. Higher pressures are observed in piping immediately surrounding the wells, which is expected under increased pumping conditions. Conversely, lower pressures were observed in reservoirs due to their high elevation. Pipeline velocities also show an increase between the two Scenarios but remain well within the operating criterion of less than 7 ft/s and are not considered a concern. Although the maximum velocity within Well 14 exceeds 7 ft/s in both Scenario 1 and Scenario 2 and is slightly higher in Scenario 2, the increase is minimal and does not represent a new or additional deficiency in the distribution system.

The hydraulic model results and comparison between Scenario 1 and Scenario 3 indicate an overall decrease in system pressures. Across most areas, this decrease ranges from approximately 5 to 15 psi; however, all pressures remain within the design criteria, as summarized in **Table 3-2**, and therefore do not pose any operational concerns. Elevated pressures are observed in piping surrounding the wells, which is expected under the current conditions. Lower pressures were observed in the reservoir regions due to their higher elevations. Pipeline velocities also show a general increase but remain well within the operating criterion of less than 7 ft/s and do not present a concern. The maximum velocity in the Well 14 exceeds 7 ft/s in both Scenario 1 and Scenario 3 and is slightly higher in Scenario 3; however, the increase is minimal and does not introduce a new deficiency to the distribution system.

Table 3-2: Junction Pressure and Pipeline Criteria

Scenario	Min Pressure (psi)	Max Pressure (psi)	Max Pipeline Velocity (ft/s)
MDD	40	120	7.00

To have a reliable water transfer and overcome the head difference of the OC-44 pipeline, a PRV was placed in the hydraulic model as shown in **Figure 3-5** below. This allows for Mesa Water District to pump into the OC-44 pipeline gravity feeding the City of Huntington Beach demand node.

After adding the PRV to the model for Scenarios 2 and 3, upstream pressure and flow data were collected for V22 (PRV) and V24 (FCV) to evaluate whether Mesa Water District system can meet demand under these Scenarios. Based on the valve performance graphs shown in **Figures 3-6, 3-7, 3-8, 3-9**, the system can meet demands and transfer water to the City of Newport Beach and City of Huntington Beach for Scenario 2 under all hours of the day.

For Scenario 3, during peak-hour demand, the FCV upstream pressure experiences a dip, indicating supplemental water from MWD may be required during this period. The PRV station can supply water throughout most of the day; however, during peak-hour demand, additional water from MWD would be necessary. If a booster pump station were installed instead of the PRV, the system would be able to meet demand during all hours, including peak periods, without the need for supplemental water from MWD.

Figure 3-5: Proposed PRV Schematic

Figure 3-6: Scenario 2 Flow Graph Valve V22

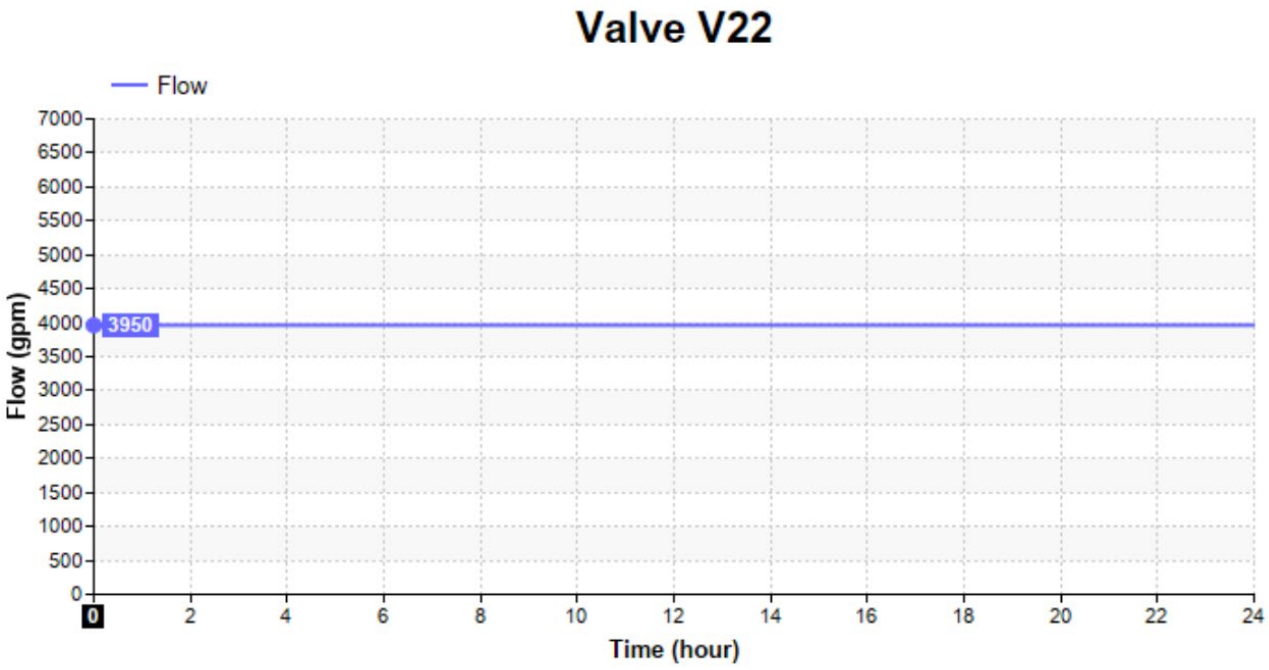


Figure 3-7: Scenario 2 Upstream Pressure Graph Valve V24

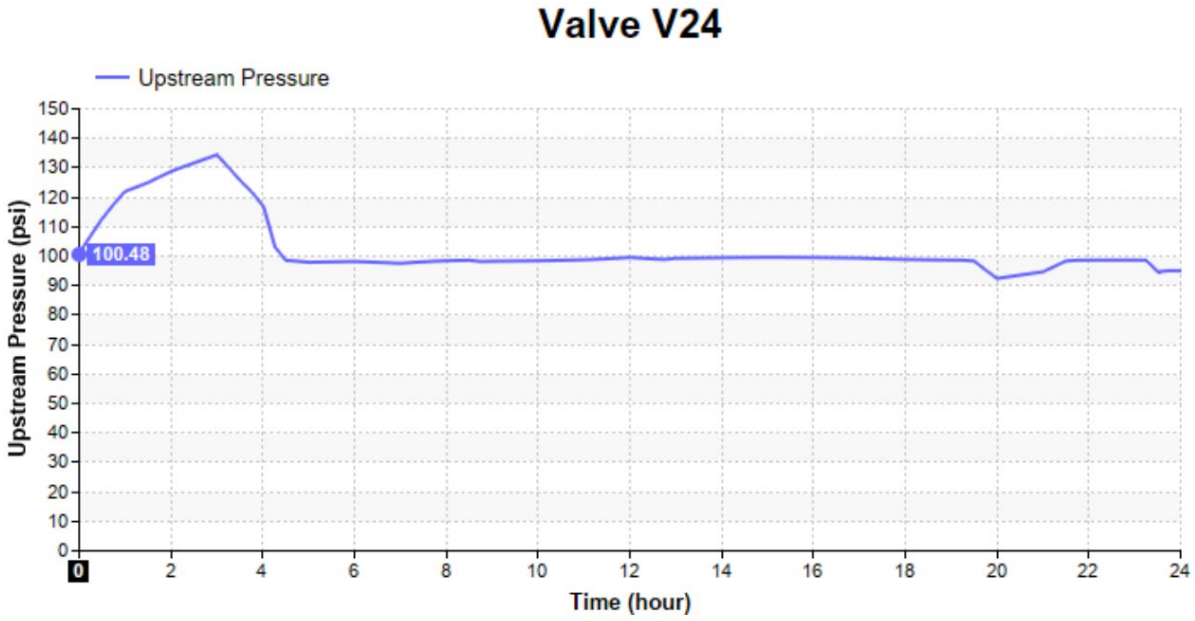


Figure 3-8: Scenario 3 Flow on Graph Valve V22

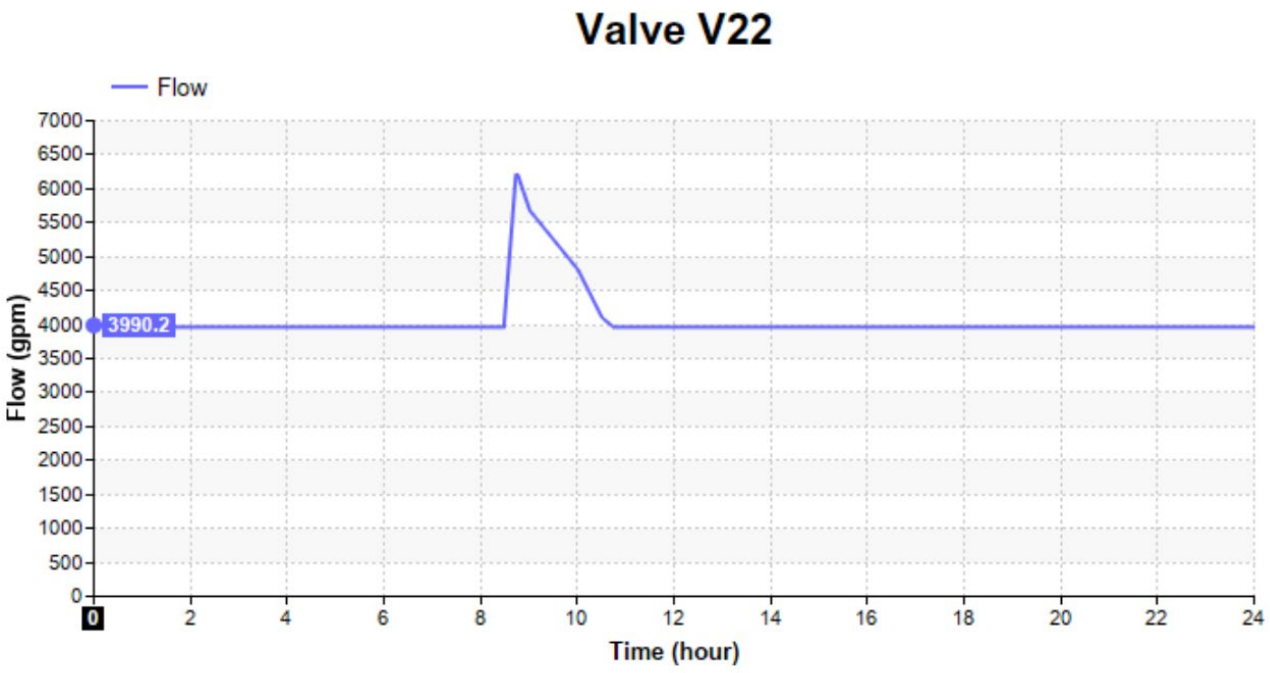
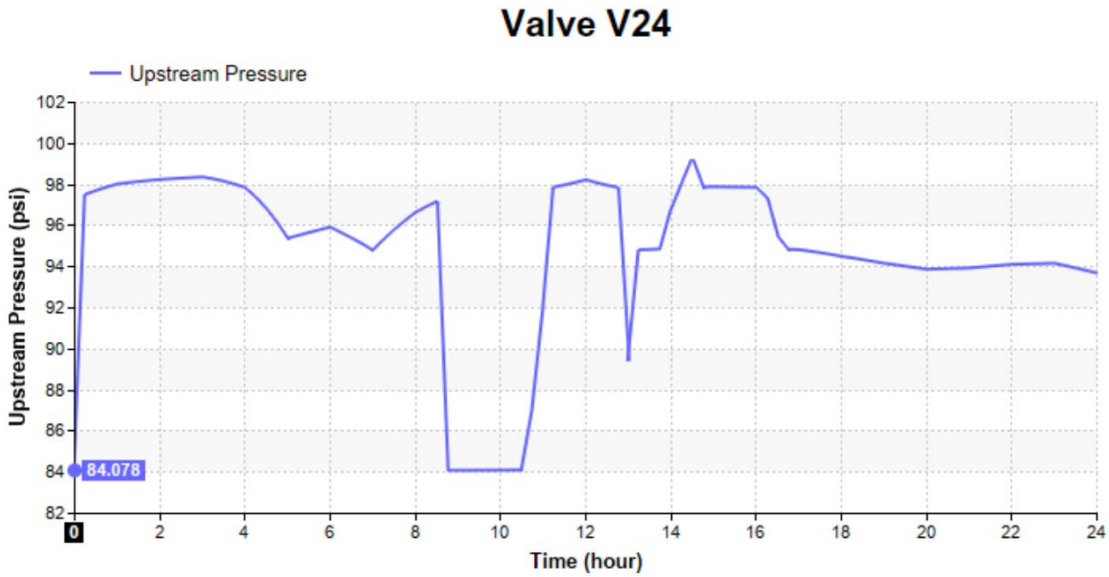


Figure 3-9: Scenario 3 Upstream Pressure Graph Valve V24



3.2 City of Huntington Beach System Evaluation

This section evaluates whether the City of Huntington Beach water distribution system can import water from the Mesa Water District without operational issues. The hydraulic model was fully developed and calibrated in Bentley WaterCAD and includes all nodes, pipelines, wells, and reservoirs within the distribution system.

3.2.1 Model Scenario and Settings

In recent import water estimates, the City of Huntington Beach imported approximately 4,497 gpm (7,255 AFY) of water without any operational issues with up to 6,700 gpm during peak transfer. To accurately assess the system response to a 6,700 gpm demand at the OC-44 connection, two Scenarios were analyzed:

- Scenario 1: Existing Demand Scenario with an OC-44 pipeline demand of 2,700 gpm.
- Scenario 2: Existing Demand Scenario with an OC-44 pipeline demand of 6,700 gpm

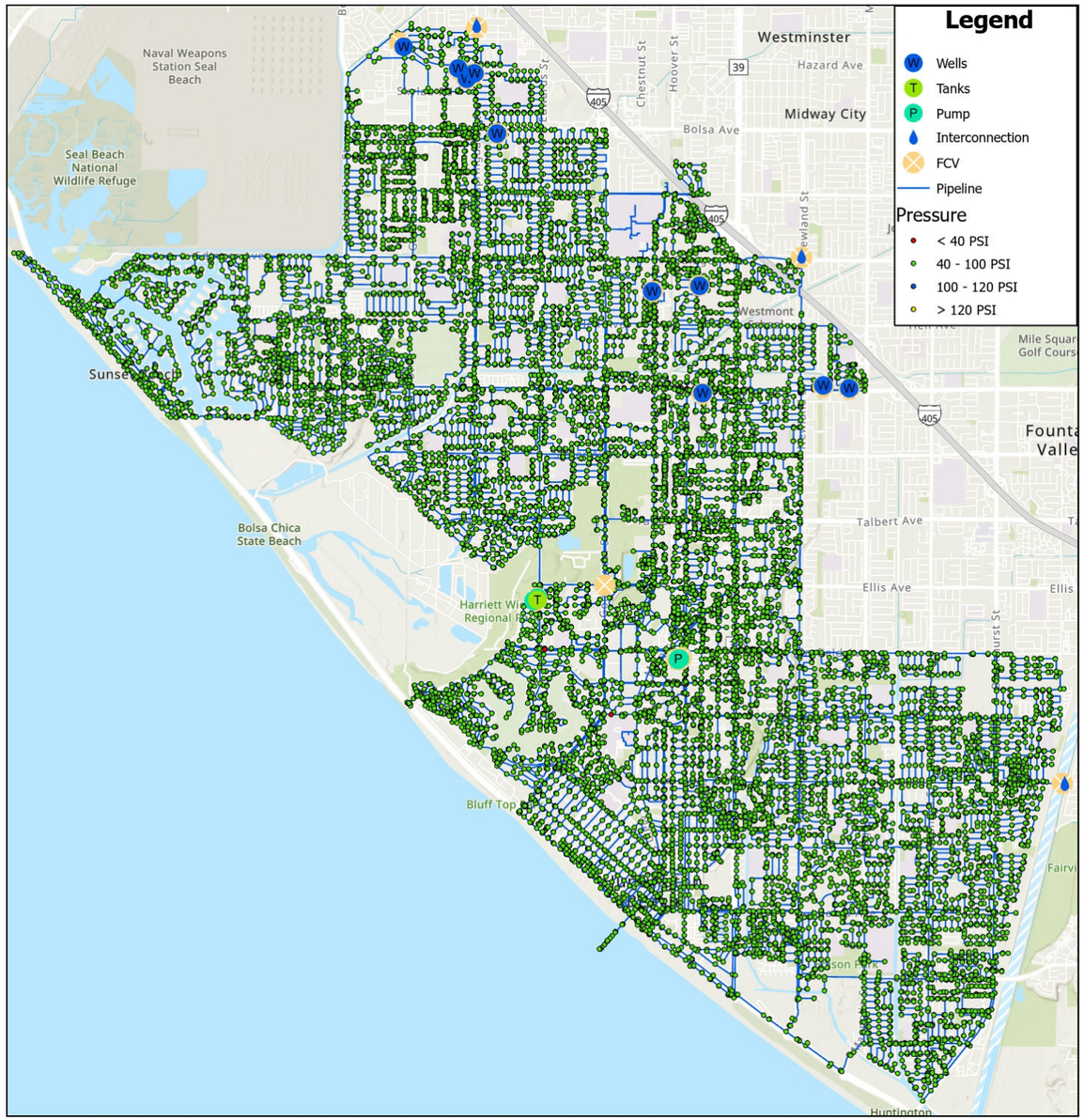
Scenario 1 was originally developed by the City and serves as the parent Scenario for Scenario 2. Under Scenario 1 conditions, the City imports 2,700 gpm of MWDOC water, however hydraulically there is no difference whether water is imported from MWDOC or Mesa Water District. Under Scenario 2 conditions, the imported flow is increased to 6,700 gpm from Mesa Water District. This import value is the maximum import rate Huntington Beach will have during operation.

At the node representing the OC-44 connection, a demand of 2,700 gpm was applied for Scenario 1 which was the base Scenario, while an increased demand of 6,700 gpm was applied for Scenario 2.

3.2.2 Model Results Discussion

To accurately compare pressure and pipeline velocity changes among Scenarios 1 and 2, system-wide pressure and velocity results at nodes and within pipes are presented in **Figure 3-10** and **Figure 3-11**.

Figure 3-10: Scenario 1 Pressure and Velocity Results



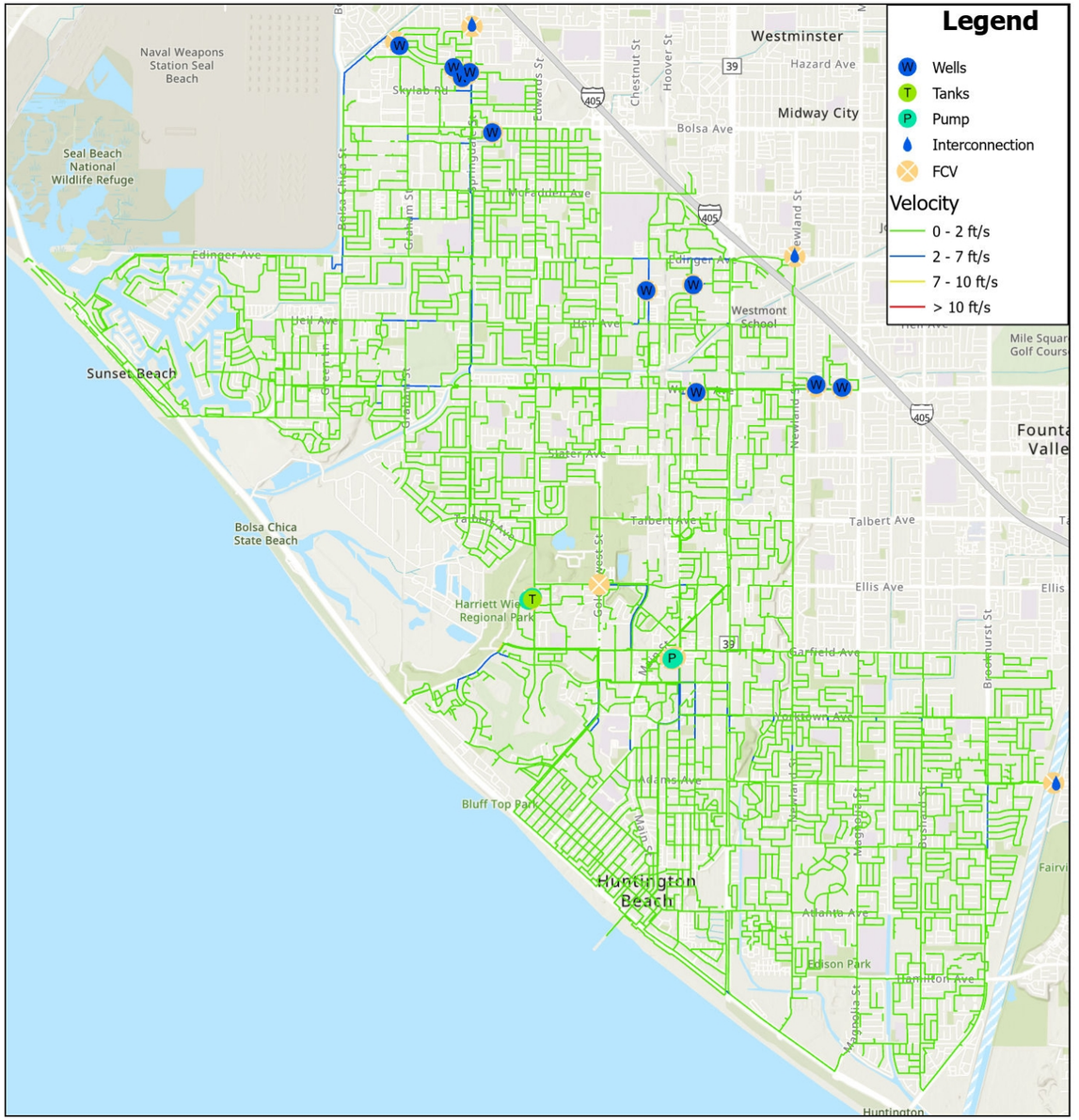
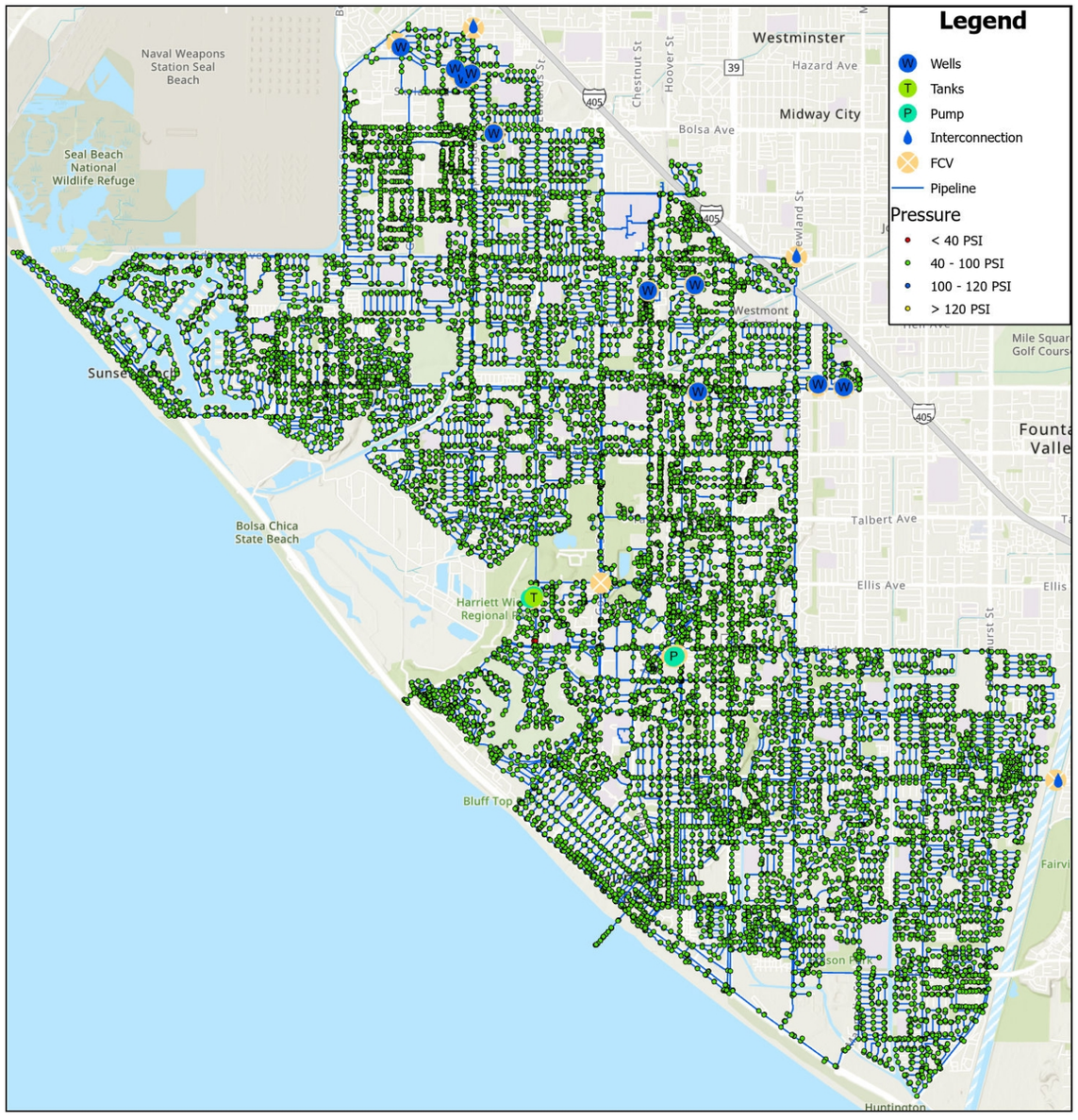
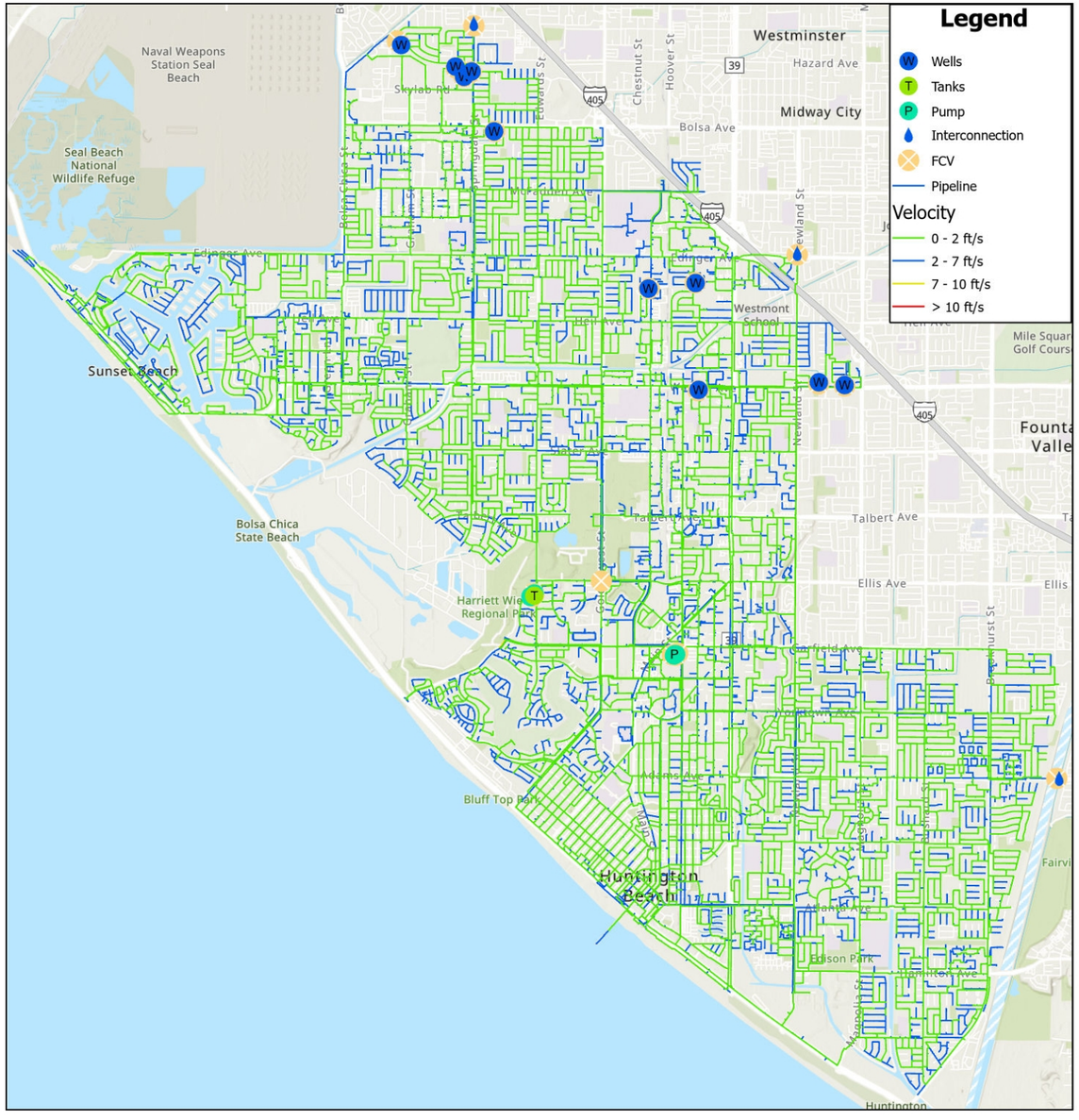


Figure 3-11: Scenario 2 Pressure and Velocity Results





The maximum, minimum, and average pressures, as well as pipeline velocities and flow rates, for selected areas of the distribution system are presented in **Table 3-3**. These areas include key infrastructure such as wells and reservoirs, along with regions containing dense pipeline networks. Specific pipeline segments and nodes associated with these facilities were analyzed to assess pressure drops and velocity changes under Scenarios 2. Raw hydraulic model output for these areas is provided in **Appendix E**.

Table 3-3: Summary of Hydraulic Modeling Results

Area of Interest Number	Max, Min and Average Pressure in Scenario 1 (psi)	Max, Min and Average Pressure in Scenario 2 (psi)	Max, Min and Average Pipeline Velocity of in Scenario 1 (ft/s)	Max, Min and Average Pipeline Velocity of in Scenario 2 (ft/s)	Max, Min and Average Flow Rates of in Scenario 1 (gpm)	Max, Min and Average Flow Rates of in Scenario 2 (gpm)
1	**Max:** 74.70 **Min:** 0 **Average:** 71.31	**Max:** 76.10 **Min:** 65.10 **Average:** 73.18	**Max:** 5.62 **Min:** 0 **Average:** 0.23	**Max:** 6.35 **Min:** 0 **Average:** 0.23	**Max:** 817.92 **Min:** 0 **Average:** 52.35	**Max:** 871.22 **Min:** 0 **Average:** 52.43
2	**Max:** 101.10 **Min:** 0 **Average:** 59.38	**Max:** 101.20 **Min:** 0 **Average:** 60.45	**Max:** 14.84 **Min:** 0 **Average:** 0.43	**Max:** 13.42 **Min:** 0 **Average:** 0.40	**Max:** 6,443 **Min:** 0 **Average:** 134.53	**Max:** 4,831 **Min:** 0 **Average:** 113.72
3	**Max:** 80.01 **Min:** 0 **Average:** 69.85	**Max:** 80.50 **Min:** 0 **Average:** 70.25	**Max:** 4.59 **Min:** 0 **Average:** 0.32	**Max:** 4.53 **Min:** 0 **Average:** 0.32	**Max:** 1,624 **Min:** 0 **Average:** 70.75	**Max:** 1,643 **Min:** 0 **Average:** 70.70
4	**Max:** 77.70 **Min:** 54.20 **Average:** 72.35	**Max:** 79.20 **Min:** 55.50 **Average:** 74.03	**Max:** 4.33 **Min:** 0 **Average:** 0.43	**Max:** 4.37 **Min:** 0 **Average:** 0.45	**Max:** 3,352 **Min:** 0 **Average:** 85.61	**Max:** 1,311 **Min:** 0 **Average:** 80.64
5	**Max:** 81.30 **Min:** 59.40 **Average:** 70.53	**Max:** 81.90 **Min:** 59.90 **Average:** 71.11	**Max:** 5.67 **Min:** 0 **Average:** 0.34	**Max:** 5.67 **Min:** 0 **Average:** 0.34	**Max:** 4,185 **Min:** 0 **Average:** 119.67	**Max:** 4,111 **Min:** 0 **Average:** 119.41
6	**Max:** 79.90 **Min:** 53.80 **Average:** 76.20	**Max:** 80.50 **Min:** 54.20 **Average:** 76.63	**Max:** 1.84 **Min:** 0 **Average:** 0.27	**Max:** 1.81 **Min:** 0 **Average:** 0.24	**Max:** 704.97 **Min:** 0 **Average:** 58.66	**Max:** 725.45 **Min:** 0 **Average:** 54.26

Table 3-4: Junction Pressure and Pipeline Criteria			
Scenario	**Min Pressure (psi)**	**Max Pressure (psi)**	**Max Pipeline Velocity (ft/s)**
MDD	40	120	7.00

Based on the results of Scenario 1 and Scenario 2, minimal changes in pressure were observed across the areas, and all values remain within the criteria listed in **Table 3-4**. The only area of potential concern is area 2, where pipeline velocities exceed 7 ft/s. In Scenario 1, the maximum velocity in this area was already above 7 ft/s; in Scenario 2, the velocity decreases slightly but remains above 7 ft/s. Therefore, no new deficiencies were introduced.

Since the HGL of Huntington Beach is lower than the OC-44 pipeline, the transfer to the city is feasible given the improvements in Mesa Water District.

3.3 Identify System Improvements

If the City of Huntington Beach would like to rely only on Mesa Water for all hours of the day, MKN proposes the installation of a pump station capable of delivering 2,750 gpm of water at approximately 310 feet of head This assumes that no PRV will be installed to reduce pressure in OC-44. Additionally, this pump station should be equipped with variable frequency drive (VFD) motors to accommodate the fluctuations in the OC-44 Pipeline's HGL. It is anticipated that the VFDs will be able to save on energy cost throughout the life of the pump station. This pump station would be entirely constructed, planned, and operated by Mesa Water District with coordination with the City of Huntington Beach and DDW.

However, if the City of Huntington Beach is willing to receive MWDOC water during peak demand, the PRV station is the most economical option. If this option is selected, the City of Huntington Beach would receive water for approximately 20 hours per day, with MWDOC supplementing supply during the remaining 4 hours due to lack of demand from Mesa Water District's peak demand time period. This operational condition is only required during peak demand months.

4.0 Regulatory and Environmental Assessment

Mesa Water District, the City of Huntington Beach, and MKN held a joint meeting, in-part, to discuss the regulatory and environmental framework for an interagency water transfer between Mesa Water and the City. The discussions held at the joint meeting helped identify applicable regulations, potential compliance issues, environmental impacts, and necessary permits. This section identifies MKN's approach to the regulatory and environmental framework as well as highlighting activities and mitigation measures for navigating to a successful water transfer program.

4.1 Purpose and Environmental Setting

MKN reviewed the November 2010 Initial Study/Addendum to the Final Environmental Impact Report (Initial Study/Addendum) for the Mesa Water Reliability Facility (MWRF). The Initial Study/Addendum was prepared to validate the original Environmental Impact Report or Negative Declaration. The Interagency Water Transfer Project is proposed to take place in the cities of Costa Mesa and Huntington Beach, specifically Mesa Water District's MWRF where water will be pumped out of OCWD's deep groundwater aquifer, the OC-44 pipeline which travels south-west through Costa Mesa to the OC-44 turnout, and the City of Huntington Beach.

The City of Huntington Beach and the City of Costa Mesa have populations estimated at 193,134 and 110,321 respectively. Both Cities are located along the coast in southern California and share similar weather patterns, precipitation, seismic activity, and air quality characteristics. The area impacted most significantly by the interagency water transfer program is OCWD's deep groundwater aquifer. The water transfer program intends to increase current operation to include up to an additional 2,500 AF of water each year.

4.2 Environmental Impacts

The Initial Study/Addendum identifies that the final EIR analyzed the environmental impacts associated with the construction and operation of the MWRF with a total capacity of 10,500 gpm or 16,905 AFY. The current production capacity of the MWRF is approximately 5,880 gpm or 9,484 AFY after discounting the discharge to waste. The MWRF produced approximately 2,500 AF of water in 2025, roughly 26% of its total capacity, and is anticipated to produce approximately 2,900 AF in 2050 to meet 15% of Mesa Water's total demands. Increasing the MWRF production by 2,500 AFY to supplement the City's demand needs and reduce MWDOC import water supply would be within the existing capacity of the MWRF.

The feasibility study has identified that the OC-44 turnout has sufficient capacity to deliver water to the City, so no pipeline construction is required. However, a new pump station, particularly a pump station site, may have some environmental impacts related to drainage and emissions depending on the following factors:

- Will the proposed pump station site create impervious surface?
- Will the pumps operate on electric motors or with natural gas motors?
- Will an emergency generator be required to limit pump station outages, or can the City revert to other water sources in the event of an outage?

A new PRV station may have some environmental impacts depending on the following factors:

- Will the proposed PRV station create impervious surface?
- Will the PRV equipment generate noticeable noise during operation?
- Will any drainage modifications be required to accommodate the PRV station?
- Will maintenance activities involve lubricants, sealants, or other chemicals that require special handling?
- Could PRV operation affect downstream water pressure or system reliability?
- Are mitigation measures needed to minimize land disturbance or habitat impacts during construction?

4.3 Regulatory Compliance and Recommendations

- Mesa Water District
    - Approval of BEA Exemption Program Agreement
    - Purpose: Internal project approval under CEQA
- Orange County Water District (OCWD)
    - BEA Exemption Program Agreement & Reissuance
    - Purpose: For groundwater extraction from amber water wells

- California Department of Public Health
  - Revision to Domestic Water Supply Permit
  - Purpose: Ensures drinking water quality compliance
- Orange County Flood Control District
  - Drainage Permit
  - Purpose: Site runoff and stormwater control
- Orange County Sanitation District (OCSD)
  - Wastewater Discharge Permit (renewal and revision)
  - Purpose: Governs disposal of concentrate and backwash wastewater
- State Water Resources Control Board
  - Preliminary Outreach from the City and Mesa Water was made to each of their DDW representatives. DDW representatives brought up a number of concerns to which Mesa Water and the City responded. Below is a summary of those discussions:

  - This project does not include any additional water systems beyond Mesa Water District and the City of Huntington Beach. Due HGL differences—approximately 246 feet for the City's Zone and 243 feet for Mesa Water, and between 460 and 550 feet for the OC-44 pipeline—a small pump station would be required to convey water into the OC-44 line. While final cost responsibilities are yet to be determined jointly by the City and Mesa Water, Mesa Water has indicated it would own and lead construction of the pump station, with both agencies collaborating on cost allocation. Mesa Water and the City do not currently sell water to one another and would not become wholesalers under this project; water transfers would occur only in one direction, from Mesa Water to the City, and agreement language will be structured to clearly reflect this limitation. The connection would not alter City operations or cause the OC-44 line to become part of the City's distribution system in a manner that triggers Revised Total Coliform Rule (RTCR) requirements, as Mesa Water would sample consistent with existing Metropolitan practices and the City would continue to receive and manage water as it does today. Additionally, the OC-44 connection is one-directional and does not allow blended surface water and groundwater to flow back into the Orange County Feeder; therefore, upstream agencies would not be subject to groundwater recharge requirements. Treatment practices remain unchanged, as both Metropolitan and Mesa Water use chloramines, and the City already treats well water with free chlorine while receiving chloraminated water from the OC-44 line, resulting in no operational or water quality impacts.

4.4 Public Involvement and Stakeholder Engagement

Project-related activities, such as construction, equipment installation, or operational changes, may temporarily affect nearby residents, businesses, and local agencies. Potential impacts include noise, traffic disruptions, and changes in water service or accessibility. Mesa Water District should proactively address stakeholder concerns by minimizing disruptions, and ensure that project implementation considers the needs and interests of the community and other affected parties.

Mesa Water District can notify the public and stakeholders using multiple communication channels to ensure timely and effective outreach. These methods include public notices, email updates, the District's website, and social media announcements. In addition, stakeholder engagement can be facilitated through meetings, workshops, and hearings, providing opportunities for community members and local agencies to review project plans, ask questions, and provide feedback throughout the planning and implementation process.

5.0 Risk Assessment

5.1 Purpose and Context

The purpose of this risk assessment is to identify, evaluate, and prioritize potential risks that could affect the feasibility, reliability, and implementation of the proposed interagency water transfer project. The assessment was conducted to support informed decision-making by clearly identifying uncertainties that may influence system performance, regulatory compliance, cost, schedule, and long-term operational viability.

This risk assessment is framed within the context of a complex, multi-agency water supply and conveyance system involving existing treatment, pumping, and transmission infrastructure. The evaluation considers technical, operational, supply, regulatory, and infrastructure-related factors that may affect the ability to reliably convey water between agencies under adverse conditions. The objective is to provide a structured approach to anticipate potential vulnerabilities to enhance the resilience of critical water supply infrastructure.

5.2 Asset ID and Threat Analysis

MKN identifies several critical assets required to support the proposed interagency water transfer, along with associated threats that could affect system reliability, operability, and overall program feasibility. These assets include the MWRF, OC-44 conveyance pipeline, the potential booster pump station, associated pumping equipment such as pumps, motors, variable frequency drives, valves, and operational personnel to run required infrastructure.

5.2.1 MWRF

The MWRF is a key asset governing both water quality compliance and available supply capacity for the proposed transfer. Potential threats include mechanical or process equipment failures, filter fouling or degradation, unplanned outages, and operational constraints associated with routine maintenance or future treatment upgrades. Natural occurrence risks, including seismic events, flooding, extreme heat, and regional power outages could disrupt treatment processes, damage equipment, or restrict facility access.

5.2.2 OC-44 Pipeline

The OC-44 pipeline is critical conveyance asset necessary for interagency water delivery. Potential threats include hydraulic capacity limitations, pressure constraints, and structural integrity concerns associated with aging infrastructure. Transient hydraulic conditions, such as water hammer resulting from pump start-stop operations or variable flow regimes, represent an additional risk to pipeline reliability. MKN also identifies natural hazard threats, including earthquakes, ground movement, flooding, and extreme weather events, which could result in pipeline damage, service interruptions, or delayed repair response. Operational coordination with existing OC-44 demands and maintenance schedules may further constrain availability and affect transfer reliability.

5.2.3 Potential Booster Pump Station

The potential booster pump station is a required asset to overcome hydraulic grade line (HGL) differences between the source and receiving systems. This facility represents a concentrated risk point within the conveyance system. Identified threats include power supply interruptions, mechanical or electrical equipment failure, control system malfunctions, and limited redundancy. Natural occurrence risks such as seismic activity,

flooding, wildfire-related power shutoffs, and extreme temperature conditions that could affect structural integrity, electrical reliability, and operational performance. Reduced performance or failure of the booster pump station would directly impair the ability to meet required transfer flows and pressures.

5.2.4 Proposed PRV Station

The proposed PRV on the OC-44 pipeline is a critical hydraulic control asset required to reduce the HGL and enable Mesa Water District to convey water into the OC-44 system and subsequently to the City of Huntington Beach. Potential threats include mechanical failure, improper valve settings, control malfunctions, and component degradation due to wear or variable operating conditions. Failure or misoperation of the PRV could result in elevated downstream pressures, loss of gravity flow capability, or reduced transfer reliability. Hydraulic transients associated with flow changes or upstream pumping operations may introduce additional stress on the PRV and adjacent pipeline segments. Operational coordination between Mesa Water District and the City of Huntington Beach, including SCADA communication and control alignment, is also required to maintain consistent downstream HGL conditions. Natural hazards and limited redundancy may further affect PRV reliability and availability.

5.2.5 Pumping Equipment

Pumping equipment at both the MWRF facilities and the potential booster pump station are essential assets for sustained operation. Potential threats include normal wear and tear, seal and bearing failures, efficiency degradation over time, and limited availability of replacement parts. Elevated operational risk may occur under sustained high-duty cycles or fluctuating operating conditions. Natural hazards, including seismic events, extended power outages, heat waves, and flooding, may accelerate equipment degradation or cause sudden failures. Insufficient redundancy, limited spare capacity, or delayed maintenance response could reduce system availability during peak demand or emergency conditions.

5.2.6 Personnel and Operational Constraints

Qualified operations and maintenance personnel are a critical non-physical asset supporting system reliability and interagency coordination. Potential threats include staffing limitations, competing operational priorities, and reliance on specialized technical expertise for treatment, pumping, and emergency response. Natural disasters and regional emergency events may further constrain personnel availability due to access restrictions, safety considerations, or concurrent response obligations. Limitations in staffing, training, or institutional knowledge continuity may reduce operational flexibility during abnormal conditions, natural hazard events, or unplanned system outages.

5.2.7 SCADA and Control Systems (Mesa Water District and City of Huntington Beach)

The supervisory control and data acquisition (SCADA) systems used by Mesa Water District and the City of Huntington Beach are critical operational assets required to monitor, control, and coordinate treatment, pumping, and conveyance associated with the proposed interagency water transfer. Potential threats include system interoperability limitations between agency platforms, outdated technology, communication failures, control logic conflicts, cybersecurity vulnerabilities, and reliance on continuous data availability for real-time operation. System outages, software failures, or loss of telemetry may reduce operator visibility, delay response to abnormal conditions, or require manual operation, thereby increasing operational risk.

5.3 Risk Mitigation

The purpose of this Risk Mitigation section is to identify and describe the strategies and measures implemented to reduce their likelihood and consequences. Mitigation approaches include preventive maintenance, redundancy in critical assets, emergency response planning, operational flexibility, personnel training, and adherence to applicable design and safety standards to ensure reliable and resilient operation of the water transfer system under all potential operational Scenarios.

5.3.1 MWRF

To mitigate risks associated with mechanical, process, and operational failures at the MWRF, the facility will continue to employ preventive maintenance programs, routine condition assessments, and redundancy in critical treatment components where feasible. Spare parts inventory and established vendor support agreements reduce downtime associated with equipment failures, filter fouling, or degradation. Operational flexibility within the treatment process allows flows to be managed during routine maintenance activities or unplanned outages without compromising regulatory compliance.

Natural hazard risks, including seismic events, flooding, extreme heat, and regional power outages, are mitigated through compliance with applicable seismic design standards, flood protection measures, and climate-resilient facility design. Emergency response procedures and contingency operating plans are in place to support rapid recovery following disruptive events. Backup power systems and coordination with the regional electrical utility further reduce the likelihood of prolonged treatment interruptions. Collectively, these mitigation measures support reliable water quality compliance and sustained supply capacity for the proposed water transfer.

5.3.2 OC-44 Pipeline

Risks associated with hydraulic capacity, pressure constraints, and structural integrity of the OC-44 Pipeline are mitigated through hydraulic modeling, operational controls, and ongoing asset management practices. The water transfer Scenarios were evaluated to confirm that operating pressures and velocities remain within acceptable limits under anticipated transfer conditions. Operational strategies should be implemented to reduce transient pressures and minimize the potential for water hammer under variable flow conditions.

Structural integrity risks related to aging infrastructure are mitigated through routine inspection, maintenance, and repair programs, as well as adherence to established pipeline monitoring and condition assessment practices. Natural hazard risks, including seismic activity, ground movement, flooding, and extreme weather events, are addressed through compliance with applicable design standards, emergency response planning, and coordinated repair protocols to support timely system recovery.

Operational risks related to coordination with existing OC-44 demands and maintenance activities are mitigated through interagency communication, scheduling coordination, and defined operational procedures that prioritize system reliability.

5.3.3 Potential Booster Pump Station

Risks associated with power supply interruptions, mechanical or electrical equipment failures, and control system malfunctions at the booster pump station are mitigated through facility design, operational controls, and maintenance planning. The pump station will be designed to include appropriate redundancy in critical pumping, electrical, and control components to reduce single-point failure risks. Preventive maintenance

programs, equipment condition monitoring, and access to spare parts further minimize downtime and support reliable operation.

Natural hazard risks, including seismic activity, flooding, wildfire-related power shutoffs, and extreme temperature conditions, are mitigated through compliance with applicable structural and seismic design standards, site flood protection measures, and climate-resilient electrical and mechanical design. Backup power provisions, such as standby generators or alternative power supply arrangements, reduce the likelihood of extended service interruptions during regional power outages.

Operational risks associated with reduced pump station performance are mitigated through hydraulic modeling, operational flexibility, and coordinated control strategies that maintain required transfer flows and pressures under varying demand conditions.

5.3.4 Proposed PRV Station

Risks associated with PRV mechanical failure, improper settings, and control malfunctions are mitigated through appropriate valve selection, preventive maintenance, and routine inspection and calibration. These measures support reliable pressure regulation and maintenance of downstream HGL required conveyance.

Hydraulic transient risks are mitigated through hydraulic modeling, controlled valve operation, and defined operating procedures that minimize pressure surges and stress on the PRV and adjacent pipeline segments.

Operational risks are mitigated through SCADA integration and coordinated operating protocols between Mesa Water District and the City of Huntington Beach to ensure consistent pressure control and timely response to abnormal conditions. Natural hazard risks are addressed through compliance with applicable design standards and emergency response planning.

5.3.5 Pumping Equipment

Risks associated with normal wear, seal and bearing failures, and long-term efficiency degradation of pumping equipment are mitigated through preventive and predictive maintenance programs, routine performance monitoring, and lifecycle-based asset management practices. Regular inspection and testing support early identification of declining pump performance, allowing corrective maintenance or refurbishment to be implemented before failures occur. Maintaining critical spare parts and established vendor support agreements further reduces downtime associated with equipment repairs or replacement.

Operational risks related to sustained high-duty cycles and fluctuating operating conditions are mitigated through appropriate pump selection, operational sequencing, and the use of variable-frequency drives where applicable to reduce mechanical stress and improve operating efficiency. Natural hazard risks, including seismic events, extended power outages, heat waves, and flooding, are addressed through compliance with applicable design standards, environmental protection measures, and emergency response procedures.

Risks associated with insufficient redundancy or limited spare capacity are mitigated through the inclusion of standby pumping units and operational flexibility to meet peak demand or emergency conditions.

5.3.6 Personnel and Operational Constraints

Risks associated with staffing limitations, competing operational priorities, and reliance on specialized technical expertise are mitigated through workforce planning, cross-training programs, and knowledge

management practices. Ensuring that multiple personnel are qualified to operate and maintain treatment, pumping, and conveyance systems increases operational flexibility and reduces single points of expertise dependency. Standard operating procedures, emergency response protocols, and documented operational manuals support continuity of operations during abnormal conditions or unplanned system outages.

Natural hazard risks, including regional disasters and emergencies that may restrict personnel access or availability, are mitigated through pre-established emergency staffing plans, coordination with local authorities, and remote monitoring and control capabilities where feasible. Succession planning, ongoing training, and retention of institutional knowledge further enhance the resilience of operations and maintenance personnel.

5.3.7 SCADA and Control Systems (Mesa Water District and City of Huntington Beach)

Risks associated with SCADA system interoperability, outdated technology, communication failures, control logic conflicts, and cybersecurity vulnerabilities are mitigated through coordinated system design, standardized protocols, and routine software and firmware updates. Regular testing, validation of control logic, and system integration exercises ensure reliable interoperability between Mesa Water District and City of Huntington Beach platforms. Redundant communication links, secure network architecture, and cybersecurity monitoring minimize the likelihood of unauthorized access or operational disruptions.

Operational risks due to system outages, software failures, or telemetry loss are mitigated through backup monitoring systems, defined manual operating procedures, and operator training for contingency Scenarios. Ongoing coordination between agencies ensures timely data sharing, situational awareness, and coordinated response to abnormal operating conditions.

5.4 Risk Characterization

5.4.1 Methodology

A qualitative–quantitative risk matrix was developed to systematically identify, evaluate, and rank potential risks associated with the proposed interagency water transfer program. The risk assessment considers technical, operational, supply, regulatory, and infrastructure-related uncertainties that could affect project feasibility, reliability, cost, and implementation. Each identified risk was evaluated using a two-factor scoring approach consisting of Severity and Likelihood, each rated on a 1 to 5 scale. This scale is summarized in **Table 5-1** below.

Table 5-1: Likelihood and Severity Scale

Scale	Likelihood	Severity
1	Rare	Negligible Impact
2	Unlikely	Minor Impact
3	Possible	Moderate Impact
4	Likely	Major Impact
5	Almost Certain	Severe/Catastrophic Impact

Likelihood and severity ratings were developed to reflect realistic operating conditions with anticipated mitigation measures considered. Likelihood represents the probability of a risk occurring assuming that standard design practices, operational controls, monitoring systems, and management procedures are

implemented. Mitigation measures such as equipment redundancy where feasible, preventative maintenance programs, backup power provisions, cybersecurity controls, formal interagency agreements, and stakeholder engagement were considered in reducing the probability of occurrence for applicable risks.

Severity represents the potential consequence of a risk should it occur, recognizing that mitigation measures may limit the extent or duration of impacts but may not fully eliminate them. Severity ratings therefore reflect residual consequences after reasonable mitigation, including impacts to water supply reliability, regulatory compliance, operational continuity, cost, and contractual obligations. For critical system components that function as single-point assets, severity remains elevated relative to other risk categories because failure would still result in partial or complete interruption of water transfer, even with mitigation measures in place.

The overall risk score for each risk was calculated as the product of Likelihood and Severity (Risk Score = L × S). Based on the calculated risk scores, risks were categorized into qualitative rankings as shown in **Table 5-2** below.

Table 5-2: Overall Risk Score Rankings

Risk Ranking	Risk Score (LxS)	Color Associated in Heat Map
Low	1-4	
Moderate	5-9	
High	10-14	
Critical	15-25	

Each risk score reflects the following in the real world:

- Low Risk: Risk scores of 1–4, reflecting minimal likelihood and/or consequence. These risks are considered manageable through routine design, operational, or monitoring practices.
- Moderate Risk: Risk scores of 5–9, representing risks that warrant attention and standard mitigation measures but are not expected to materially affect overall project feasibility if properly managed.
- High Risk: Risk scores of 10–14, indicating risks with a higher potential to impact system reliability, cost, schedule, or regulatory compliance. These risks require targeted mitigation strategies and may influence design or operational decisions.
- Critical Risk: Risk scores of 15–25, representing risks with both high likelihood and high severity that could significantly compromise project feasibility, safety, or regulatory compliance. These risks require priority mitigation, contingency planning, or potential redesign to reduce overall exposure.

By evaluating both likelihood and severity under mitigated conditions, the resulting risk scores represent residual risk rather than worst-case Scenarios.

5.4.2 Risk Matrix and Heat Map

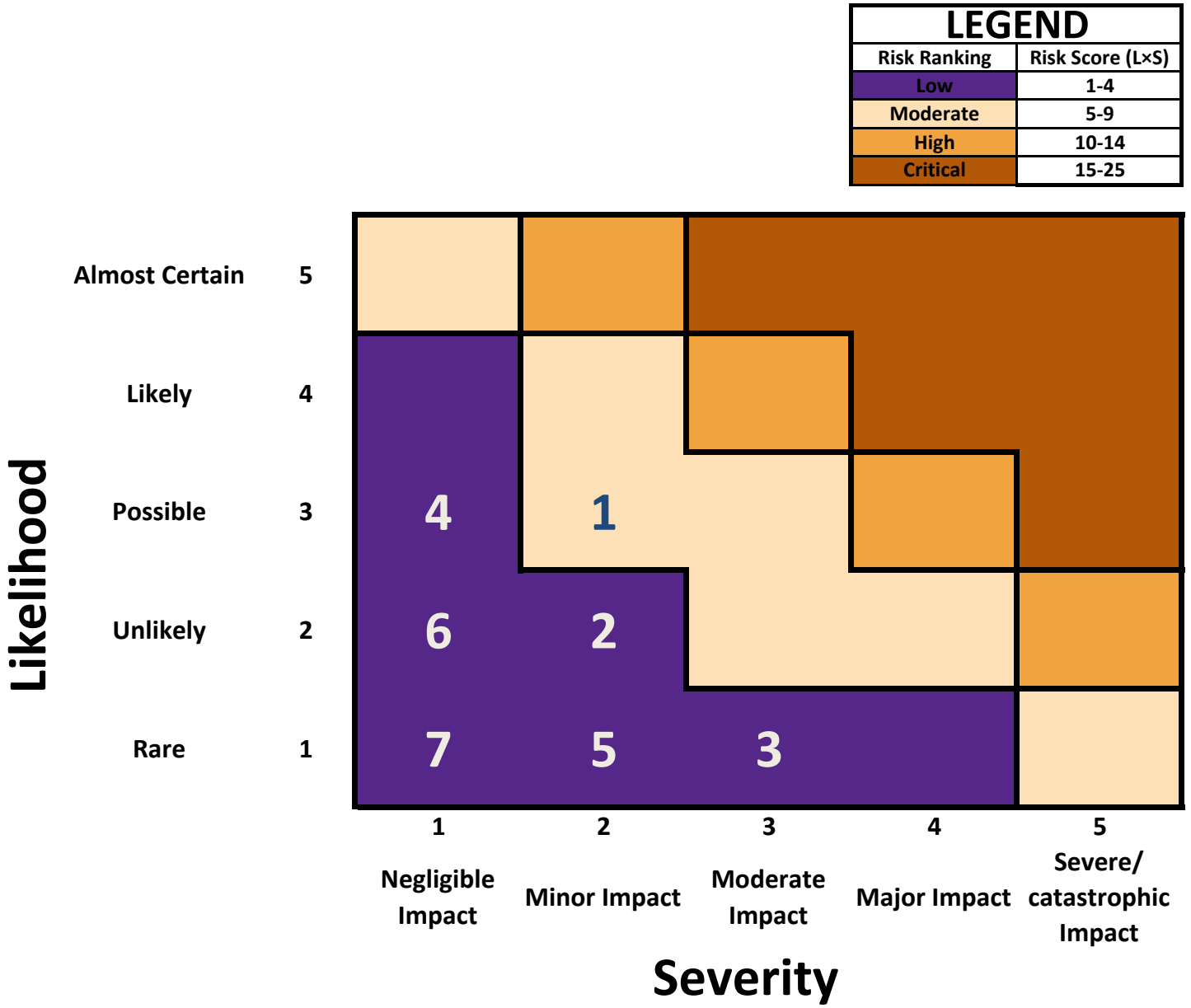
A qualitative–quantitative risk matrix and corresponding heat map were developed to visually represent and prioritize the risks associated with the proposed interagency water transfer. In **Table 5-3** below, each identified risk along with its likelihood of occurrence and severity are listed. The likelihood and severity scores reflect

residual risk, assuming that reasonable and achievable mitigation measures are in place under normal operating conditions.

The resulting heat map, shown in **Figure 5-1**, provides a clear visualization of relative risk levels, highlighting those risks that warrant heightened attention due to their potential to disrupt system reliability, regulatory compliance, or contractual performance. Overall, most identified risks are low and not of major concern. Among all risks, the primary risk of concern is infrastructure. While the likelihood of failure is low, the consequences could be significant if an issue were to occur. Another consideration is public opinion. Although the likelihood of a negative public or political reaction is relatively high, the severity is low. Once contracts are executed and operations are underway, there is limited ability for public or political influence to halt or materially affect the project.

Table 5-3: Risk Matrix						
Risk ID	**Risk Description**	**Likelihood (1-5)**	**Severity (1-5)**	**Risk Score (LxS)**	**Descriptions**	**Risk Ranking**
1	Community and Strategic	3	2	6	• Negative public perception and political opposition	Moderate
2	Water Supply/Demand and Quality	2	2	4	• Groundwater reliability and long-term aquifer yield, aquifer collapse • Water quality compatibility and blending impacts • Future demand uncertainty in Huntington Beach • Need to supply water to Newport Beach and Huntington Beach simultaneously	Low
3	Infrastructure	1	3	3	• Hydraulic transients (surge, water hammer) • Single-point failure at PRV, interconnection, or booster pump station • Power failure • Emergency events impacting infrastructure (seismic, wildfire, PSPS)	Low
4	Financial and Economic	3	1	3	• Capital cost for pump station and intertie • Energy and operational costs • Early termination / stranded asset risk • Metering, billing, and accounting discrepancies	Low
5	Technology and Cybersecurity	1	2	2	• Cybersecurity • Technology obsolescence	Low
6	Regulatory and Environmental	2	1	2	• Regulatory changes affecting groundwater production or transfer • Permitting and CEQA schedule impacts • Reporting and compliance inconsistencies	Low
7	Interagency/Legal	1	1	1	• Interagency agreement disputes (pricing, ownership, curtailment) • Inter-agency communication challenges	Low

Figure 5-1: Heat Map



6.0 Financial Evaluation

6.1 Evaluation Assumptions

The following summarize the assumptions utilized for the financial evaluation.

Mesa Water Supply Scenarios

Based on the City's import water use, three "tiers" were established and evaluated. The three supply tiers consist of the following:

- Tier 1: 100 AFY – Approximately 2.60% of City's total import water
- Tier 2: 1,000 AFY – Approximately 25.60% of City's total import water
- Tier 3: 2,000 AFY – Approximately 63.80% of City's total import water
- Tier 4: 4,450 AFY– 100% of City's total imported water, with approximately 13% additional supply

Note: the following tiers were developed using import water numbers from Resolution No. 2157 MWDOC Establishing Water Rates

City's Demand Projections

The City's future water import needs are published in the City's 2020 UWMP. Values are provided in 5-year increments through 2050, MKN extrapolated between each 5-year span to accurately predict the City's future water demands and import needs on a yearly basis.

Import water Cost

The City receives import water from Municipal Water District of Orange County (MWDOC) which is a wholesale provider of Metropolitan Water District of Southern California (MWD). MWDOC publishes a full service treated volumetric cost in dollars per acre-foot that includes the supply rate, system access rate, system power rate, and treatment surcharge.

MWDOC also charges its member agencies a Readiness to Serve (RTS), which uses the most recently completed four-year rolling average. The four-year rolling average is based on the four previous full year service purchases (i.e., for fiscal year 2025-26, the four-year average uses FY2020-21 through FY2024-25 to calculate the charge). Since this fee is dependent on the percentage of total use amongst all member agencies it can be difficult to predict what this charge will be moving forward. MKN used the sample four-year rolling average provided in Exhibit A of Resolution No. 2157 MWDOC Establishing Water Rates (MWDOC Exhibit A Rates), and the projections from the 2020 UWMP to determine the demand increase year-to-year for the total member agency future import demand. The MWDOC Exhibit A Rates methodology and calculations are included in **Appendix A**.

Similarly, MWDOC publishes a capacity charge in dollars per square foot. The Capacity Charge is applied to each member agency as a fixed charge based on each member agency's highest peak day flow between May 1 and September 30 of each year for the previous three-year period. Referencing Exhibit B of Resolution No. 2157 MWDOC Establishing Water Rates (MWDOC Exhibit B Rates), the City has a three-year peak day flow of 21.9 cfs and is therefore responsible for 5.70% of the total member agency rate of $4,089,000, the member agency rate is calculated using the MWD capacity charge multiplied by the largest single day of water imported to member agencies (i.e. in 2025 the Capacity Charge is $14,500/cfs and there was a peak import flow rate of 282 cfs to MWD). MKN estimates that the peak flow of import water will increase by the same average factor

listed in MWDOC 2020 UWMP, approximately 0.6% per year. For the purposes of this analysis MKN assumes that the City's required peak flow rate of import water will decrease by the percentage of total import water that is proposed to be served by Mesa Water (e.g. in 2025 the City has a 4-year rolling average import water demand of 3,918 AFY, if the City reduces that demand by 100 AFY, that is a reduction of 2.6%; therefore, it is assumed that the three-year peak flow rate will decrease by 2.6%). MKN considers the 2% reduction to be conservative, because the amount of total flow has less impact than when the flow is delivered. Based on the way that MWDOC's fee schedule is determined, this is a variable component affected by actual use and operation.

MWDOC publishes rate increases through 2034 for the full-service treated costs, RTS, and Capacity Charge which are highly variable, ranging from 4% to 32%. The rate increases that MKN uses in the financial analysis diverge from the MWDOC published rates. Instead, MKN will use treated import water inflation rates, developed by Mesa Water, determined as part of its Local Groundwater Supply Improvement (Local SiP) Feasibility Study. A 9% rate increase will be applied from 2025 through 2035 and 7.2% will be used from 2036 through 2045. **Table 6-1** contains a summary in 5-year increments of the RTS and Capacity Charge organized by total flow taken from Mesa Water. A full yearly summary of the calculations is provided in **Appendix B.**

Table 6-1: City of Huntington Beach Future Water Import Needs, RTS and Capacity Charges										
	Calendar Year	**2022**	**2023**	**2024**	**2025**	**2030**	**2035**	**2040**	**2045**	**2050**
	City of Huntington Beach Water Demand (AFY)[1]	26,138	26,225	26,311	26,399	26,523	26,338	26,041	26,056	26,071
City Import from MWDOC	Percentage of MWDOC Import to Total Demand	18.5%	27.7%	12.4%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	Volume of MWDOC Import (AFY) [2]	4,840	7,255	3,262	3,960	3,979	3,951	3,914	3,908	3,902
	MWDOC Import with 100 AFY from Mesa Water (AFY)	4740	7155	3162	3,860	3,879	3,851	3,814	3,808	3,802
	MWDOC Import with 1,000 AFY from Mesa Water (AFY)	3840	6255	2262	2,960	2,979	2,951	2,914	2,908	2,902
	MWDOC Import with 2,000 AFY from Mesa Water (AFY)	2840	5255	1262	1,960	1,979	1,951	1,914	1,908	1,902
	MWDOC Import with 4,450 AFY from Mesa Water (AFY)	390	2805	0	0	0	0	0	0	0
MWDOC Peak Flow Rate	Increase in Peak Flow Rate (%) [3]	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%
	Peak Flow Rate of MWDOC Import (CFS) [4]	21.9	15.2	16.4	21.9	22.6	23.3	24.1	24.9	25.7
	Peak Flow Rate of MWDOC Import with 100 AFY from Mesa Water (CFS)	21.4	15.0	15.9	21.3	22.0	22.8	23.5	24.3	25.0
	Peak Flow Rate of MWDOC Import with 1,000 AFY from Mesa Water (CFS)	17.4	13.1	11.4	16.4	16.9	17.4	17.9	18.5	19.1
	Peak Flow Rate of MWDOC Import with 2,000 AFY from Mesa Water (CFS)	12.9	11.0	6.3	10.8	11.2	11.5	11.8	12.2	12.5
	Peak Flow Rate of MWDOC Import with 4,450 AFY from Mesa Water (CFS)	1.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MWDOC Capacity Charge	Capacity Charge Annual Rate Increase (%) [5]	-	-	-	9.0%	9.0%	9.0%	7.2%	7.2%	7.2%
	Member Agencies Total Capacity Charge ($M/Year) [6]	-	-	-	$ 4.09	$ 6.29	$ 9.68	$ 13.70	$ 19.40	$ 27.47
	Member Agencies Summation of Total Peak Flow (CFS) [6]	-	-	-	384.5	397.0	409.9	423.2	437.0	451.2
	Huntington Beach Capacity Charge ($/CF/Day)	-	-	-	$ 29.14	$ 43.42	$ 64.70	$ 88.71	$ 121.63	$ 166.77
MWDOC Readiness To Serve	RTS Annual Rate Increase (%) [5]	-	-	-	-	9.0%	9.0%	7.2%	7.2%	7.2%
	Member Agencies Total RTS ($M/Year) [7]	-	-	-	$ 17.60	$ 27.08	$ 41.67	$ 58.99	$ 83.51	$ 118.22
	Member Agencies Total Flow (AFY) [7]	185,594	135,592	99,738	140,334	122,627	122,595	122,967	122,953	122,801
	Huntington Beach RTS Charge ($/AF)	-	-	-	$ 125.42	$ 220.83	$ 339.87	$479.70	$ 679.19	$ 962.73

Notes:

1. City of Huntington Beach water demands are identified in the 2020 UWMP in five-year increments from 2025 through 2045. Extrapolation calculated for intermediate years.
2. Volume of MWDOC import water is identified in the 2020 UWMP in five-year increments from 2025 through 2045. Extrapolation calculated for intermediate years.
3. Increase in peak flow rate based on anticipated increase in total member agency demands as identified in the MWDOC 2020 UWMP
4. Maximum flow rate of the previous 3-year peak flows recorded between May and September, escalated by 0.6% per year to match the MWDOC member agency average flow increase between 2025 and 2045 in the MWDOC 2020 UWMP
5. Calculated using the Mesa Water Local Groundwater Supply Improvement (Local SiP) Feasibility Study treated import water inflation rate
6. 2025 Total member agency capacity charge and 3-year peak flow identified in Exhibit B of Resolution No. 2157 Municipal Water District of Orange County Establishing Water Rates
7. 2025 Total member agency readiness to serve and 4-year average flow identified in Exhibit A of Resolution No. 2157 Municipal Water District of Orange County Establishing Water Rates

Orange County Water District Rates

The Orange County Water District (OCWD) is used to estimate Mesa Water's groundwater costs associated with operating the MWRF. OCWD publishes replenishment assessments out to a five-year projection, most recent projections through 2030 increase at approximately 3.5% per year. MKN assumes that the 3.5% per year will continue through 2050.

Orange County Sanitation District, Chemicals and Energy

Mesa Water discharges the brine water from the MWRF into the Orange County Sanitation District's (OC San) wastewater collection system. In the 12-month period between July 1st 2024 and June 30th 2025 the total cost for brine disposal including industrial Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) averaged $14,170.13 per 3-month billing cycle. Based on the discharge volume of 4.4 MG (15.73 AF) identified in each period, the estimated discharge cost is $1,048 per AF of treated water, and the assumed efficiency of the MWRF is 95%; therefore, the cost is approximately $52/AF of water produced by the MWRF. Cost projections for brine disposal are estimated to increase at 3.5% per year.

Additionally, for costs to Mesa Water during water production operations, the same rate of 3.5% is used for inflationary costs of the treatment chemicals and energy use.

Huntington Beach Costs and Savings

Based on the assumptions used to determine the water rates and rate increases, the total costs and cost savings were calculated for the City. For each year, the difference in cost between import water and Mesa Water was calculated and then applied to the three purchase tiers. The cost calculations are based exclusively on operational costs and import water costs. Considerations for capital improvement costs are included in a separate cost table.

Mesa Water District Revenue

For this initial conceptual study, a wheeling rate of 12% was assumed for the potential water transfer program and incorporated into the total cost estimate for MWRF supply. If the program advances, this rate may be subject to negotiation between the City and Mesa Water.

6.2 Capital Improvement Projects to Facilitate Water transfer

To aid in planning for the proposed improvements required to facilitate the water transfer program, MKN developed a high-level capital improvement cost. The capital improvement cost is based on a pressure sustaining valve (PSV) connecting the Mesa Water distribution system to the OC-44 pipeline, and a pressure reducing valve (PRV) upstream on the OC-44, upstream of the proposed pressure sustaining valve.

The proposed capital improvements include the construction and installation of two pre-cast concrete vaults to house new 16-inch globe-style pressure reducing and pressure sustaining valves. Each vault is planned to be approximately 8 feet wide, 10 feet long, and 10 feet deep, providing adequate working space, equipment clearance, and future maintenance access.

The first vault will house a 16-inch hydraulically operated globe-style PSV which will maintain pressure in the Mesa Water distribution system at approximately 85 psi. The vault will also contain a 16-inch flow meter and two 16-inch butterfly valves for isolation to facilitate maintenance and operational flexibility.

The second vault will contain a 16-inch hydraulically operated globe-style PRV assembly designed to regulate downstream pressures at 85 psi. The PRV installation will include two 16-inch butterfly valves for isolation.

In addition, each vault will include a 6-inch PRV bypass line equipped with two 6-inch isolation valves to mitigate potential surge pressures and promote operational continuity.

The cost estimate developed includes the materials procurement along with the construction for each of the two vaults. Additionally, the estimate includes mobilization and demobilization, engineering and design, site and roadway improvements, traffic control implementation, permitting, and coordination, survey and utility locating.

Table 6-2: Capital Improvements Cost Estimate

Description	Qty	Units	Total
Mobilization, Demobilization, and Cleanup (5%)	1	LS	$ 124,000
Engineering and Design	1	LS	$ 248,000
Civil Site Improvements	1	LS	$ 85,000
Street Surface Improvements	1	LS	$ 95,000
Traffic Control Implementation, Permitting, Coordination	1	LS	$ 75,000
Survey, Mapping, and Utility Locating	1	LS	$ 75,000
Pressure Sustaining Valve Vault and Assembly			$ 429,400
Pressure Reducing Valve Vault and Assembly			$ 376,900
Subtotal			$ 1,508,300
Contingency (40%)			$ 975,000
Total			**$ 2,483,300**

6.3 Financial Evaluation

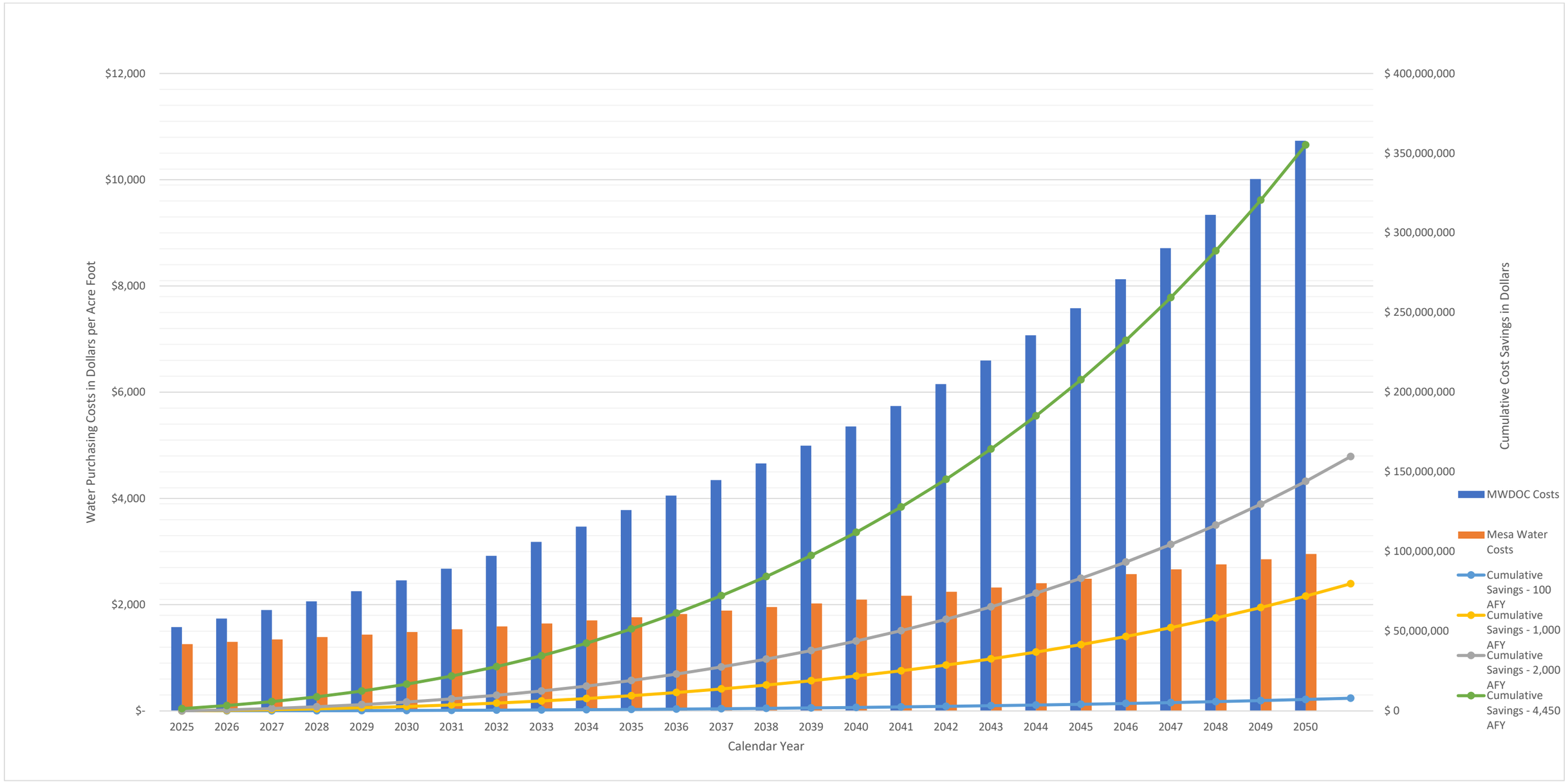
Based on the assumptions detailed in Section 6.1, **Table 6-3** and **Figure 6-1** were prepared to calculate and then present the potential cost implications for both the City and Mesa Water. **Table 6-3** is presented in 5-year increments, a full yearly summary of the calculations is provided in **Appendix C** attached.

Table 6-3: MWDOC and Mesa Water District Fees, City of Huntington Beach Savings, Mesa Water District Revenue							
Supply	**Description**	**2025**	**2030**	**2035**	**2040**	**2045**	**2050**
MWD to City	Treated Domestic Water Cost ($/AF) (1)	$ 1,395	$ 2,146	$ 3,302	$ 4,675	$ 6,619	$ 9,370
	Increase in Treated Domestic Water Cost (%) (1)	-	9%	9%	7.2%	7.2%	7.2%
	Member Agency Capacity Charge ($/CFS) (1)	$ 13,000	$ 20,002	$ 30,776	$ 43,569	$ 61,682	$ 87,323
	Huntington Beach Capacity Charge ($/CFS*Day) (2)	$ 29	$ 43	$ 65	$ 89	$ 122	$ 167
	3-Year Peak CFS (BASE)	21.9	22.6	23.3	24.1	24.9	25.7
	3-Year Peak at 100 CFS	21.3	22.0	22.8	23.5	24.3	25.0
	3-Year Peak at 1,000 CFS	16.4	16.9	17.4	17.9	18.5	19.1
	3-Year Peak at 2,000 CFS	10.8	11.2	11.5	11.8	12.2	12.5
	Member Agency Readiness To Serve ($/AF) (1)	$ 181	$ 278	$ 428	$ 607	$ 859	$ 1,216
	Huntington Beach RTS ($/AF) (3)	$ 125	$ 221	$ 340	$ 480	$ 679	$ 963
	4-Year Average AFY (BASE)	3,960	3,979	3,951	3,914	3,908	3,902
	4-Year Average at 100 AFY	3,860	3,869	3,865	3,833	3,811	3,805
	4-Year Average at 1,000 AFY	2,960	2,969	2,965	2,933	2,911	2,905
	4-Year Average at 2,000 AFY	1,960	1,969	1,965	1,933	1,911	1,905
	4-Year Average at 4,450 AFY	0	2,976	2,976	2,952	2,934	2,929
	Capacity Charge Annual Increase (calculated) (1)	-	9.0%	9.0%	7.2%	7.2%	7.2%
	RTS Annual Increase (Calculated) (1)	-	9.0%	9.0%	7.2%	7.2%	7.2%
	Total MWDOC Costs ($/AF) (4)	$ 1,579.23	$ 2,457.28	$ 3,781.89	$ 5,354.45	$ 7,580.86	$ 10,734.09
Mesa Water to City	Replenishment Assessment ($/AF) (5)	$ 688	$ 809	$ 961	$ 1,141	$ 1,355	$ 1,610
	Chemical Costs ($/AF)	$ 201	$ 239	$ 284	$ 337	$ 400	$ 475
	Energy Costs ($/AF)	$ 224	$ 266	$ 316	$ 375	$ 446	$ 529
	Inflation and OC San Rate Increase (6)	-	3.5%	3.5%	3.5%	3.5%	3.5%
	Brine Discharge to OC San ($/AF production) (7)	$ 52	$ 62	$ 74	$ 88	$ 104	$ 124
	Mesa Water Wheeling ($/AF) (8)	$ 140	$ 165	$ 196	$ 233	$ 277	$ 329
	MWRF Production ($/AF) (9)	$ 1,258	$ 1,485	$ 1,764	$ 2,095	$ 2,488	$ 2,955
Huntington Savings (Annual)	100 AF	$ 32,114	$ 97,216	$ 201,804	$ 325,955	$ 509,277	$ 777,902
	1,000 AF	$ 321,137	$ 972,161	$ 2,018,039	$ 3,259,550	$ 5,092,771	$ 7,779,024
	2,000 AF	$ 642,273	$ 1,944,323	$ 4,036,078	$ 6,519,100	$ 10,185,542	$ 15,558,048
	4,450 AF	$ 1,429,058	$ 4,326,118	$ 8,980,273	$ 14,504,998	$ 22,662,830	$ 34,616,658
Huntington Savings (Cumulative)	100 AF	$ 32,114	$ 377,537	$ 1,156,514	$ 2,518,326	$ 4,669,837	$ 7,981,509
	1,000 AF	$ 321,137	$ 3,775,369	$ 11,565,138	$ 25,183,255	$ 46,698,366	$ 79,815,088
	2,000 AF	$ 642,273	$ 7,550,738	$ 23,130,276	$ 50,366,510	$ 93,396,733	$ 159,630,177
	4,450 AF	$ 1,429,058	$ 16,800,392	$ 51,464,865	$ 112,065,485	$ 207,807,730	$ 355,177,143
Mesa Water Revenue	100 AF	$ 13,985	$ 16,512	$ 19,611	$ 23,292	$ 27,664	$ 32,856
	1,000 AF	$ 139,851	$ 165,123	$ 196,115	$ 232,923	$ 276,639	$ 328,560
	2,000 AF	$ 279,701	$ 330,246	$ 392,229	$ 465,845	$ 553,278	$ 657,121
	4,450 AF	$ 622,335	$ 734,798	$ 872,710	$ 1,036,505	$ 1,231,043	$ 1,462,093
Mesa Water Revenue (Cumulative)	100 AF	$ 13,985	$ 91,358	$ 183,004	$ 291,851	$ 421,126	$ 574,665
	1,000 AF	$ 139,851	$ 913,582	$ 1,830,040	$ 2,918,506	$ 4,211,261	$ 5,746,650
	2,000 AF	$ 279,701	$ 1,827,163	$ 3,660,081	$ 5,837,012	$ 8,422,523	$ 11,493,299
	4,450 AF	$ 622,335	$ 4,065,438	$ 8,143,680	$ 12,987,351	$ 18,740,114	$ 25,572,590

Notes:

1. Calculated using the Mesa Water Local SiP treated import water inflation rate
2. Calculated using the ratio between the City's and the member agencies anticipated 3-year peak flow rate, and the member agencies total capacity charge, see Table 3-1 and Appendix A.
3. Calculated using the ratio between the City's and member agencies anticipated 4-year average flow rate, and the member agencies total RTS, see Table 3-1 and Appendix A.
4. Calculated using the Treated Water Costs, Huntington Beach RTS, and Huntington Beach Capacity Charge. Huntington Beach Capacity charge is converted from $/CFS*Day to $/AF using the 3-year Peak Flow, 365 days in a year, and the average base flow rate
5. Calculated using the OCWD Replenishment Assessment Rate Increase spreadsheet through 2030. Rate increase after 2030 is 3.5%
6. Estimated inflation used for Replenishment Assessment, Chemical Costs, Energy Costs, and OC San Rate Increase
7. Calculated using 12 months of OC San billing data for brine discharge from MWRF, includes factor for reducing product water to brine discharge water at 95% recovery rate
8. Assumed water wheeling rate of 12%
9. Calculated through summation of Replenishment Assessment, Chemical Costs, Energy Costs, Brine Discharge, and Water Wheeling

Figure 6-1: City of Huntington Beach Cost Savings



7.0 Feasibility

In order to accurately quantify the feasibility of the proposed Mesa Water District to City of Huntington Beach interagency water transfer, MKN developed a feasibility matrix. This matrix consolidates the results of the study, translating supply, infrastructure, cost, regulatory, environmental, legal, and demand categories into quantifiable metrics. By presenting existing, improved, and residual-risk Scenario scores for each category, the matrix provides a comparative view of the project's feasibility, potential challenges, and overall viability.

7.1 Methodology

The feasibility of the proposed water transfer from Mesa Water to the City was evaluated across seven key categories and three potential Scenarios. Each category and Scenario has a weight assigned to calculate the potential feasibility. The category and Scenario classifications are included **Table 7-1 and 7-2** below. Under each potential Scenario, each category was ranked using the scale shown in **Table 7-3** below.

Table 7-1: Category Classifications

Category	Category ID	Description	Category Weighting
Supply	1	Ability of Mesa Water to reliably produce transferable water from the MWRF and deep aquifer	0.25
Infrastructure	2	Ability to physically convey water, including pump station or PRV station and OC-44 pipeline	0.25
Cost	3	Capital costs, operations and maintenance, energy costs, and lifecycle economics	0.20
Regulatory	4	Permitting, CEQA compliance, water rights, and interagency approvals	0.10
Environmental	5	Potential environmental impacts associated with pumping and infrastructure	0.10
Service Agreements	6	Existence and reliability of formal agreements governing water transfer between Mesa Water District and the City of Huntington Beach	0.05
Demand	7	Ability and need for the City of Huntington Beach to receive and utilize transferred water	0.05

Table 7-2: Scenario Classifications

Potential Scenario	Description	Category Weighting
Existing	Feasibility under existing conditions	0.45
Improved	Feasibility given improvements from planned risk-reduction measures	0.40
Residual-Risk	Feasibility if adverse conditions occur	0.15

Table 7-3: Scoring Scale	
Scoring Scale (1-5)	**Definition**
1	Not feasible – fatal flaw identified
2	Significant constraints – feasibility uncertain
3	Feasible with mitigation and contingencies
4	Feasible with minor mitigation
5	Highly feasible – minimal constraints

In order to translate real world conditions into quantifiable scoring values, MKN developed the following guidelines in **Table 7-4** to accurately assess and then score each category in the respective Scenario. Once the guidelines were reviewed, the scoring values in **Table 7-3** were used to assign a score to each category in its respective Scenario. The criteria in **Table 7-5** were used to obtain a score for existing, improved, and risk-residual Scenario, representing the feasibility for each one. Then a combined score that represents feasibility, as a whole, amongst all three Scenarios is also computed. MKN developed criteria to translate the feasibility values of the project to real world use which is shown in **Table 7-6** below

Table 7-4: Scoring Guidelines			
Category	**Existing**	**Improved**	**Residual-Risk**
Supply	Represents the ability of Mesa Water to reliably produce transferable water from the MWRF and deep aquifer under existing conditions, considering current production capacity, aquifer conditions, and known constraints.	Reflects improvements to supply feasibility through monitoring programs, conservative pumping strategies, adaptive management, and operational controls that reduce long-term groundwater sustainability risk.	Represents supply reliability if production is temporarily reduced or constrained, including the ability to adjust transfer volumes or rely on alternative water sources.
Infrastructure	Represents feasibility of conveying water from the Mesa Water District to City of Huntington Beach under existing conditions.	Reflects construction of PRV or booster pump station. Risk reduction of PRV is achieved through pressure management, SCADA integration, defined operating setpoints, surge control measures, and coordinated interagency operating protocols. Risk reduction of booster pump station is achieved through infrastructure mitigation such as pump redundancy, surge protection, backup power, SCADA integration, and defined operating protocols.	Represents system resilience during PRV malfunction, power or control system interruptions, or emergency conditions, including the ability to isolate the PRV, implement manual or fallback operating procedures, temporarily adjust transfer volumes, or suspend transfers without compromising overall system integrity. Represents system resilience during booster pump station failure, power outages, or emergency conditions, including emergency response procedures and fallback supply options.
Cost	Represents feasibility based on estimated capital, operations, maintenance, and energy costs under expected conditions, without assuming cost offsets or optimization.	Reflects cost improvements achieved through optimized design, energy-efficient equipment, off-peak operations, and cost-sharing or contractual protections.	Represents financial resilience if costs exceed estimates, including contingency allowances, escalation provisions, and contractual flexibility.
Regulatory	Represents feasibility based on current regulatory requirements, permitting pathways, CEQA compliance needs, and known approval risks.	Reflects risk reduction through early agency coordination, phased permitting strategies, clearly defined interagency agreements, and regulatory compliance planning.	Represents feasibility if regulatory conditions change, including schedule flexibility, agreement amendments, or alternative compliance approaches.
Environmental	Represents feasibility considering potential environmental impacts associated with groundwater pumping and infrastructure construction under existing conditions.	Reflects reduced environmental risk through mitigation measures such as monitoring programs, construction best management practices, and impact avoidance strategies.	Represents feasibility if unanticipated environmental impacts occur, including adaptive management measures and mitigation program adjustments.
Service Agreements	Represents feasibility based on existing formal agreements governing water transfer, including clarity of roles, responsibilities, and enforceability under current operating conditions.	Reflects improvements to feasibility through strengthened contracts, clearly defined dispute resolution procedures, interagency coordination, and risk-sharing mechanisms.	Represents resilience if agreements are disrupted or constraints arise, including the ability to implement temporary arrangements, adjust transfer volumes, or invoke contractual safeguards.
Demand	Represents feasibility based on the City of Huntington Beach's current and projected ability to receive and utilize transferred water under normal operating conditions.	Reflects improved feasibility through operational coordination, flexible delivery scheduling, and alignment with demand management strategies.	Represents feasibility if demand patterns change, including the ability to adjust transfer volumes or timing without compromising system reliability.

Table 7-5: Criteria used to determine Existing, Improved, Residual-Risk, and Combined Weighted Scores	
Potential Scenario	**Criteria**
Existing	$Score = S_1 \cdot 0.25 + S_2 \cdot 0.25 + S_3 \cdot 0.20 + S_4 \cdot 0.1 + S_5 \cdot 0.10 + S_6 \cdot 0.05 + S_7 \cdot 0.05$ [1]
Improved	
Residual-Risk	
Combined	$Score = Category_1 + Category_2 + Category_3 + Category_4 + Category_5 + Category_6 + Category_7$ [2]

Notes:
1. S_n refers to the score of the categories per respective Scenarios discussed
2. To calculate category score taking into account each Scenario, the following criteria was used: $Category_n = Category\ Score_{existing} \cdot 0.45 + Category\ Score_{improved} \cdot 0.40 + Category\ Score_{residual-risk} \cdot 0.15$

Table 7-6: Scoring Interpretation Criteria	
Scoring	**Interpretation**
<2.0	Not feasible
2.0-2.9	Feasibility uncertain
3.0-3.9	Feasible with manageable constraints
4.0-5.0	Highly feasible

7.2 Results

The feasibility matrix results presented in **Table 7-7** shows a clear progression in project feasibility across the existing and improved Scenarios. Under the existing Scenario, several categories score low despite strong supply availability. Infrastructure, service agreements, and demand all receive scores of 1, reflecting the absence of a booster pump station and lack of executed service agreements. Although supply scores a 5, the overall weighted score of 2.90 indicates feasibility uncertainty and, in practical terms, an infeasible condition because the project cannot operate without core enabling infrastructure and agreements.

Under the improved Scenario, feasibility increases substantially across nearly all categories. Infrastructure improves from 1 to 4.5 following installation of the booster pump station, service agreements improve from 1 to 4.5 once agreements are executed, and demand increases from 1 to 5 as transferred water displaces imported supply. Supply remains strong at 5, while cost, regulatory, and environmental categories show moderate improvement due to design optimization, early coordination, and standard mitigation measures. These improvements result in an overall weighted feasibility score of 4.15, indicating the project is highly feasible once critical constraints are resolved.

The residual-risk Scenario reflects remaining uncertainties after mitigation. In this Scenario, most categories experience modest score reductions, reflecting potential equipment or power failures, cost escalation, regulatory delays, and demand variability. For example, infrastructure decreases from 4.5 to 3, service agreements decrease slightly from 4.5 to 4, and demand decreases from 5 to 4, indicating that while service interruptions or supply adjustments may occur, they do not eliminate feasibility. Supply decreases marginally from 5 to 4, reflecting the ability to reduce transfer volumes and rely on MWDOC if needed. Despite these reductions, the feasibility score is 3.55 representing a feasible program with manageable constrains.

The final category scores integrate performance per category and across all three Scenarios and shows represents the most realistic, long-term assessment of project viability, incorporating existing conditions, implemented improvements, and remaining residual risks. It reflects how the project is expected to perform once critical infrastructure and service agreements are in place, rather than current conditions or a best-case Scenario. In terms of feasibility, supply (4.85) remains the strongest contributor to feasibility, followed by regulatory and environmental categories (3.65 each). Infrastructure and cost remain the most risk-sensitive categories, with final scores of 2.7 and 2.93, respectively, reflecting reliance on continuous operation of the booster pump station and exposure to energy pricing. Lower-weighted categories such as service agreements (2.85) and demand (3.05) contribute less to the total score but still demonstrate acceptable feasibility once agreements are in place. The total score taking into account all categories across three Scenarios is 3.50, indicating feasible with manageable constraints.

Table 7-7: Program Feasibility Matrix									
Category	**Weight**	**Existing Scenario (1–5)**	**Improved Scenario (1–5)**	**Residual-Risk Scenario (1–5)**	**Final Category Score**	**Weighted Score**	**Rationale for Baseline**	**Rationale for Mitigation**	**Rationale for Contingency**
Supply	0.25	5	5	4	4.85	1.21	MWRF has available capacity (~25% utilized), proven treatment to potable standards, and an existing groundwater source.	MWRF has available capacity (~25% utilized), proven treatment to potable standards, and an existing groundwater source.	Transfer volumes can be reduced and HB can fall back on imported supplies if aquifer constraints occur.
Infrastructure	0.25	1	4.5	3	2.7	0.68	No PRV or booster pump station means no transfer can occur.	PRV or booster pump station installed and integrated into water distribution systems	Equipment or power failures can be managed, but service interruptions may occur during major events.
Cost	0.2	2.5	3	4	2.93	0.59	Capital costs for pump station and ongoing energy costs are material but competitive with import water.	Energy-efficient pumps, off-peak operations, and optimized design improve cost feasibility.	Cost escalation or power price increases can be absorbed but may reduce economic advantage.
Regulatory	0.1	4	3.5	3	3.65	0.37	CEQA review, permitting, and interagency approvals are required but no fatal regulatory barriers are identified.	Early coordination, phased approvals, and clear interagency agreements reduce schedule and approval risk.	Regulatory delays or changes can be accommodated with schedule flexibility and agreement amendments.
Environmental	0.1	4	3.5	3	3.65	0.37	Environmental impacts appear manageable with standard mitigation; no known sensitive receptors identified.	Monitoring programs and construction BMPs further reduce environmental risk.	Adaptive management allows response to unforeseen impacts without threatening feasibility.
Service Agreements	0.05	1	4.5	4	2.85	0.14	No current service agreements in place.	Given new agreements this should not pose any new challenges	City of Huntington Beach decides to buy from MWDOC and Mesa Water District as well
Demand	0.05	1	5	4	3.05	0.15	Huntington Beach has existing demand and already purchases import water; transferred water displaces imports.	Flexible delivery scheduling and operational coordination fully support demand needs.	Demand fluctuations can be accommodated by adjusting transfer volumes without system disruption.
Weighted Scores	**-**	**2.90**	**4.15**	**3.55**	**3.50**	**-**	**-**	**-**	**-**

8.0 Conclusions

This conceptual evaluation confirms the technical and financial feasibility of Mesa Water providing supplemental water supply to the City using existing groundwater production and treatment infrastructure. The MWRF, currently operating at only 25% of its capacity, offers significant untapped supply potential. Coupled with interconnection points between the two agencies, through the OC-44 pipeline, this underutilized resource presents a strategic opportunity to enhance regional water supply reliability while reducing import water dependence.

Key findings from this study include:

- **Substantial Available Capacity:** Mesa Water maintains a reliable supply, with more than 17,000 AFY of available production capacity—even when accounting for projected demand increases through 2050.
- **Financial Benefits:** In 2026, the program could generate up to approximately **$ 643,540** in revenue for Mesa Water and yield **$ 1,951,661** in cost savings for the City, with continued long-term benefit projected through 2050. This cost saving does not include initial costs such as infrastructure, legal, regulatory, and SCADA programming. With all included costs, return on investment is anticipated to be less than 5 years.
- **Scalability:** The existing capacity could also support similar water transfers to other regional agencies, such as the Laguna Beach County Water District, Santa Ana or City of Newport Beach, further maximizing Mesa Water's local resource value.

Key considerations for future evaluation include:

1. **MWRF Supply Transferability:** Coordinate with OCWD to confirm the conditions under which MWRF supply may be delivered to outside agencies while continuing to pay only the Replenishment Assessment. Evaluate the long-term impact of any production caps under the current agreement and determine whether preserving MWRF capacity for Mesa Water use is preferable.
2. **Infrastructure Requirements:** Current information provided by the City of Huntington Beach and Mesa Water District, as well as hydraulic modeling simulations, support gravity flow from Mesa Water to the City via the OC-44. Therefore there are two alternatives to achieve the water transfer program.
    a. **Alternative 1 - Gravity flow from Mesa Water to the City thought the OC-44 Pipeline**: Decrease the pressure in the OC-44 pipeline to 85 psi or lower using a pressure reducing valve. Water would be transferred through a pressure sustaining valve to maintain Mesa Water distribution system pressure above 85 psi. Under this alternative, there is approximately 4 hours during peak demands where the pressure in Mesa Water's distribution system is not sufficient to overcome the pressure required in the City's distribution system. During these times the City would be relying on 100% MWD water through the OC-44 turnout. A small booster pump station capable of 2,750 gpm at approximately 50 feet of head would be sufficient to mitigate the peak demand periods.
    b. **Alternative 2 – Boost pressure from Mesa Water District into the OC-44 Pipeline:** This alternative would require a booster pump station capable of 2,750 gpm at approximately 310 feet of head.

3. **Surge Analysis and further hydraulic modeling:** Conducting a detailed surge (transient) analysis to evaluate pressure fluctuations caused by operational events such as pump start-up/shutdown, valve operations, and power failures. The analysis will identify potential risks including excessive pressures, vacuum conditions, and system instability. Based on the findings, advanced hydraulic modeling will be carried out to assess mitigation measures (e.g., surge vessels, air valves, control strategies) and to optimize system performance and safety under both steady-state and transient conditions.

4. **Operational Strategy:** Collaborate with the City to define the delivery approach (e.g., on-demand versus steady-state flow), as each has different implications

5. **Partnership Structure:** Initiate discussions with the City to establish potential water purchase agreements, define delivery volumes, and formalize terms of the transfer program.

Appendix A

MWDOC Exhibit A Rates methodology and calculations

APPENDIX A

City of Huntington Beach Future Water Import Needs, RTS and Capacity Charges

	Calendar Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
	City of Huntington Beach Water Demand (AFY) (1)	26,138	26,225	26,311	26,399	26,424	26,448	26,473	26,498	26,523	26,486	26,449	26,412	26,375	26,338	26,279	26,219	26,160	26,100	26,041	26,044	26,047	26,050	26,053	26,056	26,059	26,062	26,065	26,068	26,071
City Import from MWDOC	Percentage of MWDOC Import to Total Demand	18.5%	27.7%	12.4%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	Volume of MWDOC Import (AFY) (2)	4,840	7,255	3,262	3,960	3,964	3,967	3,971	3,975	3,979	3,973	3,968	3,962	3,956	3,951	3,944	3,936	3,929	3,922	3,914	3,913	3,912	3,911	3,909	3,908	3,907	3,906	3,905	3,903	3,902
	MWDOC Import with 100 AFY from Mesa Water (AFY)	4,740	7,155	3,162	3,860	3,864	3,867	3,871	3,875	3,879	3,873	3,868	3,862	3,856	3,851	3,844	3,836	3,829	3,822	3,814	3,813	3,812	3,811	3,809	3,808	3,807	3,806	3,805	3,803	3,802
	MWDOC Import with 1,000 AFY from Mesa Water (AFY)	3,840	6,255	2,262	2,960	2,964	2,967	2,971	2,975	2,979	2,973	2,968	2,962	2,956	2,951	2,944	2,936	2,929	2,922	2,914	2,913	2,912	2,911	2,909	2,908	2,907	2,906	2,905	2,903	2,902
	MWDOC Import with 2,000 AFY from Mesa Water (AFY)	2,840	5,255	1,262	1,960	1,964	1,967	1,971	1,975	1,979	1,973	1,968	1,962	1,956	1,951	1,944	1,936	1,929	1,922	1,914	1,913	1,912	1,911	1,909	1,908	1,907	1,906	1,905	1,903	1,902
	MWDOC Import with 4,450 AFY from Mesa Water (AFY)	390	2,805	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MWDOC Peak Flow Rate	Increase in Peak Flow Rate (%) (3)	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%
	Peak Flow Rate of MWDOC Import (CFS) (4)	21.9	15.2	16.4	21.9	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.3	23.5	23.6	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	25.1	25.2	25.4	25.5	25.7
	Peak Flow Rate of MWDOC Import with 100 AFY from Mesa Water (CFS)	21.4	15.0	15.9	21.3	21.5	21.6	21.8	21.9	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.3	24.4	24.6	24.7	24.9	25.0
	Peak Flow Rate of MWDOC Import with 1,000 AFY from Mesa Water (CFS)	17.4	13.1	11.4	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.8	18.9	19.0	19.1
	Peak Flow Rate of MWDOC Import with 2,000 AFY from Mesa Water (CFS)	12.9	11.0	6.3	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4	11.4	11.5	11.5	11.6	11.6	11.7	11.7	11.8	11.9	11.9	12.0	12.1	12.2	12.2	12.3	12.4	12.5	12.5
	Peak Flow Rate of MWDOC Import with 4,450 AFY from Mesa Water (CFS)	1.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MWDOC Capacity Charge	Capacity Charge Annual Rate Increase (%) (5)	-	-	-	-	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%
	Member Agencies Total Capacity Charge ($M/Year) (6)	-	-	-	$ 4.09	$ 4.46	$ 4.86	$ 5.30	$ 5.77	$ 6.29	$ 6.86	$ 7.47	$ 8.15	$ 8.88	$ 9.68	$ 10.38	$ 11.12	$ 11.93	$ 12.78	$ 13.70	$ 14.69	$ 15.75	$ 16.88	$ 18.10	$ 19.40	$ 20.80	$ 22.30	$ 23.90	$ 25.62	$ 27.47
	Member Agencies Summation of Total Peak Flow (CFS) (6)	-	-	-	384.5	387.0	389.5	392.0	394.5	397.0	399.6	402.1	404.7	407.3	409.9	412.5	415.2	417.9	420.5	423.2	426.0	428.7	431.5	434.2	437.0	439.8	442.6	445.5	448.3	451.2
	Huntington Beach Capacity Charge ($/CF/Day)	-	-	-	$ 29.1	$ 31.6	$ 34.2	$ 37.0	$ 40.1	$ 43.4	$ 47.0	$ 50.9	$ 55.2	$ 59.7	$ 64.7	$ 68.9	$ 73.4	$ 78.2	$ 83.3	$ 88.7	$ 94.5	$ 100.6	$ 107.2	$ 114.2	$ 121.6	$ 129.6	$ 138.0	$ 147.0	$ 156.6	$ 166.8
MWDOC Readiness To Serve	RTS Annual Rate Increase (%) (5)	-	-	-	-	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%
	Member Agencies Total RTS ($M/Year) (7)	-	-	-	$ 17.60	$ 19.18	$ 20.91	$ 22.79	$ 24.84	$ 27.08	$ 29.52	$ 32.17	$ 35.07	$ 38.23	$ 41.67	$ 44.67	$ 47.88	$ 51.33	$ 55.03	$ 58.99	$ 63.23	$ 67.79	$ 72.67	$ 77.90	$ 83.51	$ 89.52	$ 95.97	$ 102.88	$ 110.28	$ 118.22
	Member Agencies Total Flow (AFY) (7)	185,594	135,592	99,738	140,334	123,852	120,958	126,304	122,839	122,627	123,086	122,426	122,469	122,576	122,595	122,785	122,845	122,892	122,947	122,967	122,978	122,985	122,981	122,970	122,953	122,931	122,904	122,873	122,838	122,801
	Huntington Beach RTS Charge ($/AF)	-	-	-	$ 125	$ 155	$ 173	$ 180	$ 202	$ 221	$ 240	$ 263	$ 286	$ 312	$ 340	$ 364	$ 390	$ 418	$ 448	$ 480	$ 514	$ 551	$ 591	$ 633	$ 679	$ 728	$ 781	$ 837	$ 898	$ 963

Notes

1 City of Huntington Beach water demands are identified in the 2020 UWMP in five-year increments from 2025 through 2045. Extrapolation calculated for intermediate years.

2 Volume of MWDOC import water is identified in the 2020 UWMP in five-year increments from 2025 through 2045. Extrapolation calculated for intermediate years.

3 Increase in peak flow rate based on anticipated increase in total member agency demands as identified in the MWDOC 2020 UWMP

4 Maximum flow rate of the previous 3-year peak flows recorded between May and September, escalated by 0.6% per year to match the MWDOC member agency average flow increase between 2025 and 2045 in the MWDOC 2020 UWMP

5 Calculated using the Mesa Water Local SiP treated imported water inflation rate

6 2025 Total member agency capacity charge and 3-year peak flow identified in Exhibit B of Resolution No. 2157 Municipal Water District of Orange County Establishing Water Rates

7 2025 Total member agency readiness to serve and 4-year average flow identified in Exhibit A of Resolution No. 2157 Municipal Water District of Orange County Establishing Water Rates

Appendix B

RTS and Capacity Charge

EXHIBIT A

Readiness-to-serve Charge for MWDOC Client Agencies for FY 2025-26

Metropolitan Readiness-to-Serve (RTS) Charge to MWDOC for FY 2025/26 =	$ 25,200,162
Expected Standby Revenue Less Metropolitan Administrative Charge Plus Delinquencies & Uncollectables FY 2025/26 =	$ (7,599,954)
Net MWD RTS Charge =	$ 17,600,208

Final

Agency	2020-21	2021-22	2022-23	2023-24	4-Yr Ave	AF Share (%)	Net RTS	RTS Adjustment	Net RTS	Monthly Charge July - December	Monthly Charge January - June
Brea	34	254	5	477	193	0.14%	$ 24,170.96	$ -	$ 24,170.96	$ 1,971.95	$ 2,056.55
Buena Park	1,475	1,650	1,302	665	1,273	0.91%	$ 159,669.35	$ -	$ 159,669.35	$ 13,026.36	$ 13,585.20
East Orange County Water District	3,014	5,713	5,040	3,389	4,289	3.06%	$ 537,934.74	$ -	$ 537,934.74	$ 43,886.50	$ 45,769.29
El Toro Water District	7,392	7,244	5,530	6,588	6,689	4.77%	$ 838,855.40	$ -	$ 838,855.40	$ 68,436.61	$ 71,372.62
Fountain Valley	0	0	0	0	-	0.00%	$ -	$ -	$ -	$ -	$ -
Garden Grove	5,318	5,297	3,642	4	3,565	2.54%	$ 447,126.06	$ -	$ 447,126.06	$ 36,478.03	$ 38,042.98
Golden State Water Company	7,451	8,709	8,714	7,469	8,086	5.76%	$ 1,014,107.15	$ -	$ 1,014,107.15	$ 82,734.23	$ 86,283.63
Huntington Beach	4,040	4,841	3,469	3,320	3,918	2.79%	$ 491,336.12	$ -	$ 491,336.12	$ 40,084.83	$ 41,804.52
Irvine Ranch Water District	17,134	25,245	16,773	12,085	17,809	12.69%	$ 2,233,569.32	$ -	$ 2,233,569.32	$ 182,222.01	$ 190,039.55
La Habra	562	565	222	60	352	0.25%	$ 44,174.94	$ -	$ 44,174.94	$ 3,603.94	$ 3,758.55
La Palma	0	120	4	0	31	0.02%	$ 3,887.92	$ -	$ 3,887.92	$ 317.19	$ 330.80
Laguna Beach County Water District	3,054	3,350	2,552	2,993	2,987	2.13%	$ 374,657.70	$ -	$ 374,657.70	$ 30,565.82	$ 31,877.13
Mesa Water District	67	3	0	0	17	0.01%	$ 2,182.25	$ -	$ 2,182.25	$ 178.04	$ 185.67
Moulton Niguel Water District	24,785	24,305	19,894	19,420	22,101	15.75%	$ 2,771,823.29	$ -	$ 2,771,823.29	$ 226,134.56	$ 235,836.00
Newport Beach	677	3,747	2,249	2,712	2,346	1.67%	$ 294,265.26	$ -	$ 294,265.26	$ 24,007.14	$ 25,037.07
Orange	6,707	11,796	3,296	1,535	5,833	4.16%	$ 731,594.18	$ -	$ 731,594.18	$ 59,685.89	$ 62,246.48
Orange County Water District	9	22,996	19,458	0	10,616	7.56%	$ 1,331,420.47	$ -	$ 1,331,420.47	$ 108,621.71	$ 113,281.71
San Clemente	7,671	7,535	6,464	6,301	6,993	4.98%	$ 877,002.28	$ -	$ 877,002.28	$ 71,548.76	$ 74,618.29
Santa Margarita Water District (ID9)	6,063	5,679	5,482	4,564	5,447	3.88%	$ 683,136.08	$ -	$ 683,136.08	$ 55,732.51	$ 58,123.50
Santa Margarita Water District	25,314	24,303	20,398	19,740	22,439	15.99%	$ 2,814,203.67	$ -	$ 2,814,203.67	$ 229,592.09	$ 239,441.86
Seal Beach	1,102	606	590	631	732	0.52%	$ 91,845.88	$ -	$ 91,845.88	$ 7,493.09	$ 7,814.55
Serrano Water District	1,394	1,109	819	0	831	0.59%	$ 104,158.68	$ -	$ 104,158.68	$ 8,497.61	$ 8,862.17
South Coast Water District	5,000	4,812	4,142	4,475	4,607	3.28%	$ 577,829.83	$ -	$ 577,829.83	$ 47,141.28	$ 49,163.70
Trabuco Canyon Water District	2,421	2,901	1,800	1,170	2,073	1.48%	$ 259,982.19	$ -	$ 259,982.19	$ 21,210.21	$ 22,120.15
Westminster	0	1	1,046	0	262	0.19%	$ 32,815.31	$ -	$ 32,815.31	$ 2,677.18	$ 2,792.04
Yorba Linda Water District	9,727	12,815	2,699	2,138	6,845	4.88%	$ 858,458.96	$ -	$ 858,458.96	$ 70,035.94	$ 73,040.56
Sum of MWDOC Agencies	**140,411**	**185,594**	**135,592**	**99,738**	**140,334**	**100%**	**$ 17,600,208.00**	**$ -**	**$ 17,600,208.00**	**$ 1,435,883.48**	**$ 1,497,484.57**

*totals may not foot due to rounding

EXHIBIT B
DRAFT Capacity Charge for MWDOC Member Agencies for CY 2026

Final 4/1/2025

	2022	2023	2023	Peak
MWDOC's Peak to MWD (cfs)	282.0	233.6	258.5	**282.0**
Date	8/15/2022	8/9/2023	8/2/2024	8/15/2022

Metropolitan Capacity Charge to MWDOC for CY 2025 **$ 4,089,000** *

Agency	Capacity Charge Eligible Flows (CFS)				CFS Share (%)	Annual Capacity Charge	Monthly Capacity Charge
	2022	2023	2024	3-Yr Peak			
City of Brea	1.3	7.7	15.1	**15.1**	3.93%	$ 160,582	**$ 13,382**
City of Buena Park	4.3	4.5	4.6	**4.6**	1.20%	$ 48,919	**4,077**
East Orange County Water District	18.2	17.2	17.5	**18.2**	4.73%	$ 193,550	**16,129**
El Toro Water District	17.1	13.7	12.0	**17.1**	4.45%	$ 181,851	**15,154**
City of Fountain Valley	0.0	0.0	0.0	**0.0**	0.00%	$ -	**-**
City of Garden Grove	22.3	0.0	10.7	**22.3**	5.80%	$ 237,151	**19,763**
Golden State Water Company	12.5	15.0	17.4	**17.4**	4.53%	$ 185,042	**15,420**
City of Huntington Beach	21.9	15.2	16.4	**21.9**	5.70%	$ 232,898	**19,408**
Irvine Ranch Water District	55.4	35.0	54.9	**55.4**	14.41%	$ 589,156	**49,096**
City of La Habra	4.1	2.1	3.1	**4.1**	1.07%	$ 43,602	**3,633**
City of La Palma	0.7	0.0	0.0	**0.7**	0.18%	$ 7,444	**620**
Laguna Beach County Water District	7.5	7.4	7.6	**7.6**	1.98%	$ 80,823	**6,735**
Mesa Water District	0.0	0.0	0.0	**0.0**	0.00%	$ -	**-**
Moulton Niguel Water District	43.1	32.6	34.2	**43.1**	11.21%	$ 458,351	**38,196**
City of Newport Beach	8.1	9.6	7.9	**9.6**	2.50%	$ 102,092	**8,508**
Orange County Water District	0.0	0.0	0.0	**0.0**	0.00%	$ -	**-**
City of Orange	21.0	13.6	18.3	**21.0**	5.46%	$ 223,326	**18,611**
City of San Clemente	22.0	18.9	18.9	**22.0**	5.72%	$ 233,961	**19,497**
Santa Margarita Water District (ID9)	13.0	16.8	9.5	**16.8**	4.37%	$ 178,661	**14,888**
Santa Margarita Water District	55.0	38.0	39.1	**55.0**	14.30%	$ 584,902	**48,742**
City of Seal Beach	7.5	0.1	6.0	**7.5**	1.95%	$ 79,759	**6,647**
Serrano Water District	0.0	0.0	0.0	**0.0**	0.00%	$ -	**-**
South Coast Water District	8.4	8.4	10.1	**10.1**	2.63%	$ 107,409	**8,951**
Trabuco Canyon Water District	4.6	4.2	4.8	**4.8**	1.25%	$ 51,046	**4,254**
City of Westminster	0.3	0.0	0.0	**0.3**	0.08%	$ 3,190	**266**
Yorba Linda Water District	9.9	8.7	8.0	**9.9**	2.57%	$ 105,282	**8,774**
			Total	**384.5**	**100%**	**$ 4,089,000**	**$ 340,750**
				MWDOC Capacity Charge Per CFS:		**$ 10,635**	

* Based on MWDOC's aggregate peak flow of 282 cfs on 8/15/2022 charge at MET's 2026 rate of $14,500 per cfs

Exhibit C

MWDOC Member Agency Choice Services Program Summary

Cost Allocations by Agencies for FY 2025-26

DRAFT

Retail Agency	Water Use Efficiency [1]	School Education (K-2)[2]	School Education (3-5)[2]	School Education (6-8)[2]	School Education (9-12)[2]	Water Loss Control Program [3]	Total Choice Allocation [4]
Brea	$ 24,957.85	$ 5,000.00	$ 10,000.00	$ 10,000.00	$ 2,500.00		**$ 52,458**
Buena Park	$ 20,304.31	$ 5,191.20	$ 5,420.16	$ 3,271.98	$ 1,090.66	Pending	**$ 35,278**
East Orange County WD	$ 231.01	$ 1,623.28	$ -	$ -	$ 2,181.32		**$ 4,036**
El Toro WD	$ 101,932.68	$ 7,000.00	$ 4,000.00	$ 2,500.00	$ 1,200.00	Pending	**$ 116,633**
Fountain Valley	$ 15,815.57	$ 2,484.00	$ 2,778.00	$ 4,364.00	$ 6,546.00		**$ 31,988**
Garden Grove	$ 34,856.84	$ 10,000.00	$ 10,000.00	$ 10,000.00	$ 10,000.00	Pending	**$ 74,857**
Golden State Water Company	$ 10,348.50	$ -	$ -	$ -	$ -		**$ 10,349**
Huntington Beach	$ 69,729.26	$ 15,759.00	$ 15,808.65	$ 10,906.57	$ 8,725.25	Pending	**$ 120,929**
Irvine Ranch WD	$ 258,362.45	$ -	$ -	$ -	$ -		**$ 258,362**
La Habra	$ 43,477.03	$ 4,000.00	$ 4,000.00	$ 7,000.00	$ -	Pending	**$ 58,477**
La Palma	$ 1,666.97	$ -	$ -	$ -	$ -		**$ 1,667**
Laguna Beach County WD	$ 1,898.88	$ -	$ -	$ -	$ -	Pending	**$ 1,899**
Mesa Water	$ 47,751.84	$ -	$ -	$ -	$ -		**$ 47,752**
Moulton Niguel WD	$ 207,328.24	$ 11,500.00	$ 9,000.00	$ 2,200.00	$ 4,400.00	Pending	**$ 234,428**
Newport Beach	$ 15,073.33	$ -	$ -	$ -	$ -		**$ 15,073**
Orange	$ 62,422.08	$ 4,391.92	$ 2,777.79	$ -	$ -	Pending	**$ 69,592**
Orange County WD	$ -	$ -	$ -	$ -	$ -		**$ -**
San Clemente	$ 24,716.98	$ 6,588.00	$ 1,852.00	$ 1,098.00	$ 1,091.00	Pending	**$ 35,346**
Santa Margarita WD	$ 119,324.70	$ 8,750.00	$ 8,750.00	$ 8,750.00	$ 8,750.00	Pending	**$ 154,325**
Seal Beach	$ 7,209.07	$ 1,209.22	$ 1,388.90	$ -	$ -		**$ 9,807**
Serrano WD	$ 287.28	$ -	$ 2,000.00	$ -	$ -	Pending	**$ 2,287**
South Coast WD	$ 58,703.28	$ 2,840.00	$ 2,800.00	$ 1,100.00	$ 4,400.00		**$ 69,843**
Trabuco Canyon WD	$ 26,360.46	$ 1,623.28	$ 462.96	$ 1,090.66	$ -	Pending	**$ 29,537**
Tustin	$ 16,984.55	$ 8,911.56	$ 6,944.47	$ 7,634.60	$ 6,543.94		**$ 47,019**
Westminster	$ 29,779.70	$ 5,000.00	$ 10,000.00	$ 12,000.00	$ 8,000.00	Pending	**$ 64,780**
Yorba Linda WD	$ 50,882.79	$ 3,000.00	$ 6,000.00	$ 10,000.00	$ 5,000.00		**$ 74,883**
Anaheim	$ 967.65	$ 9,500.00	$ 9,500.00	$ 9,500.00	$ 9,500.00	Pending	**$ 38,968**
Fullerton	$ 558.03	$ 4,000.00	$ 3,000.00	$ 5,000.00	$ -		**$ 12,558**
Santa Ana	$ 209.66	$ 20,000.00	$ 30,000.00	$ 15,000.00	$ 15,000.00	Pending	**$ 80,210**
Orange County Total	**$ 1,252,141**	**$ 138,371**	**$ 146,483**	**$ 121,416**	**$ 94,928**	**$ -**	**$ 1,753,339**

TBD: Pending Each Agency's Level of Service

Note: Totals may not foot due to rounding.

**** These numbers are draft and subject to change**

[1] Preliminary Cost Allocation for the Choice Water Use Efficiency Program for FY 2025-26.

[2] FY 2025-26 costs dependent upon selection of vendor and each agency's level of participation.

[3] For FY 2025-26 the Water Loss Control Program includes Technical Assistance (Year XI) and the Water Loss Control Shared Services (Year VII). Agency costs will vary based on the selection of technical assistance and shared services.

[4] Actual costs for the programs will be reflected based on agency selections, roll-over of funds from prior fiscal years, and any changes an agency may make throughout the fiscal year.

Appendix C

Financial Evaluation

MWDOC and Mesa Water District Fees, City of Huntington Beach Savings, Mesa Water District Revenue

Supply	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
MWD to City	Treated Domestic Water Cost ($/AF) (1)	$ 1,395	$ 1,521	$ 1,657	$ 1,807	$ 1,969	$ 2,146	$ 2,340	$ 2,550	$ 2,780	$ 3,030	$ 3,302	$ 3,540	$ 3,795	$ 4,068	$ 4,361	$ 4,675	$ 5,012	$ 5,373	$ 5,760	$ 6,174	$ 6,619	$ 7,095	$ 7,606	$ 8,154	$ 8,741	$ 9,370
	Increase in Treated Domestic Water Cost (%) (1)	-	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%
	Member Agency Capacity Charge ($/CFS) (1)	$ 13,000	$ 14,170	$ 15,445	$ 16,835	$ 18,351	$ 20,002	$ 21,802	$ 23,765	$ 25,903	$ 28,235	$ 30,776	$ 32,992	$ 35,367	$ 37,913	$ 40,643	$ 43,569	$ 46,706	$ 50,069	$ 53,674	$ 57,539	$ 61,682	$ 66,123	$ 70,884	$ 75,987	$ 81,458	$ 87,323
	Capacity Charge Annual Increase (calculated) (1)	-	9.0%	9%	9%	9%	9%	9%	9%	9%	9%	9%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%
	Huntington Beach Capacity Charge ($/CFS*Day) (2)	$ 29	$ 32	$ 34	$ 37	$ 40	$ 43	$ 47	$ 51	$ 55	$ 60	$ 65	$ 69	$ 73	$ 78	$ 83	$ 89	$ 94	$ 101	$ 107	$ 114	$ 122	$ 130	$ 138	$ 147	$ 157	$ 167
	3-Year Peak CFS (BASE)	21.9	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.3	23.5	23.6	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	25.1	25.2	25.4	25.5	25.7
	3-Year Peak at 100 CFS	21.3	21.5	21.6	21.8	21.9	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.3	24.4	24.6	24.7	24.9	25.0
	3-Year Peak at 1,000 CFS	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.8	18.9	19.0	19.1
	3-Year Peak at 2,000 CFS	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4	11.4	11.5	11.5	11.6	11.6	11.7	11.7	11.8	11.9	11.9	12.0	12.1	12.2	12.2	12.3	12.4	12.5	12.5
	Member Agency Readiness To Serve ($/AF) (1)	$ 181	$ 197	$ 215	$ 234	$ 255	$ 278	$ 304	$ 331	$ 361	$ 393	$ 428	$ 459	$ 492	$ 528	$ 566	$ 607	$ 650	$ 697	$ 747	$ 801	$ 859	$ 921	$ 987	$ 1,058	$ 1,134	$ 1,216
	RTS Annual Increase (Calculated) (1)	-	9.0%	9%	9%	9%	9%	9%	9%	9%	9%	9%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%
	Huntington Beach RTS ($/AF) (3)	$ 125	$ 155	$ 173	$ 180	$ 202	$ 221	$ 240	$ 263	$ 286	$ 312	$ 340	$ 364	$ 390	$ 418	$ 448	$ 480	$ 514	$ 551	$ 591	$ 633	$ 679	$ 728	$ 781	$ 837	$ 898	$ 963
	4-Year Average AFY (BASE)	3,960	3,964	3,967	3,971	3,975	3,979	3,973	3,968	3,962	3,956	3,951	3,944	3,936	3,929	3,922	3,914	3,913	3,912	3,911	3,909	3,908	3,907	3,906	3,905	3,903	3,902
	4-Year Average at 100 AFY	3,860	4,804	4,560	3,713	3,866	3,869	3,873	3,875	3,874	3,870	3,865	3,859	3,853	3,847	3,840	3,833	3,825	3,819	3,815	3,812	3,811	3,810	3,809	3,808	3,806	3,805
	4-Year Average at 1,000 AFY	2,960	4,579	4,110	3,038	2,966	2,969	2,973	2,975	2,974	2,970	2,965	2,959	2,953	2,947	2,940	2,933	2,925	2,919	2,915	2,912	2,911	2,910	2,909	2,908	2,906	2,905
	4-Year Average at 2,000 AFY	1,960	4,329	3,610	2,288	1,966	1,969	1,973	1,975	1,974	1,970	1,965	1,959	1,953	1,947	1,940	1,933	1,925	1,919	1,915	1,912	1,911	1,910	1,909	1,908	1,906	1,905
	4-Year Average at 4,450 AFY	0	3,839	3,619	2,796	2,973	2,976	2,978	2,981	2,982	2,980	2,976	2,972	2,967	2,963	2,958	2,952	2,947	2,941	2,937	2,935	2,934	2,933	2,932	2,931	2,930	2,929
	Total MWDOC Costs ($/AF) (4)	$ 1,579.23	$ 1,739.49	$ 1,900.02	$ 2,062.97	$ 2,254.11	$ 2,457.28	$ 2,677.67	$ 2,920.22	$ 3,183.11	$ 3,469.49	$ 3,781.89	$ 4,053.90	$ 4,345.89	$ 4,658.96	$ 4,994.55	$ 5,354.45	$ 5,739.99	$ 6,153.31	$ 6,596.45	$ 7,071.53	$ 7,580.86	$ 8,126.91	$ 8,712.31	$ 9,339.92	$ 10,012.76	$ 10,734.09
Mesa Water to City	Replenishment Assessment ($/AF) (5)	$ 688	$ 711	$ 736	$ 759	$ 783	$ 809	$ 837	$ 867	$ 897	$ 928	$ 961	$ 994	$ 1,029	$ 1,065	$ 1,103	$ 1,141	$ 1,181	$ 1,222	$ 1,265	$ 1,310	$ 1,355	$ 1,403	$ 1,452	$ 1,503	$ 1,555	$ 1,610
	Chemical Costs ($/AF)	$ 201	$ 208	$ 215	$ 223	$ 231	$ 239	$ 247	$ 256	$ 265	$ 274	$ 284	$ 293	$ 304	$ 314	$ 325	$ 337	$ 349	$ 361	$ 373	$ 386	$ 400	$ 414	$ 428	$ 443	$ 459	$ 475
	Energy Costs ($/AF)	$ 224	$ 232	$ 240	$ 248	$ 257	$ 266	$ 275	$ 285	$ 295	$ 305	$ 316	$ 327	$ 338	$ 350	$ 363	$ 375	$ 388	$ 402	$ 416	$ 431	$ 446	$ 461	$ 477	$ 494	$ 511	$ 529
	Inflation and OC San Rate Increase (6)	-	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%
	Brine Discharge to OC San ($/AF production) (7)	$ 52	$ 54	$ 56	$ 58	$ 60	$ 62	$ 64	$ 67	$ 69	$ 71	$ 74	$ 77	$ 79	$ 82	$ 85	$ 88	$ 91	$ 94	$ 97	$ 101	$ 104	$ 108	$ 112	$ 116	$ 120	$ 124
	Mesa Water Wheeling ($/AF) (8)	$ 140	$ 145	$ 150	$ 155	$ 160	$ 165	$ 171	$ 177	$ 183	$ 189	$ 196	$ 203	$ 210	$ 217	$ 225	$ 233	$ 241	$ 250	$ 258	$ 267	$ 277	$ 286	$ 296	$ 307	$ 317	$ 329
	MWRF Production ($/AF) (9)	$ 1,258	$ 1,301	$ 1,347	$ 1,391	$ 1,436	$ 1,485	$ 1,537	$ 1,591	$ 1,647	$ 1,704	$ 1,764	$ 1,826	$ 1,889	$ 1,956	$ 2,024	$ 2,095	$ 2,168	$ 2,244	$ 2,323	$ 2,404	$ 2,488	$ 2,575	$ 2,665	$ 2,759	$ 2,855	$ 2,955
Huntington Savings (Annual)	100 AF	$ 32,114	$ 43,858	$ 55,344	$ 67,236	$ 81,770	$ 97,216	$ 114,058	$ 132,933	$ 153,653	$ 176,529	$ 201,804	$ 222,832	$ 245,641	$ 270,335	$ 297,049	$ 325,955	$ 357,177	$ 390,920	$ 427,379	$ 466,758	$ 509,277	$ 555,174	$ 604,701	$ 658,133	$ 715,762	$ 777,902
	1,000 AF	$ 321,137	$ 438,576	$ 553,442	$ 672,356	$ 817,697	$ 972,161	$ 1,140,578	$ 1,329,329	$ 1,536,533	$ 1,765,290	$ 2,018,039	$ 2,228,315	$ 2,456,413	$ 2,703,346	$ 2,970,493	$ 3,259,550	$ 3,571,769	$ 3,909,199	$ 4,273,792	$ 4,667,581	$ 5,092,771	$ 5,551,736	$ 6,047,012	$ 6,581,330	$ 7,157,620	$ 7,779,024
	2,000 AF	$ 642,273	$ 877,151	$ 1,106,884	$ 1,344,713	$ 1,635,394	$ 1,944,323	$ 2,281,156	$ 2,658,659	$ 3,073,066	$ 3,530,580	$ 4,036,078	$ 4,456,631	$ 4,912,825	$ 5,406,692	$ 5,940,985	$ 6,519,100	$ 7,143,538	$ 7,818,398	$ 8,547,583	$ 9,335,162	$ 10,185,542	$ 11,103,471	$ 12,094,025	$ 13,162,660	$ 14,315,239	$ 15,558,048
	4,450 AF	$ 1,429,058	$ 1,951,661	$ 2,462,817	$ 2,991,986	$ 3,638,751	$ 4,326,118	$ 5,075,572	$ 5,915,516	$ 6,837,572	$ 7,855,540	$ 8,980,273	$ 9,916,004	$ 10,931,036	$ 12,029,890	$ 13,218,692	$ 14,504,998	$ 15,894,372	$ 17,395,936	$ 19,018,373	$ 20,770,734	$ 22,662,830	$ 24,705,223	$ 26,909,205	$ 29,286,920	$ 31,851,408	$ 34,616,658
Huntington Savings (Cumulative)	100 AF	$ 32,114	$ 75,971	$ 131,315	$ 198,551	$ 280,321	$ 377,537	$ 491,595	$ 624,528	$ 778,181	$ 954,710	$ 1,156,514	$ 1,379,345	$ 1,624,987	$ 1,895,321	$ 2,192,371	$ 2,518,326	$ 2,875,502	$ 3,266,422	$ 3,693,801	$ 4,160,560	$ 4,669,837	$ 5,225,010	$ 5,829,711	$ 6,487,844	$ 7,203,606	$ 7,981,509
	1,000 AF	$ 321,137	$ 759,712	$ 1,313,154	$ 1,985,511	$ 2,803,208	$ 3,775,369	$ 4,915,947	$ 6,245,276	$ 7,781,809	$ 9,547,099	$ 11,565,138	$ 13,793,454	$ 16,249,866	$ 18,953,212	$ 21,923,705	$ 25,183,255	$ 28,755,024	$ 32,664,223	$ 36,938,015	$ 41,605,596	$ 46,698,366	$ 52,250,102	$ 58,297,114	$ 64,878,444	$ 72,036,064	$ 79,815,088
	2,000 AF	$ 642,273	$ 1,519,424	$ 2,626,308	$ 3,971,021	$ 5,606,415	$ 7,550,738	$ 9,831,894	$ 12,490,553	$ 15,563,619	$ 19,094,199	$ 23,130,276	$ 27,586,907	$ 32,499,732	$ 37,906,425	$ 43,847,410	$ 50,366,510	$ 57,510,048	$ 65,328,446	$ 73,876,029	$ 83,211,191	$ 93,396,733	$ 104,500,204	$ 116,594,228	$ 129,756,889	$ 144,072,128	$ 159,630,177
	4,450 AF	$ 1,429,058	$ 3,380,719	$ 5,843,536	$ 8,835,523	$ 12,474,274	$ 16,800,392	$ 21,875,964	$ 27,791,480	$ 34,629,052	$ 42,484,592	$ 51,464,865	$ 61,380,868	$ 72,311,905	$ 84,341,795	$ 97,560,488	$ 112,065,485	$ 127,959,857	$ 145,355,793	$ 164,374,166	$ 185,144,900	$ 207,807,730	$ 232,512,953	$ 259,422,158	$ 288,709,078	$ 320,560,485	$ 355,177,143
Mesa Water Revenue	100 AF	$ 13,985	$ 14,462	$ 14,969	$ 15,460	$ 15,970	$ 16,512	$ 17,090	$ 17,688	$ 18,308	$ 18,948	$ 19,611	$ 20,298	$ 21,008	$ 21,744	$ 22,505	$ 23,292	$ 24,107	$ 24,951	$ 25,825	$ 26,728	$ 27,664	$ 28,632	$ 29,634	$ 30,671	$ 31,745	$ 32,856
	1,000 AF	$ 139,851	$ 144,616	$ 149,691	$ 154,599	$ 159,702	$ 165,123	$ 170,902	$ 176,884	$ 183,075	$ 189,483	$ 196,115	$ 202,979	$ 210,083	$ 217,436	$ 225,046	$ 232,923	$ 241,075	$ 249,512	$ 258,245	$ 267,284	$ 276,639	$ 286,321	$ 296,343	$ 306,715	$ 317,450	$ 328,560
	2,000 AF	$ 279,701	$ 289,231	$ 299,382	$ 309,198	$ 319,404	$ 330,246	$ 341,805	$ 353,768	$ 366,150	$ 378,965	$ 392,229	$ 405,957	$ 420,166	$ 434,871	$ 450,092	$ 465,845	$ 482,150	$ 499,025	$ 516,491	$ 534,568	$ 553,278	$ 572,643	$ 592,685	$ 613,429	$ 634,899	$ 657,121
	4,450 AF	$ 622,335	$ 643,540	$ 666,125	$ 687,966	$ 710,675	$ 734,798	$ 760,516	$ 787,134	$ 814,684	$ 843,198	$ 872,710	$ 903,255	$ 934,868	$ 967,589	$ 1,001,454	$ 1,036,505	$ 1,072,783	$ 1,110,330	$ 1,149,192	$ 1,189,414	$ 1,231,043	$ 1,274,130	$ 1,318,724	$ 1,364,880	$ 1,412,650	$ 1,462,093
Mesa Water Revenue (Cumulative)	100 AF	$ 13,985	$ 28,447	$ 43,416	$ 58,876	$ 74,846	$ 91,358	$ 108,448	$ 126,137	$ 144,444	$ 163,393	$ 183,004	$ 203,302	$ 224,310	$ 246,054	$ 268,558	$ 291,851	$ 315,958	$ 340,909	$ 366,734	$ 393,462	$ 421,126	$ 449,758	$ 479,393	$ 510,064	$ 541,809	$ 574,665
	1,000 AF	$ 139,851	$ 284,466	$ 434,157	$ 588,756	$ 748,458	$ 913,582	$ 1,084,484	$ 1,261,368	$ 1,444,443	$ 1,633,926	$ 1,830,040	$ 2,033,019	$ 2,243,102	$ 2,460,537	$ 2,685,583	$ 2,918,506	$ 3,159,581	$ 3,409,093	$ 3,667,339	$ 3,934,623	$ 4,211,261	$ 4,497,583	$ 4,793,925	$ 5,100,640	$ 5,418,089	$ 5,746,650
	2,000 AF	$ 279,701	$ 568,932	$ 868,315	$ 1,177,513	$ 1,496,917	$ 1,827,163	$ 2,168,968	$ 2,522,736	$ 2,888,886	$ 3,267,852	$ 3,660,081	$ 4,066,038	$ 4,486,203	$ 4,921,075	$ 5,371,167	$ 5,837,012	$ 6,319,161	$ 6,818,186	$ 7,334,677	$ 7,869,245	$ 8,422,523	$ 8,995,165	$ 9,587,851	$ 10,201,280	$ 10,836,179	$ 11,493,299
	4,450 AF	$ 622,335	$ 1,265,875	$ 1,932,000	$ 2,619,966	$ 3,330,640	$ 4,065,438	$ 4,825,954	$ 5,613,089	$ 6,427,772	$ 7,270,970	$ 8,143,680	$ 9,046,934	$ 9,981,803	$ 10,949,392	$ 11,950,846	$ 12,987,351	$ 14,060,134	$ 15,170,465	$ 16,319,657	$ 17,509,070	$ 18,740,114	$ 20,014,243	$ 21,332,967	$ 22,697,847	$ 24,110,497	$ 25,572,590

Notes

1 Calculated using the Mesa Water Local SiP treated imported water inflation rate
2 Calculated using the ratio between the City's and the member agencies anticipated 3-year peak flow rate, and the member agencies total capacity charge, see Table 3-1 and Appendix A.
3 Calculated using the ratio between the City's and member agencies anticipated 4-year average flow rate, and the member agencies total RTS, see Table 3-1 and Appendix A.
4 Calculated using the Treated Water Costs, Huntington Beach RTS, and Huntington Beach Capacity Charge. Huntington Beach Capacity charge is converted from $/CFS*Day to $/AF using the 3-year Peak Flow, 365 days in a year, and the average base flow rate
5 Calculated using the OCWD Replenishment Assessment Rate Increase spreadsheet through 2030. Rate increase after 2030 is 3.5%
6 Estimated inflation used for Replenishment Assessment, Chemical Costs, Energy Costs, and OC San Rate Increase
7 Calculated using 12 months of OC San billing data for brine discharge from MWRF, includes factor for reducing product water to brine discharge water at 95% recovery rate
8 Assumed water wheeling rate of 12%
9 Calculated through summation of Replenishment Assessment, Chemical Costs, Energy Costs, Brine Discharge, and Water Wheeling

Appendix D

Mesa Water District Raw Hydraulic Model Data

Pipe Report														**Junction Report**							**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)			Average	83.81
45G04009-23G04050	23G04050	45G04009	10	4	90	0	0	0	0	Open	0	0		23G04049	0	34.79	253.38	94.72			Minimum	2.17
23G04050-25G04007	25G04007	23G04050	708.56	3	70	0	0	0	0	Open	0	0		23G04042	2.05	30.18	253.38	96.71			Maximum	98.96
23G04035-45G04006	23G04035	45G04006	15	24	130	-3,897.95	2.76	0.02	1.08	Open	0	3897.95		23G04050	0	30.7	253.38	96.49			**Velocity**	
23G04030-28G04001	28G04001	23G04030	49.21	36	135	3,900.00	1.23	0.01	0.14	Open	0	3900		23G04033	0	34.77	253.38	94.73			Average	0.647727273
45G04006-23G04036	23G04036	45G04006	15	24	130	3,897.95	2.76	0.02	1.08	Open	0	3897.95		23G04036	0	33.94	253.3	95.05			Minimum	0
23G04042-45G04009	45G04009	23G04042	15	4	90	0	0	0	0	Open	0	0		23G04014	0	25	30	2.17			Maximum	2.76
45G04004-23G04034	23G04034	45G04004	20.68	6	110	-2.05	0.02	0	0	Open	0	2.05		23G04030	0	32.98	253.39	95.5			**Flow**	
23G04534-23G04036	23G04534	23G04036	352.92	36	135	3,897.95	1.23	0.05	0.14	Open	0	3897.95		23G04034	0	35.58	253.38	94.37			Average	1595.268182
23G04049-23G04534	23G04049	23G04534	275	36	135	3,897.95	1.23	0.04	0.14	Open	0	3897.95		23G04534	0	35.54	253.34	94.37			Minimum	0
23G04033-23G04049	23G04033	23G04049	15.24	36	135	3,897.95	1.23	0	0.14	Open	0	3897.95		28G04001	0	32.98	253.4	95.51			Maximum	3900
23G04034-23G04042	23G04042	23G04034	302.58	4	90	-2.05	0.05	0	0.01	Open	0	2.05		25G04007	0	33.42	253.38	95.31				
23G04033-45G04004	45G04004	23G04033	18.25	4	90	-2.05	0.05	0	0.01	Open	0	2.05		45G04009	0	30.35	253.38	96.64				
23G04030-23G04033	23G04033	23G04030	36.41	36	135	-3,900.00	1.23	0.01	0.14	Open	0	3900		45G04004	0	37.21	253.38	93.67				
28G04014-HILFT1	23G04014	HILIFT1	16.07	36	135	0	0	0	0	Open	0	0		45G04006	0	34.98	253.28	94.59				
HILIFT1-28G04001	HILIFT1	28G04001	20.84	36	135	0	0	0	0	Open	0	0		28G04015	0	25	30	2.17				
TANK_HILIFT-28G04014	TANK_HILIFT	23G04014	25.14	36	135	0	0	0	0	Open	0	0		28G04003	0	25	253.4	98.96				
28G04014-28G04015	23G04014	28G04015	17.81	36	135	0	0	0	0	Open	0	0										
28G04003-28G04001	28G04003	28G04001	17.48	36	135	0	0	0	0	Open	0	0										
28G04015-HILIFT2	28G04015	HILIFT2	16.66	36	135	0	0	0	0	Open	0	0										
HILIFT2-28G04003	HILIFT2	28G04003	18.96	36	135	0	0	0	0	Open	0	0										
P671	MWRF	V_MWRF	30.57	36	135	3,900.00	1.23	0	0.14	Open	0	3900										
P673	V_MWRF	28G04001	23.31	36	135	3,900.00	1.23	0	0.14	Open	0	3900										

Pipe Report														Junction Report							Pressure	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)			
45E07034-23E07350	45E07034	23E07350	15	8	120	32.04	0.2	0	0.04	Open	0	32.04		23E07334	1.11	74.06	247.62	75.2		Average	76.66847222
45E07020-23E07163	23E07163	45E07020	15	12	120	-104.32	0.3	0	0.04	Open	0	104.32		23E07380	0.7	70.81	247.61	76.61		Minimum	71.77
23E07368-23E07376	23E07368	23E07376	257.27	8	120	4.86	0.03	0	0	Open	0	4.86		23E07067	2.23	71.73	247.66	76.23		Maximum	81.54
23E07418-45E07051	23E07418	45E07051	76.5	6	110	14.21	0.16	0	0.04	Open	0	14.21		23E07163	2.58	70.17	247.64	76.9		**Velocity**	
45E07051-23E07424	45E07051	23E07424	54.31	6	110	0.21	0	0	0	Open	0	0.21		23E07142	0.53	60.46	247.66	81.12		Average	0.130246914
23E06441-45E06052	45E06052	23E06441	15	12	120	-137.63	0.39	0	0.07	Open	0	137.63		23E07384	0.61	71.4	247.61	76.35		Minimum	0
45E07006-23E07044	23E07044	45E07006	319.13	8	120	11.25	0.07	0	0.01	Open	0	11.25		23E07044	3.36	71.28	247.66	76.43		Maximum	0.41
23E07029-45E07006	45E07006	23E07029	10	8	120	9.61	0.06	0	0	Open	0	9.61		23E07029	2.11	75.11	247.66	74.77		**Flow**	
45E07014-45E07016	45E07014	45E07016	552.89	6	110	17.65	0.2	0.03	0.06	Open	0	17.65		23E07057	0	65.27	247.67	79.03		Average	28.6445679
45E07016-23E07147	45E07016	23E07147	45.55	6	110	13.85	0.16	0	0.04	Open	0	13.85		23E07390	0	81.05	247.61	72.17		Minimum	0
23E07207-45E07023	23E07207	45E07023	15	8	120	4.34	0.03	0	0	Open	0	4.34		23E07056	1.13	66.94	247.67	78.31		Maximum	137.63
23E07029-23E07116	23E07029	23E07116	260.82	8	120	5.19	0.03	0	0	Open	0	5.19		23E07389	0.59	79.81	247.61	72.71			
23E07044-23E07056	23E07056	23E07044	317	8	120	17.65	0.11	0	0.01	Open	0	17.65		23E07277	3.13	70.86	247.61	76.59			
23E07056-23E07057	23E07057	23E07056	15	12	120	18.78	0.05	0	0	Open	0	18.78		23E07289	1.27	76.09	247.61	74.32			
23E07389-23E07390	23E07389	23E07390	13	12	120	-7.12	0.02	0	0	Open	0	7.12		23E07116	1.56	68.51	247.66	77.63			
23E07417-23E07418	23E07417	23E07418	150.5	6	110	14.21	0.16	0.01	0.04	Open	0	14.21		23E07409	0	70.91	247.6	76.56			
45E07027-23E07350	23E07350	45E07027	15	8	120	16.09	0.1	0	0.01	Open	0	16.09		23E07411	0	71.52	247.61	76.3			
23E07207-45E07027	45E07027	23E07207	653.76	8	120	12.4	0.08	0	0.01	Open	0	12.4		23E07410	0	71.38	247.6	76.36			
23E07350-45E07035	23E07350	45E07035	15.01	8	120	15.96	0.1	0	0.01	Open	0	15.96		23E07327	3.87	65.76	247.63	78.8			
45E07035-23E07368	45E07035	23E07368	584.17	8	120	12.29	0.08	0	0.01	Open	0	12.29		23E07350	0	76.06	247.62	74.34			
45E07024-23E07277	23E07277	45E07024	174.63	6	110	-3.81	0.04	0	0	Open	0	3.81		23E07376	1.96	73.23	247.61	75.56			
23E07207-45E07024	45E07024	23E07207	15	6	110	-3.81	0.04	0	0	Open	0	3.81		23E07207	4.26	66.96	247.61	78.28			
45E07023-45E07030	45E07023	45E07030	780.46	8	120	-2.07	0.01	0	0	Open	0	2.07		23E07368	4.99	68.46	247.61	77.63			
45E07030-23E07376	45E07030	23E07376	15	8	120	-8.86	0.06	0	0	Open	0	8.86		23E07399	1.25	72.38	247.63	75.93			
23E07289-45E07028	23E07289	45E07028	152.62	6	110	-2.44	0.03	0	0	Open	0	2.44		23E07121	17.42	71.45	247.63	76.34			
45E07028-23E07368	45E07028	23E07368	15	6	110	-2.44	0.03	0	0	Open	0	2.44		23E07086	2.44	66.6	247.65	78.45			
23E07376-45E07036	23E07376	45E07036	15	8	120	-5.97	0.04	0	0	Open	0	5.97		23E07147	5.55	70.17	247.63	76.89			
45E07036-23E07380	45E07036	23E07380	91.88	8	120	-6.23	0.04	0	0	Open	0	6.23		23E07146	0.8	61.09	247.66	80.84			
23E07380-45E07037	23E07380	45E07037	11.1	8	120	-6.93	0.04	0	0	Open	0	6.93		23E07424	4.67	78.74	247.59	73.16			
23E07163-45E07032	45E07032	23E07163	631.71	12	120	-93.19	0.26	0.02	0.04	Open	0	93.19		23E07418	0	77.36	247.59	73.76			
45E07038-23E07389	45E07038	23E07389	232	8	120	-6.53	0.04	0	0	Open	0	6.53		23E07148	4.85	64.94	247.64	79.16			
23E07147-45E07031	23E07147	45E07031	843.71	6	110	8.3	0.09	0.01	0.01	Open	0	8.3		23E06459	1.72	66.53	247.66	78.48			
45E07031-23E07384	45E07031	23E07384	15	6	110	2.28	0.03	0	0	Open	0	2.28		23E06458	1.13	69.8	247.66	77.07			
45E07014-23E07116	23E07116	45E07014	14.05	6	110	20.52	0.23	0	0.07	Open	0	20.52		23E07417	0	72.05	247.6	76.07			
45E06059-45E07012	45E06059	45E07012	462.93	8	120	64.27	0.41	0.06	0.13	Open	0	64.27		23E07401	0	71.52	247.61	76.3			
23E06459-45E07005	23E06459	45E07005	200.53	6	110	-2.33	0.03	0	0	Open	0	2.33		46E07030	1.17	76.98	247.61	73.94			
23E07101-23E07142	23E07101	23E07142	229.39	8	120	60.94	0.39	0.03	0.12	Open	0	60.94		46E07029	0.68	70.86	247.61	76.59			
23E07401-23F07297	23E07401	23F07297	246.61	12	120	69.38	0.2	0.01	0.02	Open	0	69.38		45E07012	3.19	70.77	247.63	76.63			
23E07334-45E07034	23E07334	45E07034	130.85	8	120	32.37	0.21	0	0.04	Open	0	32.37		45E07015	0.74	68.11	247.66	77.8			
45E07026-23E07334	45E07026	23E07334	89.77	8	120	33.47	0.21	0	0.04	Open	0	33.47		45E07014	2.87	68.93	247.66	77.44			
45E07012-23E07121	23E07121	45E07012	15	8	120	-61.08	0.39	0	0.12	Open	0	61.08		45E07006	1.64	76.52	247.66	74.16			
23E07121-23F07103	23F07103	23E07121	364.93	8	120	-43.66	0.28	0.02	0.06	Open	0	43.66		45E07034	0.33	75.07	247.62	74.77			
45E07010-23E07086	23E07086	45E07010	15	6	110	5.16	0.06	0	0.01	Open	0	5.16		45E07023	6.41	66.33	247.61	78.55			
45E07018-23E07146	45E07018	23E07146	92.73	8	120	18.42	0.12	0	0.01	Open	0	18.42		45E07024	0	67	247.61	78.26			
23E07142-45E07019	45E07019	23E07142	54.42	8	120	-41.99	0.27	0	0.06	Open	0	41.99		45E07028	0	68.42	247.61	77.64			
23E07327-45E07026	23E07327	45E07026	34.88	8	120	33.56	0.21	0	0.04	Open	0	33.56		45E07036	0.27	73.02	247.61	75.65			
23E07142-45E07018	23E07142	45E07018	15	8	120	18.42	0.12	0	0.01	Open	0	18.42		45E07030	6.8	73.09	247.61	75.62			
23E07277-46E07029	46E07029	23E07277	10	6	110	-0.68	0.01	0	0	Open	0	0.68		45E07037	0.65	69.99	247.61	76.96			
46E07030-23E07289	46E07030	23E07289	10	6	110	-1.17	0.01	0	0	Open	0	1.17		45E07038	0.61	71.4	247.61	76.35			
45E07005-23E07044	45E07005	23E07044	15	6	110	-3.05	0.03	0	0	Open	0	3.05		45E07031	6.02	70.39	247.61	76.79			
45E07007-23E07057	23E07057	45E07007	14.95	12	120	-134.79	0.38	0	0.07	Open	0	134.79		45E07016	3.81	69.23	247.63	77.3			
23E06470-45E07010	23E06470	45E07010	324.15	6	110	-4.99	0.06	0	0.01	Open	0	4.99		45E07005	0.72	71.1	247.66	76.5			
23E07327-23E07399	23E07399	23E07327	158.68	8	120	-1.25	0.01	0	0	Open	0	1.25		45E07007	1.8	65.78	247.67	78.81			
45E07019-23E07327	23E07327	45E07019	633.34	8	120	-38.67	0.25	0.03	0.05	Open	0	38.67		45E07009	0.41	63.48	247.67	79.81			
45E07037-23E07384	45E07037	23E07384	172.02	8	120	-7.58	0.05	0	0	Open	0	7.58		45E07010	0.16	67.88	247.65	77.9			
23E07067-23E07086	23E07086	23E07067	147.52	12	120	-113.37	0.32	0.01	0.05	Open	0	113.37		45E07051	14	78.34	247.59	73.34			
45E06052-45E07007	45E06052	45E07007	309.86	12	120	136.59	0.39	0.02	0.07	Open	0	136.59		45E07021	0.43	70.52	247.64	76.75			
23E07410-45E07049	23E07410	45E07049	15	8	130	14.21	0.09	0	0.01	Open	0	14.21		45E07020	1.45	70.35	247.64	76.82			
45E07039-23E07401	45E07039	23E07401	303.18	12	120	83.59	0.24	0.01	0.03	Open	0	83.59		45E07032	2.23	80.52	247.62	72.4			
45E07049-23E07417	45E07049	23E07417	49.68	8	130	14.21	0.09	0	0.01	Open	0	14.21		45E07018	0	60.46	247.66	81.12			
45E07044-23E07411	45E07044	23E07411	701.15	8	130	-14.21	0.09	0	0.01	Open	0	14.21		45E07019	3.32	59.47	247.66	81.54			
23E07409-45E07043	23E07409	45E07043	10	8	130	0	0	0	0	Open	0	0		45E07026	0.08	67.96	247.63	77.85			
23E07390-45E07039	23E07390	45E07039	15	12	120	83.83	0.24	0	0.03	Open	0	83.83		45E07035	3.66	75.38	247.62	74.63			

23E07148-45E07021	45E07021	23E07148	176.91	6	110	8.13	0.09	0	0.01	Open	0	8.13		45E07027	3.68	76.06	247.62	74.34			
23E06458-23E07029	23E07029	23E06458	213.67	6	110	2.31	0.03	0	0	Open	0	2.31		45E07039	0.25	81.97	247.61	71.77			
23E06461-23E07148	23E06461	23E07148	490.17	6	110	-3.27	0.04	0	0	Open	0	3.27		45E06052	1.04	62.99	247.69	80.03			
45E07043-23E07410	45E07043	23E07410	15	8	130	0	0	0	0	Open	0	0		46E06041	1.19	68.84	247.66	77.48			
23E07410-45E07044	23E07410	45E07044	15	8	130	-14.21	0.09	0	0.01	Open	0	14.21		46E06042	0.61	65.75	247.66	78.82			
45E07032-23E07390	23E07390	45E07032	14.84	12	120	-90.96	0.26	0	0.03	Open	0	90.96		45E07044	0	71.79	247.6	76.18			
23E07086-45E07020	45E07020	23E07086	284.23	12	120	-105.78	0.3	0.01	0.05	Open	0	105.78		45E07049	0	71.72	247.6	76.21			
46E06042-23E06459	46E06042	23E06459	15	6	110	-0.61	0.01	0	0	Open	0	0.61		45E07043	0	71.2	247.6	76.43			
46E06041-23E06458	23E06458	46E06041	15	6	110	1.19	0.01	0	0	Open	0	1.19		45E07041	0	71.52	247.61	76.3			
23E07401-45E07041	23E07401	45E07041	6.06	8	130	14.21	0.09	0	0.01	Open	0	14.21									
45E07041-23E07411	45E07041	23E07411	20.04	8	130	14.21	0.09	0	0.01	Open	0	14.21									
45F07070-23E07424	23E07424	45F07070	1,001.04	6	110	-4.45	0.05	0	0	Open	0	4.45									
45E07015-23E07146	23E07146	45E07015	122.87	8	120	17.62	0.11	0	0.01	Open	0	17.62									
23E07116-45E07015	45E07015	23E07116	15.96	8	120	16.89	0.11	0	0.01	Open	0	16.89									
45E07009-23E07067	23E07067	45E07009	112.3	12	120	-115.6	0.33	0.01	0.05	Open	0	115.6									
23E07057-45E07009	45E07009	23E07057	15	12	120	-116.01	0.33	0	0.05	Open	0	116.01									
45E07021-23E07163	23E07163	45E07021	15	6	110	8.56	0.1	0	0.02	Open	0	8.56									
23E07384-45E07038	23E07384	45E07038	15	8	120	-5.92	0.04	0	0	Open	0	5.92									

Pipe Report														Junction Report							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
45E14033-23E14174	45E14033	23E14174	13	6	110	-28.88	0.33	0	0.14	Open	0	28.88		23E14174	1.39	110.02	246.56	59.16		Average	61.66935252
23E14271-23E14273	23E14271	23E14273	252.51	8	120	6.67	0.04	0	0	Open	0	6.67		23E14220	0	107.02	246.56	60.46		Minimum	56.8
23E14251-23E14259	23E14259	23E14251	15.41	8	120	-104.99	0.67	0.01	0.33	Open	0	104.99		23E14251	0	103.08	246.55	62.17		Maximum	65.86
23E14259-23E14260	23E14259	23E14260	217.45	8	120	69.9	0.45	0.03	0.15	Open	0	69.9		23E14259	0	103.86	246.55	61.83		**Velocity**	
45E14069-23E15038	45E14069	J462	11.13	6	110	35.1	0.4	0	0.2	Open	0	35.1		23E14246	0	103.34	246.49	62.03		Average	0.124267516
45E14033-45E14034	45E14034	45E14033	1,297.00	6	110	-17.34	0.2	0.07	0.06	Open	0	17.34		23E14217	0	111.15	246.56	58.67		Minimum	0
23E14220-45E14042	23E14220	45E14042	17	6	110	0	0	0	0	Open	0	0		23E15115	3.95	101.06	246.45	63		Maximum	0.67
23E14174-23E14220	23E14220	23E14174	245.66	8	120	-17.69	0.11	0	0.01	Open	0	17.69		23E15069	0	106.59	246.45	60.6		**Flow**	
23E14220-45E14049	45E14049	23E14220	499.76	8	120	-17.69	0.11	0.01	0.01	Open	0	17.69		23E15061	0	111.12	246.45	58.64		Average	21.0356051
23E14251-45E14053	23E14251	45E14053	17.98	8	120	-87.3	0.56	0	0.23	Open	0	87.3		23E15047	6.55	107.2	246.45	60.34		Minimum	0
45E14049-23E14251	23E14251	45E14049	14.99	8	120	-17.69	0.11	0	0.01	Open	0	17.69		23E15072	0	98.39	246.45	64.16		Maximum	207.66
23E14259-45E14069	45E14069	23E14259	66.37	6	110	-35.1	0.4	0.01	0.2	Open	0	35.1		23E15041	0	108.92	246.46	59.6			
23E14224-45E14052	23E14224	45E14052	565.45	8	120	-30.15	0.19	0.02	0.03	Open	0	30.15		23E15110	1.9	100.12	246.45	63.4			
23E14418-45E15003	45E15003	23E14418	229.74	6	120	-17.87	0.2	0.01	0.05	Open	0	17.87		23E15088	0	104.49	246.45	61.51			
45E14070-23E14327	23E14327	45E14070	190.65	6	110	4.97	0.06	0	0.01	Open	0	4.97		23E15099	0.57	99.85	246.45	63.52			
23E14154-45E14050	45E14050	23E14154	1,160.56	16	135	-207.66	0.33	0.04	0.03	Open	0	207.66		23E15083	4.11	110.33	246.45	58.98			
23E14210-23E14226	23E14226	23E14210	197.67	8	120	-9.45	0.06	0	0	Open	0	9.45		23E15080	0	107.98	246.45	60			
45E14065-23E14449	45E14065	23E14449	311.03	6	120	2.64	0.03	0	0	Open	0	2.64		23E15113	0	107.61	246.45	60.16			
23E15099-23E15110	23E15110	23E15099	104.02	6	110	-6.47	0.07	0	0.01	Open	0	6.47		23E15046	0	105.31	246.46	61.16			
23E14226-23E14245	23E14245	23E14226	210.57	8	120	12.51	0.08	0	0.01	Open	0	12.51		23E14202	0	102.94	246.49	62.2			
45E14028-23E14174	23E14174	45E14028	453.91	8	120	-47.96	0.31	0.03	0.08	Open	0	47.96		23E14210	10.07	103.44	246.49	61.98			
45E14062-23E14445	45E14062	23E14445	311.87	6	120	3.93	0.04	0	0	Open	0	3.93		23E14245	0.65	102.57	246.49	62.36			
70388	23E14202	J476	5.53	8	120	-36.69	0.23	0	0.05	Open	0	36.69		23E14328	0.76	98.79	246.49	64			
23E14328-23E14450	23E14450	23E14328	247.45	8	120	27.21	0.17	0.01	0.03	Open	0	27.21		23E14274	0	102.68	246.49	62.31			
45E14071-23E14328	23E14328	45E14071	15	8	120	5.91	0.04	0	0	Open	0	5.91		23E14273	8.64	101.74	246.49	62.72			
23E14327-45E14071	45E14071	23E14327	15	8	120	5.91	0.04	0	0	Open	0	5.91		23E14254	0	101.35	246.54	62.91			
23E15084-23E15088	23E15088	23E15084	87.2	6	110	-6.2	0.07	0	0.01	Open	0	6.2		23E14416	0	101.79	246.47	62.69			
23E15041-45E15005	23E15041	45E15005	15	6	110	4.12	0.05	0	0	Open	0	4.12		23E14418	0.61	102.1	246.47	62.56			
23E14209-45E14040	45E14040	23E14209	330.61	6	110	0	0	0	0	Open	0	0		23E14360	0	99.77	246.48	63.57			
23E15076-45E15018	23E15076	45E15018	15	6	110	13.68	0.16	0	0.04	Open	0	13.68		23E14359	0	99.51	246.48	63.68			
45E15021-23E15099	23E15099	45E15021	15	6	110	-0.85	0.01	0	0	Open	0	0.85		23E14260	0	104.1	246.52	61.71			
23E15115-45E15025	45E15025	23E15115	10	6	110	0	0	0	0	Open	0	0		23E14399	0	105.63	246.52	61.05			
23E14264-45E14060	23E14264	45E14060	10	6	120	24.07	0.27	0	0.09	Open	0	24.07		23E15062	0.68	110.92	246.45	58.73			
45E14060-23E14359	45E14060	23E14359	133.72	6	120	24.07	0.27	0.01	0.09	Open	0	24.07		23E15060	0	107.08	246.45	60.39			
23E14406-45E14076	45E14076	23E14406	100.62	6	120	-5.79	0.07	0	0.01	Open	0	5.79		23E15076	0	109.08	246.45	59.52			
45E14076-23E14416	23E14416	45E14076	15	6	120	-5.12	0.06	0	0.01	Open	0	5.12		23E14327	0.94	102.79	246.49	62.26			
23E14416-45E14077	45E14077	23E14416	15	6	120	-14	0.16	0	0.03	Open	0	14		23E15112	0	107.61	246.45	60.16			
45E15001-23E15071	23E15071	45E15001	405.96	6	110	-23.81	0.27	0.04	0.1	Open	0	23.81		23E15053	0	98.9	246.45	63.93			
23E14273-45E14065	23E14273	45E14065	10	6	120	3.46	0.04	0	0	Open	0	3.46		23E15004	0.72	111.08	246.46	58.66			
45E15015-23E15072	45E15015	23E15072	10	6	120	-2.08	0.02	0	0	Open	0	2.08		23E15075	0	110.31	246.45	58.99			
45E15023-23E15110	45E15023	23E15110	15	6	110	1.49	0.02	0	0	Open	0	1.49		23E15084	0.92	109.04	246.45	59.54			
23E15088-45E15020	23E15088	45E15020	15	6	110	2.37	0.03	0	0	Open	0	2.37		23E15078	0	107.98	246.45	60			
45E15020-45E15023	45E15020	45E15023	225.78	6	110	1.92	0.02	0	0	Open	0	1.92		23E15090	0	103.97	246.45	61.74			
23E15061-45E15011	45E15011	23E15061	10	6	110	-9.36	0.11	0	0.02	Open	0	9.36		23E15089	2.19	111	246.45	58.69			
45E15011-23E15062	23E15062	45E15011	15	6	110	-9.36	0.11	0	0.02	Open	0	9.36		23E14209	0	115.4	246.49	56.8			
23E14289-23E14292	23E14289	23E14292	1,248.83	16	135	109.76	0.18	0.01	0.01	Open	0	109.76		23E14228	0	110.24	246.48	59.03			
23E14255-23E14257	23E14257	23E14255	311.04	16	135	-108.39	0.17	0	0.01	Open	0	108.39		23E14305	0.74	102.67	246.49	62.32			
23E14445-45E14079	23E14445	45E14079	15	6	120	3.15	0.04	0	0	Open	0	3.15		23E14292	1.37	103.94	246.55	61.79			
45E14079-23E14449	45E14079	23E14449	237.36	6	120	-0.8	0.01	0	0	Open	0	0.8		23E14255	0	106.88	246.55	60.52			
23E14352-23E14378	23E14378	23E14352	33.09	6	120	-6.45	0.07	0	0.01	Open	0	6.45		23E14449	1.84	99.67	246.49	63.62			
23E14352-45E14072	23E14352	45E14072	76.52	6	120	-7.04	0.08	0	0.01	Open	0	7.04		23E14445	0.78	100.4	246.49	63.3			
45E14040-23E14210	23E14210	45E14040	15	6	110	6.69	0.08	0	0.01	Open	0	6.69		23E14289	0	107.11	246.56	60.42			
23E14264-45E14058	23E14264	45E14058	271.05	8	120	11.36	0.07	0	0.01	Open	0	11.36		23E14257	0	101.08	246.55	63.03			
23E14274-23E14275	23E14274	23E14275	9.71	8	120	-3.81	0.02	0	0	Open	0	3.81		23E14405	0	101.43	246.47	62.85			
45E15004-23E15041	45E15004	23E15041	15	6	110	5.61	0.06	0	0.01	Open	0	5.61		23E14378	0	101.98	246.48	62.61			
45E15002-23E15041	23E15041	45E15002	15	6	110	1.49	0.02	0	0	Open	0	1.49		23E14401	0.12	103.32	246.48	62.03			
23E15004-45E15002	45E15002	23E15004	129.7	6	110	0.72	0.01	0	0	Open	0	0.72		23E14406	0.53	103.98	246.48	61.74			
23E15088-23E15090	23E15090	23E15088	14.95	6	110	-3.83	0.04	0	0	Open	0	3.83		23E14402	0	102.62	246.47	62.33			
45E15012-23E15069	23E15069	45E15012	10	8	120	-5.5	0.04	0	0	Open	0	5.5		23E14427	0.74	102.36	246.47	62.44			
45E14077-23E14418	23E14418	45E14077	12.84	6	120	-14	0.16	0	0.03	Open	0	14		23E14369	0.86	100.16	246.48	63.4			
45E14078-23E14427	23E14427	45E14078	84.6	6	120	5.38	0.06	0	0.01	Open	0	5.38		23E14352	0.59	100.74	246.48	63.15			
23E14418-45E14078	45E14078	23E14418	15	6	120	4.48	0.05	0	0	Open	0	4.48		23E14450	2.05	99.08	246.5	63.88			
23E14275-23E14284	23E14275	23E14284	28.26	8	120	-3.81	0.02	0	0	Open	0	3.81		23E15073	8.86	98.39	246.45	64.16			

45E14074-23E14369	45E14074	23E14369	136.11	6	120	6.98	0.08	0	0.01	Open	0	6.98		23E15071	6.67	98.43	246.45	64.14			
45E14055-23E14257	45E14055	23E14257	6.74	16	135	-108.39	0.17	0	0.01	Open	0	108.39		23E15038	2.07	107.39	246.47	60.26			
23E14231-45E14051	23E14231	45E14051	495.53	16	135	-19.84	0.03	0	0	Open	0	19.84		23E15119	0	94.45	246.45	65.86			
23E14260-45E14059	23E14260	45E14059	10	6	110	0.59	0.01	0	0	Open	0	0.59		23E14284	0	103.1	246.49	62.13			
45E14059-23E14399	45E14059	23E14399	237.39	6	110	0	0	0	0	Open	0	0		23E14275	0	103.33	246.49	62.03			
23E14450-45E15001	45E15001	23E14450	10	6	110	-27.82	0.32	0	0.13	Open	0	27.82		23E14258	0	100.98	246.54	63.07			
23E15110-23E15115	23E15115	23E15110	179.53	6	110	-6.06	0.07	0	0.01	Open	0	6.06		23E14288	0	100.72	246.54	63.18			
23E15113-23E15119	23E15119	23E15113	311.42	6	110	-4.05	0.05	0	0	Open	0	4.05		23E15039	0	109.84	246.46	59.2			
23E15115-45E15026	45E15026	23E15115	176.99	6	110	-2.11	0.02	0	0	Open	0	2.11		23E14287	0	103.77	246.49	61.84			
45E15014-23E15113	23E15113	45E15014	496.07	6	110	-7.18	0.08	0.01	0.01	Open	0	7.18		23E14264	33.87	100.64	246.49	63.2			
23E14360-45E14074	23E14360	45E14074	10	6	120	7.7	0.09	0	0.01	Open	0	7.7		23E14226	10.15	106.83	246.48	60.51			
23E14402-23E14427	23E14427	23E14402	25.84	6	120	-6.12	0.07	0	0.01	Open	0	6.12		23E14286	0	108.83	246.49	59.65			
23E14253-45E14055	23E14253	45E14055	8.91	16	135	-108.39	0.17	0	0.01	Open	0	108.39		23E14271	0	102.05	246.49	62.58			
45E14054-23E14254	23E14254	45E14054	4.81	8	120	-87.23	0.56	0	0.23	Open	0	87.23		23E14252	0	104.39	246.56	61.6			
23E14253-45E14054	45E14054	23E14253	5.08	8	120	-87.23	0.56	0	0.23	Open	0	87.23		23E14253	0	101.35	246.55	62.91			
23E15069-23E15075	23E15069	23E15075	138.13	8	120	13.68	0.09	0	0.01	Open	0	13.68		45E14049	0	102.63	246.55	62.36			
23E15075-23E15076	23E15075	23E15076	13.18	8	120	13.68	0.09	0	0.01	Open	0	13.68		45E14069	0	107.73	246.54	60.14			
45E15017-23E15080	23E15080	45E15017	10	6	110	0	0	0	0	Open	0	0		45E14070	2.62	101.98	246.49	62.62			
23E15083-45E15021	45E15021	23E15083	238.83	6	110	-2.45	0.03	0	0	Open	0	2.45		45E14062	0.76	101.71	246.49	62.73			
23E15047-45E15009	23E15047	45E15009	10	6	110	8.19	0.09	0	0.01	Open	0	8.19		45E15007	0	105.44	246.46	61.1			
45E15009-23E15060	45E15009	23E15060	56.62	6	110	8.19	0.09	0	0.01	Open	0	8.19		45E15003	3.97	104.99	246.46	61.3			
23E15071-23E15072	23E15071	23E15072	11.34	6	110	17.14	0.19	0	0.05	Open	0	17.14		45E15002	0.78	107.18	246.46	60.35			
23E15072-23E15073	23E15072	23E15073	7.13	6	110	15.05	0.17	0	0.04	Open	0	15.05		45E14058	0	102.05	246.49	62.58			
45E15007-23E15047	45E15007	23E15047	122.55	6	110	16.03	0.18	0.01	0.05	Open	0	16.03		45E14079	3.95	100.16	246.49	63.4			
45E15005-45E15006	45E15005	45E15006	271.42	6	110	3.44	0.04	0	0	Open	0	3.44		45E15021	1.6	100.56	246.45	63.21			
23E14287-23E14328	23E14328	23E14287	68.01	8	120	20.54	0.13	0	0.02	Open	0	20.54		45E15001	4.01	99.08	246.49	63.87			
23E14273-23E14274	23E14273	23E14274	38.87	8	120	-5.43	0.03	0	0	Open	0	5.43		45E14045	11.81	106.81	246.48	60.52			
45E14067-23E14287	45E14067	23E14287	15	8	120	-3.81	0.02	0	0	Open	0	3.81		45E14040	6.69	103.69	246.49	61.87			
45E14058-23E14271	45E14058	23E14271	15.02	8	120	11.36	0.07	0	0.01	Open	0	11.36		45E14077	0	101.79	246.47	62.69			
23E15047-45E15008	23E15047	45E15008	138.28	6	110	1.29	0.01	0	0	Open	0	1.29		45E14076	0.68	101.85	246.47	62.67			
23E14305-45E14070	45E14070	23E14305	136.98	6	110	2.35	0.03	0	0	Open	0	2.35		45E14033	11.54	109.6	246.56	59.35			
45E14072-23E14359	45E14072	23E14359	15	6	120	-7.49	0.09	0	0.01	Open	0	7.49		45E14065	0.82	101.41	246.49	62.86			
23E14202-23E14210	23E14210	23E14202	160.02	8	120	-26.21	0.17	0	0.02	Open	0	26.21		45E15019	0	109.04	246.45	59.54			
45E14061-23E14287	23E14287	45E14061	15	8	120	16.73	0.11	0	0.01	Open	0	16.73		45E15015	3.13	98.39	246.45	64.16			
23E14284-23E14286	23E14284	23E14286	289.48	8	120	-3.81	0.02	0	0	Open	0	3.81		45E14060	0	100.3	246.49	63.34			
45E14056-23E14289	23E14289	45E14056	36.37	16	135	-109.76	0.18	0	0.01	Open	0	109.76		45E14072	0.45	99.49	246.48	63.69			
23E14252-45E14056	45E14056	23E14252	15	16	135	-109.76	0.18	0	0.01	Open	0	109.76		45E14054	0	101.35	246.54	62.91			
23E14271-45E14062	23E14271	45E14062	9.16	6	120	4.69	0.05	0	0	Open	0	4.69		45E14055	0	102.36	246.55	62.48			
45E15026-23E15119	23E15119	45E15026	54	6	110	4.05	0.05	0	0	Open	0	4.05		45E14051	1.31	102.76	246.55	62.3			
23E14252-45E14053	45E14053	23E14252	17	8	120	-87.3	0.56	0	0.23	Open	0	87.3		45E14034	27.82	102.99	246.49	62.18			
23E14260-23E14264	23E14260	23E14264	171.15	8	120	69.3	0.44	0.03	0.15	Open	0	69.3		45E15014	6.02	111.07	246.45	58.66			
23E14255-23E14292	23E14292	23E14255	74.89	16	135	108.39	0.17	0	0.01	Open	0	108.39		45E15024	4.77	108.06	246.45	59.96			
23E14245-23E14246	23E14246	23E14245	25.38	6	110	0	0	0	0	Open	0	0		45E15017	0	107.98	246.45	60			
23E15080-45E15019	45E15019	23E15080	5.58	6	110	-7.12	0.08	0	0.01	Open	0	7.12		45E14053	0	103.34	246.56	62.06			
23E14258-23E14288	23E14288	23E14258	32.1	8	120	-57.08	0.36	0	0.11	Open	0	57.08		45E15012	3.19	106.56	246.45	60.62			
23E14245-45E14061	45E14061	23E14245	211.77	8	120	13.17	0.08	0	0.01	Open	0	13.17		45E14074	0.72	99.97	246.48	63.48			
23E15060-23E15069	23E15060	23E15069	15	8	120	8.19	0.05	0	0	Open	0	8.19		45E14073	0	99.77	246.48	63.57			
23E15039-23E15061	23E15061	23E15039	94.98	6	110	-22.56	0.26	0.01	0.09	Open	0	22.56		45E14078	0.9	102.09	246.47	62.56			
23E15038-23E15039	23E15039	23E15038	41.66	6	110	-28.18	0.32	0.01	0.14	Open	0	28.18		45E14071	0	100.66	246.49	63.19			
23E14401-23E14406	23E14406	23E14401	21.43	6	120	-6.33	0.07	0	0.01	Open	0	6.33		45E14061	3.56	105.88	246.49	60.93			
23E15073-23E15099	23E15099	23E15073	374.92	6	110	-6.19	0.07	0	0.01	Open	0	6.19		45E15018	0	110.37	246.45	58.96			
23E15062-45E15012	45E15012	23E15062	521.51	8	120	-8.69	0.06	0	0	Open	0	8.69		45E15020	0.45	105.34	246.45	61.14			
45E15008-23E15053	45E15008	23E15053	136.4	6	120	1.05	0.01	0	0	Open	0	1.05		45E15023	0.43	101.07	246.45	62.99			
45E14034-23E14202	23E14202	45E14034	15	6	110	10.48	0.12	0	0.02	Open	0	10.48		45E15025	0	101.05	246.45	63			
45E14050-23E14252	23E14252	45E14050	15	16	135	-197.06	0.31	0	0.03	Open	0	197.06		45E15004	0	110.52	246.46	58.9			
23E15053-45E15015	23E15053	45E15015	184.68	6	120	1.05	0.01	0	0	Open	0	1.05		45E15005	0.68	107.17	246.46	60.36			
23E14286-45E14067	23E14286	45E14067	23.19	8	120	-3.81	0.02	0	0	Open	0	3.81		45E14059	0.59	103.17	246.52	62.11			
23E14360-23E14405	23E14360	23E14405	133.86	6	120	8.88	0.1	0	0.01	Open	0	8.88		45E14056	0	103.8	246.56	61.86			
45E15024-23E15112	23E15112	45E15024	11.3	6	110	3.13	0.04	0	0	Open	0	3.13		45E14050	10.6	105.07	246.56	61.31			
23E15089-45E15024	45E15024	23E15089	207.42	6	110	-1.64	0.02	0	0	Open	0	1.64		45E14042	0	105.95	246.56	60.93			
23E15078-45E15017	45E15017	23E15078	7.59	6	110	0	0	0	0	Open	0	0		45E15006	1.31	105.55	246.46	61.06			
45E15018-23E15083	45E15018	23E15083	15	6	110	13.68	0.16	0	0.04	Open	0	13.68		45E15009	0	108	246.45	59.99			
23E14359-45E14073	23E14359	45E14073	6.02	6	120	16.58	0.19	0	0.04	Open	0	16.58		45E15011	0	110.92	246.45	58.73			
45E14073-23E14360	45E14073	23E14360	10	6	120	16.58	0.19	0	0.04	Open	0	16.58		45E14066	0	102.28	246.49	62.49			
45E15006-23E15046	45E15006	23E15046	63.73	6	120	2.13	0.02	0	0	Open	0	2.13		45E15026	6.16	97.63	246.45	64.48			

23E15046-45E15007	23E15046	45E15007	62.31	6	120	16.03	0.18	0	0.04	Open	0	16.03		45E14067	0	103.76	246.49	61.84			
23E15061-45E15014	45E15014	23E15061	15	6	110	-13.2	0.15	0	0.03	Open	0	13.2		45E15008	0.25	101.14	246.45	62.96			
45E14052-23E14254	45E14052	23E14254	15	8	120	-30.15	0.19	0	0.03	Open	0	30.15		45E14052	0	101.05	246.54	63.04			
23E14254-23E14258	23E14254	23E14258	7.79	8	120	57.08	0.36	0	0.11	Open	0	57.08		J462	4.85	107.4	246.53	60.29			
23E14288-23E14450	23E14288	23E14450	411.65	8	120	57.08	0.36	0.04	0.11	Open	0	57.08		J464	0	107.4	246.53	60.29			
23E15080-23E15083	23E15083	23E15080	14.66	6	110	7.12	0.08	0	0.01	Open	0	7.12		J466	0	107.4	246.53	60.29			
45E15019-23E15084	23E15084	45E15019	10	6	110	-7.12	0.08	0	0.01	Open	0	7.12		J476	0	104.95	246.49	61.33			
23E15039-45E15004	23E15039	45E15004	52.32	6	110	5.61	0.06	0	0.01	Open	0	5.61		J480	0	104.05	246.49	61.72			
23E14217-45E14042	45E14042	23E14217	334.46	6	110	0	0	0	0	Open	0	0		J482	0	104.11	246.49	61.69			
45E15003-23E15046	23E15046	45E15003	15	6	120	-13.9	0.16	0	0.03	Open	0	13.9		J520	1.33	104.23	246.49	61.64			
23E15112-23E15113	23E15112	23E15113	4.09	6	110	-3.13	0.04	0	0	Open	0	3.13		J522	2.5	103.24	246.48	62.07			
23E14405-23E14416	23E14405	23E14416	6.38	6	120	8.88	0.1	0	0.01	Open	0	8.88									
23E14378-23E14401	23E14401	23E14378	89.74	6	120	-6.45	0.07	0	0.01	Open	0	6.45									
23E14369-23E14402	23E14402	23E14369	118.43	6	120	-6.12	0.07	0	0.01	Open	0	6.12									
45E14066-23E14305	45E14066	23E14305	78	6	110	-1.61	0.02	0	0	Open	0	1.61									
23E14274-45E14066	23E14274	45E14066	10	6	110	-1.61	0.02	0	0	Open	0	1.61									
23E15089-23E15090	23E15089	23E15090	97.21	6	110	-3.83	0.04	0	0	Open	0	3.83									
23E14226-45E14045	23E14226	45E14045	15	6	120	11.81	0.13	0	0.02	Open	0	11.81									
45E14045-23E14228	45E14045	23E14228	154.39	6	120	0	0	0	0	Open	0	0									
45E14051-23E14253	45E14051	23E14253	10	16	135	-21.15	0.03	0	0	Open	0	21.15									
P759	J462	23E15038	413.97	6	110	30.24	0.34	0.06	0.16	Open	0	30.24									
P761	J462	J464	25	6	110	0	0	0	0	Open	0	0									
P763	J464	J466	6.62	4	110	0	0	0	0	Open	0	0									
66368	J480	J482	16.28	6	120	10.77	0.12	0	0.02	Open	0	10.77									
70390	J514	J480	10.48	6	120	10.77	0.12	0	0.02	Open	0	10.77									
70397	J482	J520	7.74	6	120	10.77	0.12	0	0.02	Open	0	10.77									
70399	J520	J522	212.7	6	120	9.44	0.11	0	0.02	Open	0	9.44									
70403	J522	J516	253.44	6	120	6.94	0.08	0	0.01	Open	0	6.94									
66769	J478	J476	7.29	8	120	36.69	0.23	0	0.05	Open	0	36.69									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
41E11001-28E11002	28E11002	41E11001	45.08	36	135	-1,117.46	0.35	0	0.01	Open	0	1117.46		23E12071	0	106.76	246.67	60.62		Average	56.56962963
28E11002-45E11052	45E11052	28E11002	20.2	24	130	-1,117.46	0.79	0	0.11	Open	0	1117.46		23E11409	0	103.02	246.99	62.38		Minimum	1.46
23E11446-23E11447	23E11446	23E11447	28.76	14	130	245.6	0.51	0	0.09	Open	0	245.6		23E11473	0	104.41	246.66	61.64		Maximum	89.53
45E12007-23E12100	23E12100	45E12007	54.56	12	120	-128.56	0.36	0	0.07	Open	0	128.56		23E11477	0	105.22	246.67	61.29		**Velocity**	
23E11403-23E11458	23E11403	23E11458	147.29	20	130	0	0	0	0	Open	0	0		23E11481	0	105.22	246.95	61.41		Average	0.381944444
23E11403-23E11404	23E11403	23E11404	119.07	20	130	0	0	0	0	Open	0	0		23E11403	0	103.53	246.67	62.02		Minimum	0
45E11059-23E11469	23E11469	45E11059	15	8	130	-26.09	0.17	0	0.02	Open	0	26.09		23E11407	0	103.46	246.98	62.19		Maximum	3.17
45E11058-45E11059	45E11059	45E11058	193.57	8	130	-26.09	0.17	0	0.02	Open	0	26.09		23E11404	0	103.02	246.67	62.24		**Flow**	
23E11477-23E12071	23E11477	23E12071	622.49	20	130	-27.67	0.03	0	0	Open	0	27.67		23E11465	0	103.06	246.65	62.22		Average	357.8220833
23E11465-45E11058	45E11058	23E11465	15	8	130	-27.67	0.18	0	0.02	Open	0	27.67		23E11474	0	103.48	246.66	62.04		Minimum	0
45E11061-23E11474	23E11474	45E11061	130.85	8	130	-27.67	0.18	0	0.02	Open	0	27.67		23E12070	0	106.08	246.67	60.92		Maximum	1117.46
23E11473-45E11061	45E11061	23E11473	15	8	130	-27.67	0.18	0	0.02	Open	0	27.67		23E11459	0	103.24	246.96	62.27			
23E11455-45E12009	23E11455	45E12009	666.03	14	130	-247.69	0.52	0.06	0.09	Open	0	247.69		23E11458	0	103.24	246.67	62.15			
23E11463-23E11477	23E11477	23E11463	28.96	20	130	27.67	0.03	0	0	Open	0	27.67		23E11405	0.74	106.05	246.65	60.92			
45E11052-23E11409	23E11409	45E11052	7.13	24	130	-1,117.46	0.79	0	0.11	Open	0	1117.46		23E11355	2.52	100.23	246.63	63.44			
45E11055-23E11446	45E11055	23E11446	10	14	130	245.6	0.51	0	0.09	Open	0	245.6		23E11393	0.31	104.61	246.64	61.54			
23E11443-23E11455	23E11443	23E11455	74.76	14	130	-246.85	0.51	0.01	0.09	Open	0	246.85		23E11442	0	106.07	246.66	60.92			
23E11463-45E11060	45E11060	23E11463	12.79	6	110	-27.67	0.31	0	0.13	Open	0	27.67		23E11446	0	106.24	246.66	60.84			
23E11391-23E11392	23E11392	23E11391	10	14	130	0	0	0	0	Open	0	0		23E11443	1.25	105.12	246.67	61.33			
23E11393-23E11406	23E11393	23E11406	49.65	12	120	-140.06	0.4	0	0.08	Open	0	140.06		23E11406	0.12	106.05	246.65	60.92			
23E11458-23E11463	23E11463	23E11458	27.32	20	130	0	0	0	0	Open	0	0		23E11455	0.84	103.76	246.67	61.92			
23E11442-45E11055	23E11442	45E11055	15	14	130	245.6	0.51	0	0.09	Open	0	245.6		23E11469	0	104.53	246.65	61.58			
45E11060-23E11471	23E11471	45E11060	7.74	6	120	-27.67	0.31	0	0.11	Open	0	27.67		23E11447	0	106.13	246.65	60.89			
23E11471-23E11473	23E11473	23E11471	59.65	6	110	-27.67	0.31	0.01	0.13	Open	0	27.67		23E11391	0	104.99	246.64	61.38			
23E11465-23E11474	23E11465	23E11474	24.1	8	130	-27.67	0.18	0	0.02	Open	0	27.67		23E11394	0	105.04	246.64	61.36			
23E12071-23E12070	23E12071	23E12070	8.91	8	120	-27.67	0.18	0	0.03	Open	0	27.67		23E11392	0	104.99	246.64	61.38			
23E11355-45E11050	23E11355	45E11050	143.3	12	120	-139.75	0.4	0.01	0.08	Open	0	139.75		23E11471	0	103.78	246.67	61.91			
45E11050-23E11392	45E11050	23E11392	15	12	120	-139.75	0.4	0	0.08	Open	0	139.75		23E11463	0	104.15	246.67	61.75			
45E11035-23E11355	45E11035	23E11355	238.52	14	130	-137.23	0.29	0.01	0.03	Open	0	137.23		28E11002	0	103.02	246.99	62.38			
23E11405-23E11406	23E11406	23E11405	10	12	120	0.74	0	0	0	Open	0	0.74		45E11052	0	103.02	246.99	62.38			
23E11392-23E11393	23E11393	23E11392	17.26	14	130	139.75	0.29	0	0.03	Open	0	139.75		45E11067	0.47	107.81	246.64	60.16			
23E11459-23E11481	23E11481	23E11459	58.45	24	130	-1,117.46	0.79	0.01	0.11	Open	0	1117.46		45E12009	0.31	104.72	246.73	61.53			
23E11392-23E11394	23E11392	23E11394	10	12	120	0	0	0	0	Open	0	0		45E11059	0	104.94	246.65	61.4			
23E11447-23E11469	23E11447	23E11469	90.97	12	120	104.68	0.3	0	0.04	Open	0	104.68		45E11050	0	104.67	246.64	61.52			
23E11469-45E11067	23E11469	45E11067	132.91	12	120	130.77	0.37	0.01	0.07	Open	0	130.77		45E12007	1.74	106.69	246.61	60.63			
23E12071-23E12089	23E12071	23E12089	5	20	130	0	0	0	0	Open	0	0		45E11055	0	106.24	246.66	60.84			
23E12070-45E12014	45E12014	23E12070	3.21	8	120	27.67	0.18	0	0.03	Open	0	27.67		45E11058	1.58	102.65	246.65	62.4			
45E11067-45E12007	45E11067	45E12007	460.65	12	120	130.3	0.37	0.03	0.07	Open	0	130.3		45E11060	0	103.78	246.67	61.91			
23E11406-23E11447	23E11406	23E11447	82.44	12	120	-140.92	0.4	0.01	0.08	Open	0	140.92		45E11061	0	105.16	246.66	61.31			
23E11481-45E12029	23E11481	45E12029	646.37	24	130	1,117.46	0.79	0.07	0.11	Open	0	1117.46		41E11001	0	97	246.99	64.99			
23E11407-23E11459	23E11407	23E11459	143.92	24	130	1,117.46	0.79	0.02	0.11	Open	0	1117.46		R1_1	0	97	100.38	1.46			
23E11407-23E11409	23E11407	23E11409	119.07	24	130	-1,117.46	0.79	0.01	0.11	Open	0	1117.46		R1_13	0	97	100.38	1.46			
45E12009-23E12114	45E12009	23E12114	31	14	130	-247.99	0.52	0	0.09	Open	0	247.99		R1_12	0	97	247.01	65			
23E11442-23E11443	23E11443	23E11442	77	14	130	245.6	0.51	0.01	0.09	Open	0	245.6		R1_6	0	97	100.38	1.46			
R1-R1_1	R1_1	R1	34.71	36	135	-1,117.46	0.35	0	0.01	Open	0	1117.46		R1_2	0	97	100.38	1.46			
R1_13-R1_1	R1_13	R1_1	37.81	16	130	0	0	0	0	Open	0	0		R1_3	0	97	100.38	1.46			
R1_VALV-R1_12	R1_12	R1IN	12.07	16	130	0	0	0	0	Open	0	0		R1_4	0	97	100.38	1.46			
R1_VALV-R1_13	R1FILL	R1_13	21.17	16	130	0	0	0	0	Open	0	0		R1_5	0	97	100.38	1.46			
41E11001-R1_12	R1_12	41E11001	172.63	24	130	1,117.46	0.79	0.02	0.11	Open	0	1117.46		R1_7	0	97	303.61	89.53			
R1_1-R1_2	R1_1	R1_2	30.48	36	135	1,117.46	0.35	0	0.01	Open	0	1117.46		R1_11	0	97	303.61	89.52			
R1_2-R1_3	R1_2	R1_3	27.08	36	135	1,117.46	0.35	0	0.01	Open	0	1117.46		R1_10	0	97	303.61	89.52			
R1_3-R1_4	R1_3	R1_4	26.57	36	135	1,117.46	0.35	0	0.01	Open	0	1117.46		R1_9	0	97	303.61	89.52			
R1_4-R1_5	R1_4	R1_5	21.88	36	135	1,117.46	0.35	0	0.01	Open	0	1117.46		R1_8	0	97	303.61	89.53			
R1_5-R1_6	R1_5	R1_6	21.36	36	135	0	0	0	0	Open	0	0		R1IN	0	97	247.01	65			
R1_11-R1_12	R1_11	RES1SETPOINT	19.07	24	130	1,117.46	0.79	0	0.11	Open	0	1117.46									
R1_10-R1_11	R1_11	R1_10	30.21	24	130	-1,117.46	0.79	0	0.11	Open	0	1117.46									
R1_9-R1_10	R1_10	R1_9	25.52	24	130	-1,117.46	0.79	0	0.11	Open	0	1117.46									
R1_8-R1_9	R1_9	R1_8	21.87	24	130	-1,117.46	0.79	0	0.11	Open	0	1117.46									
R1_7-R1_8	R1_8	R1_7	18.75	24	130	0	0	0	0	Open	0	0									
R1_2-RES1ELEC1	R1_2	RES1ELECT1	40.64	10	120	0	0	0	0	Open	0	0									
RES1ELEC1-R1_11	RES1ELECT1	R1_11	44.27	10	120	0	0	0	0	Open	0	0									
R1_3-RES1ELEC2	R1_3	RES1ELEC2	40.11	10	120	0	0	0	0	Open	0	0									
RES1ELEC2-R1_10	RES1ELEC2	R1_10	45.32	10	120	0	0	0	0	Open	0	0									
R1_4-RES1GAS1	R1_4	RES1GAS1	36.99	12	120	0	0	0	0	Open	0	0									
RES1GAS1-R1_9	RES1GAS1	R1_9	47.92	12	120	0	0	0	0	Open	0	0									
R1_5-RES1GAS2	R1_5	RES1GAS2	39.07	12	120	1,117.46	3.17	0.14	3.61	Open	0	1117.46									

Reservoir 1 Scenario 1

RES1GAS2-R1_8	RES1GAS2	R1_8	45.83	12	120	1,117.46	3.17	0.17	3.61	Open	0	1117.46								
R1_6-RES1GAS3	R1_6	RES1GAS3	39.08	12	120	0	0	0	0	Open	0	0								
RES1GAS3-R1_7	RES1GAS3	R1_7	45.32	12	120	0	0	0	0	Open	0	0								
CONTROL	R1_1	R1_13	40.22	0.01	135	0	0	0	0	Closed	0	0								
P711	R1IN	R1FILL	14.01	16	130	0	0	0	0	Open	0	0								
P1029	RES1SETPOINT	R1_12	11.34	24	130	1,117.46	0.79	0	0.11	Open	0	1117.46								

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23N12332-23N12336	23N12336	23N12332	6.34	16	130	0.25	0	0	0	Open	0	0.25		23N12376	0	84.61	246.44	70.12		Average	51.28545455
45N12004-23N12332	23N12332	45N12004	10.01	12	120	0.25	0	0	0	Open	0	0.25		23N12323	0	88.07	246.44	68.62		Minimum	-4.72
45N12003-45N12004	45N12004	45N12003	7.1	12	120	0.25	0	0	0	Open	0	0.25		23N12359	0	84.84	246.44	70.02		Maximum	75.15
23N12326-23N13241	23N12326	23N13241	866.94	30	135	-7.72	0	0	0	Open	0	7.72		23N12352	0	85.87	246.44	69.57		**Velocity**	
23N12326-23N12336	23N12336	23N12326	57.01	30	135	-7.72	0	0	0	Open	0	7.72		23N12329	0	86.57	246.44	69.27		Average	0.027021277
25N12229-23N12352	23N12352	25N12229	16	12	120	-0.25	0	0	0	Open	0	0.25		23N13171	4.5	85.61	246.39	69.67		Minimum	0
28N12001-23N12376	23N12376	28N12001	129.3	39	135	0	0	0	0	Open	0	0		23N12345	0	86.2	246.44	69.43		Maximum	0.32
23N12359-28N12001	23N12359	28N12001	24.66	30	135	-0.25	0	0	0	Open	0	0.25		23N12320	0	88.07	246.44	68.62		**Flow**	
23N12328-45N12003	45N12003	23N12328	5.37	12	120	0.25	0	0	0	Open	0	0.25		23N12336	0	86.83	246.44	69.16		Average	5.555319149
23N12329-45N12005	23N12329	45N12005	41	6	120	-7.72	0.09	0	0.01	Open	0	7.72		23N12328	0	86.98	246.44	69.09		Minimum	0
45N12005-23N12345	45N12005	23N12345	10	6	120	-7.72	0.09	0	0.01	Open	0	7.72		23N12326	0	87.71	246.44	68.78		Maximum	74.41
23N12323-45N12002	45N12002	23N12323	18.01	12	130	0	0	0	0	Open	0	0		23N12286	0	85.3	246.44	69.82			
45N12006-25N12229	25N12229	45N12006	15	12	120	-0.25	0	0	0	Open	0	0.25		23N12332	0	86.83	246.44	69.16			
23N12345-23N12359	23N12359	23N12345	56.63	30	135	0.25	0	0	0	Open	0	0.25		28N12001	0	85.04	246.44	69.93			
23N12336-23N12345	23N12345	23N12336	26.42	30	135	-7.47	0	0	0	Open	0	7.47		25N12229	0	85.73	246.44	69.64			
23N12352-28N12001	28N12001	23N12352	24.68	12	120	-0.25	0	0	0	Open	0	0.25		45N12003	0	87.35	246.44	68.93			
46N12001-23N12329	46N12001	23N12329	36	6	120	-7.72	0.09	0	0.01	Open	0	7.72		45N12006	0	85.88	246.44	69.57			
23N12328-45N12006	45N12006	23N12328	52.02	12	120	-0.25	0	0	0	Open	0	0.25		45N12005	0	86.2	246.44	69.43			
23N12376-41N12001	41N12001	23N12376	169.95	39	135	0	0	0	0	Open	0	0		46N12001	7.72	86.29	246.44	69.39			
45N12002-23N12328	23N12328	45N12002	20	12	120	0	0	0	0	Open	0	0		45N12002	0	87.74	246.44	68.76			
23N12320-23N12323	23N12323	23N12320	10	12	130	0	0	0	0	Open	0	0		45N12004	0	86.83	246.44	69.16			
23N12286-23N12320	23N12320	23N12286	182.63	12	130	0	0	0	0	Open	0	0		45N13019	0.45	83.37	246.39	70.64			
45N13019-23N13171	23N13171	45N13019	70.34	8	120	50.92	0.32	0.01	0.09	Open	0	50.92		45N13020	1.25	86.95	246.39	69.09			
23N13171-45N13048	45N13048	23N13171	1,258.48	12	120	74.41	0.21	0.03	0.02	Open	0	74.41		41N12001	0	73	246.44	75.15			
23N13171-45N13020	45N13020	23N13171	31	10	120	-18.99	0.08	0	0	Open	0	18.99		R2_1	0	73	62.1	-4.72			
45N13020-23N13240	23N13240	45N13020	270.84	10	120	-17.74	0.07	0	0	Open	0	17.74		R2_6	0	73	98.97	11.25			
23N13125-45N13019	45N13019	23N13125	110.9	8	120	50.47	0.32	0.01	0.08	Open	0	50.47		R2_7	0	73	98.97	11.25			
RES2-R2_1	R2	R2_1	19.54	30	135	0	0	0	0	Open	0	0		R2_8	0	73	98.97	11.25			
VALV1-41N12001	41N12001	R2FILL	23.43	16	130	0	0	0	0	Open	0	0		R2_9	0	73	98.97	11.25			
R2_1-R2_2	R2_1	R2_2	33.86	30	135	0	0	0	0	Open	0	0		R2_5	0	73	62.1	-4.72			
R2_6-R2_7	R2_6	R2_7	21.27	39	135	0	0	0	0	Open	0	0		R2_4	0	73	62.1	-4.72			
R2_7-R2_8	R2_7	R2_8	19.53	39	135	0	0	0	0	Open	0	0		R2_3	0	73	62.1	-4.72			
R2_8-R2_9	R2_8	R2_9	26.05	39	135	0	0	0	0	Open	0	0		R2_2	0	73	62.1	-4.72			
R2_9-41N12001	RES2SETPOINT	41N12001	9.54	39	135	0	0	0	0	Open	0	0									
R2_4-R2_5	R2_4	R2_5	21.92	12	120	0	0	0	0	Open	0	0									
R2_3-R2_4	R2_3	R2_4	19.76	30	135	0	0	0	0	Open	0	0									
R2_2-R2_3	R2_2	R2_3	24.97	30	135	0	0	0	0	Open	0	0									
R2_5-GAS4	R2_5	RES2GAS4	24.82	16	130	0	0	0	0	Open	0	0									
GAS4-R2_8	RES2GAS4	R2_6	23.16	16	130	0	0	0	0	Open	0	0									
R2_4-GAS3	R2_4	RES2GAS3	23.23	16	130	0	0	0	0	Open	0	0									
R2_3-GAS2	R2_3	RES2GAS2	22.8	16	130	0	0	0	0	Open	0	0									
GAS2-R2_8	RES2GAS2	R2_8	24.77	16	130	0	0	0	0	Open	0	0									
R2_2-GAS1	R2_2	RES2GAS1	22.36	16	130	0	0	0	0	Open	0	0									
GAS1-R2_9	RES2GAS1	R2_9	24.97	16	130	0	0	0	0	Open	0	0									
GAS3-R2_7	RES2GAS3	R2_7	24.99	16	130	0	0	0	0	Open	0	0									
R2_1-VALV1	R2FILL	R2_1	23.5	16	130	0	0	0	0	Open	0	0									
P1033	R2_9	RES2SETPOINT	21.96	39	135	0	0	0	0	Open	0	0									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
45H02008-23H02055	23H02055	45H02008	482.45	18	130	896.27	1.13	0.14	0.29	Open	0	896.27		23H02005	0	35.83	259.42	96.88		Average	96.78625
23H02001-45H02001	45H02001	23H02001	15	8	120	-192.68	1.23	0.02	1	Open	0	192.68		23H02017	0.43	37.52	259	95.97		Minimum	95.97
20H02001-23H02001	23H02001	20H02001	18.51	12	120	-2,270.08	6.44	0.25	13.42	Open	0	2270.08		23H02001	0	35.42	259.71	97.18		Maximum	97.18
45H02007-23H02017	23H02017	45H02007	15	12	120	-2,077.40	5.89	0.17	11.38	Open	0	2077.4		20H02001	0	35.82	259.95	97.12		**Velocity**	
23H02001-45H02003	45H02003	23H02001	15	12	120	-2,077.40	5.89	0.17	11.39	Open	0	2077.4		45H02001	0	35.72	259.69	97.05		Average	4.402307692
23H02002-23H02017	23H02017	23H02002	442.36	18	130	2,969.93	3.74	1.17	2.64	Open	0	2969.93		45H02007	0	36.55	259.17	96.46		Minimum	1.13
23H02017-45H02008	45H02008	23H02017	15	18	130	892.96	1.13	0	0.28	Open	0	892.96		45H02003	0	35.43	259.54	97.1		Maximum	6.44
45H02001-23H02026	23H02026	45H02001	494.77	8	120	-192.68	1.23	0.5	1	Open	0	192.68		45H02008	3.32	36.22	259.01	96.53		**Flow**	
45H02003-23H02005	23H02005	45H02003	10	12	120	-2,077.40	5.89	0.11	11.38	Open	0	2077.4								Average	1718.596923
23H02009-45H02007	45H02007	23H02009	9.93	12	120	-2,077.40	5.89	0.11	11.39	Open	0	2077.4								Minimum	192.68
23H02005-23H02009	23H02009	23H02005	11.69	12	120	-2,077.40	5.89	0.13	11.38	Open	0	2077.4								Maximum	2969.93
WELL1PIPE1	WELL1	WELL1PUMP	39.24	12	120	2,270.08	6.44	0.53	13.42	Open	0	2270.08									
WELL1PUMP-20H02001	WELL1PUMP	20H02001	37.52	12	120	2,270.08	6.44	0.5	13.42	Open	0	2270.08									

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	95.48583333
20F01002-23F01127	20F01002	23F01127	49.62	14	120	0	0	0	0	Open	0	0		23F01127	0	40.36	261.72	95.91		Minimum	93.52
23F01134-45F01027	45F01027	23F01134	13	8	130	-165.1	1.05	0.01	0.65	Open	0	165.1		23F01134	0	41.9	261.57	95.18		Maximum	96.43
23F01134-45F01028	45F01028	23F01134	15	12	120	-724.5	2.06	0.02	1.62	Open	0	724.5		23F01128	2.6	40.72	261.72	95.76		**Velocity**	
45F01028-23F02066	23F02066	45F01028	335.71	12	120	-724.5	2.06	0.54	1.62	Open	0	724.5		20F01002	0	39.17	261.72	96.43		Average	1.134117647
23F01128-23F01134	23F01134	23F01128	60.98	12	120	-889.59	2.52	0.14	2.37	Open	0	889.59		45F01027	0	41.99	261.56	95.14		Minimum	0
23F01042-23F01128	23F01128	23F01042	546.1	12	120	-892.2	2.53	1.3	2.38	Open	0	892.2		45F01028	0	41.98	261.55	95.14		Maximum	2.9
23F01127-45F01026	23F01127	45F01026	8.78	14	120	0	0	0	0	Open	0	0		45F01026	0	40.36	261.72	95.91		**Flow**	
45F01027-23F01137	23F01137	45F01027	235.12	8	130	-165.1	1.05	0.15	0.65	Open	0	165.1		23F01137	3.17	45.58	261.41	93.52		Average	332.7082353
45F01026-23F01128	45F01026	23F01128	15	14	120	0	0	0	0	Open	0	0		23F02057	13.65	40.84	261.19	95.48		Minimum	0
WELL3PIPE1	WELL3	WELL3PUMP	44	8	120	0	0	0	0	Open	0	0		45F02016	0	40.85	261.2	95.48		Maximum	1023.24
WELL3PIPE2	WELL3PUMP	20F01002	51.16	14	120	0	0	0	0	Open	0	0		45F02021	0	39.45	261.02	96			
23F01137-45F02016	45F02016	23F01137	334	8	130	-161.93	1.03	0.21	0.63	Open	0	161.93		23F02066	0	39.72	261	95.88			
23F02054-23F02057	23F02057	23F02054	289.3	10	120	-150.47	0.61	0.06	0.21	Open	0	150.47									
45F02016-23F02057	23F02057	45F02016	15	8	130	-161.93	1.03	0.01	0.63	Open	0	161.93									
23F02057-45F02021	45F02021	23F02057	230.84	10	120	-298.74	1.22	0.18	0.76	Open	0	298.74									
45F02021-23F02066	23F02066	45F02021	15	10	120	-298.74	1.22	0.01	0.76	Open	0	298.74									
23F02066-23F02109	23F02109	23F02066	301.28	12	120	-1,023.24	2.9	0.92	3.07	Open	0	1023.24									

Well 5 Scenario 1

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02033-45F02013	45F02013	23F02033	15	8	120	-127.06	0.81	0.01	0.46	Open	0	127.06		23F02027	2.52	37.3	263.56	98.04		Average	86.18222222
45F02013-23F02130	23F02130	45F02013	448.5	8	120	-127.06	0.81	0.21	0.46	Open	0	127.06		23F01112	0	36	5	-13.43		Minimum	-13.43
45F02008-23F02027	23F02027	45F02008	15	16	120	0	0	0	0	Open	0	0		23F02033	0	37.27	264.04	98.26		Maximum	99.36
23F01112-45F02008	23F01112	5BOOSTER	33.21	8	120	0	0	0	0	Open	0	0		23E02003	2.89	33.76	262.99	99.32		**Velocity**	
45F02010-45F02011	45F02011	45F02010	455.53	18	130	2,591.69	3.27	0.93	2.05	Open	0	2591.69		45E02002	2.23	33.71	263.02	99.36		Average	1.455833333
23F02027-23F02033	23F02033	23F02027	255.94	18	130	2,464.63	3.11	0.48	1.87	Open	0	2464.63		45F02013	0	36.91	264.03	98.41		Minimum	0
23F02033-45F02010	45F02010	23F02033	15	18	130	2,591.69	3.27	0.03	2.05	Open	0	2591.69		45F02010	0	36.82	264.07	98.47		Maximum	3.27
23E02003-45E02002	23E02003	45E02002	17.67	18	130	-2,459.88	3.1	0.03	1.86	Open	0	2459.88		45F02008	0	35.99	263.56	98.61		**Flow**	
45E02002-23F02027	23F02027	45E02002	291.04	18	130	2,462.11	3.1	0.54	1.87	Open	0	2462.11		WELL5_1	0	36	263.56	98.6		Average	1068.676667
WELL5_1-45F02008	WELL5_1	45F02008	381.43	16	120	0	0	0	0	Open	0	0								Minimum	0
P308	WELL5	23F01112	101.19	12	120	0	0	0	0	Open	0	0								Maximum	2591.69
5BOOSTER-WELL5_1	5BOOSTER	WELL5_1	32.65	16	120	0	0	0	0	Open	0	0									

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	98.45230769
23F02306-45F02094	23F02306	45F02094	12.82	12	130	0	0	0	0	Open	0	0		23F03036	0	32.48	260.76	98.92		Minimum	97.02
45F02091-23F02306	23F02306	45F02091	15	12	130	207.4	0.59	0	0.14	Open	0	207.4		23F03034	0	32.48	260.76	98.92		Maximum	100.3
23F02306-45F02092	45F02092	23F02306	15	12	130	207.4	0.59	0	0.14	Open	0	207.4		23F03031	0	31.66	260.76	99.27			
23F03031-23F03034	23F03031	23F03034	66.3	12	120	0	0	0	0	Open	0	0		23F02304	1.74	32.44	260.75	98.93		**Velocity**	
23F02388-23F03031	23F02388	23F03031	257.13	12	130	0	0	0	0	Open	0	0		23F02306	0	35.99	260.76	97.39		Average	0.256875
23F02303-23F02304	23F02304	23F02303	651.83	12	130	205.66	0.58	0.09	0.14	Open	0	205.66		23F02388	0	33.57	260.76	98.44		Minimum	0
23F02307-45F02093	45F02093	23F02307	106.9	12	130	207.4	0.59	0.01	0.14	Open	0	207.4		23F02387	0	33.83	260.76	98.33		Maximum	0.59
23F02304-45F02091	45F02091	23F02304	105.95	12	130	207.4	0.59	0.01	0.14	Open	0	207.4		23F02303	0	29.18	260.66	100.3		**Flow**	
45F02087-23F02303	23F02303	45F02087	21	12	130	205.66	0.58	0	0.14	Open	0	205.66		23F02307	0	33.65	260.86	98.45		Average	90.52
23F02387-23F02388	23F02387	23F02388	16.61	12	130	0	0	0	0	Open	0	0		20F03001	0	31.92	260.76	99.16		Minimum	0
45F02094-23F02387	45F02094	23F02387	458.27	12	130	0	0	0	0	Open	0	0		45F02092	0	36.11	260.77	97.34		Maximum	207.4
45F02092-23F02307	23F02307	45F02092	712.34	12	130	207.4	0.59	0.1	0.14	Open	0	207.4		45F02091	0	36.85	260.76	97.02			
23F03036-20F03001	23F03036	20F03001	26.47	12	120	0	0	0	0	Open	0	0		45F02094	0	35.96	260.76	97.41			
23F03034-23F03036	23F03034	23F03036	18.32	12	120	0	0	0	0	Open	0	0									
WELL7PIPE1	WELL7	WELL7PUMP	45.82	12	120	0	0	0	0	Open	0	0									
WELL7PIPE2	WELL7PUMP	20F03001	55.36	12	120	0	0	0	0	Open	0	0									

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	97.08666667
23G02034-45G02016	23G02034	45G02016	15	12	130	607.43	1.72	0.02	1.01	Open	0	607.43		23G02030	0	37.28	260.77	96.84		Minimum	96.28
23G02012-45G02006	45G02006	23G02012	51.48	18	130	1,936.33	2.44	0.06	1.2	Open	0	1936.33		23G02049	0	38.04	260.25	96.28		Maximum	98.86
23G02011-23G02014	23G02011	23G02014	16.22	18	130	-12.93	0.02	0	0	Open	0	12.93		23G02044	0	36.76	260.91	97.12		**Velocity**	
23G02009-45G02004	23G02009	45G02004	3.76	18	130	108.22	0.14	0	0.01	Open	0	108.22		23G02027	1.31	38.68	260.88	96.28		Average	1.822692308
23G02004-23G02007	23G02007	23G02004	19.91	18	130	-108.22	0.14	0	0.01	Open	0	108.22		23G02010	0	38.67	260.88	96.28		Minimum	0.02
45G02008-45G02009	45G02009	45G02008	54.93	12	120	10.31	0.03	0	0	Open	0	10.31		23G02014	0	35.31	260.88	97.74		Maximum	11.75
45G02009-23G02027	23G02027	45G02009	81.69	12	120	11.62	0.03	0	0	Open	0	11.62		23G02004	0	37.57	260.88	96.76		**Flow**	
23G02010-23G02027	23G02027	23G02010	19.12	12	120	-12.93	0.04	0	0	Open	0	12.93		23G02007	0	37.43	260.88	96.82		Average	801.2246154
45G02006-23G02014	23G02014	45G02006	17.57	18	130	1,936.33	2.44	0.02	1.19	Open	0	1936.33		23G02009	0	35.31	260.88	97.74		Minimum	7.16
23G02030-23G02034	23G02034	23G02030	415.38	18	130	-1,936.33	2.44	0.5	1.2	Open	0	1936.33		23G02012	0	37.71	260.8	96.66		Maximum	1936.33
45G02004-23G02014	45G02004	23G02014	7.35	18	130	108.22	0.14	0	0.01	Open	0	108.22		23G02034	0	37.66	260.27	96.46			
23G02014-23G02044	23G02014	23G02044	27.88	18	130	-1,841.04	2.32	0.03	1.09	Open	0	1841.04		23G02011	0	36.34	260.88	97.29			
45G02016-23G02049	23G02049	45G02016	12.37	12	130	-607.43	1.72	0.01	1.01	Open	0	607.43		20G02001	0	34	262.17	98.86			
23G02049-23G02056	23G02056	23G02049	17.11	12	130	-607.43	1.72	0.02	1.01	Open	0	607.43		45G02016	0	38.04	260.26	96.29			
23G02019-45G02008	45G02008	23G02019	541	12	120	7.16	0.02	0	0	Open	0	7.16		45G02008	3.15	35.52	260.88	97.65			
23G02012-23G02030	23G02012	23G02030	22.42	18	130	1,936.33	2.44	0.03	1.2	Open	0	1936.33		45G02009	1.31	36.39	260.88	97.27			
23G02044-45G02019	23G02044	45G02019	15	12	120	-1,841.04	5.22	0.14	9.1	Open	0	1841.04		45G02005	0	37.6	260.88	96.75			
45G02001-45G02002	45G02002	45G02001	452.8	18	135	-108.22	0.14	0	0.01	Open	0	108.22		45G02006	0	34.85	260.86	97.93			
23G02034-23G02038	23G02038	23G02034	855.98	18	130	-1,328.90	1.68	0.51	0.6	Open	0	1328.9		45G02002	0	37.02	260.88	97			
45G02019-20G02001	45G02019	20G02001	123	12	120	-1,841.04	5.22	1.12	9.1	Open	0	1841.04		45G02019	0	37.05	261.05	97.06			
45G02002-23G02004	23G02004	45G02002	15	18	130	-108.22	0.14	0	0.01	Open	0	108.22		45G02004	0	35.31	260.88	97.74			
23G02007-23G02009	23G02009	23G02007	195.77	18	130	-108.22	0.14	0	0.01	Open	0	108.22									
23G02010-45G02005	23G02010	45G02005	59.69	12	120	-12.93	0.04	0	0	Open	0	12.93									
45G02005-23G02011	45G02005	23G02011	32.95	12	120	-12.93	0.04	0	0	Open	0	12.93									
WELL9PIPE1	WELL9	WELL9PUMP	30.68	8	120	1,841.04	11.75	2.01	65.6	Open	0	1841.04									
WELL9PIPE2	WELL9PUMP	20G02001	25.31	12	120	1,841.04	5.22	0.23	9.1	Open	0	1841.04									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
85135	12	WELL12_PUMP	41.64	16	120	3,885.49	6.2	0.37	8.94	Open	0	3885.49		J1724	0	42.6	295.51	109.59		Average	109.59
85135_2	WELL12_PUMP	J1724	85.57	16	120	3,885.49	6.2	0.77	8.94	Open	0	3885.49								Minimum	109.59
P965	J1724	J1378	2,112.83	16	120	3,885.49	6.2	18.89	8.94	Open	0	3885.49								Maximum	109.59
																				Velocity	
																				Average	6.2
																				Minimum	6.2
																				Maximum	6.2
																				Flow	
																				Average	3885.49
																				Minimum	3885.49
																				Maximum	3885.49

Pipe Report														**Junction Report**							**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)			Average	101.6133333
23F01017-23F01018	23F01017	23F01018	264.6	12	120	1,496.92	4.25	1.64	6.21	Open	0	1496.92		23F01051	0	39.43	272.75	101.1			Minimum	95.82
23F01013-23F01014	23F01013	23F01014	6.83	12	120	1,496.92	4.25	0.04	6.2	Open	0	1496.92		23F01055	0	39.42	272.44	100.97			Maximum	103.71
23F01014-23F01016	23F01014	23F01016	26.3	12	120	1,496.92	4.25	0.16	6.21	Open	0	1496.92		23F01013	0	35.7	272.88	102.77			**Velocity**	
23F01009-23F01035	23F01035	23F01009	30.11	18	120	-5,620.38	7.09	0.3	9.98	Open	0	5620.38		23F01011	0	35.86	273.04	102.77			Average	4.274347826
23F01010-23F01011	23F01010	23F01011	8.24	12	120	1,496.92	4.25	0.05	6.2	Open	0	1496.92		23F01012	0	35.7	272.93	102.79			Minimum	1.73
23F01009-23F01010	23F01009	23F01010	29.78	12	120	1,496.92	4.25	0.18	6.21	Open	0	1496.92		23F01014	0	35.57	272.84	102.81			Maximum	7.09
45F01002-23F01009	23F01009	45F01002	129.98	12	120	611.63	1.74	0.15	1.18	Open	0	611.63		23F01018	0	37.72	270.04	100.66			**Flow**	
23F01016-23F01017	23F01016	23F01017	160.21	12	120	1,496.92	4.25	0.99	6.21	Open	0	1496.92		23F01016	0	35.15	272.67	102.92			Average	3018.744783
45F02010-45F02011	45F02011	45F02010	455.53	18	130	2,591.69	3.27	0.93	2.05	Open	0	2591.69		23F01010	0	35.86	273.09	102.79			Minimum	610.26
23F01035-23F01051	23F01051	23F01035	25.92	18	130	-5,620.38	7.09	0.22	8.6	Open	0	5620.38		23F01035	0	38.63	272.97	101.54			Maximum	7728.94
23F01055-45F01014	45F01014	23F01055	161.45	18	130	-5,620.38	7.09	1.39	8.6	Open	0	5620.38		23F01009	0	35.89	273.28	102.86				
23F01051-23F01055	23F01055	23F01051	36.48	18	130	-5,620.38	7.09	0.31	8.6	Open	0	5620.38		23F01017	0	36.47	271.68	101.92				
23F01018-23F01020	23F01020	23F01018	34.93	12	120	-1,496.92	4.25	0.22	6.21	Open	0	1496.92		23F02040	0.04	37.88	265.04	98.43				
23F01011-23F01012	23F01011	23F01012	20.89	12	130	1,496.92	4.25	0.11	5.35	Open	0	1496.92		45F01002	1.37	33.97	273.12	103.62				
23F01012-23F01013	23F01012	23F01013	7.63	12	120	1,496.92	4.25	0.05	6.21	Open	0	1496.92		45F01014	6.32	31.71	271.05	103.71				
45F01001-45F01002	45F01002	45F01001	578.24	12	120	610.26	1.73	0.68	1.18	Open	0	610.26		45F02014	2.48	43.86	265	95.82				
45F02014-45F02027	45F02027	45F02014	204.09	18	130	-3,019.85	3.81	0.56	2.72	Open	0	3019.85		45F02011	0	37.04	265.01	98.78				
45F02011-23F02040	23F02040	45F02011	15	18	130	2,591.69	3.27	0.03	2.05	Open	0	2591.69		J1378	0	39.42	276.62	102.78				
45F01014-23F02040	23F02040	45F01014	700.11	18	130	-5,614.06	7.08	6.01	8.59	Open	0	5614.06										
23F02040-45F02014	45F02014	23F02040	13.17	18	130	-3,022.33	3.81	0.04	2.73	Open	0	3022.33										
85136	WELL14_PUMP	J1378	92.98	30	120	3,843.44	1.74	0.04	0.41	Open	0	3843.44										
85137	J1378	23F01009	2,239.48	30	120	7,728.94	3.51	3.35	1.5	Open	0	7728.94										
85136_2	14	WELL14_PUMP	37.34	30	120	3,843.44	1.74	0.02	0.41	Open	0	3843.44										

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	90.49125
45G04009-23G04050	23G04050	45G04009	10	4	90	0	0	0	0	Open	0	0		23G04049	0	34.79	271.02	102.36		Minimum	2.17
23G04050-25G04007	25G04007	23G04050	708.56	3	70	0	0	0	0	Open	0	0		23G04042	2.05	30.18	271.02	104.36		Maximum	106.61
23G04035-45G04006	23G04035	45G04006	15	24	130	-5,747.95	4.08	0.03	2.21	Open	0	5747.95		23G04050	0	30.7	271.02	104.13		**Velocity**	
23G04030-28G04001	28G04001	23G04030	49.21	36	135	5,750.00	1.81	0.01	0.29	Open	0	5750		23G04033	0	34.77	271.02	102.37		Average	0.952272727
45G04006-23G04036	23G04036	45G04006	15	24	130	5,747.95	4.08	0.03	2.21	Open	0	5747.95		23G04036	0	33.94	270.84	102.65		Minimum	0
23G04042-45G04009	45G04009	23G04042	15	4	90	0	0	0	0	Open	0	0		23G04014	0	25	30	2.17		Maximum	4.08
45G04004-23G04034	23G04034	45G04004	20.68	6	110	-2.05	0.02	0	0	Open	0	2.05		23G04030	0	32.98	271.03	103.15		**Flow**	
23G04534-23G04036	23G04534	23G04036	352.92	36	135	5,747.95	1.81	0.1	0.29	Open	0	5747.95		23G04034	0	35.58	271.02	102.02		Average	2352.086364
23G04049-23G04534	23G04049	23G04534	275	36	135	5,747.95	1.81	0.08	0.29	Open	0	5747.95		23G04534	0	35.54	270.94	102		Minimum	0
23G04033-23G04049	23G04033	23G04049	15.24	36	135	5,747.95	1.81	0	0.28	Open	0	5747.95		28G04001	0	32.98	271.05	103.15		Maximum	5750
23G04034-23G04042	23G04042	23G04034	302.58	4	90	-2.05	0.05	0	0.01	Open	0	2.05		25G04007	0	33.42	271.02	102.95			
23G04033-45G04004	45G04004	23G04033	18.25	4	90	-2.05	0.05	0	0.01	Open	0	2.05		45G04009	0	30.35	271.02	104.28			
23G04030-23G04033	23G04033	23G04030	36.41	36	135	-5,750.00	1.81	0.01	0.29	Open	0	5750		45G04004	0	37.21	271.02	101.31			
28G04014-HILFT1	23G04014	HILIFT1	16.07	36	135	0	0	0	0	Open	0	0		45G04006	0	34.98	270.8	102.18			
HILIFT1-28G04001	HILIFT1	28G04001	20.84	36	135	0	0	0	0	Open	0	0		28G04015	0	25	30	2.17			
TANK_HILIFT-28G04014	TANK_HILIFT	23G04014	25.14	36	135	0	0	0	0	Open	0	0		28G04003	0	25	271.05	106.61			
28G04014-28G04015	23G04014	28G04015	17.81	36	135	0	0	0	0	Open	0	0									
28G04003-28G04001	28G04003	28G04001	17.48	36	135	0	0	0	0	Open	0	0									
28G04015-HILIFT2	28G04015	HILIFT2	16.66	36	135	0	0	0	0	Open	0	0									
HILIFT2-28G04003	HILIFT2	28G04003	18.96	36	135	0	0	0	0	Open	0	0									
P671	MWRF	V_MWRF	30.57	36	135	5,750.00	1.81	0.01	0.29	Open	0	5750									
P673	V_MWRF	28G04001	23.31	36	135	5,750.00	1.81	0.01	0.29	Open	0	5750									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)			
45E14033-23E14174	45E14033	23E14174	13	6	110	24.12	0.27	0	0.1	Open	0	24.12		23E14174	1.39	110.02	250.1	60.7		**Pressure**	
23E14271-23E14273	23E14271	23E14273	252.51	8	120	-58.95	0.38	0.03	0.11	Open	0	58.95		23E14220	0	107.02	250.15	62.02		Average	63.32856115
23E14251-23E14259	23E14259	23E14251	15.41	8	120	5.17	0.03	0	0	Open	0	5.17		23E14251	0	103.08	250.25	63.77		Minimum	58.49
23E14259-23E14260	23E14259	23E14260	217.45	8	120	-17.72	0.11	0	0.01	Open	0	17.72		23E14259	0	103.86	250.25	63.43		Maximum	67.5
45E14069-23E15038	45E14069	J462	11.13	6	110	12.54	0.14	0	0.03	Open	0	12.54		23E14246	0	103.34	250.38	63.71		**Velocity**	
45E14033-45E14034	45E14034	45E14033	1,297.00	6	110	35.66	0.4	0.27	0.21	Open	0	35.66		23E14217	0	111.15	250.15	60.23		Average	0.251528662
23E14220-45E14042	23E14220	45E14042	17	6	110	0	0	0	0	Open	0	0		23E15115	3.95	101.06	250.24	64.64		Minimum	0
23E14174-23E14220	23E14220	23E14174	245.66	8	120	80.46	0.51	0.05	0.2	Open	0	80.46		23E15069	0	106.59	250.24	62.24		Maximum	1.24
23E14220-45E14049	45E14049	23E14220	499.76	8	120	80.46	0.51	0.1	0.2	Open	0	80.46		23E15061	0	111.12	250.24	60.28		**Flow**	
23E14251-45E14053	23E14251	45E14053	17.98	8	120	-75.28	0.48	0	0.18	Open	0	75.28		23E15047	6.55	107.2	250.24	61.98		Average	72.06394904
45E14049-23E14251	23E14251	45E14049	14.99	8	120	80.46	0.51	0	0.2	Open	0	80.46		23E15072	0	98.39	250.27	65.81		Minimum	0
23E14259-45E14069	45E14069	23E14259	66.37	6	110	-12.54	0.14	0	0.03	Open	0	12.54		23E15041	0	108.92	250.24	61.24		Maximum	779.79
23E14224-45E14052	23E14224	45E14052	565.45	8	120	102.23	0.65	0.18	0.31	Open	0	102.23		23E15110	1.9	100.12	250.24	65.05			
23E14418-45E15003	45E15003	23E14418	229.74	6	120	-9.9	0.11	0	0.02	Open	0	9.9		23E15088	0	104.49	250.24	63.15			
45E14070-23E14327	23E14327	45E14070	190.65	6	110	28.5	0.32	0.03	0.14	Open	0	28.5		23E15099	0.57	99.85	250.24	65.17			
23E14154-45E14050	45E14050	23E14154	1,160.56	16	135	631.52	1.01	0.29	0.25	Open	0	631.52		23E15083	4.11	110.33	250.24	60.62			
23E14210-23E14226	23E14226	23E14210	197.67	8	120	-14.76	0.09	0	0.01	Open	0	14.76		23E15080	0	107.98	250.24	61.64			
45E14065-23E14449	45E14065	23E14449	311.03	6	120	16.66	0.19	0.01	0.04	Open	0	16.66		23E15113	0	107.61	250.24	61.8			
23E15099-23E15110	23E15110	23E15099	104.02	6	110	-10.67	0.12	0	0.02	Open	0	10.67		23E15046	0	105.31	250.24	62.8			
23E14226-23E14245	23E14245	23E14226	210.57	8	120	7.2	0.05	0	0	Open	0	7.2		23E14202	0	102.94	250.38	63.89			
45E14028-23E14174	23E14174	45E14028	453.91	8	120	103.18	0.66	0.14	0.32	Open	0	103.18		23E14210	10.07	103.44	250.38	63.67			
45E14062-23E14445	45E14062	23E14445	311.87	6	120	-10.09	0.11	0.01	0.02	Open	0	10.09		23E14245	0.65	102.57	250.38	64.04			
70388	23E14202	J476	5.53	8	120	-95.01	0.61	0	0.27	Open	0	95.01		23E14328	0.76	98.79	250.39	65.69			
23E14328-23E14450	23E14450	23E14328	247.45	8	120	101.54	0.65	0.08	0.31	Open	0	101.54		23E14274	0	102.68	250.34	63.98			
45E14071-23E14328	23E14328	45E14071	15	8	120	29.44	0.19	0	0.03	Open	0	29.44		23E14273	8.64	101.74	250.33	64.38			
23E14327-45E14071	45E14071	23E14327	15	8	120	29.44	0.19	0	0.03	Open	0	29.44		23E14254	0	101.35	250.79	64.75			
23E15084-23E15088	23E15088	23E15084	87.2	6	110	-5.14	0.06	0	0.01	Open	0	5.14		23E14416	0	101.79	250.25	64.33			
23E15041-45E15005	23E15041	45E15005	15	6	110	-3.02	0.03	0	0	Open	0	3.02		23E14418	0.61	102.1	250.25	64.19			
23E14209-45E14040	45E14040	23E14209	330.61	6	110	0	0	0	0	Open	0	0		23E14360	0	99.77	250.25	65.2			
23E15076-45E15018	23E15076	45E15018	15	6	110	4.75	0.05	0	0.01	Open	0	4.75		23E14359	0	99.51	250.25	65.32			
45E15021-23E15099	23E15099	45E15021	15	6	110	7.03	0.08	0	0.01	Open	0	7.03		23E14260	0	104.1	250.25	63.33			
23E15115-45E15025	45E15025	23E15115	10	6	110	0	0	0	0	Open	0	0		23E14399	0	105.63	250.25	62.67			
23E14264-45E14060	23E14264	45E14060	10	6	120	16.1	0.18	0	0.04	Open	0	16.1		23E15062	0.68	110.92	250.24	60.37			
45E14060-23E14359	45E14060	23E14359	133.72	6	120	16.1	0.18	0.01	0.04	Open	0	16.1		23E15060	0	107.08	250.24	62.03			
23E14406-45E14076	45E14076	23E14406	100.62	6	120	-3.48	0.04	0	0	Open	0	3.48		23E15076	0	109.08	250.24	61.17			
45E14076-23E14416	23E14416	45E14076	15	6	120	-2.8	0.03	0	0	Open	0	2.8		23E14327	0.94	102.79	250.39	63.95			
23E14416-45E14077	45E14077	23E14416	15	6	120	-8.42	0.1	0	0.01	Open	0	8.42		23E15112	0	107.61	250.24	61.8			
45E15001-23E15071	23E15071	45E15001	405.96	6	110	-54.34	0.62	0.19	0.46	Open	0	54.34		23E15053	0	98.9	250.26	65.58			
23E14273-45E14065	23E14273	45E14065	10	6	120	17.48	0.2	0	0.05	Open	0	17.48		23E15004	0.72	111.08	250.24	60.3			
45E15015-23E15072	45E15015	23E15072	10	6	120	-20.53	0.23	0	0.06	Open	0	20.53		23E15075	0	110.31	250.24	60.63			
45E15023-23E15110	45E15023	23E15110	15	6	110	-1.62	0.02	0	0	Open	0	1.62		23E15084	0.92	109.04	250.24	61.18			
23E15088-45E15020	23E15088	45E15020	15	6	110	-0.74	0.01	0	0	Open	0	0.74		23E15078	0	107.98	250.24	61.64			
45E15020-45E15023	45E15020	45E15023	225.78	6	110	-1.19	0.01	0	0	Open	0	1.19		23E15090	0	103.97	250.24	63.38			
23E15061-45E15011	45E15011	23E15061	10	6	110	2.91	0.03	0	0	Open	0	2.91		23E15089	2.19	111	250.24	60.33			
45E15011-23E15062	23E15062	45E15011	15	6	110	2.91	0.03	0	0	Open	0	2.91		23E14209	0	115.4	250.38	58.49			
23E14289-23E14292	23E14289	23E14292	1,248.83	16	135	-717.41	1.14	0.39	0.31	Open	0	717.41		23E14228	0	110.24	250.38	60.72			
23E14255-23E14257	23E14257	23E14255	311.04	16	135	718.78	1.15	0.1	0.32	Open	0	718.78		23E14305	0.74	102.67	250.34	63.99			
23E14445-45E14079	23E14445	45E14079	15	6	120	-10.86	0.12	0	0.02	Open	0	10.86		23E14292	1.37	103.94	250.67	63.58			
45E14079-23E14449	45E14079	23E14449	237.36	6	120	-14.81	0.17	0.01	0.04	Open	0	14.81		23E14255	0	106.88	250.69	62.31			
23E14352-23E14378	23E14378	23E14352	33.09	6	120	-4.13	0.05	0	0	Open	0	4.13		23E14449	1.84	99.67	250.31	65.27			
23E14352-45E14072	23E14352	45E14072	76.52	6	120	-4.73	0.05	0	0	Open	0	4.73		23E14445	0.78	100.4	250.3	64.95			
45E14040-23E14210	23E14210	45E14040	15	6	110	6.69	0.08	0	0.01	Open	0	6.69		23E14289	0	107.11	250.27	62.03			
23E14264-45E14058	23E14264	45E14058	271.05	8	120	-68.28	0.44	0.04	0.15	Open	0	68.28		23E14257	0	101.08	250.79	64.87			
23E14274-23E14275	23E14274	23E14275	9.71	8	120	-59.93	0.38	0	0.12	Open	0	59.93		23E14405	0	101.43	250.25	64.48			
45E15004-23E15041	45E15004	23E15041	15	6	110	-1.52	0.02	0	0	Open	0	1.52		23E14378	0	101.98	250.25	64.25			
45E15002-23E15041	23E15041	45E15002	15	6	110	1.49	0.02	0	0	Open	0	1.49		23E14401	0.12	103.32	250.25	63.66			
23E15004-45E15002	45E15002	23E15004	129.7	6	110	0.72	0.01	0	0	Open	0	0.72		23E14406	0.53	103.98	250.25	63.38			
23E15088-23E15090	23E15090	23E15088	14.95	6	110	-5.88	0.07	0	0.01	Open	0	5.88		23E14402	0	102.62	250.25	63.97			
45E15012-23E15069	23E15069	45E15012	10	8	120	6.77	0.04	0	0	Open	0	6.77		23E14427	0.74	102.36	250.25	64.08			
45E14077-23E14418	23E14418	45E14077	12.84	6	120	-8.42	0.1	0	0.01	Open	0	8.42		23E14369	0.86	100.16	250.25	65.03			
45E14078-23E14427	23E14427	45E14078	84.6	6	120	2.99	0.03	0	0	Open	0	2.99		23E14352	0.59	100.74	250.25	64.78			
23E14418-45E14078	45E14078	23E14418	15	6	120	2.09	0.02	0	0	Open	0	2.09		23E14450	2.05	99.08	250.46	65.59			
23E14275-23E14284	23E14275	23E14284	28.26	8	120	-59.93	0.38	0	0.12	Open	0	59.93		23E15073	8.86	98.39	250.27	65.81			

45E14074-23E14369	45E14074	23E14369	136.11	6	120	4.59	0.05	0	0	Open	0	4.59		23E15071	6.67	98.43	250.27	65.79			
45E14055-23E14257	45E14055	23E14257	6.74	16	135	718.78	1.15	0	0.32	Open	0	718.78		23E15038	2.07	107.39	250.24	61.9			
23E14231-45E14051	23E14231	45E14051	495.53	16	135	779.79	1.24	0.18	0.37	Open	0	779.79		23E15119	0	94.45	250.24	67.5			
23E14260-45E14059	23E14260	45E14059	10	6	110	0.59	0.01	0	0	Open	0	0.59		23E14284	0	103.1	250.34	63.8			
45E14059-23E14399	45E14059	23E14399	237.39	6	110	0	0	0	0	Open	0	0		23E14275	0	103.33	250.34	63.7			
23E14450-45E15001	45E15001	23E14450	10	6	110	-58.35	0.66	0.01	0.52	Open	0	58.35		23E14258	0	100.98	250.79	64.91			
23E15110-23E15115	23E15115	23E15110	179.53	6	110	-7.15	0.08	0	0.01	Open	0	7.15		23E14288	0	100.72	250.76	65.01			
23E15113-23E15119	23E15119	23E15113	311.42	6	110	-2.96	0.03	0	0	Open	0	2.96		23E15039	0	109.84	250.24	60.84			
23E15115-45E15026	45E15026	23E15115	176.99	6	110	-3.2	0.04	0	0	Open	0	3.2		23E14287	0	103.77	250.38	63.52			
45E15014-23E15113	23E15113	45E15014	496.07	6	110	-4.04	0.05	0	0	Open	0	4.04		23E14264	33.87	100.64	250.26	64.83			
23E14360-45E14074	23E14360	45E14074	10	6	120	5.31	0.06	0	0.01	Open	0	5.31		23E14226	10.15	106.83	250.38	62.2			
23E14402-23E14427	23E14427	23E14402	25.84	6	120	-3.73	0.04	0	0	Open	0	3.73		23E14286	0	108.83	250.37	61.33			
23E14253-45E14055	23E14253	45E14055	8.91	16	135	718.78	1.15	0	0.32	Open	0	718.78		23E14271	0	102.05	250.3	64.24			
45E14054-23E14254	23E14254	45E14054	4.81	8	120	-59.7	0.38	0	0.11	Open	0	59.7		23E14252	0	104.39	250.26	63.2			
23E14253-45E14054	45E14054	23E14253	5.08	8	120	-59.7	0.38	0	0.11	Open	0	59.7		23E14253	0	101.35	250.79	64.75			
23E15069-23E15075	23E15069	23E15075	138.13	8	120	4.75	0.03	0	0	Open	0	4.75		45E14049	0	102.63	250.25	63.96			
23E15075-23E15076	23E15075	23E15076	13.18	8	120	4.75	0.03	0	0	Open	0	4.75		45E14069	0	107.73	250.25	61.75			
45E15017-23E15080	23E15080	45E15017	10	6	110	0	0	0	0	Open	0	0		45E14070	2.62	101.98	250.36	64.29			
23E15083-45E15021	45E15021	23E15083	238.83	6	110	5.43	0.06	0	0.01	Open	0	5.43		45E14062	0.76	101.71	250.3	64.38			
23E15047-45E15009	23E15047	45E15009	10	6	110	11.52	0.13	0	0.03	Open	0	11.52		45E15007	0	105.44	250.24	62.74			
45E15009-23E15060	45E15009	23E15060	56.62	6	110	11.52	0.13	0	0.03	Open	0	11.52		45E15003	3.97	104.99	250.24	62.94			
23E15071-23E15072	23E15071	23E15072	11.34	6	110	47.66	0.54	0	0.36	Open	0	47.66		45E15002	0.78	107.18	250.24	61.99			
23E15072-23E15073	23E15072	23E15073	7.13	6	110	27.14	0.31	0	0.13	Open	0	27.14		45E14058	0	102.05	250.3	64.23			
45E15007-23E15047	45E15007	23E15047	122.55	6	110	0.92	0.01	0	0	Open	0	0.92		45E14079	3.95	100.16	250.3	65.06			
45E15005-45E15006	45E15005	45E15006	271.42	6	110	-3.69	0.04	0	0	Open	0	3.69		45E15021	1.6	100.56	250.24	64.86			
23E14287-23E14328	23E14328	23E14287	68.01	8	120	71.34	0.46	0.01	0.16	Open	0	71.34		45E15001	4.01	99.08	250.46	65.59			
23E14273-23E14274	23E14273	23E14274	38.87	8	120	-85.07	0.54	0.01	0.22	Open	0	85.07		45E14045	11.81	106.81	250.38	62.21			
45E14067-23E14287	45E14067	23E14287	15	8	120	-59.93	0.38	0	0.11	Open	0	59.93		45E14040	6.69	103.69	250.38	63.56			
45E14058-23E14271	45E14058	23E14271	15.02	8	120	-68.28	0.44	0	0.15	Open	0	68.28		45E14077	0	101.79	250.25	64.33			
23E15047-45E15008	23E15047	45E15008	138.28	6	110	-17.15	0.19	0.01	0.05	Open	0	17.15		45E14076	0.68	101.85	250.25	64.3			
23E14305-45E14070	45E14070	23E14305	136.98	6	110	25.88	0.29	0.02	0.12	Open	0	25.88		45E14033	11.54	109.6	250.1	60.88			
45E14072-23E14359	45E14072	23E14359	15	6	120	-5.18	0.06	0	0.01	Open	0	5.18		45E14065	0.82	101.41	250.33	64.53			
23E14202-23E14210	23E14210	23E14202	160.02	8	120	-31.53	0.2	0.01	0.04	Open	0	31.53		45E15019	0	109.04	250.24	61.18			
45E14061-23E14287	23E14287	45E14061	15	8	120	11.41	0.07	0	0.01	Open	0	11.41		45E15015	3.13	98.39	250.27	65.81			
23E14284-23E14286	23E14284	23E14286	289.48	8	120	-59.93	0.38	0.03	0.12	Open	0	59.93		45E14060	0	100.3	250.26	64.98			
45E14056-23E14289	23E14289	45E14056	36.37	16	135	717.41	1.14	0.01	0.31	Open	0	717.41		45E14072	0.45	99.49	250.25	65.32			
23E14252-45E14056	45E14056	23E14252	15	16	135	717.41	1.14	0	0.31	Open	0	717.41		45E14054	0	101.35	250.79	64.75			
23E14271-45E14062	23E14271	45E14062	9.16	6	120	-9.33	0.11	0	0.01	Open	0	9.33		45E14055	0	102.36	250.79	64.31			
45E15026-23E15119	23E15119	45E15026	54	6	110	2.96	0.03	0	0	Open	0	2.96		45E14051	1.31	102.76	250.8	64.14			
23E14252-45E14053	45E14053	23E14252	17	8	120	-75.28	0.48	0	0.18	Open	0	75.28		45E14034	27.82	102.99	250.37	63.86			
23E14260-23E14264	23E14260	23E14264	171.15	8	120	-18.31	0.12	0	0.01	Open	0	18.31		45E15014	6.02	111.07	250.24	60.3			
23E14255-23E14292	23E14292	23E14255	74.89	16	135	-718.78	1.15	0.02	0.32	Open	0	718.78		45E15024	4.77	108.06	250.24	61.61			
23E14245-23E14246	23E14246	23E14245	25.38	6	110	0	0	0	0	Open	0	0		45E15017	0	107.98	250.24	61.64			
23E15080-45E15019	45E15019	23E15080	5.58	6	110	-6.06	0.07	0	0.01	Open	0	6.06		45E14053	0	103.34	250.25	63.66			
23E14258-23E14288	23E14288	23E14258	32.1	8	120	-161.93	1.03	0.02	0.73	Open	0	161.93		45E15012	3.19	106.56	250.24	62.26			
23E14245-45E14061	45E14061	23E14245	211.77	8	120	7.85	0.05	0	0	Open	0	7.85		45E14074	0.72	99.97	250.25	65.12			
23E15060-23E15069	23E15060	23E15069	15	8	120	11.52	0.07	0	0.01	Open	0	11.52		45E14073	0	99.77	250.25	65.2			
23E15039-23E15061	23E15061	23E15039	94.98	6	110	-7.15	0.08	0	0.01	Open	0	7.15		45E14078	0.9	102.09	250.25	64.2			
23E15038-23E15039	23E15039	23E15038	41.66	6	110	-5.62	0.06	0	0.01	Open	0	5.62		45E14071	0	100.66	250.39	64.88			
23E14401-23E14406	23E14406	23E14401	21.43	6	120	-4.01	0.05	0	0	Open	0	4.01		45E14061	3.56	105.88	250.38	62.61			
23E15073-23E15099	23E15099	23E15073	374.92	6	110	-18.28	0.21	0.02	0.06	Open	0	18.28		45E15018	0	110.37	250.24	60.61			
23E15062-45E15012	45E15012	23E15062	521.51	8	120	3.58	0.02	0	0	Open	0	3.58		45E15020	0.45	105.34	250.24	62.79			
45E15008-23E15053	45E15008	23E15053	136.4	6	120	-17.39	0.2	0.01	0.05	Open	0	17.39		45E15023	0.43	101.07	250.24	64.64			
45E14034-23E14202	23E14202	45E14034	15	6	110	63.48	0.72	0.01	0.61	Open	0	63.48		45E15025	0	101.05	250.24	64.64			
45E14050-23E14252	23E14252	45E14050	15	16	135	642.12	1.02	0	0.26	Open	0	642.12		45E15004	0	110.52	250.24	60.54			
23E15053-45E15015	23E15053	45E15015	184.68	6	120	-17.39	0.2	0.01	0.05	Open	0	17.39		45E15005	0.68	107.17	250.24	61.99			
23E14286-45E14067	23E14286	45E14067	23.19	8	120	-59.93	0.38	0	0.12	Open	0	59.93		45E14059	0.59	103.17	250.25	63.73			
23E14360-23E14405	23E14360	23E14405	133.86	6	120	5.62	0.06	0	0.01	Open	0	5.62		45E14056	0	103.8	250.26	63.46			
45E15024-23E15112	23E15112	45E15024	11.3	6	110	1.08	0.01	0	0	Open	0	1.08		45E14050	10.6	105.07	250.25	62.91			
23E15089-45E15024	45E15024	23E15089	207.42	6	110	-3.69	0.04	0	0	Open	0	3.69		45E14042	0	105.95	250.15	62.48			
23E15078-45E15017	45E15017	23E15078	7.59	6	110	0	0	0	0	Open	0	0		45E15006	1.31	105.55	250.24	62.7			
45E15018-23E15083	45E15018	23E15083	15	6	110	4.75	0.05	0	0.01	Open	0	4.75		45E15009	0	108	250.24	61.63			
23E14359-45E14073	23E14359	45E14073	6.02	6	120	10.92	0.12	0	0.02	Open	0	10.92		45E15011	0	110.92	250.24	60.37			
45E14073-23E14360	45E14073	23E14360	10	6	120	10.92	0.12	0	0.02	Open	0	10.92		45E14066	0	102.28	250.34	64.15			
45E15006-23E15046	45E15006	23E15046	63.73	6	120	-5	0.06	0	0	Open	0	5		45E15026	6.16	97.63	250.24	66.13			

23E15046-45E15007	23E15046	45E15007	62.31	6	120	0.92	0.01	0	0	Open	0	0.92		45E14067	0	103.76	250.38	63.53			
23E15061-45E15014	45E15014	23E15061	15	6	110	-10.05	0.11	0	0.02	Open	0	10.05		45E15008	0.25	101.14	250.25	64.61			
45E14052-23E14254	45E14052	23E14254	15	8	120	102.23	0.65	0	0.31	Open	0	102.23		45E14052	0	101.05	250.8	64.89			
23E14254-23E14258	23E14254	23E14258	7.79	8	120	161.93	1.03	0.01	0.73	Open	0	161.93		J462	4.85	107.4	250.25	61.9			
23E14288-23E14450	23E14288	23E14450	411.65	8	120	161.93	1.03	0.3	0.73	Open	0	161.93		J464	0	107.4	250.25	61.9			
23E15080-23E15083	23E15083	23E15080	14.66	6	110	6.06	0.07	0	0.01	Open	0	6.06		J466	0	107.4	250.25	61.9			
45E15019-23E15084	23E15084	45E15019	10	6	110	-6.06	0.07	0	0.01	Open	0	6.06		J476	0	104.95	250.38	63.02			
23E15039-45E15004	23E15039	45E15004	52.32	6	110	-1.52	0.02	0	0	Open	0	1.52		J480	0	104.05	250.39	63.41			
23E14217-45E14042	45E14042	23E14217	334.46	6	110	0	0	0	0	Open	0	0		J482	0	104.11	250.39	63.38			
45E15003-23E15046	23E15046	45E15003	15	6	120	-5.93	0.07	0	0.01	Open	0	5.93		J520	1.33	104.23	250.39	63.33			
23E15112-23E15113	23E15112	23E15113	4.09	6	110	-1.08	0.01	0	0	Open	0	1.08		J522	2.5	103.24	250.39	63.76			
23E14405-23E14416	23E14405	23E14416	6.38	6	120	5.62	0.06	0	0	Open	0	5.62									
23E14378-23E14401	23E14401	23E14378	89.74	6	120	-4.13	0.05	0	0	Open	0	4.13									
23E14369-23E14402	23E14402	23E14369	118.43	6	120	-3.73	0.04	0	0	Open	0	3.73									
45E14066-23E14305	45E14066	23E14305	78	6	110	-25.14	0.29	0.01	0.11	Open	0	25.14									
23E14274-45E14066	23E14274	45E14066	10	6	110	-25.14	0.29	0	0.11	Open	0	25.14									
23E15089-23E15090	23E15089	23E15090	97.21	6	110	-5.88	0.07	0	0.01	Open	0	5.88									
23E14226-45E14045	23E14226	45E14045	15	6	120	11.81	0.13	0	0.02	Open	0	11.81									
45E14045-23E14228	45E14045	23E14228	154.39	6	120	0	0	0	0	Open	0	0									
45E14051-23E14253	45E14051	23E14253	10	16	135	778.48	1.24	0	0.37	Open	0	778.48									
P759	J462	23E15038	413.97	6	110	7.69	0.09	0.01	0.01	Open	0	7.69									
P761	J462	J464	25	6	110	0	0	0	0	Open	0	0									
P763	J464	J466	6.62	4	110	0	0	0	0	Open	0	0									
66368	J480	J482	16.28	6	120	10.77	0.12	0	0.02	Open	0	10.77									
70390	J514	J480	10.48	6	120	10.77	0.12	0	0.02	Open	0	10.77									
70397	J482	J520	7.74	6	120	10.77	0.12	0	0.02	Open	0	10.77									
70399	J520	J522	212.7	6	120	9.44	0.11	0	0.02	Open	0	9.44									
70403	J522	J516	253.44	6	120	6.94	0.08	0	0.01	Open	0	6.94									
66769	J478	J476	7.29	8	120	95.01	0.61	0	0.27	Open	0	95.01									

Pipe Report														Junction Report								
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
45E07034-23E07350	45E07034	23E07350	15	8	120	-3.6	0.02	0	0	Open	0	3.6		23E07334	1.11	74.06	258.3	79.83		Average	81.30861111
45E07020-23E07163	23E07163	45E07020	15	12	120	-73.3	0.21	0	0.02	Open	0	73.3		23E07380	0.7	70.81	258.32	81.25		Minimum	76.43
23E07368-23E07376	23E07368	23E07376	257.27	8	120	-18.68	0.12	0	0.01	Open	0	18.68		23E07067	2.23	71.73	258.38	80.87		Maximum	86.15
23E07418-45E07051	23E07418	45E07051	76.5	6	110	12.1	0.14	0	0.03	Open	0	12.1		23E07163	2.58	70.17	258.37	81.55		**Velocity**	
45E07051-23E07424	45E07051	23E07424	54.31	6	110	-1.9	0.02	0	0	Open	0	1.9		23E07142	0.53	60.46	258.3	85.73		Average	0.139135802
23E06441-45E06052	45E06052	23E06441	15	12	120	-142.15	0.4	0	0.08	Open	0	142.15		23E07384	0.61	71.4	258.33	81		Minimum	0
45E07006-23E07044	23E07044	45E07006	319.13	8	120	46.78	0.3	0.02	0.07	Open	0	46.78		23E07044	3.36	71.28	258.35	81.06		Maximum	0.6
23E07029-45E07006	45E07006	23E07029	10	8	120	45.14	0.29	0	0.07	Open	0	45.14		23E07029	2.11	75.11	258.33	79.39		**Flow**	
45E07014-45E07016	45E07014	45E07016	552.89	6	110	0.61	0.01	0	0	Open	0	0.61		23E07057	0	65.27	258.38	83.68		Average	27.96617284
45E07016-23E07147	45E07016	23E07147	45.55	6	110	-3.19	0.04	0	0	Open	0	3.19		23E07390	0	81.05	258.36	76.83		Minimum	0
23E07207-45E07023	23E07207	45E07023	15	8	120	-7.76	0.05	0	0	Open	0	7.76		23E07056	1.13	66.94	258.38	82.95		Maximum	142.15
23E07029-23E07116	23E07029	23E07116	260.82	8	120	40.72	0.26	0.01	0.06	Open	0	40.72		23E07389	0.59	79.81	258.36	77.36			
23E07044-23E07056	23E07056	23E07044	317	8	120	53.19	0.34	0.03	0.09	Open	0	53.19		23E07277	3.13	70.86	258.3	81.22			
23E07056-23E07057	23E07057	23E07056	15	12	120	54.31	0.15	0	0.01	Open	0	54.31		23E07289	1.27	76.09	258.31	78.95			
23E07389-23E07390	23E07389	23E07390	13	12	120	-59.8	0.17	0	0.02	Open	0	59.8		23E07116	1.56	68.51	258.31	82.24			
23E07417-23E07418	23E07417	23E07418	150.5	6	110	12.1	0.14	0	0.03	Open	0	12.1		23E07409	0	70.91	258.35	81.22			
45E07027-23E07350	23E07350	45E07027	15	8	120	3.98	0.03	0	0	Open	0	3.98		23E07411	0	71.52	258.36	80.96			
23E07207-45E07027	45E07027	23E07207	653.76	8	120	0.3	0	0	0	Open	0	0.3		23E07410	0	71.38	258.35	81.01			
23E07350-45E07035	23E07350	45E07035	15.01	8	120	-7.58	0.05	0	0	Open	0	7.58		23E07327	3.87	65.76	258.3	83.43			
45E07035-23E07368	45E07035	23E07368	584.17	8	120	-11.25	0.07	0	0.01	Open	0	11.25		23E07350	0	76.06	258.3	78.97			
45E07024-23E07277	23E07277	45E07024	174.63	6	110	-3.81	0.04	0	0	Open	0	3.81		23E07376	1.96	73.23	258.31	80.2			
23E07207-45E07024	45E07024	23E07207	15	6	110	-3.81	0.04	0	0	Open	0	3.81		23E07207	4.26	66.96	258.3	82.91			
45E07023-45E07030	45E07023	45E07030	780.46	8	120	-14.17	0.09	0.01	0.01	Open	0	14.17		23E07368	4.99	68.46	258.31	82.26			
45E07030-23E07376	45E07030	23E07376	15	8	120	-20.97	0.13	0	0.02	Open	0	20.97		23E07399	1.25	72.38	258.3	80.56			
23E07289-45E07028	23E07289	45E07028	152.62	6	110	-2.44	0.03	0	0	Open	0	2.44		23E07121	17.42	71.45	258.48	81.04			
45E07028-23E07368	45E07028	23E07368	15	6	110	-2.44	0.03	0	0	Open	0	2.44		23E07086	2.44	66.6	258.37	83.1			
23E07376-45E07036	23E07376	45E07036	15	8	120	-41.61	0.27	0	0.06	Open	0	41.61		23E07147	5.55	70.17	258.31	81.52			
45E07036-23E07380	45E07036	23E07380	91.88	8	120	-41.87	0.27	0.01	0.06	Open	0	41.87		23E07146	0.8	61.09	258.31	85.45			
23E07380-45E07037	23E07380	45E07037	11.1	8	120	-42.57	0.27	0	0.06	Open	0	42.57		23E07424	4.67	78.74	258.35	77.82			
23E07163-45E07032	45E07032	23E07163	631.71	12	120	-62.17	0.18	0.01	0.02	Open	0	62.17		23E07418	0	77.36	258.35	78.42			
45E07038-23E07389	45E07038	23E07389	232	8	120	-59.21	0.38	0.03	0.11	Open	0	59.21		23E07148	4.85	64.94	258.36	83.81			
23E07147-45E07031	23E07147	45E07031	843.71	6	110	-8.74	0.1	0.01	0.02	Open	0	8.74		23E06459	1.72	66.53	258.35	83.12			
45E07031-23E07384	45E07031	23E07384	15	6	110	-14.76	0.17	0	0.04	Open	0	14.76		23E06458	1.13	69.8	258.33	81.69			
45E07014-23E07116	23E07116	45E07014	14.05	6	110	3.48	0.04	0	0	Open	0	3.48		23E07417	0	72.05	258.35	80.72			
45E06059-45E07012	45E06059	45E07012	462.93	8	120	94.1	0.6	0.12	0.27	Open	0	94.1		23E07401	0	71.52	258.36	80.96			
23E06459-45E07005	23E06459	45E07005	200.53	6	110	-2.33	0.03	0	0	Open	0	2.33		46E07030	1.17	76.98	258.31	78.57			
23E07101-23E07142	23E07101	23E07142	229.39	8	120	-27.27	0.17	0.01	0.03	Open	0	27.27		46E07029	0.68	70.86	258.3	81.22			
23E07401-23F07297	23E07401	23F07297	246.61	12	120	-12.21	0.03	0	0	Open	0	12.21		45E07012	3.19	70.77	258.48	81.33			
23E07334-45E07034	23E07334	45E07034	130.85	8	120	-3.27	0.02	0	0	Open	0	3.27		45E07015	0.74	68.11	258.31	82.42			
45E07026-23E07334	45E07026	23E07334	89.77	8	120	-2.16	0.01	0	0	Open	0	2.16		45E07014	2.87	68.93	258.31	82.06			
45E07012-23E07121	23E07121	45E07012	15	8	120	-90.91	0.58	0	0.25	Open	0	90.91		45E07006	1.64	76.52	258.33	78.78			
23E07121-23F07103	23F07103	23E07121	364.93	8	120	-73.49	0.47	0.06	0.17	Open	0	73.49		45E07034	0.33	75.07	258.3	79.39			
45E07010-23E07086	23E07086	45E07010	15	6	110	5.16	0.06	0	0.01	Open	0	5.16		45E07023	6.41	66.33	258.3	83.18			
45E07018-23E07146	45E07018	23E07146	92.73	8	120	-34.15	0.22	0	0.04	Open	0	34.15		45E07024	0	67	258.3	82.89			
23E07142-45E07019	45E07019	23E07142	54.42	8	120	-6.35	0.04	0	0	Open	0	6.35		45E07028	0	68.42	258.31	82.28			
23E07327-45E07026	23E07327	45E07026	34.88	8	120	-2.08	0.01	0	0	Open	0	2.08		45E07036	0.27	73.02	258.31	80.29			
23E07142-45E07018	23E07142	45E07018	15	8	120	-34.15	0.22	0	0.04	Open	0	34.15		45E07030	6.8	73.09	258.31	80.26			
23E07277-46E07029	46E07029	23E07277	10	6	110	-0.68	0.01	0	0	Open	0	0.68		45E07037	0.65	69.99	258.32	81.6			
46E07030-23E07289	46E07030	23E07289	10	6	110	-1.17	0.01	0	0	Open	0	1.17		45E07038	0.61	71.4	258.33	81			
45E07005-23E07044	45E07005	23E07044	15	6	110	-3.05	0.03	0	0	Open	0	3.05		45E07031	6.02	70.39	258.33	81.43			
45E07007-23E07057	23E07057	45E07007	14.95	12	120	-139.3	0.4	0	0.08	Open	0	139.3		45E07016	3.81	69.23	258.31	81.93			
23E06470-45E07010	23E06470	45E07010	324.15	6	110	-4.99	0.06	0	0.01	Open	0	4.99		45E07005	0.72	71.1	258.35	81.14			
23E07327-23E07399	23E07399	23E07327	158.68	8	120	-1.25	0.01	0	0	Open	0	1.25		45E07007	1.8	65.78	258.38	83.45			
45E07019-23E07327	23E07327	45E07019	633.34	8	120	-3.03	0.02	0	0	Open	0	3.03		45E07009	0.41	63.48	258.38	84.45			
45E07037-23E07384	45E07037	23E07384	172.02	8	120	-43.22	0.28	0.01	0.06	Open	0	43.22		45E07010	0.16	67.88	258.37	82.54			
23E07067-23E07086	23E07086	23E07067	147.52	12	120	-82.35	0.23	0	0.03	Open	0	82.35		45E07051	14	78.34	258.35	78			
45E06052-45E07007	45E06052	45E07007	309.86	12	120	141.1	0.4	0.02	0.08	Open	0	141.1		45E07021	0.43	70.52	258.37	81.39			
23E07410-45E07049	23E07410	45E07049	15	8	130	12.1	0.08	0	0.01	Open	0	12.1		45E07020	1.45	70.35	258.37	81.47			
45E07039-23E07401	45E07039	23E07401	303.18	12	120	-0.11	0	0	0	Open	0	0.11		45E07032	2.23	80.52	258.36	77.06			
45E07049-23E07417	45E07049	23E07417	49.68	8	130	12.1	0.08	0	0	Open	0	12.1		45E07018	0	60.46	258.3	85.73			
45E07044-23E07411	45E07044	23E07411	701.15	8	130	-12.1	0.08	0	0.01	Open	0	12.1		45E07019	3.32	59.47	258.3	86.15			
23E07409-45E07043	23E07409	45E07043	10	8	130	0	0	0	0	Open	0	0		45E07026	0.08	67.96	258.3	82.48			
23E07390-45E07039	23E07390	45E07039	15	12	120	0.14	0	0	0	Open	0	0.14		45E07035	3.66	75.38	258.3	79.26			

23E07148-45E07021	45E07021	23E07148	176.91	6	110	8.13	0.09	0	0.01	Open	0	8.13		45E07027	3.68	76.06	258.3	78.97			
23E06458-23E07029	23E07029	23E06458	213.67	6	110	2.31	0.03	0	0	Open	0	2.31		45E07039	0.25	81.97	258.36	76.43			
23E06461-23E07148	23E06461	23E07148	490.17	6	110	-3.27	0.04	0	0	Open	0	3.27		45E06052	1.04	62.99	258.41	84.67			
45E07043-23E07410	45E07043	23E07410	15	8	130	0	0	0	0	Open	0	0		46E06041	1.19	68.84	258.33	82.11			
23E07410-45E07044	23E07410	45E07044	15	8	130	-12.1	0.08	0	0	Open	0	12.1		46E06042	0.61	65.75	258.35	83.45			
45E07032-23E07390	23E07390	45E07032	14.84	12	120	-59.94	0.17	0	0.01	Open	0	59.94		45E07044	0	71.79	258.35	80.84			
23E07086-45E07020	45E07020	23E07086	284.23	12	120	-74.76	0.21	0.01	0.02	Open	0	74.76		45E07049	0	71.72	258.35	80.87			
46E06042-23E06459	46E06042	23E06459	15	6	110	-0.61	0.01	0	0	Open	0	0.61		45E07043	0	71.2	258.35	81.09			
46E06041-23E06458	23E06458	46E06041	15	6	110	1.19	0.01	0	0	Open	0	1.19		45E07041	0	71.52	258.36	80.96			
23E07401-45E07041	23E07401	45E07041	6.06	8	130	12.1	0.08	0	0.01	Open	0	12.1									
45E07041-23E07411	45E07041	23E07411	20.04	8	130	12.1	0.08	0	0.01	Open	0	12.1									
45F07070-23E07424	23E07424	45F07070	1,001.04	6	110	-6.57	0.07	0.01	0.01	Open	0	6.57									
45E07015-23E07146	23E07146	45E07015	122.87	8	120	-34.95	0.22	0.01	0.04	Open	0	34.95									
23E07116-45E07015	45E07015	23E07116	15.96	8	120	-35.69	0.23	0	0.04	Open	0	35.69									
45E07009-23E07067	23E07067	45E07009	112.3	12	120	-84.58	0.24	0	0.03	Open	0	84.58									
23E07057-45E07009	45E07009	23E07057	15	12	120	-84.99	0.24	0	0.03	Open	0	84.99									
45E07021-23E07163	23E07163	45E07021	15	6	110	8.56	0.1	0	0.01	Open	0	8.56									
23E07384-45E07038	23E07384	45E07038	15	8	120	-58.6	0.37	0	0.11	Open	0	58.6									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
41E11001-28E11002	28E11002	41E11001	45.08	36	135	0.00	0	0	0	Open	0	0		23E12071	0	106.76	251.76	62.83		Average	61.67148148
28E11002-45E11052	45E11052	28E11002	20.2	24	130	0.00	0	0	0	Open	0	0		23E11409	0	103.02	251.88	64.5		Minimum	1.46
23E11446-23E11447	23E11446	23E11447	28.76	14	130	185.08	0.39	0	0.05	Open	0	185.08		23E11473	0	104.41	251.75	63.84		Maximum	126.25
45E12007-23E12100	23E12100	45E12007	54.56	12	120	-84.51	0.24	0	0.03	Open	0	84.51		23E11477	0	105.22	251.76	63.49		**Velocity**	
23E11403-23E11458	23E11403	23E11458	147.29	20	130	0	0	0	0	Open	0	0		23E11481	0	105.22	251.88	63.55		Average	0.104444444
23E11403-23E11404	23E11403	23E11404	119.07	20	130	0	0	0	0	Open	0	0		23E11403	0	103.53	251.76	64.23		Minimum	0
45E11059-23E11469	23E11469	45E11059	15	8	130	-22.48	0.14	0	0.02	Open	0	22.48		23E11407	0	103.46	251.88	64.31		Maximum	0.39
45E11058-45E11059	45E11059	45E11058	193.57	8	130	-22.48	0.14	0	0.02	Open	0	22.48		23E11404	0	103.02	251.76	64.45		**Flow**	
23E11477-23E12071	23E11477	23E12071	622.49	20	130	-24.06	0.02	0	0	Open	0	24.06		23E11465	0	103.06	251.74	64.43		Average	36.81041667
23E11465-45E11058	45E11058	23E11465	15	8	130	-24.06	0.15	0	0.02	Open	0	24.06		23E11474	0	103.48	251.75	64.24		Minimum	0
45E11061-23E11474	23E11474	45E11061	130.85	8	130	-24.06	0.15	0	0.02	Open	0	24.06		23E12070	0	106.08	251.76	63.12		Maximum	187.47
23E11473-45E11061	45E11061	23E11473	15	8	130	-24.06	0.15	0	0.02	Open	0	24.06		23E11459	0	103.24	251.88	64.41			
23E11455-45E12009	23E11455	45E12009	666.03	14	130	-187.16	0.39	0.04	0.05	Open	0	187.16		23E11458	0	103.24	251.76	64.35			
23E11463-23E11477	23E11477	23E11463	28.96	20	130	24.06	0.02	0	0	Open	0	24.06		23E11405	0.74	106.05	251.74	63.13			
45E11052-23E11409	23E11409	45E11052	7.13	24	130	0.00	0	0	0	Open	0	0		23E11355	2.52	100.23	251.73	65.64			
45E11055-23E11446	45E11055	23E11446	10	14	130	185.08	0.39	0	0.05	Open	0	185.08		23E11393	0.31	104.61	251.73	63.75			
23E11443-23E11455	23E11443	23E11455	74.76	14	130	-186.32	0.39	0	0.05	Open	0	186.32		23E11442	0	106.07	251.75	63.12			
23E11463-45E11060	45E11060	23E11463	12.79	6	110	-24.06	0.27	0	0.1	Open	0	24.06		23E11446	0	106.24	251.74	63.05			
23E11391-23E11392	23E11392	23E11391	10	14	130	0	0	0	0	Open	0	0		23E11443	1.25	105.12	251.75	63.53			
23E11393-23E11406	23E11393	23E11406	49.65	12	120	-119.98	0.34	0	0.06	Open	0	119.98		23E11406	0.12	106.05	251.74	63.13			
23E11458-23E11463	23E11463	23E11458	27.32	20	130	0	0	0	0	Open	0	0		23E11455	0.84	103.76	251.75	64.13			
23E11442-45E11055	23E11442	45E11055	15	14	130	185.08	0.39	0	0.05	Open	0	185.08		23E11469	0	104.53	251.74	63.79			
45E11060-23E11471	23E11471	45E11060	7.74	6	120	-24.06	0.27	0	0.09	Open	0	24.06		23E11447	0	106.13	251.74	63.09			
23E11471-23E11473	23E11473	23E11471	59.65	6	110	-24.06	0.27	0.01	0.1	Open	0	24.06		23E11391	0	104.99	251.73	63.58			
23E11465-23E11474	23E11465	23E11474	24.1	8	130	-24.06	0.15	0	0.02	Open	0	24.06		23E11394	0	105.04	251.73	63.56			
23E12071-23E12070	23E12071	23E12070	8.91	8	120	-24.06	0.15	0	0.02	Open	0	24.06		23E11392	0	104.99	251.73	63.58			
23E11355-45E11050	23E11355	45E11050	143.3	12	120	-119.67	0.34	0.01	0.06	Open	0	119.67		23E11471	0	103.78	251.75	64.12			
45E11050-23E11392	45E11050	23E11392	15	12	120	-119.67	0.34	0	0.06	Open	0	119.67		23E11463	0	104.15	251.76	63.96			
45E11035-23E11355	45E11035	23E11355	238.52	14	130	-117.16	0.24	0.01	0.02	Open	0	117.16		28E11002	0	103.02	251.88	64.5			
23E11405-23E11406	23E11406	23E11405	10	12	120	0.74	0	0	0	Open	0	0.74		45E11052	0	103.02	251.88	64.5			
23E11392-23E11393	23E11393	23E11392	17.26	14	130	119.67	0.25	0	0.02	Open	0	119.67		45E11067	0.47	107.81	251.74	62.36			
23E11459-23E11481	23E11481	23E11459	58.45	24	130	0.00	0	0	0	Open	0	0		45E12009	0.31	104.72	251.79	63.73			
23E11392-23E11394	23E11392	23E11394	10	12	120	0	0	0	0	Open	0	0		45E11059	0	104.94	251.74	63.61			
23E11447-23E11469	23E11447	23E11469	90.97	12	120	64.23	0.18	0	0.02	Open	0	64.23		45E11050	0	104.67	251.73	63.72			
23E11469-45E11067	23E11469	45E11067	132.91	12	120	86.72	0.25	0	0.03	Open	0	86.72		45E12007	1.74	106.69	251.72	62.84			
23E12071-23E12089	23E12071	23E12089	5	20	130	0	0	0	0	Open	0	0		45E11055	0	106.24	251.74	63.05			
23E12070-45E12014	45E12014	23E12070	3.21	8	120	24.06	0.15	0	0.02	Open	0	24.06		45E11058	1.58	102.65	251.74	64.6			
45E11067-45E12007	45E11067	45E12007	460.65	12	120	86.25	0.24	0.01	0.03	Open	0	86.25		45E11060	0	103.78	251.75	64.12			
23E11406-23E11447	23E11406	23E11447	82.44	12	120	-120.84	0.34	0	0.06	Open	0	120.84		45E11061	0	105.16	251.75	63.52			
23E11481-45E12029	23E11481	45E12029	646.37	24	130	0.00	0	0	0	Open	0	0		41E11001	0	97	251.88	67.11			
23E11407-23E11459	23E11407	23E11459	143.92	24	130	0.00	0	0	0	Open	0	0		R1_1	0	97	100.38	1.46			
23E11407-23E11409	23E11407	23E11409	119.07	24	130	0.00	0	0	0	Open	0	0		R1_13	0	97	100.38	1.46			
45E12009-23E12114	45E12009	23E12114	31	14	130	-187.47	0.39	0	0.05	Open	0	187.47		R1_12	0	97	251.88	67.11			
23E11442-23E11443	23E11443	23E11442	77	14	130	185.08	0.39	0	0.05	Open	0	185.08		R1_6	0	97	100.38	1.46			
R1-R1_1	R1_1	R1	34.71	36	135	0.00	0	0	0	Open	0	0		R1_2	0	97	100.38	1.46			
R1_13-R1_1	R1_13	R1_1	37.81	16	130	0	0	0	0	Open	0	0		R1_3	0	97	100.38	1.46			
R1_VALV-R1_12	R1_12	R1IN	12.07	16	130	0	0	0	0	Open	0	0		R1_4	0	97	100.38	1.46			
R1_VALV-R1_13	R1FILL	R1_13	21.17	16	130	0	0	0	0	Open	0	0		R1_5	0	97	100.38	1.46			
41E11001-R1_12	R1_12	41E11001	172.63	24	130	0.00	0	0	0	Open	0	0		R1_7	0	97	388.38	126.25			
R1_1-R1_2	R1_1	R1_2	30.48	36	135	0.00	0	0	0	Open	0	0		R1_11	0	97	388.38	126.25			
R1_2-R1_3	R1_2	R1_3	27.08	36	135	0.00	0	0	0	Open	0	0		R1_10	0	97	388.38	126.25			
R1_3-R1_4	R1_3	R1_4	26.57	36	135	0.00	0	0	0	Open	0	0		R1_9	0	97	388.38	126.25			
R1_4-R1_5	R1_4	R1_5	21.88	36	135	0.00	0	0	0	Open	0	0		R1_8	0	97	388.38	126.25			
R1_5-R1_6	R1_5	R1_6	21.36	36	135	0	0	0	0	Open	0	0		R1IN	0	97	251.88	67.11			
R1_11-R1_12	R1_11	RES1SETPOINT	19.07	24	130	0.00	0	0	0	Open	0	0									
R1_10-R1_11	R1_11	R1_10	30.21	24	130	0.00	0	0	0	Open	0	0									
R1_9-R1_10	R1_10	R1_9	25.52	24	130	0.00	0	0	0	Open	0	0									
R1_8-R1_9	R1_9	R1_8	21.87	24	130	0.00	0	0	0	Open	0	0									
R1_7-R1_8	R1_8	R1_7	18.75	24	130	0	0	0	0	Open	0	0									
R1_2-RES1ELEC1	R1_2	RES1ELECT1	40.64	10	120	0	0	0	0	Open	0	0									
RES1ELEC1-R1_11	RES1ELECT1	R1_11	44.27	10	120	0	0	0	0	Open	0	0									
R1_3-RES1ELEC2	R1_3	RES1ELEC2	40.11	10	120	0	0	0	0	Open	0	0									
RES1ELEC2-R1_10	RES1ELEC2	R1_10	45.32	10	120	0	0	0	0	Open	0	0									
R1_4-RES1GAS1	R1_4	RES1GAS1	36.99	12	120	0	0	0	0	Open	0	0									
RES1GAS1-R1_9	RES1GAS1	R1_9	47.92	12	120	0	0	0	0	Open	0	0									
R1_5-RES1GAS2	R1_5	RES1GAS2	39.07	12	120	0.01	0	0	0	Open	0	0.01									

Reservoir 1 Scenario 2

RES1GAS2-R1_8	RES1GAS2	R1_8	45.83	12	120	0.01	0	0	0	Open	0	0.01								
R1_6-RES1GAS3	R1_6	RES1GAS3	39.08	12	120	0	0	0	0	Open	0	0								
RES1GAS3-R1_7	RES1GAS3	R1_7	45.32	12	120	0	0	0	0	Open	0	0								
CONTROL	R1_1	R1_13	40.22	0.01	135	0	0	0	0	Closed	0	0								
P711	R1IN	R1FILL	14.01	16	130	0	0	0	0	Open	0	0								
P1029	RES1SETPOINT	R1_12	11.34	24	130	0.00	0	0	0	Open	0	0								

Pipe Report														**Junction Report**							**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)				
23N12332-23N12336	23N12336	23N12332	6.34	16	130	0.25	0	0	0	Open	0	0.25		23N12376	0	84.61	252.1	72.57			Average	53.12909091
45N12004-23N12332	23N12332	45N12004	10.01	12	120	0.25	0	0	0	Open	0	0.25		23N12323	0	88.07	252.1	71.07			Minimum	-4.72
45N12003-45N12004	45N12004	45N12003	7.1	12	120	0.25	0	0	0	Open	0	0.25		23N12359	0	84.84	252.1	72.47			Maximum	77.6
23N12326-23N13241	23N12326	23N13241	866.94	30	135	-7.72	0	0	0	Open	0	7.72		23N12352	0	85.87	252.1	72.03			**Velocity**	
23N12326-23N12336	23N12336	23N12326	57.01	30	135	-7.72	0	0	0	Open	0	7.72		23N12329	0	86.57	252.1	71.72			Average	0.061702128
25N12229-23N12352	23N12352	25N12229	16	12	120	-0.25	0	0	0	Open	0	0.25		23N13171	4.5	85.61	252.09	72.13			Minimum	0
28N12001-23N12376	23N12376	28N12001	129.3	39	135	0	0	0	0	Open	0	0		23N12345	0	86.2	252.1	71.88			Maximum	0.7
23N12359-28N12001	23N12359	28N12001	24.66	30	135	-0.25	0	0	0	Open	0	0.25		23N12320	0	88.07	252.1	71.07			**Flow**	
23N12328-45N12003	45N12003	23N12328	5.37	12	120	0.25	0	0	0	Open	0	0.25		23N12336	0	86.83	252.1	71.61			Average	13.37085106
23N12329-45N12005	23N12329	45N12005	41	6	120	-7.72	0.09	0	0.01	Open	0	7.72		23N12328	0	86.98	252.1	71.55			Minimum	0
45N12005-23N12345	45N12005	23N12345	10	6	120	-7.72	0.09	0	0.01	Open	0	7.72		23N12326	0	87.71	252.1	71.23			Maximum	196.86
23N12323-45N12002	45N12002	23N12323	18.01	12	130	0	0	0	0	Open	0	0		23N12286	0	85.3	252.1	72.27				
45N12006-25N12229	25N12229	45N12006	15	12	120	-0.25	0	0	0	Open	0	0.25		23N12332	0	86.83	252.1	71.61				
23N12345-23N12359	23N12359	23N12345	56.63	30	135	0.25	0	0	0	Open	0	0.25		28N12001	0	85.04	252.1	72.39				
23N12336-23N12345	23N12345	23N12336	26.42	30	135	-7.46	0	0	0	Open	0	7.46		25N12229	0	85.73	252.1	72.09				
23N12352-28N12001	28N12001	23N12352	24.68	12	120	-0.25	0	0	0	Open	0	0.25		45N12003	0	87.35	252.1	71.39				
46N12001-23N12329	46N12001	23N12329	36	6	120	-7.72	0.09	0	0.01	Open	0	7.72		45N12006	0	85.88	252.1	72.02				
23N12328-45N12006	45N12006	23N12328	52.02	12	120	-0.25	0	0	0	Open	0	0.25		45N12005	0	86.2	252.1	71.88				
23N12376-41N12001	41N12001	23N12376	169.95	39	135	0	0	0	0	Open	0	0		46N12001	7.72	86.29	252.1	71.85				
45N12002-23N12328	23N12328	45N12002	20	12	120	0	0	0	0	Open	0	0		45N12002	0	87.74	252.1	71.22				
23N12320-23N12323	23N12323	23N12320	10	12	130	0	0	0	0	Open	0	0		45N12004	0	86.83	252.1	71.61				
23N12286-23N12320	23N12320	23N12286	182.63	12	130	0	0	0	0	Open	0	0		45N13019	0.45	83.37	252.06	73.09				
45N13019-23N13171	23N13171	45N13019	70.34	8	120	110.13	0.7	0.03	0.36	Open	0	110.13		45N13020	1.25	86.95	252.08	71.55				
23N13171-45N13048	45N13048	23N13171	1,258.48	12	120	196.86	0.56	0.18	0.14	Open	0	196.86		41N12001	0	73	252.1	77.6				
23N13171-45N13020	45N13020	23N13171	31	10	120	-82.22	0.34	0	0.07	Open	0	82.22		R2_1	0	73	62.1	-4.72				
45N13020-23N13240	23N13240	45N13020	270.84	10	120	-80.98	0.33	0.02	0.07	Open	0	80.98		R2_6	0	73	100.1	11.74				
23N13125-45N13019	45N13019	23N13125	110.9	8	120	109.68	0.7	0.04	0.35	Open	0	109.68		R2_7	0	73	100.1	11.74				
RES2-R2_1	R2	R2_1	19.54	30	135	0	0	0	0	Open	0	0		R2_8	0	73	100.1	11.74				
VALV1-41N12001	41N12001	R2FILL	23.43	16	130	0	0	0	0	Open	0	0		R2_9	0	73	100.1	11.74				
R2_1-R2_2	R2_1	R2_2	33.86	30	135	0	0	0	0	Open	0	0		R2_5	0	73	62.1	-4.72				
R2_6-R2_7	R2_6	R2_7	21.27	39	135	0	0	0	0	Open	0	0		R2_4	0	73	62.1	-4.72				
R2_7-R2_8	R2_7	R2_8	19.53	39	135	0	0	0	0	Open	0	0		R2_3	0	73	62.1	-4.72				
R2_8-R2_9	R2_8	R2_9	26.05	39	135	0	0	0	0	Open	0	0		R2_2	0	73	62.1	-4.72				
R2_9-41N12001	RES2SETPOINT	41N12001	9.54	39	135	0	0	0	0	Open	0	0										
R2_4-R2_5	R2_4	R2_5	21.92	12	120	0	0	0	0	Open	0	0										
R2_3-R2_4	R2_3	R2_4	19.76	30	135	0	0	0	0	Open	0	0										
R2_2-R2_3	R2_2	R2_3	24.97	30	135	0	0	0	0	Open	0	0										
R2_5-GAS4	R2_5	RES2GAS4	24.82	16	130	0	0	0	0	Open	0	0										
GAS4-R2_8	RES2GAS4	R2_6	23.16	16	130	0	0	0	0	Open	0	0										
R2_4-GAS3	R2_4	RES2GAS3	23.23	16	130	0	0	0	0	Open	0	0										
R2_3-GAS2	R2_3	RES2GAS2	22.8	16	130	0	0	0	0	Open	0	0										
GAS2-R2_8	RES2GAS2	R2_8	24.77	16	130	0	0	0	0	Open	0	0										
R2_2-GAS1	R2_2	RES2GAS1	22.36	16	130	0	0	0	0	Open	0	0										
GAS1-R2_9	RES2GAS1	R2_9	24.97	16	130	0	0	0	0	Open	0	0										
GAS3-R2_7	RES2GAS3	R2_7	24.99	16	130	0	0	0	0	Open	0	0										
R2_1-VALV1	R2FILL	R2_1	23.5	16	130	0	0	0	0	Open	0	0										
P1033	R2_9	RES2SETPOINT	21.96	39	135	0	0	0	0	Open	0	0										

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
45H02008-23H02055	23H02055	45H02008	482.45	18	130	1,791.75	2.26	0.5	1.04	Open	0	1791.75		23H02005	0	35.83	280.27	105.92		Average	105.8225
23H02001-45H02001	45H02001	23H02001	15	8	120	-102.66	0.66	0	0.31	Open	0	102.66		23H02017	0.43	37.52	279.86	105.01		Minimum	105.01
20H02001-23H02001	23H02001	20H02001	18.51	12	120	-2,155.27	6.11	0.23	12.19	Open	0	2155.27		23H02001	0	35.42	280.55	106.21		Maximum	106.21
45H02007-23H02017	23H02017	45H02007	15	12	120	-2,052.61	5.82	0.17	11.13	Open	0	2052.61		20H02001	0	35.82	280.77	106.14		**Velocity**	
23H02001-45H02003	45H02003	23H02001	15	12	120	-2,052.61	5.82	0.17	11.13	Open	0	2052.61		45H02001	0	35.72	280.54	106.08		Average	4.469230769
23H02002-23H02017	23H02017	23H02002	442.36	18	130	3,840.61	4.84	1.88	4.25	Open	0	3840.61		45H02007	0	36.55	280.03	105.5		Minimum	0.66
23H02017-45H02008	45H02008	23H02017	15	18	130	1,788.43	2.25	0.02	1.03	Open	0	1788.43		45H02003	0	35.43	280.38	106.14		Maximum	6.11
45H02001-23H02026	23H02026	45H02001	494.77	8	120	-102.66	0.66	0.15	0.31	Open	0	102.66		45H02008	3.32	36.22	279.88	105.58		**Flow**	
45H02003-23H02005	23H02005	45H02003	10	12	120	-2,052.61	5.82	0.11	11.14	Open	0	2052.61								Average	1873.459231
23H02009-45H02007	45H02007	23H02009	9.93	12	120	-2,052.61	5.82	0.11	11.14	Open	0	2052.61								Minimum	102.66
23H02005-23H02009	23H02009	23H02005	11.69	12	120	-2,052.61	5.82	0.13	11.13	Open	0	2052.61								Maximum	3840.61
WELL1PIPE1	WELL1	WELL1PUMP	39.24	12	120	2,155.27	6.11	0.48	12.19	Open	0	2155.27									
WELL1PUMP-20H02001	WELL1PUMP	20H02001	37.52	12	120	2,155.27	6.11	0.46	12.19	Open	0	2155.27									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02054-23F02057	23F02057	23F02054	289.3	10	120	470.15	1.92	0.51	1.77	Open	0	470.15		23F01127	0	40.36	300.25	112.61		Average	111.5583333
20F01002-23F01127	20F01002	23F01127	49.62	14	120	2,022.79	4.22	0.25	5.11	Open	0	2022.79		23F02057	13.65	40.84	296.36	110.72		Minimum	109.41
23F02066-23F02109	23F02109	23F02066	301.28	12	120	-1,773.84	5.03	2.56	8.5	Open	0	1773.84		23F01134	0	41.9	299.32	111.54		Maximum	113.24
23F01134-45F01027	45F01027	23F01134	13	8	130	-495.68	3.16	0.06	4.98	Open	0	495.68		23F01137	3.17	45.58	298.08	109.41		**Velocity**	
23F01134-45F01028	45F01028	23F01134	15	12	120	-1,765.14	5.01	0.13	8.42	Open	0	1765.14		23F01128	2.6	40.72	300.13	112.4		Average	3.913529412
45F01028-23F02066	23F02066	45F01028	335.71	12	120	-1,765.14	5.01	2.83	8.42	Open	0	1765.14		23F02066	0	39.72	296.36	111.2		Minimum	0.04
23F01128-23F01134	23F01134	23F01128	60.98	12	120	-2,260.82	6.41	0.81	13.32	Open	0	2260.82		20F01002	0	39.17	300.5	113.24		Maximum	12.91
45F02021-23F02066	23F02066	45F02021	15	10	120	-8.71	0.04	0	0	Open	0	8.71		45F02021	0	39.45	296.36	111.32		**Flow**	
45F02016-23F02057	23F02057	45F02016	15	8	130	-492.51	3.14	0.07	4.92	Open	0	492.51		45F01027	0	41.99	299.25	111.47		Average	1199.027647
23F01137-45F02016	45F02016	23F01137	334	8	130	-492.51	3.14	1.64	4.92	Open	0	492.51		45F01028	0	41.98	299.19	111.45		Minimum	8.71
23F01042-23F01128	23F01128	23F01042	546.1	12	120	-240.63	0.68	0.11	0.21	Open	0	240.63		45F01026	0	40.36	300.21	112.59		Maximum	2260.82
23F01127-45F01026	23F01127	45F01026	8.78	14	120	2,022.79	4.22	0.04	5.12	Open	0	2022.79		45F02016	0	40.85	296.44	110.75			
45F01027-23F01137	23F01137	45F01027	235.12	8	130	-495.68	3.16	1.17	4.98	Open	0	495.68									
23F02057-45F02021	45F02021	23F02057	230.84	10	120	-8.71	0.04	0	0	Open	0	8.71									
45F01026-23F01128	45F01026	23F01128	15	14	120	2,022.79	4.22	0.08	5.11	Open	0	2022.79									
WELL3PIPE1	WELL3	WELL3PUMP	44	8	120	2,022.79	12.91	3.44	78.1	Open	0	2022.79									
WELL3PIPE2	WELL3PUMP	20F01002	51.16	14	120	2,022.79	4.22	0.26	5.11	Open	0	2022.79									

Well 5 Scenario 2

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02033-45F02013	45F02013	23F02033	15	8	120	-230.98	1.47	0.02	1.4	Open	0	230.98		23F02027	2.52	37.3	291.48	110.14		Average	96.83888889
45F02013-23F02130	23F02130	45F02013	448.5	8	120	-230.98	1.47	0.63	1.4	Open	0	230.98		23F01112	0	36	4.05	-13.84		Minimum	-13.84
45F02008-23F02027	23F02027	45F02008	15	16	120	-1,866.89	2.98	0.03	2.3	Open	0	1866.89		23F02033	0	37.27	291.86	110.31		Maximum	111.1
23F01112-45F02008	23F01112	5BOOSTER	33.21	8	120	1,866.89	11.92	2.24	67.32	Open	0	1866.89		23E02003	2.89	33.76	290.04	111.05		**Velocity**	
45F02010-45F02011	45F02011	45F02010	455.53	18	130	2,403.58	3.03	0.81	1.78	Open	0	2403.58		45E02002	2.23	33.71	290.12	111.1		Average	4.006666667
23F02027-23F02033	23F02033	23F02027	255.94	18	130	2,172.60	2.74	0.38	1.48	Open	0	2172.6		45F02013	0	36.91	291.84	110.46		Minimum	1.47
23F02033-45F02010	45F02010	23F02033	15	18	130	2,403.58	3.03	0.03	1.78	Open	0	2403.58		45F02010	0	36.82	291.89	110.52		Maximum	11.92
23E02003-45E02002	23E02003	45E02002	17.67	18	130	-4,034.74	5.09	0.08	4.66	Open	0	4034.74		45F02008	0	35.99	291.52	110.72		**Flow**	
45E02002-23F02027	23F02027	45E02002	291.04	18	130	4,036.97	5.09	1.36	4.66	Open	0	4036.97		WELL5_1	0	36	292.39	111.09		Average	2070.656667
WELL5_1-45F02008	WELL5_1	45F02008	381.43	16	120	1,866.89	2.98	0.88	2.3	Open	0	1866.89								Minimum	230.98
P308	WELL5	23F01112	101.19	12	120	1,866.89	5.3	0.95	9.34	Open	0	1866.89								Maximum	4036.97
5BOOSTER-WELL5_1	5BOOSTER	WELL5_1	32.65	16	120	1,866.89	2.98	0.08	2.3	Open	0	1866.89									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02306-45F02094	23F02306	45F02094	12.82	12	130	-1,876.27	5.32	0.1	8.13	Open	0	1876.27		23F03036	0	32.48	294.27	113.43		Average	111.0261538
45F02091-23F02306	23F02306	45F02091	15	12	130	1,038.93	2.95	0.04	2.72	Open	0	1038.93		23F03034	0	32.48	294.1	113.36		Minimum	108.55
23F02306-45F02092	45F02092	23F02306	15	12	130	-837.34	2.38	0.03	1.82	Open	0	837.34		23F03031	0	31.66	293.47	113.44		Maximum	113.78
23F03031-23F03034	23F03031	23F03034	66.3	12	120	-1,876.27	5.32	0.63	9.43	Open	0	1876.27		23F02304	1.74	32.44	287.09	110.34		**Velocity**	
23F02388-23F03031	23F02388	23F03031	257.13	12	130	-1,876.27	5.32	2.09	8.13	Open	0	1876.27		23F02306	0	35.99	287.42	108.94		Average	4.175
23F02303-23F02304	23F02304	23F02303	651.83	12	130	1,037.19	2.94	1.77	2.71	Open	0	1037.19		23F02388	0	33.57	291.38	111.71		Minimum	2.38
23F02307-45F02093	45F02093	23F02307	106.9	12	130	-837.34	2.38	0.2	1.82	Open	0	837.34		23F02387	0	33.83	291.25	111.54		Maximum	5.32
23F02304-45F02091	45F02091	23F02304	105.95	12	130	1,038.93	2.95	0.29	2.72	Open	0	1038.93		23F02303	0	29.18	285.32	110.99		**Flow**	
45F02087-23F02303	23F02303	45F02087	21	12	130	1,037.19	2.94	0.06	2.71	Open	0	1037.19		23F02307	0	33.65	286.09	109.38		Average	1471.918125
23F02387-23F02388	23F02387	23F02388	16.61	12	130	-1,876.27	5.32	0.14	8.13	Open	0	1876.27		20F03001	0	31.92	294.52	113.78		Minimum	837.34
45F02094-23F02387	45F02094	23F02387	458.27	12	130	-1,876.27	5.32	3.73	8.13	Open	0	1876.27		45F02092	0	36.11	287.39	108.88		Maximum	1876.27
45F02092-23F02307	23F02307	45F02092	712.34	12	130	-837.34	2.38	1.3	1.82	Open	0	837.34		45F02091	0	36.85	287.38	108.55			
23F03036-20F03001	23F03036	20F03001	26.47	12	120	-1,876.27	5.32	0.25	9.43	Open	0	1876.27		45F02094	0	35.96	287.52	109			
23F03034-23F03036	23F03034	23F03036	18.32	12	120	-1,876.27	5.32	0.17	9.43	Open	0	1876.27									
WELL7PIPE1	WELL7	WELL7PUMP	45.82	12	120	1,876.27	5.32	0.43	9.43	Open	0	1876.27									
WELL7PIPE2	WELL7PUMP	20F03001	55.36	12	120	1,876.27	5.32	0.52	9.43	Open	0	1876.27									

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	107.617619
23G02034-45G02016	23G02034	45G02016	15	12	130	887.96	2.52	0.03	2.03	Open	0	887.96		23G02030	0	37.28	285.03	107.35		Minimum	106.45
23G02012-45G02006	45G02006	23G02012	51.48	18	130	3,207.47	4.04	0.16	3.04	Open	0	3207.47		23G02049	0	38.04	283.71	106.45		Maximum	109.41
23G02011-23G02014	23G02011	23G02014	16.22	18	130	332.36	0.42	0	0.05	Open	0	332.36		23G02044	0	36.76	285.34	107.71		**Velocity**	
23G02009-45G02004	23G02009	45G02004	3.76	18	130	1,115.50	1.41	0	0.43	Open	0	1115.5		23G02027	1.31	38.68	285.36	106.88		Average	2.677692308
23G02004-23G02007	23G02007	23G02004	19.91	18	130	-1,115.50	1.41	0.01	0.43	Open	0	1115.5		23G02010	0	38.67	285.35	106.89		Minimum	0.42
45G02008-45G02009	45G02009	45G02008	54.93	12	120	-334.98	0.95	0.02	0.39	Open	0	334.98		23G02014	0	35.31	285.31	108.33		Maximum	11.23
45G02009-23G02027	23G02027	45G02009	81.69	12	120	-333.67	0.95	0.03	0.39	Open	0	333.67		23G02004	0	37.57	285.41	107.39		**Flow**	
23G02010-23G02027	23G02027	23G02010	19.12	12	120	332.36	0.94	0.01	0.38	Open	0	332.36		23G02007	0	37.43	285.4	107.45		Average	1370.79
45G02006-23G02014	23G02014	45G02006	17.57	18	130	3,207.47	4.04	0.05	3.05	Open	0	3207.47		23G02009	0	35.31	285.32	108.33		Minimum	332.36
23G02030-23G02034	23G02034	23G02030	415.38	18	130	-3,207.47	4.04	1.26	3.04	Open	0	3207.47		23G02012	0	37.71	285.1	107.19		Maximum	3207.47
45G02004-23G02014	45G02004	23G02014	7.35	18	130	1,115.50	1.41	0	0.43	Open	0	1115.5		23G02034	0	37.66	283.77	106.64			
23G02014-23G02044	23G02014	23G02044	27.88	18	130	-1,759.61	2.22	0.03	1	Open	0	1759.61		23G02011	0	36.34	285.31	107.88			
45G02016-23G02049	23G02049	45G02016	12.37	12	130	-887.96	2.52	0.03	2.03	Open	0	887.96		20G02001	0	34	286.49	109.41			
23G02049-23G02056	23G02056	23G02049	17.11	12	130	-887.96	2.52	0.03	2.03	Open	0	887.96		45G02016	0	38.04	283.74	106.46			
23G02019-45G02008	45G02008	23G02019	541	12	120	-338.13	0.96	0.21	0.39	Open	0	338.13		45G02008	3.15	35.52	285.41	108.28			
23G02012-23G02030	23G02012	23G02030	22.42	18	130	3,207.47	4.04	0.07	3.05	Open	0	3207.47		45G02009	1.31	36.39	285.39	107.89			
23G02044-45G02019	23G02044	45G02019	15	12	120	-1,759.61	4.99	0.13	8.37	Open	0	1759.61		45G02005	0	37.6	285.33	107.34			
45G02001-45G02002	45G02002	45G02001	452.8	18	135	-1,115.50	1.41	0.18	0.4	Open	0	1115.5		45G02006	0	34.85	285.26	108.5			
23G02034-23G02038	23G02038	23G02034	855.98	18	130	-2,319.51	2.92	1.43	1.67	Open	0	2319.51		45G02002	0	37.02	285.42	107.63			
45G02019-20G02001	45G02019	20G02001	123	12	120	-1,759.61	4.99	1.03	8.37	Open	0	1759.61		45G02019	0	37.05	285.47	107.64			
45G02002-23G02004	23G02004	45G02002	15	18	130	-1,115.50	1.41	0.01	0.43	Open	0	1115.5		45G02004	0	35.31	285.31	108.33			
23G02007-23G02009	23G02009	23G02007	195.77	18	130	-1,115.50	1.41	0.08	0.43	Open	0	1115.5									
23G02010-45G02005	23G02010	45G02005	59.69	12	120	332.36	0.94	0.02	0.38	Open	0	332.36									
45G02005-23G02011	45G02005	23G02011	32.95	12	120	332.36	0.94	0.01	0.38	Open	0	332.36									
WELL9PIPE1	WELL9	WELL9PUMP	30.68	8	120	1,759.61	11.23	1.85	60.33	Open	0	1759.61									
WELL9PIPE2	WELL9PUMP	20G02001	25.31	12	120	1,759.61	4.99	0.21	8.37	Open	0	1759.61									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
85135	12	WELL12_PUMP	41.64	16	120	3,885.49	6.2	0.37	8.94	Open	0	3885.49		J1724	0	42.6	323.97	121.92		Average	121.92
85135_2	WELL12_PUMP	J1724	85.57	16	120	3,885.49	6.2	0.77	8.94	Open	0	3885.49								Minimum	121.92
P965	J1724	J1378	2,112.83	16	120	3,885.49	6.2	18.89	8.94	Open	0	3885.49								Maximum	121.92
																				Velocity	
																				Average	6.2
																				Minimum	6.2
																				Maximum	6.2
																				Flow	
																				Average	3885.49
																				Minimum	3885.49
																				Maximum	3885.49

Pipe Report														**Junction Report**							**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)			Average	114.0394444
23F01017-23F01018	23F01017	23F01018	264.6	12	120	888.89	2.52	0.63	2.36	Open	0	888.89		23F01051	0	39.43	301.32	113.48			Minimum	107.81
23F01013-23F01014	23F01013	23F01014	6.83	12	120	888.89	2.52	0.02	2.36	Open	0	888.89		23F01055	0	39.42	300.97	113.33			Maximum	116.02
23F01014-23F01016	23F01014	23F01016	26.3	12	120	888.89	2.52	0.06	2.36	Open	0	888.89		23F01013	0	35.7	301.75	115.28			**Velocity**	
23F01009-23F01035	23F01035	23F01009	30.11	18	120	-5,958.07	7.51	0.33	11.12	Open	0	5958.07		23F01011	0	35.86	301.82	115.24			Average	3.723913043
23F01010-23F01011	23F01010	23F01011	8.24	12	120	888.89	2.52	0.02	2.36	Open	0	888.89		23F01012	0	35.7	301.77	115.29			Minimum	1.64
23F01009-23F01010	23F01009	23F01010	29.78	12	120	888.89	2.52	0.07	2.36	Open	0	888.89		23F01014	0	35.57	301.74	115.33			Maximum	7.51
45F01002-23F01009	23F01009	45F01002	129.98	12	120	659.72	1.87	0.18	1.36	Open	0	659.72		23F01018	0	37.72	300.67	113.94			**Flow**	
23F01016-23F01017	23F01016	23F01017	160.21	12	120	888.89	2.52	0.38	2.36	Open	0	888.89		23F01016	0	35.15	301.68	115.49			Average	2858.786087
45F02010-45F02011	45F02011	45F02010	455.53	18	130	2,403.58	3.03	0.81	1.78	Open	0	2403.58		23F01010	0	35.86	301.83	115.25			Minimum	658.35
23F01035-23F01051	23F01051	23F01035	25.92	18	130	-5,958.07	7.51	0.25	9.59	Open	0	5958.07		23F01035	0	38.63	301.57	113.93			Maximum	7506.68
23F01055-45F01014	45F01014	23F01055	161.45	18	130	-5,958.07	7.51	1.55	9.59	Open	0	5958.07		23F01009	0	35.89	301.91	115.26				
23F01051-23F01055	23F01055	23F01051	36.48	18	130	-5,958.07	7.51	0.35	9.59	Open	0	5958.07		23F01017	0	36.47	301.3	114.75				
23F01018-23F01020	23F01020	23F01018	34.93	12	120	-888.89	2.52	0.08	2.36	Open	0	888.89		23F02040	0.04	37.88	292.73	110.42				
23F01011-23F01012	23F01011	23F01012	20.89	12	130	888.89	2.52	0.04	2.04	Open	0	888.89		45F01002	1.37	33.97	301.73	116.02				
23F01012-23F01013	23F01012	23F01013	7.63	12	120	888.89	2.52	0.02	2.36	Open	0	888.89		45F01014	6.32	31.71	299.42	116				
45F01001-45F01002	45F01002	45F01001	578.24	12	120	658.35	1.87	0.78	1.36	Open	0	658.35		45F02014	2.48	43.86	292.68	107.81				
45F02014-45F02027	45F02027	45F02014	204.09	18	130	-3,545.65	4.47	0.75	3.67	Open	0	3545.65		45F02011	0	37.04	292.7	110.78				
45F02011-23F02040	23F02040	45F02011	15	18	130	2,403.58	3.03	0.03	1.78	Open	0	2403.58		J1378	0	39.42	305.08	115.11				
45F01014-23F02040	23F02040	45F01014	700.11	18	130	-5,951.75	7.5	6.7	9.57	Open	0	5951.75										
23F02040-45F02014	45F02014	23F02040	13.17	18	130	-3,548.12	4.47	0.05	3.67	Open	0	3548.12										
85136	WELL14_PUMP	J1378	92.98	30	120	3,621.18	1.64	0.03	0.37	Open	0	3621.18										
85137	J1378	23F01009	2,239.48	30	120	7,506.68	3.41	3.17	1.42	Open	0	7506.68										
85136_2	14	WELL14_PUMP	37.34	30	120	3,621.18	1.64	0.01	0.37	Open	0	3621.18										

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	75.50375
45G04009-23G04050	23G04050	45G04009	10	4	90	0	0	0	0	Open	0	0		23G04049	0	34.79	231.49	85.23		Minimum	2.17
23G04050-25G04007	25G04007	23G04050	708.56	3	70	0	0	0	0	Open	0	0		23G04042	2.58	30.18	231.49	87.23		Maximum	89.48
23G04035-45G04006	23G04035	45G04006	15	24	130	-5,747.42	4.08	0.03	2.21	Open	0	5747.42		23G04050	0	30.7	231.49	87		**Velocity**	
23G04030-28G04001	28G04001	23G04030	49.21	36	135	5,750.00	1.81	0.01	0.29	Open	0	5750		23G04033	0	34.77	231.49	85.24		Average	0.954545455
45G04006-23G04036	23G04036	45G04006	15	24	130	5,747.42	4.08	0.03	2.21	Open	0	5747.42		23G04036	0	33.94	231.31	85.52		Minimum	0
23G04042-45G04009	45G04009	23G04042	15	4	90	0	0	0	0	Open	0	0		23G04014	0	25	30	2.17		Maximum	4.08
45G04004-23G04034	23G04034	45G04004	20.68	6	110	-2.58	0.03	0	0	Open	0	2.58		23G04030	0	32.98	231.5	86.02		**Flow**	
23G04534-23G04036	23G04534	23G04036	352.92	36	135	5,747.42	1.81	0.1	0.29	Open	0	5747.42		23G04034	0	35.58	231.49	84.89		Average	2352.038182
23G04049-23G04534	23G04049	23G04534	275	36	135	5,747.42	1.81	0.08	0.29	Open	0	5747.42		23G04534	0	35.54	231.41	84.87		Minimum	0
23G04033-23G04049	23G04033	23G04049	15.24	36	135	5,747.42	1.81	0	0.29	Open	0	5747.42		28G04001	0	32.98	231.52	86.03		Maximum	5750
23G04034-23G04042	23G04042	23G04034	302.58	4	90	-2.58	0.07	0.01	0.02	Open	0	2.58		25G04007	0	33.42	231.49	85.82			
23G04033-45G04004	45G04004	23G04033	18.25	4	90	-2.58	0.07	0	0.02	Open	0	2.58		45G04009	0	30.35	231.49	87.15			
23G04030-23G04033	23G04033	23G04030	36.41	36	135	-5,750.00	1.81	0.01	0.29	Open	0	5750		45G04004	0	37.21	231.49	84.18			
28G04014-HILFT1	23G04014	HILIFT1	16.07	36	135	0	0	0	0	Open	0	0		45G04006	0	34.98	231.28	85.06			
HILIFT1-28G04001	HILIFT1	28G04001	20.84	36	135	0	0	0	0	Open	0	0		28G04015	0	25	30	2.17			
TANK_HILIFT-28G04014	TANK_HILIFT	23G04014	25.14	36	135	0	0	0	0	Open	0	0		28G04003	0	25	231.52	89.48			
28G04014-28G04015	23G04014	28G04015	17.81	36	135	0	0	0	0	Open	0	0									
28G04003-28G04001	28G04003	28G04001	17.48	36	135	0	0	0	0	Open	0	0									
28G04015-HILIFT2	28G04015	HILIFT2	16.66	36	135	0	0	0	0	Open	0	0									
HILIFT2-28G04003	HILIFT2	28G04003	18.96	36	135	0	0	0	0	Open	0	0									
P671	MWRF	V_MWRF	30.57	36	135	5,750.00	1.81	0.01	0.29	Open	0	5750									
P673	V_MWRF	28G04001	23.31	36	135	5,750.00	1.81	0.01	0.29	Open	0	5750									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)			
45E14033-23E14174	45E14033	23E14174	13	6	110	12.95	0.15	0	0.03	Open	0	12.95		23E14174	1.76	110.02	212.75	44.51		**Pressure**	
23E14271-23E14273	23E14271	23E14273	252.51	8	120	-44.21	0.28	0.02	0.07	Open	0	44.21		23E14220	0	107.02	212.79	45.83		Average	47.11021583
23E14251-23E14259	23E14259	23E14251	15.41	8	120	-48.05	0.31	0	0.08	Open	0	48.05		23E14251	0	103.08	212.86	47.57		Minimum	42.26
23E14259-23E14260	23E14259	23E14260	217.45	8	120	22.02	0.14	0	0.02	Open	0	22.02		23E14259	0	103.86	212.86	47.23		Maximum	51.28
45E14069-23E15038	45E14069	J462	11.13	6	110	26.02	0.3	0	0.12	Open	0	26.02		23E14246	0	103.34	212.92	47.48		**Velocity**	
45E14033-45E14034	45E14034	45E14033	1,297.00	6	110	27.52	0.31	0.17	0.13	Open	0	27.52		23E14217	0	111.15	212.79	44.04		Average	0.252420382
23E14220-45E14042	23E14220	45E14042	17	6	110	0	0	0	0	Open	0	0		23E15115	4.99	101.06	212.81	48.42		Minimum	0
23E14174-23E14220	23E14220	23E14174	245.66	8	120	67.4	0.43	0.04	0.14	Open	0	67.4		23E15069	0	106.59	212.81	46.03		Maximum	1.14
23E14220-45E14049	45E14049	23E14220	499.76	8	120	67.4	0.43	0.07	0.14	Open	0	67.4		23E15061	0	111.12	212.81	44.06		**Flow**	
23E14251-45E14053	23E14251	45E14053	17.98	8	120	-115.44	0.74	0.01	0.39	Open	0	115.44		23E15047	8.27	107.2	212.82	45.76		Average	67.22388535
45E14049-23E14251	23E14251	45E14049	14.99	8	120	67.4	0.43	0	0.14	Open	0	67.4		23E15072	0	98.39	212.83	49.59		Minimum	0
23E14259-45E14069	45E14069	23E14259	66.37	6	110	-26.02	0.3	0.01	0.12	Open	0	26.02		23E15041	0	108.92	212.82	45.02		Maximum	717.34
23E14224-45E14052	23E14224	45E14052	565.45	8	120	87.14	0.56	0.13	0.23	Open	0	87.14		23E15110	2.4	100.12	212.81	48.83			
23E14418-45E15003	45E15003	23E14418	229.74	6	120	-19.29	0.22	0.01	0.06	Open	0	19.29		23E15088	0	104.49	212.81	46.93			
45E14070-23E14327	23E14327	45E14070	190.65	6	110	24.92	0.28	0.02	0.11	Open	0	24.92		23E15099	0.72	99.85	212.81	48.95			
23E14154-45E14050	45E14050	23E14154	1,160.56	16	135	516.24	0.82	0.2	0.17	Open	0	516.24		23E15083	5.19	110.33	212.81	44.41			
23E14210-23E14226	23E14226	23E14210	197.67	8	120	-12.39	0.08	0	0.01	Open	0	12.39		23E15080	0	107.98	212.81	45.42			
45E14065-23E14449	45E14065	23E14449	311.03	6	120	13.63	0.15	0.01	0.03	Open	0	13.63		23E15113	0	107.61	212.81	45.58			
23E15099-23E15110	23E15110	23E15099	104.02	6	110	-10.24	0.12	0	0.02	Open	0	10.24		23E15046	0	105.31	212.82	46.58			
23E14226-23E14245	23E14245	23E14226	210.57	8	120	15.33	0.1	0	0.01	Open	0	15.33		23E14202	0	102.94	212.93	47.66			
45E14028-23E14174	23E14174	45E14028	453.91	8	120	78.59	0.5	0.09	0.19	Open	0	78.59		23E14210	12.71	103.44	212.92	47.44			
45E14062-23E14445	45E14062	23E14445	311.87	6	120	-5.34	0.06	0	0.01	Open	0	5.34		23E14245	0.83	102.57	212.92	47.82			
70388	23E14202	J476	5.53	8	120	-96.17	0.61	0	0.28	Open	0	96.17		23E14328	0.96	98.79	212.94	49.46			
23E14328-23E14450	23E14450	23E14328	247.45	8	120	96.81	0.62	0.07	0.28	Open	0	96.81		23E14274	0	102.68	212.9	47.76			
45E14071-23E14328	23E14328	45E14071	15	8	120	26.1	0.17	0	0.03	Open	0	26.1		23E14273	10.9	101.74	212.89	48.16			
23E14327-45E14071	45E14071	23E14327	15	8	120	26.1	0.17	0	0.02	Open	0	26.1		23E14254	0	101.35	213.31	48.51			
23E15084-23E15088	23E15088	23E15084	87.2	6	110	-8.12	0.09	0	0.01	Open	0	8.12		23E14416	0	101.79	212.83	48.12			
23E15041-45E15005	23E15041	45E15005	15	6	110	-1.84	0.02	0	0	Open	0	1.84		23E14418	0.77	102.1	212.83	47.98			
23E14209-45E14040	45E14040	23E14209	330.61	6	110	0	0	0	0	Open	0	0		23E14360	0	99.77	212.84	48.99			
23E15076-45E15018	23E15076	45E15018	15	6	110	12.21	0.14	0	0.03	Open	0	12.21		23E14359	0	99.51	212.84	49.1			
45E15021-23E15099	23E15099	45E15021	15	6	110	4.29	0.05	0	0	Open	0	4.29		23E14260	0	104.1	212.86	47.12			
23E15115-45E15025	45E15025	23E15115	10	6	110	0	0	0	0	Open	0	0		23E14399	0	105.63	212.86	46.46			
23E14264-45E14060	23E14264	45E14060	10	6	120	27.12	0.31	0	0.11	Open	0	27.12		23E15062	0.85	110.92	212.81	44.15			
45E14060-23E14359	45E14060	23E14359	133.72	6	120	27.12	0.31	0.01	0.11	Open	0	27.12		23E15060	0	107.08	212.81	45.81			
23E14406-45E14076	45E14076	23E14406	100.62	6	120	-6.37	0.07	0	0.01	Open	0	6.37		23E15076	0	109.08	212.81	44.95			
45E14076-23E14416	23E14416	45E14076	15	6	120	-5.51	0.06	0	0.01	Open	0	5.51		23E14327	1.19	102.79	212.94	47.73			
23E14416-45E14077	45E14077	23E14416	15	6	120	-15.38	0.17	0	0.04	Open	0	15.38		23E15112	0	107.61	212.81	45.58			
45E15001-23E15071	23E15071	45E15001	405.96	6	110	-51.58	0.59	0.17	0.42	Open	0	51.58		23E15053	0	98.9	212.82	49.36			
23E14273-45E14065	23E14273	45E14065	10	6	120	14.66	0.17	0	0.03	Open	0	14.66		23E15004	0.9	111.08	212.82	44.08			
45E15015-23E15072	45E15015	23E15072	10	6	120	-16.72	0.19	0	0.04	Open	0	16.72		23E15075	0	110.31	212.81	44.41			
45E15023-23E15110	45E15023	23E15110	15	6	110	0.57	0.01	0	0	Open	0	0.57		23E15084	1.16	109.04	212.81	44.96			
23E15088-45E15020	23E15088	45E15020	15	6	110	1.68	0.02	0	0	Open	0	1.68		23E15078	0	107.98	212.81	45.42			
45E15020-45E15023	45E15020	45E15023	225.78	6	110	1.12	0.01	0	0	Open	0	1.12		23E15090	0	103.97	212.81	47.16			
23E15061-45E15011	45E15011	23E15061	10	6	110	-2.96	0.03	0	0	Open	0	2.96		23E15089	2.76	111	212.81	44.11			
45E15011-23E15062	23E15062	45E15011	15	6	110	-2.96	0.03	0	0	Open	0	2.96		23E14209	0	115.4	212.92	42.26			
23E14289-23E14292	23E14289	23E14292	1,248.83	16	135	-645.06	1.03	0.32	0.26	Open	0	645.06		23E14228	0	110.24	212.92	44.49			
23E14255-23E14257	23E14257	23E14255	311.04	16	135	646.8	1.03	0.08	0.26	Open	0	646.8		23E14305	0.93	102.67	212.9	47.76			
23E14445-45E14079	23E14445	45E14079	15	6	120	-6.32	0.07	0	0.01	Open	0	6.32		23E14292	1.73	103.94	213.21	47.35			
45E14079-23E14449	45E14079	23E14449	237.36	6	120	-11.3	0.13	0.01	0.02	Open	0	11.3		23E14255	0	106.88	213.23	46.08			
23E14352-23E14378	23E14378	23E14352	33.09	6	120	-7.19	0.08	0	0.01	Open	0	7.19		23E14449	2.32	99.67	212.88	49.05			
23E14352-45E14072	23E14352	45E14072	76.52	6	120	-7.94	0.09	0	0.01	Open	0	7.94		23E14445	0.98	100.4	212.88	48.74			
45E14040-23E14210	23E14210	45E14040	15	6	110	8.45	0.1	0	0.01	Open	0	8.45		23E14289	0	107.11	212.89	45.83			
23E14264-45E14058	23E14264	45E14058	271.05	8	120	-48.59	0.31	0.02	0.08	Open	0	48.59		23E14257	0	101.08	213.31	48.63			
23E14274-23E14275	23E14274	23E14275	9.71	8	120	-49.09	0.31	0	0.08	Open	0	49.09		23E14405	0	101.43	212.83	48.27			
45E15004-23E15041	45E15004	23E15041	15	6	110	0.04	0	0	0	Open	0	0.04		23E14378	0	101.98	212.84	48.03			
45E15002-23E15041	23E15041	45E15002	15	6	110	1.89	0.02	0	0	Open	0	1.89		23E14401	0.15	103.32	212.83	47.45			
23E15004-45E15002	45E15002	23E15004	129.7	6	110	0.9	0.01	0	0	Open	0	0.9		23E14406	0.67	103.98	212.83	47.17			
23E15088-23E15090	23E15090	23E15088	14.95	6	110	-6.44	0.07	0	0.01	Open	0	6.44		23E14402	0	102.62	212.83	47.76			
45E15012-23E15069	23E15069	45E15012	10	8	120	1.92	0.01	0	0	Open	0	1.92		23E14427	0.93	102.36	212.83	47.87			
45E14077-23E14418	23E14418	45E14077	12.84	6	120	-15.38	0.17	0	0.04	Open	0	15.38		23E14369	1.08	100.16	212.83	48.82			
45E14078-23E14427	23E14427	45E14078	84.6	6	120	5.82	0.07	0	0.01	Open	0	5.82		23E14352	0.75	100.74	212.84	48.57			
23E14418-45E14078	45E14078	23E14418	15	6	120	4.68	0.05	0	0	Open	0	4.68		23E14450	2.58	99.08	213.01	49.36			
23E14275-23E14284	23E14275	23E14284	28.26	8	120	-49.09	0.31	0	0.08	Open	0	49.09		23E15073	11.18	98.39	212.83	49.59			

45E14074-23E14369	45E14074	23E14369	136.11	6	120	7.83	0.09	0	0.01	Open	0	7.83		23E15071	8.42	98.43	212.83	49.57			
45E14055-23E14257	45E14055	23E14257	6.74	16	135	646.8	1.03	0	0.26	Open	0	646.8		23E15038	2.61	107.39	212.82	45.68			
23E14231-45E14051	23E14231	45E14051	495.53	16	135	717.34	1.14	0.16	0.31	Open	0	717.34		23E15119	0	94.45	212.81	51.28			
23E14260-45E14059	23E14260	45E14059	10	6	110	0.75	0.01	0	0	Open	0	0.75		23E14284	0	103.1	212.9	47.58			
45E14059-23E14399	45E14059	23E14399	237.39	6	110	0	0	0	0	Open	0	0		23E14275	0	103.33	212.9	47.48			
23E14450-45E15001	45E15001	23E14450	10	6	110	-56.64	0.64	0	0.5	Open	0	56.64		23E14258	0	100.98	213.31	48.67			
23E15110-23E15115	23E15115	23E15110	179.53	6	110	-8.41	0.1	0	0.01	Open	0	8.41		23E14288	0	100.72	213.29	48.77			
23E15113-23E15119	23E15119	23E15113	311.42	6	110	-4.35	0.05	0	0	Open	0	4.35		23E15039	0	109.84	212.82	44.62			
23E15115-45E15026	45E15026	23E15115	176.99	6	110	-3.43	0.04	0	0	Open	0	3.43		23E14287	0	103.77	212.93	47.3			
45E15014-23E15113	23E15113	45E15014	496.07	6	110	-6.69	0.08	0	0.01	Open	0	6.69		23E14264	42.75	100.64	212.85	48.62			
23E14360-45E14074	23E14360	45E14074	10	6	120	8.74	0.1	0	0.01	Open	0	8.74		23E14226	12.81	106.83	212.92	45.97			
23E14402-23E14427	23E14427	23E14402	25.84	6	120	-6.75	0.08	0	0.01	Open	0	6.75		23E14286	0	108.83	212.92	45.1			
23E14253-45E14055	23E14253	45E14055	8.91	16	135	646.8	1.03	0	0.26	Open	0	646.8		23E14271	0	102.05	212.87	48.02			
45E14054-23E14254	23E14254	45E14054	4.81	8	120	-68.89	0.44	0	0.15	Open	0	68.89		23E14252	0	104.39	212.87	47.01			
23E14253-45E14054	45E14054	23E14253	5.08	8	120	-68.89	0.44	0	0.15	Open	0	68.89		23E14253	0	101.35	213.31	48.51			
23E15069-23E15075	23E15069	23E15075	138.13	8	120	12.21	0.08	0	0.01	Open	0	12.21		45E14049	0	102.63	212.86	47.76			
23E15075-23E15076	23E15075	23E15076	13.18	8	120	12.21	0.08	0	0.01	Open	0	12.21		45E14069	0	107.73	212.85	45.55			
45E15017-23E15080	23E15080	45E15017	10	6	110	0	0	0	0	Open	0	0		45E14070	3.31	101.98	212.92	48.07			
23E15083-45E15021	45E15021	23E15083	238.83	6	110	2.27	0.03	0	0	Open	0	2.27		45E14062	0.96	101.71	212.87	48.17			
23E15047-45E15009	23E15047	45E15009	10	6	110	14.12	0.16	0	0.04	Open	0	14.12		45E15007	0	105.44	212.82	46.53			
45E15009-23E15060	45E15009	23E15060	56.62	6	110	14.12	0.16	0	0.04	Open	0	14.12		45E15003	5.01	104.99	212.82	46.72			
23E15071-23E15072	23E15071	23E15072	11.34	6	110	43.16	0.49	0	0.3	Open	0	43.16		45E15002	0.98	107.18	212.82	45.77			
23E15072-23E15073	23E15072	23E15073	7.13	6	110	26.44	0.3	0	0.12	Open	0	26.44		45E14058	0	102.05	212.87	48.02			
45E15007-23E15047	45E15007	23E15047	122.55	6	110	9.93	0.11	0	0.02	Open	0	9.93		45E14079	4.99	100.16	212.88	48.84			
45E15005-45E15006	45E15005	45E15006	271.42	6	110	-2.7	0.03	0	0	Open	0	2.7		45E15021	2.01	100.56	212.81	48.64			
23E14287-23E14328	23E14328	23E14287	68.01	8	120	69.74	0.45	0.01	0.15	Open	0	69.74		45E15001	5.06	99.08	213	49.36			
23E14273-23E14274	23E14273	23E14274	38.87	8	120	-69.77	0.45	0.01	0.15	Open	0	69.77		45E14045	14.9	106.81	212.92	45.98			
45E14067-23E14287	45E14067	23E14287	15	8	120	-49.09	0.31	0	0.08	Open	0	49.09		45E14040	8.45	103.69	212.92	47.33			
45E14058-23E14271	45E14058	23E14271	15.02	8	120	-48.59	0.31	0	0.08	Open	0	48.59		45E14077	0	101.79	212.83	48.11			
23E15047-45E15008	23E15047	45E15008	138.28	6	110	-12.46	0.14	0	0.03	Open	0	12.46		45E14076	0.85	101.85	212.83	48.09			
23E14305-45E14070	45E14070	23E14305	136.98	6	110	21.61	0.25	0.01	0.08	Open	0	21.61		45E14033	14.57	109.6	212.75	44.7			
45E14072-23E14359	45E14072	23E14359	15	6	120	-8.51	0.1	0	0.01	Open	0	8.51		45E14065	1.03	101.41	212.89	48.3			
23E14202-23E14210	23E14210	23E14202	160.02	8	120	-33.54	0.21	0.01	0.04	Open	0	33.54		45E15019	0	109.04	212.81	44.96			
45E14061-23E14287	23E14287	45E14061	15	8	120	20.65	0.13	0	0.02	Open	0	20.65		45E15015	3.95	98.39	212.83	49.59			
23E14284-23E14286	23E14284	23E14286	289.48	8	120	-49.09	0.31	0.02	0.08	Open	0	49.09		45E14060	0	100.3	212.85	48.77			
45E14056-23E14289	23E14289	45E14056	36.37	16	135	645.06	1.03	0.01	0.26	Open	0	645.06		45E14072	0.57	99.49	212.84	49.11			
23E14252-45E14056	45E14056	23E14252	15	16	135	645.06	1.03	0	0.26	Open	0	645.06		45E14054	0	101.35	213.31	48.51			
23E14271-45E14062	23E14271	45E14062	9.16	6	120	-4.38	0.05	0	0	Open	0	4.38		45E14055	0	102.36	213.31	48.08			
45E15026-23E15119	23E15119	45E15026	54	6	110	4.35	0.05	0	0	Open	0	4.35		45E14051	1.65	102.76	213.32	47.9			
23E14252-45E14053	45E14053	23E14252	17	8	120	-115.44	0.74	0.01	0.39	Open	0	115.44		45E14034	35.1	102.99	212.92	47.63			
23E14260-23E14264	23E14260	23E14264	171.15	8	120	21.27	0.14	0	0.02	Open	0	21.27		45E15014	7.59	111.07	212.81	44.08			
23E14255-23E14292	23E14292	23E14255	74.89	16	135	-646.8	1.03	0.02	0.26	Open	0	646.8		45E15024	6.02	108.06	212.81	45.39			
23E14245-23E14246	23E14246	23E14245	25.38	6	110	0	0	0	0	Open	0	0		45E15017	0	107.98	212.81	45.42			
23E15080-45E15019	45E15019	23E15080	5.58	6	110	-9.29	0.11	0	0.02	Open	0	9.29		45E14053	0	103.34	212.87	47.46			
23E14258-23E14288	23E14288	23E14258	32.1	8	120	-156.03	1	0.02	0.68	Open	0	156.03		45E15012	4.03	106.56	212.81	46.04			
23E14245-45E14061	45E14061	23E14245	211.77	8	120	16.16	0.1	0	0.01	Open	0	16.16		45E14074	0.9	99.97	212.84	48.9			
23E15060-23E15069	23E15060	23E15069	15	8	120	14.12	0.09	0	0.01	Open	0	14.12		45E14073	0	99.77	212.84	48.99			
23E15039-23E15061	23E15061	23E15039	94.98	6	110	-17.25	0.2	0.01	0.05	Open	0	17.25		45E14078	1.14	102.09	212.83	47.98			
23E15038-23E15039	23E15039	23E15038	41.66	6	110	-17.29	0.2	0	0.05	Open	0	17.29		45E14071	0	100.66	212.94	48.65			
23E14401-23E14406	23E14406	23E14401	21.43	6	120	-7.04	0.08	0	0.01	Open	0	7.04		45E14061	4.49	105.88	212.93	46.38			
23E15073-23E15099	23E15099	23E15073	374.92	6	110	-15.25	0.17	0.02	0.04	Open	0	15.25		45E15018	0	110.37	212.81	44.39			
23E15062-45E15012	45E15012	23E15062	521.51	8	120	-2.11	0.01	0	0	Open	0	2.11		45E15020	0.57	105.34	212.81	46.57			
45E15008-23E15053	45E15008	23E15053	136.4	6	120	-12.77	0.14	0	0.03	Open	0	12.77		45E15023	0.54	101.07	212.81	48.42			
45E14034-23E14202	23E14202	45E14034	15	6	110	62.62	0.71	0.01	0.6	Open	0	62.62		45E15025	0	101.05	212.81	48.42			
45E14050-23E14252	23E14252	45E14050	15	16	135	529.62	0.85	0	0.18	Open	0	529.62		45E15004	0	110.52	212.82	44.33			
23E15053-45E15015	23E15053	45E15015	184.68	6	120	-12.77	0.14	0	0.03	Open	0	12.77		45E15005	0.85	107.17	212.82	45.78			
23E14286-45E14067	23E14286	45E14067	23.19	8	120	-49.09	0.31	0	0.08	Open	0	49.09		45E14059	0.75	103.17	212.86	47.53			
23E14360-23E14405	23E14360	23E14405	133.86	6	120	9.87	0.11	0	0.02	Open	0	9.87		45E14056	0	103.8	212.88	47.26			
45E15024-23E15112	23E15112	45E15024	11.3	6	110	2.34	0.03	0	0	Open	0	2.34		45E14050	13.38	105.07	212.87	46.71			
23E15089-45E15024	45E15024	23E15089	207.42	6	110	-3.68	0.04	0	0	Open	0	3.68		45E14042	0	105.95	212.79	46.29			
23E15078-45E15017	45E15017	23E15078	7.59	6	110	0	0	0	0	Open	0	0		45E15006	1.65	105.55	212.82	46.48			
45E15018-23E15083	45E15018	23E15083	15	6	110	12.21	0.14	0	0.03	Open	0	12.21		45E15009	0	108	212.82	45.42			
23E14359-45E14073	23E14359	45E14073	6.02	6	120	18.61	0.21	0	0.05	Open	0	18.61		45E15011	0	110.92	212.81	44.15			
45E14073-23E14360	45E14073	23E14360	10	6	120	18.61	0.21	0	0.05	Open	0	18.61		45E14066	0	102.28	212.9	47.93			
45E15006-23E15046	45E15006	23E15046	63.73	6	120	-4.35	0.05	0	0	Open	0	4.35		45E15026	7.77	97.63	212.81	49.91			

23E15046-45E15007	23E15046	45E15007	62.31	6	120	9.93	0.11	0	0.02	Open	0	9.93		45E14067	0	103.76	212.93	47.3			
23E15061-45E15014	45E15014	23E15061	15	6	110	-14.29	0.16	0	0.04	Open	0	14.29		45E15008	0.31	101.14	212.82	48.39			
45E14052-23E14254	45E14052	23E14254	15	8	120	87.14	0.56	0	0.23	Open	0	87.14		45E14052	0	101.05	213.32	48.64			
23E14254-23E14258	23E14254	23E14258	7.79	8	120	156.03	1	0.01	0.68	Open	0	156.03		J462	6.12	107.4	212.85	45.69			
23E14288-23E14450	23E14288	23E14450	411.65	8	120	156.03	1	0.28	0.68	Open	0	156.03		J464	0	107.4	212.85	45.69			
23E15080-23E15083	23E15083	23E15080	14.66	6	110	9.29	0.11	0	0.02	Open	0	9.29		J466	0	107.4	212.85	45.69			
45E15019-23E15084	23E15084	45E15019	10	6	110	-9.29	0.11	0	0.02	Open	0	9.29		J476	0	104.95	212.93	46.79			
23E15039-45E15004	23E15039	45E15004	52.32	6	110	0.04	0	0	0	Open	0	0.04		J480	0	104.05	212.94	47.18			
23E14217-45E14042	45E14042	23E14217	334.46	6	110	0	0	0	0	Open	0	0		J482	0	104.11	212.94	47.15			
45E15003-23E15046	23E15046	45E15003	15	6	120	-14.28	0.16	0	0.03	Open	0	14.28		J520	1.68	104.23	212.94	47.1			
23E15112-23E15113	23E15112	23E15113	4.09	6	110	-2.34	0.03	0	0	Open	0	2.34		J522	3.15	103.24	212.93	47.53			
23E14405-23E14416	23E14405	23E14416	6.38	6	120	9.87	0.11	0	0.02	Open	0	9.87									
23E14378-23E14401	23E14401	23E14378	89.74	6	120	-7.19	0.08	0	0.01	Open	0	7.19									
23E14369-23E14402	23E14402	23E14369	118.43	6	120	-6.75	0.08	0	0.01	Open	0	6.75									
45E14066-23E14305	45E14066	23E14305	78	6	110	-20.68	0.23	0.01	0.08	Open	0	20.68									
23E14274-45E14066	23E14274	45E14066	10	6	110	-20.68	0.23	0	0.08	Open	0	20.68									
23E15089-23E15090	23E15089	23E15090	97.21	6	110	-6.44	0.07	0	0.01	Open	0	6.44									
23E14226-45E14045	23E14226	45E14045	15	6	120	14.9	0.17	0	0.04	Open	0	14.9									
45E14045-23E14228	45E14045	23E14228	154.39	6	120	0	0	0	0	Open	0	0									
45E14051-23E14253	45E14051	23E14253	10	16	135	715.68	1.14	0	0.31	Open	0	715.68									
P759	J462	23E15038	413.97	6	110	19.9	0.23	0.03	0.07	Open	0	19.9									
P761	J462	J464	25	6	110	0	0	0	0	Open	0	0									
P763	J464	J466	6.62	4	110	0	0	0	0	Open	0	0									
66368	J480	J482	16.28	6	120	13.59	0.15	0	0.03	Open	0	13.59									
70390	J514	J480	10.48	6	120	13.59	0.15	0	0.03	Open	0	13.59									
70397	J482	J520	7.74	6	120	13.59	0.15	0	0.03	Open	0	13.59									
70399	J520	J522	212.7	6	120	11.91	0.14	0.01	0.02	Open	0	11.91									
70403	J522	J516	253.44	6	120	8.76	0.1	0	0.01	Open	0	8.76									
66769	J478	J476	7.29	8	120	96.17	0.61	0	0.28	Open	0	96.17									

Pipe Report														Junction Report								
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
45E07034-23E07350	45E07034	23E07350	15	8	120	5.66	0.04	0	0	Open	0	5.66		23E07334	1.39	74.06	217.94	62.34		Average	63.82027778
45E07020-23E07163	23E07163	45E07020	15	12	120	-75.06	0.21	0	0.02	Open	0	75.06		23E07380	0.88	70.81	217.95	63.76		Minimum	58.94
23E07368-23E07376	23E07368	23E07376	257.27	8	120	-17.95	0.11	0	0.01	Open	0	17.95		23E07067	2.82	71.73	218.02	63.39		Maximum	68.67
23E07418-45E07051	23E07418	45E07051	76.5	6	110	15.12	0.17	0	0.04	Open	0	15.12		23E07163	3.25	70.17	218.01	64.06		**Velocity**	
45E07051-23E07424	45E07051	23E07424	54.31	6	110	-2.55	0.03	0	0	Open	0	2.55		23E07142	0.67	60.46	217.95	68.24		Average	0.14654321
23E06441-45E06052	45E06052	23E06441	15	12	120	-149.29	0.42	0	0.09	Open	0	149.29		23E07384	0.77	71.4	217.97	63.51		Minimum	0
45E07006-23E07044	23E07044	45E07006	319.13	8	120	46.38	0.3	0.02	0.07	Open	0	46.38		23E07044	4.24	71.28	217.99	63.57		Maximum	0.62
23E07029-45E07006	45E07006	23E07029	10	8	120	44.31	0.28	0	0.07	Open	0	44.31		23E07029	2.66	75.11	217.97	61.9		**Flow**	
45E07014-45E07016	45E07014	45E07016	552.89	6	110	3.65	0.04	0	0	Open	0	3.65		23E07057	0	65.27	218.02	66.19		Average	29.28716049
45E07016-23E07147	45E07016	23E07147	45.55	6	110	-1.16	0.01	0	0	Open	0	1.16		23E07390	0	81.05	218	59.34		Minimum	0
23E07207-45E07023	23E07207	45E07023	15	8	120	-5.22	0.03	0	0	Open	0	5.22		23E07056	1.42	66.94	218.02	65.46		Maximum	149.29
23E07029-23E07116	23E07029	23E07116	260.82	8	120	38.73	0.25	0.01	0.05	Open	0	38.73		23E07389	0.75	79.81	218	59.88			
23E07044-23E07056	23E07056	23E07044	317	8	120	54.46	0.35	0.03	0.1	Open	0	54.46		23E07277	3.95	70.86	217.94	63.73			
23E07056-23E07057	23E07057	23E07056	15	12	120	55.88	0.16	0	0.01	Open	0	55.88		23E07289	1.6	76.09	217.94	61.47			
23E07389-23E07390	23E07389	23E07390	13	12	120	-62.4	0.18	0	0.02	Open	0	62.4		23E07116	1.96	68.51	217.96	64.75			
23E07417-23E07418	23E07417	23E07418	150.5	6	110	15.12	0.17	0.01	0.04	Open	0	15.12		23E07409	0	70.91	217.99	63.73			
45E07027-23E07350	23E07350	45E07027	15	8	120	9.6	0.06	0	0	Open	0	9.6		23E07411	0	71.52	218	63.47			
23E07207-45E07027	45E07027	23E07207	653.76	8	120	4.95	0.03	0	0	Open	0	4.95		23E07410	0	71.38	217.99	63.53			
23E07350-45E07035	23E07350	45E07035	15.01	8	120	-3.95	0.03	0	0	Open	0	3.95		23E07327	4.88	65.76	217.94	65.94			
45E07035-23E07368	45E07035	23E07368	584.17	8	120	-8.57	0.05	0	0	Open	0	8.57		23E07350	0	76.06	217.94	61.48			
45E07024-23E07277	23E07277	45E07024	174.63	6	110	-4.8	0.05	0	0.01	Open	0	4.8		23E07376	2.48	73.23	217.95	62.71			
23E07207-45E07024	45E07024	23E07207	15	6	110	-4.8	0.05	0	0.01	Open	0	4.8		23E07207	5.37	66.96	217.94	65.42			
45E07023-45E07030	45E07023	45E07030	780.46	8	120	-13.31	0.08	0.01	0.01	Open	0	13.31		23E07368	6.3	68.46	217.94	64.77			
45E07030-23E07376	45E07030	23E07376	15	8	120	-21.88	0.14	0	0.02	Open	0	21.88		23E07399	1.58	72.38	217.94	63.07			
23E07289-45E07028	23E07289	45E07028	152.62	6	110	-3.07	0.03	0	0	Open	0	3.07		23E07121	21.98	71.45	218.11	63.55			
45E07028-23E07368	45E07028	23E07368	15	6	110	-3.07	0.03	0	0	Open	0	3.07		23E07086	3.07	66.6	218.01	65.61			
23E07376-45E07036	23E07376	45E07036	15	8	120	-42.31	0.27	0	0.06	Open	0	42.31		23E07147	7	70.17	217.95	64.03			
45E07036-23E07380	45E07036	23E07380	91.88	8	120	-42.64	0.27	0.01	0.06	Open	0	42.64		23E07146	1.01	61.09	217.95	67.97			
23E07380-45E07037	23E07380	45E07037	11.1	8	120	-43.52	0.28	0	0.06	Open	0	43.52		23E07424	5.89	78.74	217.98	60.33			
23E07163-45E07032	45E07032	23E07163	631.71	12	120	-61.01	0.17	0.01	0.02	Open	0	61.01		23E07418	0	77.36	217.98	60.93			
45E07038-23E07389	45E07038	23E07389	232	8	120	-61.65	0.39	0.03	0.12	Open	0	61.65		23E07148	6.12	64.94	218	66.32			
23E07147-45E07031	23E07147	45E07031	843.71	6	110	-8.16	0.09	0.01	0.01	Open	0	8.16		23E06459	2.17	66.53	217.99	65.63			
45E07031-23E07384	45E07031	23E07384	15	6	110	-15.75	0.18	0	0.05	Open	0	15.75		23E06458	1.42	69.8	217.97	64.2			
45E07014-23E07116	23E07116	45E07014	14.05	6	110	7.26	0.08	0	0.01	Open	0	7.26		23E07417	0	72.05	217.99	63.24			
45E06059-45E07012	45E06059	45E07012	462.93	8	120	97.61	0.62	0.13	0.28	Open	0	97.61		23E07401	0	71.52	218	63.47			
23E06459-45E07005	23E06459	45E07005	200.53	6	110	-2.94	0.03	0	0	Open	0	2.94		46E07030	1.47	76.98	217.94	61.08			
23E07101-23E07142	23E07101	23E07142	229.39	8	120	-8.69	0.06	0	0	Open	0	8.69		46E07029	0.85	70.86	217.94	63.73			
23E07401-23F07297	23E07401	23F07297	246.61	12	120	-19.63	0.06	0	0	Open	0	19.63		45E07012	4.03	70.77	218.12	63.84			
23E07334-45E07034	23E07334	45E07034	130.85	8	120	6.07	0.04	0	0	Open	0	6.07		45E07015	0.93	68.11	217.96	64.93			
45E07026-23E07334	45E07026	23E07334	89.77	8	120	7.47	0.05	0	0	Open	0	7.47		45E07014	3.62	68.93	217.96	64.57			
45E07012-23E07121	23E07121	45E07012	15	8	120	-93.58	0.6	0	0.26	Open	0	93.58		45E07006	2.07	76.52	217.97	61.29			
23E07121-23F07103	23F07103	23E07121	364.93	8	120	-71.6	0.46	0.06	0.16	Open	0	71.6		45E07034	0.41	75.07	217.94	61.91			
45E07010-23E07086	23E07086	45E07010	15	6	110	6.51	0.07	0	0.01	Open	0	6.51		45E07023	8.08	66.33	217.94	65.69			
45E07018-23E07146	45E07018	23E07146	92.73	8	120	-27.57	0.18	0	0.03	Open	0	27.57		45E07024	0	67	217.94	65.4			
23E07142-45E07019	45E07019	23E07142	54.42	8	120	-18.21	0.12	0	0.01	Open	0	18.21		45E07028	0	68.42	217.94	64.79			
23E07327-45E07026	23E07327	45E07026	34.88	8	120	7.57	0.05	0	0	Open	0	7.57		45E07036	0.34	73.02	217.95	62.8			
23E07142-45E07018	23E07142	45E07018	15	8	120	-27.57	0.18	0	0.03	Open	0	27.57		45E07030	8.58	73.09	217.95	62.77			
23E07277-46E07029	46E07029	23E07277	10	6	110	-0.85	0.01	0	0	Open	0	0.85		45E07037	0.83	69.99	217.95	64.11			
46E07030-23E07289	46E07030	23E07289	10	6	110	-1.47	0.02	0	0	Open	0	1.47		45E07038	0.77	71.4	217.97	63.51			
45E07005-23E07044	45E07005	23E07044	15	6	110	-3.85	0.04	0	0	Open	0	3.85		45E07031	7.59	70.39	217.97	63.94			
45E07007-23E07057	23E07057	45E07007	14.95	12	120	-145.7	0.41	0	0.08	Open	0	145.7		45E07016	4.8	69.23	217.95	64.44			
23E06470-45E07010	23E06470	45E07010	324.15	6	110	-6.3	0.07	0	0.01	Open	0	6.3		45E07005	0.9	71.1	217.99	63.65			
23E07327-23E07399	23E07399	23E07327	158.68	8	120	-1.58	0.01	0	0	Open	0	1.58		45E07007	2.27	65.78	218.02	65.97			
45E07019-23E07327	23E07327	45E07019	633.34	8	120	-14.03	0.09	0	0.01	Open	0	14.03		45E07009	0.52	63.48	218.02	66.96			
45E07037-23E07384	45E07037	23E07384	172.02	8	120	-44.35	0.28	0.01	0.07	Open	0	44.35		45E07010	0.21	67.88	218.01	65.05			
23E07067-23E07086	23E07086	23E07067	147.52	12	120	-86.48	0.25	0	0.03	Open	0	86.48		45E07051	17.67	78.34	217.98	60.51			
45E06052-45E07007	45E06052	45E07007	309.86	12	120	147.97	0.42	0.03	0.09	Open	0	147.97		45E07021	0.54	70.52	218.01	63.91			
23E07410-45E07049	23E07410	45E07049	15	8	130	15.12	0.1	0	0.01	Open	0	15.12		45E07020	1.83	70.35	218.01	63.98			
45E07039-23E07401	45E07039	23E07401	303.18	12	120	-4.51	0.01	0	0	Open	0	4.51		45E07032	2.82	80.52	218	59.57			
45E07049-23E07417	45E07049	23E07417	49.68	8	130	15.12	0.1	0	0.01	Open	0	15.12		45E07018	0	60.46	217.95	68.24			
45E07044-23E07411	45E07044	23E07411	701.15	8	130	-15.12	0.1	0.01	0.01	Open	0	15.12		45E07019	4.18	59.47	217.95	68.67			
23E07409-45E07043	23E07409	45E07043	10	8	130	0	0	0	0	Open	0	0		45E07026	0.1	67.96	217.94	64.99			
23E07390-45E07039	23E07390	45E07039	15	12	120	-4.2	0.01	0	0	Open	0	4.2		45E07035	4.62	75.38	217.94	61.77			

23E07148-45E07021	45E07021	23E07148	176.91	6	110	10.25	0.12	0	0.02	Open	0	10.25		45E07027	4.65	76.06	217.94	61.48			
23E06458-23E07029	23E07029	23E06458	213.67	6	110	2.92	0.03	0	0	Open	0	2.92		45E07039	0.31	81.97	218	58.94			
23E06461-23E07148	23E06461	23E07148	490.17	6	110	-4.13	0.05	0	0	Open	0	4.13		45E06052	1.32	62.99	218.05	67.19			
45E07043-23E07410	45E07043	23E07410	15	8	130	0	0	0	0	Open	0	0		46E06041	1.5	68.84	217.97	64.62			
23E07410-45E07044	23E07410	45E07044	15	8	130	-15.12	0.1	0	0.01	Open	0	15.12		46E06042	0.77	65.75	217.99	65.97			
45E07032-23E07390	23E07390	45E07032	14.84	12	120	-58.2	0.17	0	0.02	Open	0	58.2		45E07044	0	71.79	217.99	63.35			
23E07086-45E07020	45E07020	23E07086	284.23	12	120	-76.9	0.22	0.01	0.03	Open	0	76.9		45E07049	0	71.72	217.99	63.38			
46E06042-23E06459	46E06042	23E06459	15	6	110	-0.77	0.01	0	0	Open	0	0.77		45E07043	0	71.2	217.99	63.6			
46E06041-23E06458	23E06458	46E06041	15	6	110	1.5	0.02	0	0	Open	0	1.5		45E07041	0	71.52	218	63.47			
23E07401-45E07041	23E07401	45E07041	6.06	8	130	15.12	0.1	0	0.01	Open	0	15.12									
45E07041-23E07411	45E07041	23E07411	20.04	8	130	15.12	0.1	0	0.01	Open	0	15.12									
45F07070-23E07424	23E07424	45F07070	1,001.04	6	110	-8.44	0.1	0.01	0.01	Open	0	8.44									
45E07015-23E07146	23E07146	45E07015	122.87	8	120	-28.58	0.18	0	0.03	Open	0	28.58									
23E07116-45E07015	45E07015	23E07116	15.96	8	120	-29.51	0.19	0	0.03	Open	0	29.51									
45E07009-23E07067	23E07067	45E07009	112.3	12	120	-89.3	0.25	0	0.03	Open	0	89.3									
23E07057-45E07009	45E07009	23E07057	15	12	120	-89.81	0.25	0	0.03	Open	0	89.81									
45E07021-23E07163	23E07163	45E07021	15	6	110	10.8	0.12	0	0.02	Open	0	10.8									
23E07384-45E07038	23E07384	45E07038	15	8	120	-60.88	0.39	0	0.12	Open	0	60.88									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
41E11001-28E11002	28E11002	41E11001	45.08	36	135	-2,691.00	0.85	0	0.07	Open	0	2691		23E12071	0	106.76	214.26	46.58		Average	42.16444444
28E11002-45E11052	45E11052	28E11002	20.2	24	130	-2,691.00	1.91	0.01	0.54	Open	0	2691		23E11409	0	103.02	215.36	48.68		Minimum	1.46
23E11446-23E11447	23E11446	23E11447	28.76	14	130	466.35	0.97	0.01	0.29	Open	0	466.35		23E11473	0	104.41	214.24	47.59		Maximum	51.36
45E12007-23E12100	23E12100	45E12007	54.56	12	120	-147.71	0.42	0	0.09	Open	0	147.71		23E11477	0	105.22	214.26	47.25		**Velocity**	
23E11403-23E11458	23E11403	23E11458	147.29	20	130	0	0	0	0	Open	0	0		23E11481	0	105.22	215.18	47.65		Average	0.834444444
23E11403-23E11404	23E11403	23E11404	119.07	20	130	0	0	0	0	Open	0	0		23E11403	0	103.53	214.26	47.98		Minimum	0
45E11059-23E11469	23E11469	45E11059	15	8	130	-32.79	0.21	0	0.03	Open	0	32.79		23E11407	0	103.46	215.29	48.46		Maximum	7.63
45E11058-45E11059	45E11059	45E11058	193.57	8	130	-32.79	0.21	0.01	0.03	Open	0	32.79		23E11404	0	103.02	214.26	48.2		**Flow**	
23E11477-23E12071	23E11477	23E12071	622.49	20	130	-34.78	0.04	0	0	Open	0	34.78		23E11465	0	103.06	214.23	48.17		Average	835.9486111
23E11465-45E11058	45E11058	23E11465	15	8	130	-34.78	0.22	0	0.04	Open	0	34.78		23E11474	0	103.48	214.23	47.99		Minimum	0
45E11061-23E11474	23E11474	45E11061	130.85	8	130	-34.78	0.22	0	0.04	Open	0	34.78		23E12070	0	106.08	214.26	46.87		Maximum	2691
23E11473-45E11061	45E11061	23E11473	15	8	130	-34.78	0.22	0	0.04	Open	0	34.78		23E11459	0	103.24	215.22	48.52			
23E11455-45E12009	23E11455	45E12009	666.03	14	130	-468.99	0.98	0.2	0.29	Open	0	468.99		23E11458	0	103.24	214.26	48.1			
23E11463-23E11477	23E11477	23E11463	28.96	20	130	34.78	0.04	0	0	Open	0	34.78		23E11405	0.93	106.05	214.2	46.86			
45E11052-23E11409	23E11409	45E11052	7.13	24	130	-2,691.00	1.91	0	0.54	Open	0	2691		23E11355	3.18	100.23	214.11	49.34			
45E11055-23E11446	45E11055	23E11446	10	14	130	466.35	0.97	0	0.29	Open	0	466.35		23E11393	0.39	104.61	214.18	47.47			
23E11443-23E11455	23E11443	23E11455	74.76	14	130	-467.93	0.98	0.02	0.29	Open	0	467.93		23E11442	0	106.07	214.25	46.87			
23E11463-45E11060	45E11060	23E11463	12.79	6	110	-34.78	0.39	0	0.2	Open	0	34.78		23E11446	0	106.24	214.24	46.8			
23E11391-23E11392	23E11392	23E11391	10	14	130	0	0	0	0	Open	0	0		23E11443	1.58	105.12	214.27	47.29			
23E11393-23E11406	23E11393	23E11406	49.65	12	120	-347.55	0.99	0.02	0.42	Open	0	347.55		23E11406	0.15	106.05	214.2	46.86			
23E11458-23E11463	23E11463	23E11458	27.32	20	130	0	0	0	0	Open	0	0		23E11455	1.06	103.76	214.29	47.89			
23E11442-45E11055	23E11442	45E11055	15	14	130	466.35	0.97	0	0.29	Open	0	466.35		23E11469	0	104.53	214.23	47.53			
45E11060-23E11471	23E11471	45E11060	7.74	6	120	-34.78	0.39	0	0.17	Open	0	34.78		23E11447	0	106.13	214.23	46.84			
23E11471-23E11473	23E11473	23E11471	59.65	6	110	-34.78	0.39	0.01	0.2	Open	0	34.78		23E11391	0	104.99	214.17	47.31			
23E11465-23E11474	23E11465	23E11474	24.1	8	130	-34.78	0.22	0	0.04	Open	0	34.78		23E11394	0	105.04	214.17	47.29			
23E12071-23E12070	23E12071	23E12070	8.91	8	120	-34.78	0.22	0	0.04	Open	0	34.78		23E11392	0	104.99	214.17	47.31			
23E11355-45E11050	23E11355	45E11050	143.3	12	120	-347.17	0.98	0.06	0.41	Open	0	347.17		23E11471	0	103.78	214.25	47.87			
45E11050-23E11392	45E11050	23E11392	15	12	120	-347.17	0.98	0.01	0.41	Open	0	347.17		23E11463	0	104.15	214.26	47.71			
45E11035-23E11355	45E11035	23E11355	238.52	14	130	-343.99	0.72	0.04	0.17	Open	0	343.99		28E11002	0	103.02	215.37	48.68			
23E11405-23E11406	23E11406	23E11405	10	12	120	0.93	0	0	0	Open	0	0.93		45E11052	0	103.02	215.36	48.68			
23E11392-23E11393	23E11393	23E11392	17.26	14	130	347.17	0.72	0	0.17	Open	0	347.17		45E11067	0.59	107.81	214.21	46.1			
23E11459-23E11481	23E11481	23E11459	58.45	24	130	-2,691.00	1.91	0.03	0.54	Open	0	2691		45E12009	0.39	104.72	214.49	47.56			
23E11392-23E11394	23E11392	23E11394	10	12	120	0	0	0	0	Open	0	0		45E11059	0	104.94	214.23	47.35			
23E11447-23E11469	23E11447	23E11469	90.97	12	120	117.71	0.33	0.01	0.06	Open	0	117.71		45E11050	0	104.67	214.17	47.45			
23E11469-45E11067	23E11469	45E11067	132.91	12	120	150.5	0.43	0.01	0.09	Open	0	150.5		45E12007	2.2	106.69	214.17	46.57			
23E12071-23E12089	23E12071	23E12089	5	20	130	0	0	0	0	Open	0	0		45E11055	0	106.24	214.24	46.8			
23E12070-45E12014	45E12014	23E12070	3.21	8	120	34.78	0.22	0	0.04	Open	0	34.78		45E11058	1.99	102.65	214.23	48.35			
45E11067-45E12007	45E11067	45E12007	460.65	12	120	149.91	0.43	0.04	0.09	Open	0	149.91		45E11060	0	103.78	214.25	47.87			
23E11406-23E11447	23E11406	23E11447	82.44	12	120	-348.64	0.99	0.03	0.42	Open	0	348.64		45E11061	0	105.16	214.24	47.26			
23E11481-45E12029	23E11481	45E12029	646.37	24	130	2,691.00	1.91	0.35	0.54	Open	0	2691		41E11001	0	97	215.38	51.29			
23E11407-23E11459	23E11407	23E11459	143.92	24	130	2,691.00	1.91	0.08	0.54	Open	0	2691		R1_1	0	97	100.38	1.46			
23E11407-23E11409	23E11407	23E11409	119.07	24	130	-2,691.00	1.91	0.06	0.54	Open	0	2691		R1_13	0	97	100.38	1.46			
45E12009-23E12114	45E12009	23E12114	31	14	130	-469.37	0.98	0.01	0.29	Open	0	469.37		R1_12	0	97	215.47	51.33			
23E11442-23E11443	23E11443	23E11442	77	14	130	466.35	0.97	0.02	0.29	Open	0	466.35		R1_6	0	97	100.37	1.46			
R1-R1_1	R1_1	R1	34.71	36	135	-2,691.00	0.85	0	0.07	Open	0	2691		R1_2	0	97	100.38	1.46			
R1_13-R1_1	R1_13	R1_1	37.81	16	130	0	0	0	0	Open	0	0		R1_3	0	97	100.37	1.46			
R1_VALV-R1_12	R1_12	R1IN	12.07	16	130	0	0	0	0	Open	0	0		R1_4	0	97	100.37	1.46			
R1_VALV-R1_13	R1FILL	R1_13	21.17	16	130	0	0	0	0	Open	0	0		R1_5	0	97	100.37	1.46			
41E11001-R1_12	R1_12	41E11001	172.63	24	130	2,691.00	1.91	0.09	0.54	Open	0	2691		R1_7	0	97	215.53	51.36			
R1_1-R1_2	R1_1	R1_2	30.48	36	135	2,691.00	0.85	0	0.07	Open	0	2691		R1_11	0	97	215.49	51.34			
R1_2-R1_3	R1_2	R1_3	27.08	36	135	2,691.00	0.85	0	0.07	Open	0	2691		R1_10	0	97	215.5	51.35			
R1_3-R1_4	R1_3	R1_4	26.57	36	135	2,691.00	0.85	0	0.07	Open	0	2691		R1_9	0	97	215.52	51.35			
R1_4-R1_5	R1_4	R1_5	21.88	36	135	2,691.00	0.85	0	0.07	Open	0	2691		R1_8	0	97	215.53	51.36			
R1_5-R1_6	R1_5	R1_6	21.36	36	135	0	0	0	0	Open	0	0		R1IN	0	97	215.47	51.33			
R1_11-R1_12	R1_11	RES1SETPOINT	19.07	24	130	2,691.00	1.91	0.01	0.54	Open	0	2691									
R1_10-R1_11	R1_11	R1_10	30.21	24	130	-2,691.00	1.91	0.02	0.54	Open	0	2691									
R1_9-R1_10	R1_10	R1_9	25.52	24	130	-2,691.00	1.91	0.01	0.54	Open	0	2691									
R1_8-R1_9	R1_9	R1_8	21.87	24	130	-2,691.00	1.91	0.01	0.54	Open	0	2691									
R1_7-R1_8	R1_8	R1_7	18.75	24	130	0	0	0	0	Open	0	0									
R1_2-RES1ELEC1	R1_2	RES1ELECT1	40.64	10	120	0	0	0	0	Open	0	0									
RES1ELEC1-R1_11	RES1ELECT1	R1_11	44.27	10	120	0	0	0	0	Open	0	0									
R1_3-RES1ELEC2	R1_3	RES1ELEC2	40.11	10	120	0	0	0	0	Open	0	0									
RES1ELEC2-R1_10	RES1ELEC2	R1_10	45.32	10	120	0	0	0	0	Open	0	0									
R1_4-RES1GAS1	R1_4	RES1GAS1	36.99	12	120	0	0	0	0	Open	0	0									
RES1GAS1-R1_9	RES1GAS1	R1_9	47.92	12	120	0	0	0	0	Open	0	0									
R1_5-RES1GAS2	R1_5	RES1GAS2	39.07	12	120	2,691.00	7.63	0.72	18.39	Open	0	2691									

Reservoir 1 Scenario 3

RES1GAS2-R1_8	RES1GAS2	R1_8	45.83	12	120	2,691.00	7.63	0.84	18.39	Open	0	2691								
R1_6-RES1GAS3	R1_6	RES1GAS3	39.08	12	120	0	0	0	0	Open	0	0								
RES1GAS3-R1_7	RES1GAS3	R1_7	45.32	12	120	0	0	0	0	Open	0	0								
CONTROL	R1_1	R1_13	40.22	0.01	135	0	0	0	0	Closed	0	0								
P711	R1IN	R1FILL	14.01	16	130	0	0	0	0	Open	0	0								
P1029	RES1SETPOINT	R1_12	11.34	24	130	2,691.00	1.91	0.01	0.54	Open	0	2691								

Pipe Report														**Junction Report**							**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)				
23N12332-23N12336	23N12336	23N12332	6.34	16	130	0.32	0	0	0	Open	0	0.32		23N12376	0	84.61	214.24	56.17			Average	40.8
45N12004-23N12332	23N12332	45N12004	10.01	12	120	0.32	0	0	0	Open	0	0.32		23N12323	0	88.07	214.24	54.67			Minimum	-4.72
45N12003-45N12004	45N12004	45N12003	7.1	12	120	0.32	0	0	0	Open	0	0.32		23N12359	0	84.84	214.24	56.07			Maximum	61.2
23N12326-23N13241	23N12326	23N13241	866.94	30	135	-9.74	0	0	0	Open	0	9.74		23N12352	0	85.87	214.24	55.62			**Velocity**	
23N12326-23N12336	23N12336	23N12326	57.01	30	135	-9.74	0	0	0	Open	0	9.74		23N12329	0	86.57	214.24	55.32			Average	0.05212766
25N12229-23N12352	23N12352	25N12229	16	12	120	-0.32	0	0	0	Open	0	0.32		23N13171	5.68	85.61	214.19	55.71			Minimum	0
28N12001-23N12376	23N12376	28N12001	129.3	39	135	0	0	0	0	Open	0	0		23N12345	0	86.2	214.24	55.48			Maximum	0.6
23N12359-28N12001	23N12359	28N12001	24.66	30	135	-0.31	0	0	0	Open	0	0.31		23N12320	0	88.07	214.24	54.67			**Flow**	
23N12328-45N12003	45N12003	23N12328	5.37	12	120	0.32	0	0	0	Open	0	0.32		23N12336	0	86.83	214.24	55.21			Average	11.09489362
23N12329-45N12005	23N12329	45N12005	41	6	120	-9.74	0.11	0	0.02	Open	0	9.74		23N12328	0	86.98	214.24	55.14			Minimum	0
45N12005-23N12345	45N12005	23N12345	10	6	120	-9.74	0.11	0	0.02	Open	0	9.74		23N12326	0	87.71	214.24	54.82			Maximum	157.89
23N12323-45N12002	45N12002	23N12323	18.01	12	130	0	0	0	0	Open	0	0		23N12286	0	85.3	214.24	55.87				
45N12006-25N12229	25N12229	45N12006	15	12	120	-0.32	0	0	0	Open	0	0.32		23N12332	0	86.83	214.24	55.21				
23N12345-23N12359	23N12359	23N12345	56.63	30	135	0.31	0	0	0	Open	0	0.31		28N12001	0	85.04	214.24	55.98				
23N12336-23N12345	23N12345	23N12336	26.42	30	135	-9.42	0	0	0	Open	0	9.42		25N12229	0	85.73	214.24	55.68				
23N12352-28N12001	28N12001	23N12352	24.68	12	120	-0.32	0	0	0	Open	0	0.32		45N12003	0	87.35	214.24	54.98				
46N12001-23N12329	46N12001	23N12329	36	6	120	-9.74	0.11	0	0.02	Open	0	9.74		45N12006	0	85.88	214.24	55.62				
23N12328-45N12006	45N12006	23N12328	52.02	12	120	-0.32	0	0	0	Open	0	0.32		45N12005	0	86.2	214.24	55.48				
23N12376-41N12001	41N12001	23N12376	169.95	39	135	0	0	0	0	Open	0	0		46N12001	9.74	86.29	214.24	55.44				
45N12002-23N12328	23N12328	45N12002	20	12	120	0	0	0	0	Open	0	0		45N12002	0	87.74	214.24	54.81				
23N12320-23N12323	23N12323	23N12320	10	12	130	0	0	0	0	Open	0	0		45N12004	0	86.83	214.24	55.21				
23N12286-23N12320	23N12320	23N12286	182.63	12	130	0	0	0	0	Open	0	0		45N13019	0.57	83.37	214.17	56.67				
45N13019-23N13171	23N13171	45N13019	70.34	8	120	94.34	0.6	0.02	0.27	Open	0	94.34		45N13020	1.58	86.95	214.19	55.13				
23N13171-45N13048	45N13048	23N13171	1,258.48	12	120	157.89	0.45	0.12	0.1	Open	0	157.89		41N12001	0	73	214.24	61.2				
23N13171-45N13020	45N13020	23N13171	31	10	120	-57.87	0.24	0	0.04	Open	0	57.87		R2_1	0	73	62.1	-4.72				
45N13020-23N13240	23N13240	45N13020	270.84	10	120	-56.29	0.23	0.01	0.03	Open	0	56.29		R2_6	0	73	92.53	8.46				
23N13125-45N13019	45N13019	23N13125	110.9	8	120	93.77	0.6	0.03	0.26	Open	0	93.77		R2_7	0	73	92.53	8.46				
RES2-R2_1	R2	R2_1	19.54	30	135	0	0	0	0	Open	0	0		R2_8	0	73	92.53	8.46				
VALV1-41N12001	41N12001	R2FILL	23.43	16	130	0	0	0	0	Open	0	0		R2_9	0	73	92.53	8.46				
R2_1-R2_2	R2_1	R2_2	33.86	30	135	0	0	0	0	Open	0	0		R2_5	0	73	62.1	-4.72				
R2_6-R2_7	R2_6	R2_7	21.27	39	135	0	0	0	0	Open	0	0		R2_4	0	73	62.1	-4.72				
R2_7-R2_8	R2_7	R2_8	19.53	39	135	0	0	0	0	Open	0	0		R2_3	0	73	62.1	-4.72				
R2_8-R2_9	R2_8	R2_9	26.05	39	135	0	0	0	0	Open	0	0		R2_2	0	73	62.1	-4.72				
R2_9-41N12001	RES2SETPOINT	41N12001	9.54	39	135	0	0	0	0	Open	0	0										
R2_4-R2_5	R2_4	R2_5	21.92	12	120	0	0	0	0	Open	0	0										
R2_3-R2_4	R2_3	R2_4	19.76	30	135	0	0	0	0	Open	0	0										
R2_2-R2_3	R2_2	R2_3	24.97	30	135	0	0	0	0	Open	0	0										
R2_5-GAS4	R2_5	RES2GAS4	24.82	16	130	0	0	0	0	Open	0	0										
GAS4-R2_8	RES2GAS4	R2_6	23.16	16	130	0	0	0	0	Open	0	0										
R2_4-GAS3	R2_4	RES2GAS3	23.23	16	130	0	0	0	0	Open	0	0										
R2_3-GAS2	R2_3	RES2GAS2	22.8	16	130	0	0	0	0	Open	0	0										
GAS2-R2_8	RES2GAS2	R2_8	24.77	16	130	0	0	0	0	Open	0	0										
R2_2-GAS1	R2_2	RES2GAS1	22.36	16	130	0	0	0	0	Open	0	0										
GAS1-R2_9	RES2GAS1	R2_9	24.97	16	130	0	0	0	0	Open	0	0										
GAS3-R2_7	RES2GAS3	R2_7	24.99	16	130	0	0	0	0	Open	0	0										
R2_1-VALV1	R2FILL	R2_1	23.5	16	130	0	0	0	0	Open	0	0										
P1033	R2_9	RES2SETPOINT	21.96	39	135	0	0	0	0	Open	0	0										

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
45H02008-23H02055	23H02055	45H02008	482.45	18	130	1,986.80	2.5	0.61	1.25	Open	0	1986.8		23H02005	0	35.83	243.03	89.78		Average	89.68625
23H02001-45H02001	45H02001	23H02001	15	8	120	-107.65	0.69	0.01	0.34	Open	0	107.65		23H02017	0.54	37.52	242.55	88.84		Minimum	88.84
20H02001-23H02001	23H02001	20H02001	18.51	12	120	-2,351.39	6.67	0.27	14.32	Open	0	2351.39		23H02001	0	35.42	243.36	90.1		Maximum	90.1
45H02007-23H02017	23H02017	45H02007	15	12	120	-2,243.74	6.37	0.2	13.13	Open	0	2243.74		20H02001	0	35.82	243.62	90.04		**Velocity**	
23H02001-45H02003	45H02003	23H02001	15	12	120	-2,243.74	6.37	0.2	13.13	Open	0	2243.74		45H02001	0	35.72	243.35	89.97		Average	4.89
23H02002-23H02017	23H02017	23H02002	442.36	18	130	4,225.81	5.33	2.24	5.07	Open	0	4225.81		45H02007	0	36.55	242.74	89.34		Minimum	0.69
23H02017-45H02008	45H02008	23H02017	15	18	130	1,982.62	2.5	0.02	1.25	Open	0	1982.62		45H02003	0	35.43	243.16	90.01		Maximum	6.67
45H02001-23H02026	23H02026	45H02001	494.77	8	120	-107.65	0.69	0.17	0.34	Open	0	107.65		45H02008	4.18	36.22	242.57	89.41		**Flow**	
45H02003-23H02005	23H02005	45H02003	10	12	120	-2,243.74	6.37	0.13	13.13	Open	0	2243.74								Average	2052.569231
23H02009-45H02007	45H02007	23H02009	9.93	12	120	-2,243.74	6.37	0.13	13.13	Open	0	2243.74								Minimum	107.65
23H02005-23H02009	23H02009	23H02005	11.69	12	120	-2,243.74	6.37	0.15	13.13	Open	0	2243.74								Maximum	4225.81
WELL1PIPE1	WELL1	WELL1PUMP	39.24	12	120	2,351.39	6.67	0.56	14.32	Open	0	2351.39									
WELL1PUMP-20H02001	WELL1PUMP	20H02001	37.52	12	120	2,351.39	6.67	0.54	14.32	Open	0	2351.39									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02054-23F02057	23F02057	23F02054	289.3	10	120	479.77	1.96	0.53	1.83	Open	0	479.77		23F01127	0	40.36	265.9	97.73		Average	96.5975
20F01002-23F01127	20F01002	23F01127	49.62	14	120	2,146.02	4.47	0.28	5.71	Open	0	2146.02		23F02057	17.23	40.84	261.61	95.66		Minimum	94.43
23F02066-23F02109	23F02109	23F02066	301.28	12	120	-1,885.40	5.35	2.87	9.51	Open	0	1885.4		23F01134	0	41.9	264.87	96.61		Maximum	98.37
23F01134-45F01027	45F01027	23F01134	13	8	130	-523.43	3.34	0.07	5.51	Open	0	523.43		23F01137	4	45.58	263.51	94.43		**Velocity**	
23F01134-45F01028	45F01028	23F01134	15	12	120	-1,862.97	5.28	0.14	9.3	Open	0	1862.97		23F01128	3.28	40.72	265.77	97.51		Average	4.141764706
45F01028-23F02066	23F02066	45F01028	335.71	12	120	-1,862.97	5.28	3.12	9.3	Open	0	1862.97		23F02066	0	39.72	261.61	96.14		Minimum	0.09
23F01128-23F01134	23F01134	23F01128	60.98	12	120	-2,386.40	6.77	0.9	14.72	Open	0	2386.4		20F01002	0	39.17	266.19	98.37		Maximum	13.7
45F02021-23F02066	23F02066	45F02021	15	10	120	-22.43	0.09	0	0.01	Open	0	22.43		45F02021	0	39.45	261.61	96.26		**Flow**	
45F02016-23F02057	23F02057	45F02016	15	8	130	-519.43	3.32	0.08	5.43	Open	0	519.43		45F01027	0	41.99	264.8	96.54		Average	1269.520588
23F01137-45F02016	45F02016	23F01137	334	8	130	-519.43	3.32	1.81	5.43	Open	0	519.43		45F01028	0	41.98	264.73	96.52		Minimum	22.43
23F01042-23F01128	23F01128	23F01042	546.1	12	120	-243.66	0.69	0.12	0.22	Open	0	243.66		45F01026	0	40.36	265.85	97.71		Maximum	2386.4
23F01127-45F01026	23F01127	45F01026	8.78	14	120	2,146.02	4.47	0.05	5.71	Open	0	2146.02		45F02016	0	40.85	261.69	95.69			
45F01027-23F01137	23F01137	45F01027	235.12	8	130	-523.43	3.34	1.3	5.51	Open	0	523.43									
23F02057-45F02021	45F02021	23F02057	230.84	10	120	-22.43	0.09	0	0.01	Open	0	22.43									
45F01026-23F01128	45F01026	23F01128	15	14	120	2,146.02	4.47	0.09	5.71	Open	0	2146.02									
WELL3PIPE1	WELL3	WELL3PUMP	44	8	120	2,146.02	13.7	3.83	87.14	Open	0	2146.02									
WELL3PIPE2	WELL3PUMP	20F01002	51.16	14	120	2,146.02	4.47	0.29	5.71	Open	0	2146.02									

Well 5 Scenario 3

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02033-45F02013	45F02013	23F02033	15	8	120	-263	1.68	0.03	1.78	Open	0	263		23F02027	3.18	37.3	256.77	95.1		Average	83.44555556
45F02013-23F02130	23F02130	45F02013	448.5	8	120	-263	1.68	0.8	1.79	Open	0	263		23F01112	0	36	3.59	-14.04		Minimum	-14.04
45F02008-23F02027	23F02027	45F02008	15	16	120	-2,314.57	3.69	0.05	3.43	Open	0	2314.57		23F02033	0	37.27	257.11	95.26		Maximum	96.25
23F01112-45F02008	23F01112	5BOOSTER	33.21	8	120	2,314.57	14.77	3.33	100.24	Open	0	2314.57		23E02003	3.64	33.76	255.11	95.91		**Velocity**	
45F02010-45F02011	45F02011	45F02010	455.53	18	130	2,312.04	2.92	0.76	1.66	Open	0	2312.04		45E02002	2.82	33.71	255.21	95.98		Average	4.598333333
23F02027-23F02033	23F02033	23F02027	255.94	18	130	2,049.05	2.58	0.34	1.33	Open	0	2049.05		45F02013	0	36.91	257.09	95.4		Minimum	1.68
23F02033-45F02010	45F02010	23F02033	15	18	130	2,312.04	2.92	0.02	1.66	Open	0	2312.04		45F02010	0	36.82	257.14	95.46		Maximum	14.77
23E02003-45E02002	23E02003	45E02002	17.67	18	130	-4,357.63	5.49	0.09	5.37	Open	0	4357.63		45F02008	0	35.99	256.83	95.69		**Flow**	
45E02002-23F02027	23F02027	45E02002	291.04	18	130	4,360.44	5.5	1.57	5.38	Open	0	4360.44		WELL5_1	0	36	258.13	96.25		Average	2290.8375
WELL5_1-45F02008	WELL5_1	45F02008	381.43	16	120	2,314.57	3.69	1.31	3.43	Open	0	2314.57								Minimum	263
P308	WELL5	23F01112	101.19	12	120	2,314.57	6.57	1.41	13.91	Open	0	2314.57								Maximum	4360.44
5BOOSTER-WELL5_1	5BOOSTER	WELL5_1	32.65	16	120	2,314.57	3.69	0.11	3.43	Open	0	2314.57									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
23F02306-45F02094	23F02306	45F02094	12.82	12	130	-2,061.80	5.85	0.12	9.68	Open	0	2061.8		23F03036	0	32.48	260.03	98.6		Average	95.82153846
45F02091-23F02306	23F02306	45F02091	15	12	130	1,104.52	3.13	0.05	3.05	Open	0	1104.52		23F03034	0	32.48	259.82	98.51		Minimum	93.15
23F02306-45F02092	45F02092	23F02306	15	12	130	-957.28	2.72	0.04	2.34	Open	0	957.28		23F03031	0	31.66	259.08	98.54		Maximum	98.97
23F03031-23F03034	23F03031	23F03034	66.3	12	120	-2,061.80	5.85	0.74	11.23	Open	0	2061.8		23F02304	2.2	32.44	251.5	94.92		**Velocity**	
23F02388-23F03031	23F02388	23F03031	257.13	12	130	-2,061.80	5.85	2.49	9.68	Open	0	2061.8		23F02306	0	35.99	251.87	93.54		Average	4.583125
23F02303-23F02304	23F02304	23F02303	651.83	12	130	1,102.32	3.13	1.98	3.04	Open	0	1102.32		23F02388	0	33.57	256.59	96.63		Minimum	2.72
23F02307-45F02093	45F02093	23F02307	106.9	12	130	-957.28	2.72	0.25	2.34	Open	0	957.28		23F02387	0	33.83	256.43	96.45		Maximum	5.85
23F02304-45F02091	45F02091	23F02304	105.95	12	130	1,104.52	3.13	0.32	3.05	Open	0	1104.52		23F02303	0	29.18	249.52	95.47		**Flow**	
45F02087-23F02303	23F02303	45F02087	21	12	130	1,102.32	3.13	0.06	3.04	Open	0	1102.32		23F02307	0	33.65	250.17	93.82		Average	1615.1075
23F02387-23F02388	23F02387	23F02388	16.61	12	130	-2,061.80	5.85	0.16	9.68	Open	0	2061.8		20F03001	0	31.92	260.32	98.97		Minimum	957.28
45F02094-23F02387	45F02094	23F02387	458.27	12	130	-2,061.80	5.85	4.44	9.68	Open	0	2061.8		45F02092	0	36.11	251.83	93.47		Maximum	2061.8
45F02092-23F02307	23F02307	45F02092	712.34	12	130	-957.28	2.72	1.67	2.34	Open	0	957.28		45F02091	0	36.85	251.82	93.15			
23F03036-20F03001	23F03036	20F03001	26.47	12	120	-2,061.80	5.85	0.3	11.23	Open	0	2061.8		45F02094	0	35.96	251.99	93.61			
23F03034-23F03036	23F03034	23F03036	18.32	12	120	-2,061.80	5.85	0.21	11.23	Open	0	2061.8									
WELL7PIPE1	WELL7	WELL7PUMP	45.82	12	120	2,061.80	5.85	0.51	11.23	Open	0	2061.8									
WELL7PIPE2	WELL7PUMP	20F03001	55.36	12	120	2,061.80	5.85	0.62	11.23	Open	0	2061.8									

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	91.94047619
23G02034-45G02016	23G02034	45G02016	15	12	130	977.96	2.77	0.04	2.43	Open	0	977.96		23G02030	0	37.28	248.83	91.66		Minimum	90.64
23G02012-45G02006	45G02006	23G02012	51.48	18	130	3,557.08	4.48	0.19	3.69	Open	0	3557.08		23G02049	0	38.04	247.23	90.64		Maximum	93.82
23G02011-23G02014	23G02011	23G02014	16.22	18	130	379.41	0.48	0	0.06	Open	0	379.41		23G02044	0	36.76	249.2	92.05		**Velocity**	
23G02009-45G02004	23G02009	45G02004	3.76	18	130	1,277.57	1.61	0	0.55	Open	0	1277.57		23G02027	1.65	38.68	249.22	91.23		Average	2.955
23G02004-23G02007	23G02007	23G02004	19.91	18	130	-1,277.57	1.61	0.01	0.55	Open	0	1277.57		23G02010	0	38.67	249.21	91.23		Minimum	0.48
45G02008-45G02009	45G02009	45G02008	54.93	12	120	-382.72	1.09	0.03	0.5	Open	0	382.72		23G02014	0	35.31	249.17	92.66		Maximum	12.13
45G02009-23G02027	23G02027	45G02009	81.69	12	120	-381.07	1.08	0.04	0.49	Open	0	381.07		23G02004	0	37.57	249.29	91.74		**Flow**	
23G02010-23G02027	23G02027	23G02010	19.12	12	120	379.41	1.08	0.01	0.49	Open	0	379.41		23G02007	0	37.43	249.28	91.79		Average	1522.127692
45G02006-23G02014	23G02014	45G02006	17.57	18	130	3,557.08	4.48	0.06	3.69	Open	0	3557.08		23G02009	0	35.31	249.17	92.67		Minimum	379.41
23G02030-23G02034	23G02034	23G02030	415.38	18	130	-3,557.08	4.48	1.53	3.69	Open	0	3557.08		23G02012	0	37.71	248.91	91.51		Maximum	3557.08
45G02004-23G02014	45G02004	23G02014	7.35	18	130	1,277.57	1.61	0	0.55	Open	0	1277.57		23G02034	0	37.66	247.3	90.84			
23G02014-23G02044	23G02014	23G02044	27.88	18	130	-1,900.09	2.4	0.03	1.15	Open	0	1900.09		23G02011	0	36.34	249.17	92.22			
45G02016-23G02049	23G02049	45G02016	12.37	12	130	-977.96	2.77	0.03	2.43	Open	0	977.96		20G02001	0	34	250.53	93.82			
23G02049-23G02056	23G02056	23G02049	17.11	12	130	-977.96	2.77	0.04	2.43	Open	0	977.96		45G02016	0	38.04	247.26	90.66			
23G02019-45G02008	45G02008	23G02019	541	12	120	-386.7	1.1	0.27	0.51	Open	0	386.7		45G02008	3.98	35.52	249.29	92.63			
23G02012-23G02030	23G02012	23G02030	22.42	18	130	3,557.08	4.48	0.08	3.69	Open	0	3557.08		45G02009	1.65	36.39	249.26	92.24			
23G02044-45G02019	23G02044	45G02019	15	12	120	-1,900.09	5.39	0.14	9.65	Open	0	1900.09		45G02005	0	37.6	249.18	91.68			
45G02001-45G02002	45G02002	45G02001	452.8	18	135	-1,277.57	1.61	0.23	0.52	Open	0	1277.57		45G02006	0	34.85	249.1	92.84			
23G02034-23G02038	23G02038	23G02034	855.98	18	130	-2,579.12	3.25	1.74	2.03	Open	0	2579.12		45G02002	0	37.02	249.3	91.98			
45G02019-20G02001	45G02019	20G02001	123	12	120	-1,900.09	5.39	1.19	9.65	Open	0	1900.09		45G02019	0	37.05	249.34	91.99			
45G02002-23G02004	23G02004	45G02002	15	18	130	-1,277.57	1.61	0.01	0.55	Open	0	1277.57		45G02004	0	35.31	249.17	92.67			
23G02007-23G02009	23G02009	23G02007	195.77	18	130	-1,277.57	1.61	0.11	0.55	Open	0	1277.57									
23G02010-45G02005	23G02010	45G02005	59.69	12	120	379.41	1.08	0.03	0.49	Open	0	379.41									
45G02005-23G02011	45G02005	23G02011	32.95	12	120	379.41	1.08	0.02	0.49	Open	0	379.41									
WELL9PIPE1	WELL9	WELL9PUMP	30.68	8	120	1,900.09	12.13	2.13	69.55	Open	0	1900.09									
WELL9PIPE2	WELL9PUMP	20G02001	25.31	12	120	1,900.09	5.39	0.24	9.65	Open	0	1900.09									

Pipe Report														**Junction Report**							
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		**Pressure**	
85135	12	WELL12_PUMP	41.64	16	120	3,885.49	6.2	0.37	8.94	Open	0	3885.49		J1724	0	42.6	289.95	107.18		Average	107.18
85135_2	WELL12_PUMP	J1724	85.57	16	120	3,885.49	6.2	0.77	8.94	Open	0	3885.49								Minimum	107.18
P965	J1724	J1378	2,112.83	16	120	3,885.49	6.2	18.89	8.94	Open	0	3885.49								Maximum	107.18
																				Velocity	
																				Average	6.2
																				Minimum	6.2
																				Maximum	6.2
																				Flow	
																				Average	3885.49
																				Minimum	3885.49
																				Maximum	3885.49

Pipe Report														**Junction Report**						**Pressure**	
ID	From Node	To Node	Length (ft)	Diameter (in)	Roughness	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)	Status	Flow Reversal Count			ID	Demand (gpm)	Elevation (ft)	Head (ft)	Pressure (psi)		Average	99.15833333
23F01017-23F01018	23F01017	23F01018	264.6	12	120	927.53	2.63	0.68	2.56	Open	0	927.53		23F01051	0	39.43	267.06	98.63		Minimum	92.73
23F01013-23F01014	23F01013	23F01014	6.83	12	120	927.53	2.63	0.02	2.56	Open	0	927.53		23F01055	0	39.42	266.68	98.47		Maximum	101.18
23F01014-23F01016	23F01014	23F01016	26.3	12	120	927.53	2.63	0.07	2.56	Open	0	927.53		23F01013	0	35.7	267.51	100.45		**Velocity**	
23F01009-23F01035	23F01035	23F01009	30.11	18	120	-6,158.85	7.77	0.36	11.82	Open	0	6158.85		23F01011	0	35.86	267.58	100.4		Average	3.866956522
23F01010-23F01011	23F01010	23F01011	8.24	12	120	927.53	2.63	0.02	2.56	Open	0	927.53		23F01012	0	35.7	267.53	100.45		Minimum	1.76
23F01009-23F01010	23F01009	23F01010	29.78	12	120	927.53	2.63	0.08	2.56	Open	0	927.53		23F01014	0	35.57	267.5	100.49		Maximum	7.77
45F01002-23F01009	23F01009	45F01002	129.98	12	120	682.75	1.94	0.19	1.45	Open	0	682.75		23F01018	0	37.72	266.34	99.06		**Flow**	
23F01016-23F01017	23F01016	23F01017	160.21	12	120	927.53	2.63	0.41	2.56	Open	0	927.53		23F01016	0	35.15	267.43	100.65		Average	2970.986957
45F02010-45F02011	45F02011	45F02010	455.53	18	130	2,312.04	2.92	0.76	1.66	Open	0	2312.04		23F01010	0	35.86	267.6	100.41		Minimum	681.02
23F01035-23F01051	23F01051	23F01035	25.92	18	130	-6,158.85	7.77	0.26	10.19	Open	0	6158.85		23F01035	0	38.63	267.32	99.09		Maximum	7769.13
23F01055-45F01014	45F01014	23F01055	161.45	18	130	-6,158.85	7.77	1.65	10.19	Open	0	6158.85		23F01009	0	35.89	267.68	100.43			
23F01051-23F01055	23F01055	23F01051	36.48	18	130	-6,158.85	7.77	0.37	10.19	Open	0	6158.85		23F01017	0	36.47	267.02	99.9			
23F01018-23F01020	23F01020	23F01018	34.93	12	120	-927.53	2.63	0.09	2.56	Open	0	927.53		23F02040	0.05	37.88	257.92	95.34			
23F01011-23F01012	23F01011	23F01012	20.89	12	130	927.53	2.63	0.05	2.21	Open	0	927.53		45F01002	1.73	33.97	267.49	101.18			
23F01012-23F01013	23F01012	23F01013	7.63	12	120	927.53	2.63	0.02	2.56	Open	0	927.53		45F01014	7.98	31.71	265.04	101.1			
45F01001-45F01002	45F01002	45F01001	578.24	12	120	681.02	1.93	0.83	1.44	Open	0	681.02		45F02014	3.13	43.86	257.86	92.73			
45F02014-45F02027	45F02027	45F02014	204.09	18	130	-3,835.65	4.84	0.87	4.24	Open	0	3835.65		45F02011	0	37.04	257.89	95.7			
45F02011-23F02040	23F02040	45F02011	15	18	130	2,312.04	2.92	0.02	1.66	Open	0	2312.04		J1378	0	39.42	271.06	100.37			
45F01014-23F02040	23F02040	45F01014	700.11	18	130	-6,150.87	7.75	7.12	10.17	Open	0	6150.87									
23F02040-45F02014	45F02014	23F02040	13.17	18	130	-3,838.77	4.84	0.06	4.25	Open	0	3838.77									
85136	WELL14_PUMP	J1378	92.98	30	120	3,883.63	1.76	0.04	0.42	Open	0	3883.63									
85137	J1378	23F01009	2,239.48	30	120	7,769.13	3.53	3.38	1.51	Open	0	7769.13									
85136_2	14	WELL14_PUMP	37.34	30	120	3,883.63	1.76	0.02	0.42	Open	0	3883.63									

Appendix E

City of Huntington Beach Raw Hydraulic Model Data

Baseline	2,700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
4929	18396	4.7	<None>	<Collection: 1 item>	773.95	165.4	69.6		19084	P591	627	17553: 17741	2282: 17484	8		130	FALSE	0	-34.13	0.22	0	TRUE	627	34.13				Pressure		
1713	18683	1.5	<None>	<Collection: 1 item>	171.18	166.2	71.4		17819	P589	28	11237: 17099	16060: 17102	6		130	FALSE	0	1.89	0.02	0	TRUE	28	1.89				Average	71.3112	
17438	18682	1.5	<None>	<Collection: 1 item>	171.18	166.2	71.4		18415	P419	147	12915: J288	3967: J290	12		130	FALSE	0	162	0.46	0	TRUE	147	162				Minimum	0	
2742	190746	9	<None>	<Collection: 1 item>	139.15	168.9	69.3		20503	P417	186	14311: J286	12915: J288	12		130	FALSE	0	110.72	0.31	0	TRUE	186	110.72				Maximum	74.7	
15703	17140	5.4	<None>	<Collection: 1 item>	64.58	167.5	70.3		21809	P415	245	2195: J284	14311: J286	12		130	FALSE	0	88.41	0.25	0	TRUE	245	88.41				Velocity		
11667	18462	2	<None>	<Collection: 1 item>	52.03	166	71.1		34350	P413	447	13309: J282	14311: J286	12		130	FALSE	0	25.41	0.07	0	TRUE	447	25.41				Average	0.23269	
12736	18408	1.4	<None>	<Collection: 1 item>	52.03	166	71.4		23207	P411	567	15327: J294	12915: J288	12		130	FALSE	0	54.38	0.15	0	TRUE	567	54.38				Minimum	0	
17441	18282	1.5	<None>	<Collection: 1 item>	52.03	165.7	71.2		18414	P409	215	13309: J282	15327: J294	12		130	FALSE	0	57.47	0.16	0	TRUE	215	57.47				Maximum	5.62	
1129	18132	1.5	<None>	<Collection: 1 item>	44.43	166.3	71.4		30580	P407	211	10229: J280	13309: J282	12		130	FALSE	0	85.98	0.24	0	TRUE	211	85.98				Flow		
14591	18360	1.5	<None>	<Collection: 1 item>	44.43	166.1	71.4		21808	P405	367	12920: J278	10229: J280	12		130	FALSE	0	91.56	0.26	0	TRUE	367	91.56				Average	52.36	
16021	18213	1.5	<None>	<Collection: 1 item>	44.43	166.3	71.4		34349	P403	71	8992: J276	12920: J278	12		130	FALSE	0	94.65	0.27	0	TRUE	71	94.65				Minimum	0	
16705	18381	3.3	<None>	<Collection: 1 item>	33.19	166.3	70.7		23206	P401	313	2195: J284	10229: J280	12		130	FALSE	0	-2.49	0.01	0	TRUE	313	2.49				Maximum	817.92	
5977	18554	4.4	<None>	<Collection: 1 item>	32.11	166.3	70.2		30921	P399	466	8992: J276	2195: J284	12		130	FALSE	0	89.02	0.25	0	TRUE	466	89.02						
9908	18431	5.7	<None>	<Collection: 1 item>	20.5	165.4	69.2		33585	P397	359	3224: J274	8992: J276	12		130	FALSE	0	186.77	0.53	0	TRUE	359	186.77						
10686	18432	5.8	<None>	<Collection: 1 item>	20.5	165.4	69.2		23333	P393	23	6620: 17767	13310: J292	8	AC	130	FALSE	0	-49.96	0.32	0	TRUE	23	49.96						
17227	18433	5.8	<None>	<Collection: 1 item>	20.5	165.4	69.2		21682	P287	275	7338: J178	3243: J180	8		130	FALSE	0	2.19	0.01	0	TRUE	275	2.19						
1939	18192	1.5	<None>	<Collection: 1 item>	20.26	166	71.3		24938	P285	122	3243: J180	6411: J176	8		130	FALSE	0	1.09	0.01	0	TRUE	122	1.09						
2522	17943	1.5	<None>	<Collection: 1 item>	20.26	166.6	71.6		32225	P281	126	13233: J182	7338: J178	8		130	FALSE	0	3.28	0.02	0	TRUE	126	3.28						
3690	18102	1.5	<None>	<Collection: 1 item>	20.26	166.2	71.4		19117	P279	121	13233: J182	6618: 17887	6	AC	130	FALSE	0	-63.99	0.73	0	TRUE	121	63.99						
5567	18103	1.5	<None>	<Collection: 1 item>	20.26	166.2	71.4		25739	P159	19	10334: 17907	8782: J66	6		130	FALSE	0	3.06	0.03	0	TRUE	19	3.06						
13514	18193	1.5	<None>	<Collection: 1 item>	20.26	166	71.3		35095	P157	320	3586: 17929	8782: J66	6	AC	130	FALSE	0	-12.3	0.14	0	TRUE	320	12.3						
2292	18304	1.1	<None>	<Collection: 1 item>	19.5	165.7	71.3		19143	P153	62	6770: J64	10809: 17119	12		130	FALSE	0	49.69	0.14	0	TRUE	62	49.69						
13516	18393	2.6	<None>	<Collection: 1 item>	19.5	165.4	70.6		19926	P151	124	5242: 17026	6770: J64	12	AC	130	FALSE	0	369.64	1.05	0	TRUE	124	369.64						
16704	18281	1.3	<None>	<Collection: 1 item>	19.5	165.7	71.3		27887	P105	17	15928: J46	8590: 17750	8		130	FALSE	0	1.67	0.01	0	TRUE	17	1.67						
2729	17909	1.5	<None>	<Collection: 1 item>	17.11	166.6	71.6		24084	P103	434	9950: 17654	15928: J46	8	AC	130	FALSE	0	17.61	0.11	0	TRUE	434	17.61						
8850	18094	1.3	<None>	<Collection: 1 item>	17.11	166.4	71.6		37602	P-SETM-d	4,559	37595: J-SETM-c	37601: J-SETM-e	36	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0						
13372	17764	-3.8	<None>	<Collection: 1 item>	17.11	166.9	74		39140	P-997	158	39134: J-670	39137: J-671	12	PVC	130	FALSE	0	101.1	0.29	0	FALSE	0	101.1						
15164	17765	-3.4	<None>	<Collection: 1 item>	17.11	166.9	73.8		39136	P-996(2)	641	39134: J-670	39130: J-669	12	PVC	130	FALSE	0	-61.97	0.18	0	FALSE	0	61.97						
15263	17977	1.2	<None>	<Collection: 1 item>	17.11	166.6	71.7		39135	P-996(1)	62	39128: J-668	39134: J-670	12	PVC	130	FALSE	0	39.13	0.11	0	FALSE	0	39.13						
3465	18280	4.6	<None>	<Collection: 1 item>	8.9	165.7	69.9		39129	P-995	825	39126: J-667	39128: J-668	12	PVC	130	FALSE	0	39.13	0.11	0	FALSE	0	39.13						
15983	18284	4.8	<None>	<Collection: 1 item>	8.9	165.7	69.8		38445	P-634	71	3967: J290	38442: J-414	12	PVC	130	FALSE	0	158.91	0.45	0	FALSE	0	158.91						
14377	18130	5.2	<None>	<Collection: 1 item>	8.8	166.5	69.9		38444	P-633	231	38442: J-414	14669: 17703	8	AC	130	FALSE	0	83.11	0.53	0	TRUE	231	83.11						
1714	18083	6	<None>	<Collection: 1 item>	6.2	168.8	70.6		38443	P-632	107	13876: 17731	38442: J-414	8	AC	130	FALSE	0	-75.8	0.48	0	TRUE	107	75.8						
7311	18200	5.4	<None>	<Collection: 1 item>	6.2	168.8	70.8		38441	P-631	76	38434: J-412	38438: J-413	8	PVC	130	FALSE	0	65.33	0.42	0	FALSE	0	65.33						
8654	18099	6.6	<None>	<Collection: 1 item>	6.2	169	70.4		38440	P-630	31	38438: J-413	13876: 17731	8	AC	130	FALSE	0	-73.33	0.47	0	TRUE	30	73.33						
8853	18394	3.5	<None>	<Collection: 1 item>	6.2	166.4	70.7		38439	P-629	932	14548: 17295	38438: J-413	8	AC	130	FALSE	0	-138.66	0.89	0	TRUE	932	138.66						
12614	18233	6.1	<None>	<Collection: 1 item>	6.2	168.8	70.5		38437	P-628	1,165	627: 190742	38434: J-412	12	PVC	130	FALSE	0	65.33	0.19	0	FALSE	0	65.33						
13269	18197	5.2	<None>	<Collection: 1 item>	6.2	168.8	70.9		38436	P-627	100	38434: J-412	13310: J292	12		130	FALSE	0	0	0	0	TRUE	100	0						
15984	18394	2.7	<None>	<Collection: 1 item>	6.2	166.7	71.1		38435	P-626	155	3967: J290	38434: J-412	12		130	FALSE	0	0	0	0	TRUE	155	0						
16703	18081	5.5	<None>	<Collection: 1 item>	6.2	168.8	70.8		37111	P-88	182	37109: J-137	15259: 17296	8	PVC	130	FALSE	0	-89.73	0.57	0	TRUE	181	89.73						
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14760	18245	1.5	<None>	<Collection: 1 item>	4.72	166.5	71.5		22509	20809	11	6398: 18474	5004: 18475	6	AC	130	FALSE	0	0.42	0	0	TRUE	11	0.42						
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303	18585	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		27895	16525	23	16017: 17193	12812: 17194	6	AC	130	FALSE		0	2.47	0.03	0	TRUE	23	2.47					
304	18685	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		30148	16524	377	16017: 17193	6602: 17197	6	AC	130	FALSE		0	6.53	0.07	0	TRUE	377	6.53					
306	18185	4.9	<None>	<Collection: 1 item>	0.42	166.5	70		31081	16523	12	15166: 17165	11929: 17169	6	AC	130	FALSE		0	-5.51	0.06	0	TRUE	12	5.51					
307	18285	1.8	<None>	<Collection: 1 item>	0.42	166.4	71.4		22361	16522	14	10627: 17114	3363: 17121	6	AC	130	FALSE		0	2.47	0.03	0	TRUE	14	2.47					
308	18385	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		32714	16521	363	14548: 17295	2851: 190740	8	AC	130	FALSE		0	21.38	0.14	0	TRUE	389	21.38					
335	18410	2.4	<None>	<Collection: 1 item>	0.42	166.3	71.1		17850	16520	204	15735: 17108	16436: 17207	8	AC	130	FALSE		0	-50.39	0.32	0	TRUE	204	50.39					
336	18510	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		20227	16519	31	8565: 17106	2725: 17133	6	AC	130	FALSE		0	2.47	0.03	0	TRUE	31	2.47					
341	18210	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		30541	16518	93	2724: 17033	16638: 17107	8	AC	130	FALSE		0	19.7	0.13	0	TRUE	93	19.7					
353	18422	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		23107	16517	691	6601: 17097	8094: 17450	12	AC	130	FALSE		0	48.76	0.14	0	TRUE	691	48.76					
358	18222	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		33525	16516	106	9933: 17024	16347: 17104	12	AC	130	FALSE		0	-13.01	0.04	0	TRUE	106	13.01					
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476	18442	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		39139	16514(2)	269	39137: J-671	15923: 17066	12	AC	130	FALSE		0	406.39	1.15	0	TRUE	269	406.39					
477	18542	1.5	<None>	<Collection: 1 item>	0.42	166.1	71.4		39138	16514(1)	192	8777: 17076	39137: J-671	12	AC	130	FALSE		0	305.29	0.87	0	TRUE	192	305.29					
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608	18229	1.4	<None>	<Collection: 1 item>	0.42	166.4	71.5		23932	16504	13	9933: 17024	9373: 17028	6	AC	130	FALSE		0	2.47	0.03	0	TRUE	13	2.47					
692	18425	5	<None>	<Collection: 1 item>	0.42	166.4	69.9		24871	16503	57	11038: 16999	13877: 17031	8	AC	130	FALSE		0	2.47	0.02	0	TRUE	57	2.47					
693	18525	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		32216	16501	25	11038: 16999	5048: 17000	6	AC	130	FALSE		0	2.47	0.03	0	TRUE	25	2.47					
697	18225	2.8	<None>	<Collection: 1 item>	0.42	166.5	70.9		19520	16500	48	13312: 16991	14006: 16992	8	AC	130	FALSE		0	19.75	0.13	0	TRUE	48	19.75					
777	18044	1.2	<None>	<Collection: 1 item>	0.42	166.6	71.7		33975	16499	321	9933: 17024	7549: 16872	12	AC	130	FALSE		0	8.07	0.02	0	TRUE	321	8.07					
778	18144	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		21190	16498	32	4682: 16979	14006: 16992	6	AC	130	FALSE		0	-2.47	0.03	0	TRUE	32	2.47					
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884	17915	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		30624	16495	268	3860: 16985	4601: 16986	8	AC	130	FALSE		0	69.07	0.44	0	TRUE	268	69.07					
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1003	18586	20	<None>	<Collection: 1 item>	0.42	166.2	63.4		25120	16492	45	5082: 16970	15826: 16993	6	AC	130	FALSE		0	-12.34	0.14	0	TRUE	45	12.34					
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1131	18332	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		29773	16484	12	14644: 16862	10489: 16863	6	AC	130	FALSE		0	2.47	0.03	0	TRUE	12	2.47					
1206	18406	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		29333	16481	342	568: 16842	13312: 16991	6	AC	130	FALSE		0	-7.41	0.08	0	TRUE	342	7.41					
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1229	18419	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		28557	6957	7	6616: 18547	12985: 18544	16	AC	130	FALSE		0	-284.62	0.45	0	TRUE	7	284.62					
1349	18488	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		25471	6956	17	6645: 18551	6616: 18547	16	AC	130	FALSE		0	-252.51	0.4	0	TRUE	17	252.51					
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1355	18288	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		19280	6954	394	6825: 18477	12200: 18438	8	AC	130	FALSE		0	9.13	0.06	0	TRUE	394	9.13					
1417	18426	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		35176	6953	447	6313: 18415	10219: 18463	8	AC	130	FALSE		0	24.12	0.15	0	TRUE	447	24.12					
1418	18526	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		32043	6952	630	10890: 18434	6236: 18359	16	AC	130	FALSE		0	-357.48	0.57	0	TRUE	630	357.48					
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1619	17916	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		25807	6950	379	17469: 18379	6313: 18415	8	AC	130	FALSE		0	-31.23	0.2	0	TRUE	379	31.23					
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1733	18166	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		19279	6944	35	9066: 18353	7323: 18352	8	AC	130	FALSE	0	-1.46	0.01	0	TRUE	35	1.46					
1755	18428	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		35175	6943	103	7323: 18352	6651: 18351	8	AC	130	FALSE	0	-7.37	0.05	0	TRUE	103	7.37					
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2223	18405	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		26338	6939	3	2494: 18274	4297: 18275	8	AC	130	FALSE	0	-3.41	0.02	0	TRUE	3	3.41					
2279	17984	1.2	<None>	<Collection: 1 item>	0.42	166.6	71.7		21956	6938	18	4297: 18275	5580: 18269	16	AC	130	FALSE	0	-400.87	0.64	0	TRUE	18	400.87					
2495	18374	1.4	<None>	<Collection: 1 item>	0.42	166.3	71.5		19960	6936	206	5580: 18269	7291: 18268	8	AC	130	FALSE	0	54.48	0.35	0	TRUE	206	54.48					
2629	18608	1.5	<None>	<Collection: 1 item>	0.42	166.1	71.4		33299	6935	40	5580: 18269	11785: 18249	16	AC	130	FALSE	0	-455.35	0.73	0	TRUE	40	455.35					
2667	18388	2.1	<None>	<Collection: 1 item>	0.42	166.3	71.2		27578	6934	195	7291: 18268	8257: 18267	8	AC	130	FALSE	0	51.07	0.33	0	TRUE	195	51.07					
2736	18487	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		30564	6933	152	8257: 18267	5757: 18266	8	AC	130	FALSE	0	47.66	0.3	0	TRUE	152	47.66					
2738	18687	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		28901	6931	147	11287: 18265	9448: 18264	8	AC	130	FALSE	0	40.84	0.26	0	TRUE	147	40.84					
2740	18287	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		22861	6930	143	9448: 18264	10222: 18263	8	AC	130	FALSE	0	34.02	0.22	0	TRUE	143	34.02					
2741	18387	2.1	<None>	<Collection: 1 item>	0.42	166.3	71.2		26337	6929	117	10222: 18263	11672: 18262	8	AC	130	FALSE	0	30.61	0.2	0	TRUE	117	30.61					
2912	17879	4.3	<None>	<Collection: 1 item>	0.42	166.5	70.3		21955	6928	210	3764: 18248	13430: 18247	8	AC	130	FALSE	0	15.65	0.1	0	TRUE	210	15.65					
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2954	18301	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		31280	6918	389	16236: 18143	853: 18209	8	AC	130	FALSE	0	46.79	0.3	0	TRUE	389	46.79					
2965	18634	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		32040	6912	127	2377: 18156	15181: 18179	16	AC	130	FALSE	0	525.92	0.84	0	TRUE	127	525.92					
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3107	18427	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		24878	6910	176	5009: 18175	13603: 18176	8	AC	130	FALSE	0	-40.07	0.26	0	TRUE	176	40.07					
3112	18227	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		20167	6909	164	6402: 18174	5009: 18175	8	AC	130	FALSE	0	-37.36	0.24	0	TRUE	164	37.36					
3134	18071	1.4	<None>	<Collection: 1 item>	0.42	166.6	71.6		31279	6908	113	3902: 18172	5780: 18173	8	AC	130	FALSE	0	-33.47	0.21	0	TRUE	113	33.47					
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3357	17821	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.6		32182	6906	65	3874: 18120	16236: 18143	8	AC	130	FALSE	0	47.63	0.3	0	TRUE	65	47.63					
3402	18513	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		33300	6905	1	1759: 18128	607: 18129	12	AC	130	FALSE	0	0	0	0	TRUE	1	0					
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3466	18380	2	<None>	<Collection: 1 item>	0.42	166.30	71.2		35256	6902	109	16386: 18124	5690: 18125	12	AC	130	FALSE	0	-139.89	0.4	0	TRUE	109	139.89					
3691	18302	6	<None>	<Collection: 1 item>	0.42	166.4	69.5		28902	6901	162	8487: 18123	16386: 18124	12	AC	130	FALSE	0	-136	0.39	0	TRUE	162	136					
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3901	18072	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		19336	6898	259	13268: 18097	14376: 18030	16	AC	130	FALSE	0	-636.52	1.02	0	TRUE	259	636.52					
3986	18420	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		20185	6897	17	5578: 18069	11338: 18068	6	AC	130	FALSE	0	-3.87	0.04	0	TRUE	17	3.87					
4064	17985	1.2	<None>	<Collection: 1 item>	0.42	166.6	71.7		32093	6896	183	11338: 18068	13853: 18067	6	AC	130	FALSE	0	-7.76	0.09	0	TRUE	183	7.76					
4077	18305	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		34554	6895	57	14376: 18030	5689: 18025	16	AC	130	FALSE	0	-591.79	0.94	0	TRUE	57	591.79					
4128	17822	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		26364	6894	228	1758: 18028	3110: 18027	8	AC	130	FALSE	0	-3.89	0.02	0	TRUE	228	3.89					
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5020	18476	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		20184	6887	6	79: 17958	12262: 17956	16	AC	130	FALSE	0	-751.01	1.2	0	TRUE	6	751.01					
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5182	18308	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		25955	6884	14	14604: 17932	16415: 17933	6	AC	130	FALSE	0	-9.47	0.11	0	TRUE	14	9.47					
5499	18350	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		21620	6883	14	13870: 17931	16415: 17933	6	AC	130	FALSE	0	-9.48	0.11	0	TRUE	14	9.48					
5576	18669	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		28775	6882	0	14604: 17932	13870: 17931	6	AC	130	FALSE	0	1.7	0.02	0	TRUE	0	1.7					
5579	18169	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		28084	6881	57	17319: 17911	533: 17912	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	57	1.94					
5779	18073	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		27433	6880	398	12803: 17894	746: 17842	8	AC	130	FALSE	0	5.83	0.04	0	TRUE	398	5.83					
5831	18378	4	<None>	<Collection: 1 item>	0.42	166.4	70.4		28919	6879	308	7712: 17872	6374: 17888	6	AC	130	FALSE	0	14.92	0.17	0	TRUE	308	14.92					
5978	18654	1.5	<None>	<Collection: 1 item>	0.42	166	71.3		24563	6878	17	7983: 17878	5554: 17883	6	AC	130	FALSE	0	-32.41	0.37	0	TRUE	17	32.41					
6047	18413	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		35232	6877	6	8770: 17876	7983: 17878	6	AC	130	FALSE	0	-30.47	0.35	0	TRUE	6	30.47					
6225	18478	2.5	<None>	<Collection: 1 item>	0.42	166.3	71		34808	6876	3	15262: 17877	8770: 17876	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	3	1.94					
6226	18578	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		28981	6875	267	8770: 17876	9474: 17873	6	AC	130	FALSE	0	26.58	0.3	0	TRUE	267	26.58					
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6271	18503	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		22771	6873	9	3585: 17829	13869: 17831	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	9	1.94					
6313	18415	4.1	<None>	<Collection: 1 item>	0.42	166.3	70.3		19731	6872	3	5236: 17826	7030: 17827	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	3	1.94					
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6315	18615	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		32489	6870	108	16786: 17730	3592: 17729	8	AC	130	FALSE	0	-94.52	0.6	0	TRUE	108	94.52					
6350	17874	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		28918	6869	150	5619: 17728	5241: 17726	8	AC	130	FALSE	0	-58.14	0.37	0	TRUE	150	58.14					
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6401	18074	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		21128	6866	944	10806: 17619	6626: 17187	16	AC	130	FALSE	0	-695.07	1.11	0	TRUE	944	695.07					
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6632	18307	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		22770	6863	118	6223: 17498	15086: 17558	8	AC	130	FALSE	0	79.07	0.5	0	TRUE	118	79.07					
6646	18651	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		19730	6862	259	748: 17542	9057: 17538	6	AC	130	FALSE	0	-4.44	0.05	0	TRUE	259	4.44					
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6767	18504	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		24565	6858	250	3888: 17382	3809: 17383	6	AC	130	FALSE	0	52.67	0.6	0	TRUE	250	52.67					
6825	18477	2.6	<None>	<Collection: 1 item>	0.42	166.3	71		35234	6857	250	9124: 17378	2950: 17381	8	AC	130	FALSE	0	64.52	0.41	0	TRUE	250	64.52					
6826	18577	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		32101	6856	202	8780: 17376	9124: 17378	8	AC	130	FALSE	0	70.45	0.45	0	TRUE	202	70.45					
6900	18538	1.5	<None>	<Collection: 1 item>	0.42	166.1	71.4		28983	6855	60	6626: 17187	9953: 17154	16	AC	130	FALSE	0	-565.75	0.9	0	TRUE	60	565.75					
7031	17927	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		25893	6854	500	2286: 17184	4071: 17185	12	AC	130	FALSE	0	-106.34	0.3	0	TRUE	500	106.34					
7055	17871	1.2	<None>	<Collection: 1 item>	0.42	166.6	71.7		22773	6853	84	4005: 17157	81: 17158	8	AC	130	FALSE	0	-143.46	0.92	0.001	TRUE	84	143.46					
7066	18418	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		19733	6852	5	81: 17158	8592: 17150	8	AC	130	FALSE	0	-209.52	1.34	0.001	TRUE	5	209.52					
7312	18300	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		31848	6851	61	12269: 17156	4005: 17157	8	AC	130	FALSE	0	-86.68	0.55	0	TRUE	61	86.68					
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7319	18512	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		28920	6849	15	8592: 17150	10365: 17151	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	15	1.48					
7320	18612	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		24564	6848	23	10300: 17112	15490: 17110	6	AC	130	FALSE	0	3.27	0.04	0	TRUE	23	3.27					
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7501	18070	1.7	<None>	<Collection: 1 item>	0.42	166.6	71.5		32100	6846	40	12295: 17060	42: 17041	8	AC	130	FALSE	0	-240.11	1.53	0.001	TRUE	40	240.11					
7615	18414	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		28982	6845	250	42: 17041	15702: 17040	6	AC	130	FALSE	0	-45.12	0.51	0	TRUE	250	45.12					
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7920	17996	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		22772	6843	338	724: 16915	3137: 16917	6	AC	130	FALSE	0	4.44	0.05	0	TRUE	338	4.44					
7945	18046	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		19732	6842	253	2126: 16784	16915: 16914	6	AC	130	FALSE	0	85.32	0.97	0.001	TRUE	253	85.32					
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7984	17978	1.6	<None>	<Collection: 1 item>	0.42	166.6	71.6		21869	6566	206	11054: 18535	11840: 18536	12	AC	130	FALSE	0	-155.5	0.44	0	TRUE	206	155.5					
8256	18667	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		33781	6565	217	9221: 18534	11054: 18535	12	AC	130	FALSE	0	-155.5	0.44	0	TRUE	217	155.5					
8265	18168	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		30629	6564	146	477: 18542	517: 18540	12	AC	130	FALSE	0	-115.98	0.33	0	TRUE	146	115.98					
8360	18456	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		27507	6563	114	16999: 18539	477: 18542	12	AC	130	FALSE	0	-115.13	0.33	0	TRUE	114	115.13					
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8488	18223	4.1	<None>	<Collection: 1 item>	0.42	166.5	70.4		18254	6560	8	17438: 18682	1713: 18683	16	AC	130	FALSE	0	81.33	0.13	0	TRUE	8	81.33					
8517	18519	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.4		27156	6559	633	17438: 18682	11783: 18649	16	AC	130	FALSE	0	-252.51	0.4	0	TRUE	633	252.51					
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8705	18658	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		27510	6553	477	8820: 18666	10270: 18668	8	AC	130	FALSE	0	-1.77	0.01	0	TRUE	477	1.77					
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9062	18653	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		27155	6549	28	8705: 18658	8866: 18660	12	AC	130	FALSE	0	101.1	0.29	0	TRUE	28	101.1					
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9226	18334	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		17890	6546	422	2936: 18606	478: 18642	8	AC	130	FALSE	0	35.69	0.23	0	TRUE	422	35.69					
9322	17981	2.3	<None>	<Collection: 1 item>	0.42	166.6	71.2		33783	6545	52	6901: 18638	1757: 18628	6	AC	130	FALSE	0	8.49	0.1	0	TRUE	52	8.49					
9475	17973	1.2	<None>	<Collection: 1 item>	0.42	166.6	71.7		30631	6544	255	2965: 18634	7320: 18612	6	AC	130	FALSE	0	3.91	0.04	0	TRUE	255	3.91					
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12611	18633	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		21418	6495	144	13007: 18502	6271: 18503	8	AC	130	FALSE	0	32.48	0.21	0	TRUE	144	32.48						
12615	18333	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		34680	6494	324	17436: 18482	13007: 18502	8	AC	130	FALSE	0	20.18	0.13	0	TRUE	324	20.18						
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15618	18218	3.6	<None>	<Collection: 1 item>	0.42	166.5	70.6		27994	6441	276	14172: 17992	7945: 18046	8	AC	130	FALSE	0	26.44	0.17	0	TRUE	276	26.44						
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15982	18184	5.6	<None>	<Collection: 1 item>	0.42	166.5	69.7		26806	6434	241	7977: 17975	7984: 17978	8	AC	130	FALSE	0	-90.64	0.58	0	TRUE	241	90.64						
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16020	18113	4.8	<None>	<Collection: 1 item>	0.42	166.5	70.1		21522	6431	181	13671: 17965	7516: 17902	8	AC	130	FALSE	0	7.77	0.05	0	TRUE	181	7.77						
16236	18143	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		33249	6428	5	11764: 17899	7919: 17896	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	5	1.94						
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16559	17917	2.2	<None>	<Collection: 1 item>	0.42	166.5	71.3		26353	6423	21	847: 17089	8966: 17113	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	21	1.48						
16625	17863	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		25865	6422	70	5618: 17628	11135: 17632	8	PVC	130	FALSE	0	-1.18	0.01	0	TRUE	70	1.18						
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									20991	4808	7	14873: 17649	8096: 17650	6	AC	130	FALSE	0	2.47	0.03	0	TRUE	7	2.47									
									33796	4806	3	1119: 17645	3776: 17644	8	AC	130	FALSE	0	31.73	0.2	0	TRUE	3	31.73									
									30646	4805	91	3776: 17644	977: 17643	8	AC	130	FALSE	0	26.79	0.17	0	TRUE	91	26.79									
									27529	4804	29	14467: 17568	6353: 17574	8	AC	130	FALSE	0	-68.29	0.44	0	TRUE	29	68.29									
									21354	4802	208	7058: 17471	14467: 17568	8	AC	130	FALSE	0	-63.36	0.4	0	TRUE	208	63.36									
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									34178	4800	15	8094: 17450	12291: 17460	12	AC	130	FALSE	0	2.47	0.01	0	TRUE	15	2.47									
									26727	4799	14	17550: 17441	10360: 17451	6	AC	130	FALSE	0	13.21	0.15	0	TRUE	14	13.21									
									21438	4798	285	6111: 17306	17550: 17441	6	AC	130	FALSE	0	18.73	0.21	0	TRUE	285	18.73									
									17988	4797	301	15488: 17439	13463: 17291	6	AC	130	FALSE	0	3.35	0.04	0	TRUE	301	3.35									
									36083	4796	236	894: 17315	4141: 17432	6	AC	130	FALSE	0	-16.4	0.19	0	TRUE	236	16.4									
									32988	4795	277	16017: 17193	894: 17315	6	AC	130	FALSE	0	-11.47	0.13	0	TRUE	277	11.47									
									29863	4794	17	6603: 17297	6111: 17306	6	AC	130	FALSE	0	29.75	0.34	0	TRUE	17	29.75									
									26746	4793	285	11929: 17169	6603: 17297	6	AC	130	FALSE	0	40.78	0.46	0	TRUE	285	40.78									
									23623	4792	127	15259: 17296	14548: 17295	8	AC	130	FALSE	0	-117.29	0.75	0	TRUE	127	117.29									
									29609	4791	655	15735: 17108	10627: 17114	12	AC	130	FALSE	0	328.75	0.93	0	TRUE	655	328.75									
									36438	4790	9	16638: 17107	15735: 17108	12	AC	130	FALSE	0	280.83	0.8	0	TRUE	9	280.83									
									26726	4789	59	8565: 17106	16638: 17107	12	AC	130	FALSE	0	263.61	0.75	0	TRUE	59	263.61									
									21437	4788	475	16347: 17104	8565: 17106	12	AC	130	FALSE	0	268.54	0.76	0	TRUE	475	268.54									
									34751	4787	39	6601: 17097	16347: 17104	12	AC	130	FALSE	0	284.02	0.81	0	TRUE	39	284.02									
									36082	4786	82	8058: 17075	8777: 17076	12	AC	130	FALSE	0	357.1	1.01	0	TRUE	82	357.1									
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									29608	4781	208	14006: 16992	15826: 16993	8	AC	130	FALSE	0	14.81	0.09	0	TRUE	208	14.81									
									36437	4780	52	4601: 16986	6445: 16987	8	AC	130	FALSE	0	61.67	0.39	0	TRUE	52	61.67									
									20216	4777	220	5082: 16970	14644: 16862	6	AC	130	FALSE	0	7.41	0.08	0	TRUE	220	7.41									
									34055	4772	20	7549: 16872	12114: 16860	12	AC	130	FALSE	0	-1.81	0.01	0	TRUE	20	1.81									

Baseline	2,700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
16997	12469	71.6	<None>	<Collection: 1 item>	43.94	239.3	72.7		25966	P605	136	1504: 16319	7599: 190832	8		130	FALSE	0	-47.58	0.3	0	TRUE	136	47.58				Pressure		
178	11914	31.5	<None>	<Collection: 1 item>	38.79	168.2	59.3		26847	P603	426	3736: 15021	5448: 14870	8	PVC	130	FALSE	0	-114.08	0.73	0	TRUE	426	114.08				Average	59.3875	
1293	14945	26.5	<None>	<Collection: 1 item>	32.28	166.9	60.9		39165	P601(2)	654	39163: J-681	6858: 15858	8	PVC	130	FALSE	0	-54.33	0.35	0	TRUE	653	54.33				Minimum	0	
3582	12178	33.8	<None>	<Collection: 1 item>	32.28	168.1	58.2		39164	P601(1)	635	15763: J404	39163: J-681	8	PVC	130	FALSE	0	-21.57	0.14	0	TRUE	639	21.57				Maximum	101.1	
4442	13482	31.5	<None>	<Collection: 1 item>	32.28	168.3	59.3		17820	P599	43	1668: 16246	15763: J404	8	PVC	130	FALSE	0	-25.03	0.16	0	TRUE	64	25.03				Velocity		
4509	15122	26.4	<None>	<Collection: 1 item>	32.28	166.9	60.9		31354	P597	322	15763: J404	13242: 16102	8	PVC	130	FALSE	0	-3.46	0.02	0	TRUE	257	3.46				Average	0.43984	
4865	15125	26.6	<None>	<Collection: 1 item>	32.28	166.9	60.8		36477	P595	789	15510: 12747	12255: 13255	12	PVC	130	FALSE	0	406.78	1.15	0	TRUE	789	406.78				Minimum	0	
5222	12309	31.7	<None>	<Collection: 1 item>	32.28	167.5	58.9		19083	P581	157	10916: 13333	7534: 13353	6		130	FALSE	0	80.42	0.91	0.001	TRUE	157	80.42				Maximum	14.84	
5945	15083	25.7	<None>	<Collection: 1 item>	32.28	166.9	61.2		33941	P577	36	12263: J396	13886: 13509	12	PVC	130	FALSE	0	-574.51	1.63	0.001	TRUE	36	574.51				Flow		
7042	12358	31.4	<None>	<Collection: 1 item>	32.28	167.5	59		33035	P575	3	15669: J394	7680: 14602	8		130	FALSE	0	154.65	0.99	0.001	TRUE	3	154.65				Average	134.539	
8738	14006	35.4	<None>	<Collection: 1 item>	32.28	173.3	59.8		33788	P573	50	17322: 14640	15669: J394	12	AC	130	FALSE	0	-513.46	1.46	0.001	TRUE	50	513.46				Minimum	0	
9073	12406	30.4	<None>	<Collection: 1 item>	32.28	167.5	59.5		27515	P561	322	2167: 11745	14073: 11762	6	AC	130	FALSE	0	-127.11	1.44	0.002	TRUE	322	127.11				Maximum	6443.35	
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11614	15099	25.6	<None>	<Collection: 1 item>	32.28	166.9	61.3		33790	P553	3	10451: J386	537: 11728	14		130	FALSE	0	648.14	1.35	0.001	TRUE	3	648.14						
11899	15355	25.3	<None>	<Collection: 1 item>	32.28	167.1	61.5		20692	P551	17	10451: J386	7872: 11753	6	AC	130	FALSE	0	0.00	0	0	TRUE	17	0						
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16239	13610	31.5	<None>	<Collection: 1 item>	32.28	168.2	59.3		19812	P483	56	4237: J328	7985: J344	8		130	FALSE	0	16.28	0.1	0	TRUE	90	16.28						
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14727	14595	28.8	<None>	<Collection: 1 item>	32.27	167.9	60.3		21048	P479	343	2785: J330	4237: J328	8		130	FALSE	0	-62.99	0.4	0	TRUE	300	62.99						
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8197	13602	29.8	<None>	<Collection: 1 item>	22.73	168	59.9		27602	P465	364	5017: J340	1212: J338	8		130	FALSE	0	75.65	0.48	0	TRUE	360	75.65						
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9116	13439	41.3	<None>	<Collection: 1 item>	22.73	168.4	55.1		18417	P459	20	15904: 12349	8135: J322	8	AC	130	FALSE	0	-40.96	0.26	0	TRUE	20	40.96						
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2785	J330	79	<None>	<Collection: 1 item>	16.28	239.7	69.7		23705	P373	390	13313: J262	3969: J250	8		130	FALSE	0	-27.11	0.17	0	TRUE	390	27.11						
3308	J342	80	<None>	<Collection: 1 item>	16.28	239.8	69.3		36519	P371	180	3968: J240	13313: J262	8		130	FALSE	0	-81.06	0.52	0	TRUE	180	81.06						
4237	J328	82	<None>	<Collection: 1 item>	16.28	239.7	68.4		29658	P369	179	12917: J248	8989: J246	8		130	FALSE	0	36.62	0.23	0	TRUE	179	36.62						
5017	J340	81	<None>	<Collection: 1 item>	16.28	239.8	68.8		33593	P367	836	3968: J240	12917: J248	8		130	FALSE	0	44.81	0.29	0	TRUE	836	44.81						
7985	J344	82	<None>	<Collection: 1 item>	16.28	239.7	68.4		21805	P365	750	15328: J244	12923: J238	8		130	FALSE	0	-8.03	0.05	0	TRUE	750	8.03						
7992	J334	73	<None>	<Collection: 1 item>	16.28	239.7	72.3		35945	P363	640	4065: J242	15328: J244	8		130	FALSE	0	0.16	0	0	TRUE	640	0.16						
10456	J326	84	<None>	<Collection: 1 item>	16.28	239.8	67.5		18530	P361	400	2082: J236	4065: J242	8		130	FALSE	0	8.36	0.05	0	TRUE	400	8.36						
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11346	J336	77	<None>	<Collection: 1 item>	16.28	239.7	70.5		34874	P357	220	12406: J232	3228: J234	6		130	FALSE	0	8.19	0.09	0	TRUE	220	8.19						
12265	J346	79	<None>	<Collection: 1 item>	16.28	239.7	69.7		29939	P355	393	3968: J240	12406: J232	8		130	FALSE	0	2.84	0.02	0	TRUE	393	2.84						
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397	12323	73.7	<None>	<Collection: 1 item>	8.62	239.7	72		33435	P209	500	16671: J120	7340: J118	8		130	FALSE	0	-24.85	0.16	0	TRUE	500	24.85						
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8650	11874	103.2	<None>	<Collection: 1 item>	8.62	239.9	59.3		32588	P203	150	11224: J92	10996: J112	8		130	FALSE	0	-13.65	0.09	0	TRUE	150	13.65						
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2005	15220	30	<None>	<Collection: 1 item>	8.38	169.5	60.5		26430	P199	20	1258: J108	16670: J110	8		130	FALSE	0	0.00	0	0	TRUE	20	0						
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13740	15364	31.2	<None>	<Collection: 1 item>	8.38	168.6	59.6		27882	P195	123	8860: J102	6413: J116	8		130	FALSE	0	-8.69	0.06	0	TRUE	123	8.69						
15380	15222	30	<None>	<Collection: 1 item>	8.38	169.5	60.5		24082	P193	20	4815: J104	6412: J106	8		130	FALSE	0	0	0	0	TRUE	20	0						
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3227	J224	33	<None>	<Collection: 1 item>	8.19	168.2	58.6		26429	P189	50	11216: J98	8860: J102	8		130	FALSE	0	-3.22	0.02	0	TRUE	50	3.22						
3228	J234	33	<None>	<Collection: 1 item>	8.19	168.2	58.6		17702	P187	20	11216: J98	17380: J100	8		130	FALSE	0	0	0	0	TRUE	20	0						
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3969	J250	33	<None>	<Collection: 1 item>	8.19	168.2	58.6		24081	P183	125	6925: J94	17374: J114	8		130	FALSE	0	2.24	0.01	0	TRUE	125	2.24						
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12274	13467	45.6	<None>	<Collection: 1 item>	0	0	0		21046		3349	231	1816: 13345		4142: 13473	8	PVC	130	FALSE		0	162.32	1.04	0.001	TRUE		231	162.32									
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Baseline	2.700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
4092	2217	11.4	<None>	<Collection: 1 item>	16.95	180.5	73.3		33248	P751	159	5100: J410	12913: J516	12	AC	130	FALSE	0	520.56	1.48	0.001	TRUE	159	520.56				Pressure	
12162	2512	7.1	<None>	<Collection: 1 item>	16.95	177.5	73.9		20906	P641	171	7646: J428	5102: J430	8		130	FALSE	0	-48.24	0.31	0	TRUE	171	48.24				Average	69.8596
596	4797	12.5	<None>	<Collection: 1 item>	9.34	175.3	70.6		34261	P639	45	5102: J430	2197: J418	8		130	FALSE	0	53.88	0.34	0	TRUE	45	53.88				Minimum	0
2711	4402	11.7	<None>	<Collection: 1 item>	9.34	175.6	71		25419	P637	50	7646: J428	6138: J426	8		130	FALSE	0	41.19	0.26	0	TRUE	50	41.19				Maximum	80.1
3962	4775	12.1	<None>	<Collection: 1 item>	9.34	175.3	70.8		35629	P635	289	15765: J424	7646: J428	8		130	FALSE	0	-7.05	0.05	0	TRUE	289	7.05				Velocity	
10858	4344	6.4	<None>	<Collection: 1 item>	9.34	172.3	71.9		26846	P633	263	1694: J422	15765: J424	8		130	FALSE	0	-7.05	0.05	0	TRUE	263	7.05				Average	0.32753
10968	4774	12.1	<None>	<Collection: 1 item>	9.34	175.3	70.8		18115	P631	50	5101: J420	1694: J422	8		130	FALSE	0	31.66	0.2	0	TRUE	50	31.66				Minimum	0
4816	7287	1.5	<None>	<Collection: 1 item>	8.44	171.3	73.6		29546	P629	207	15764: J414	5101: J420	8		130	FALSE	0	31.66	0.2	0	TRUE	207	31.66				Maximum	4.59
1590	5099	16.5	<None>	<Collection: 1 item>	7.67	173.9	68.2		25418	P627	489	1521: J416	5102: J430	8		130	FALSE	0	102.12	0.65	0	TRUE	489	102.12				Flow	
6084	4835	11.4	<None>	<Collection: 1 item>	7.67	173.8	70.4		35628	P625	13	2211: 7357	1521: J416	12	AC	130	FALSE	0	106.21	0.3	0	TRUE	13	106.21				Average	70.7589
5701	3427	2.3	<None>	<Collection: 1 item>	7.54	170.1	72.7		26845	P623	104	13102: 7353	15764: J414	12	AC	130	FALSE	0	-277.18	0.79	0	TRUE	104	277.18				Minimum	0
14696	3468	1.5	<None>	<Collection: 1 item>	7.54	170.1	73.1		36492	P621	142	6615: 7338	1693: J412	12	AC	130	FALSE	0	298.03	0.85	0	TRUE	142	298.03				Maximum	1624.51
2078	3432	6.5	<None>	<Collection: 1 item>	7.33	177.5	74.1		30169	P619	174	16474: 7331	5100: J410	12	AC	130	FALSE	0	530.02	1.5	0.001	TRUE	174	530.02					
9210	3245	4.2	<None>	<Collection: 1 item>	7.33	169.9	71.9		25420	P607	60	16485: 7067	6136: J406	6	AC	130	FALSE	0	-5.4	0.06	0	TRUE	60	5.4					
12424	3534	1.5	<None>	<Collection: 1 item>	7.33	171.4	73.7		20689	P531	149	8162: 7285	1208: J378	14	AC	130	FALSE	0	696.9	1.45	0.001	TRUE	149	696.9					
3964	4715	6.6	<None>	<Collection: 1 item>	6.37	173.7	72.4		17822	P529	400	10454: J376	5474: 3480	8	AC	130	FALSE	0	-21.60	0.14	0	TRUE	400	21.6					
5659	4796	8.1	<None>	<Collection: 1 item>	6.37	173.7	71.8		29670	P527	11	7988: J374	2251: 5197	6	AC	130	FALSE	0	-84.36	0.96	0.001	TRUE	11	84.36					
12038	4650	6.5	<None>	<Collection: 1 item>	6.37	173.7	72.5		36478	P525	151	14449: 4992	11195: J372	6	AC	130	FALSE	0	-5.1	0.06	0	TRUE	151	5.1					
1912	J316	5	<None>	<Collection: 1 item>	6.2	170.1	71.6		33784	P523	204	2277: 3252	16192: 3231	8		130	FALSE	0	6.2	0.04	0	TRUE	204	6.2					
657	4762	11	<None>	<Collection: 1 item>	6.19	170.1	69		27511	P521	339	1539: 4553	16128: 4719	8		130	FALSE	0	14.92	0.1	0	TRUE	339	14.92					
767	4077	-3.5	<None>	<Collection: 1 item>	6.19	170.1	75.2		21811	P455	322	2669: J318	9488: 190818	6		130	FALSE	0	-13.21	0.15	0	TRUE	310	13.21					
796	7298	9.3	<None>	<Collection: 1 item>	6.19	170.6	69.9		30466	P35	329	9053: 5213	2118: 5220	8		130	FALSE	0	-168.65	1.08	0.001	TRUE	329	168.65					
1844	6638	7.9	<None>	<Collection: 1 item>	6.19	170.4	70.4		19174	P33	333	8646: 5209	9053: 5213	8		130	FALSE	0	-151.23	0.97	0.001	TRUE	333	151.23					
2040	4243	-3.5	<None>	<Collection: 1 item>	6.19	170.1	75.2		24026	P29	73	3299: J14	2051: 6012	6		130	FALSE	0	-2.68	0.03	0	TRUE	73	2.68					
2105	6030	5.9	<None>	<Collection: 1 item>	6.19	170.3	71.2		19797	P27	439	10330: 5612	3299: J14	6		130	FALSE	0	-48.03	0.54	0	TRUE	439	48.03					
2228	4181	-3.5	<None>	<Collection: 1 item>	6.19	170.1	75.2		21900	P25	215	3299: J14	12727: 6014	8	AC	130	FALSE	0	-178.13	1.14	0.001	TRUE	215	178.13					
2669	J318	5	<None>	<Collection: 1 item>	6.19	170.1	71.6		39388	P-1062	51	13041: 3916	39387: J-760	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
4557	5422	8.9	<None>	<Collection: 1 item>	6.19	170.2	69.9		39386	P-1061	56	5528: 4080	39385: J-759	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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4876	6418	6.1	<None>	<Collection: 1 item>	6.19	170.3	71.2		39382	P-1059	47	1138: 4559	39381: J-757	6	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0					
4976	6782	6.5	<None>	<Collection: 1 item>	6.19	170.4	71.1		39380	P-1058	31	1192: 4649	39379: J-756	6	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0					
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5144	4584	-3.5	<None>	<Collection: 1 item>	6.19	170.1	75.3		39374	P-1055	28	13230: 4413	39373: J-753	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
5308	5023	7.5	<None>	<Collection: 1 item>	6.19	170.1	70.5		39372	P-1054	35	11061: 4439	39371: J-752	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
5480	7296	6.5	<None>	<Collection: 1 item>	6.19	170.6	71.2		39370	P-1053	51	2440: 4237	39369: J-751	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
5758	5245	9	<None>	<Collection: 1 item>	6.19	170.1	69.8		39368	P-1052	49	7403: 4069	39367: J-750	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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7583	5163	7.1	<None>	<Collection: 1 item>	6.19	170.1	70.7		38857	P-886	177	38855: J-570	38839: J-563	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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8112	5457	6.5	<None>	<Collection: 1 item>	6.19	170.2	71		38850	P-882	141	38830: J-559	38849: J-567	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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10604	6528	6.1	<None>	<Collection: 1 item>	6.19	170.3	71.2		38808	P-859	6	38805: J-547	38807: J-548	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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13533	6115	6	<None>	<Collection: 1 item>	6.19	170.3	71.2		38632	P-746	1	38607: J-479	38629: J-487	6	PVC	130	FALSE	0	-7.32	0.08	0	FALSE	0	7.32					
13551	6704	6.4	<None>	<Collection: 1 item>	6.19	170.4	71.1		38631	P-745	232	38629: J-487	38602: J-477	6		130	FALSE	0	-0.82	0.01	0	TRUE	232	0.82					
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13932	5674	8.5	<None>	<Collection: 1 item>	6.19	170.3	70.1		38626	P-742	131	38624: J-485	38588: J-473	12	PVC	130	FALSE	0	-108.37	0.31	0	FALSE	0	108.37					
13953	4974	11	<None>	<Collection: 1 item>	6.19	170.1	69		38625	P-741	7	38584: J-472	38624: J-485	12	PVC	130	FALSE	0	-108.37	0.31	0	FALSE	0	108.37					
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16505	6258	6	<None>	<Collection: 1 item>	6.19	170.3	71.2		38618	P-737	4	2711: 4402	38617: J-482	4	AC	120	FALSE	0	0	0	0	FALSE	0	0					
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16988	6245	6	<None>	<Collection: 1 item>	6.19	170.3	71.2		38615	P-735	95	2040: 4243	38219: J-345	12	PVC	130	FALSE	0	6.72	0.02	0	FALSE	0	6.72					
17264	4807	8.1	<None>	<Collection: 1 item>	6.19	170.1	70.2		38613	P-733	77	38611: J-481	8983: 4044	8	AC	130	FALSE	0	-53.74	0.34	0	TRUE	77	53.74					
17266	4827	8.1	<None>	<Collection: 1 item>	6.19	170.1	70.2		38612	P-732	243	12402: 3909	38611: J-481	8	AC	130	FALSE	0	-53.74	0.34	0	TRUE	243	53.74					
673	3319	4.7	<None>	<Collection: 1 item>	5.91	173.1	73		38610	P-731	184	13600: 4146	38609: J-480	12	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
967	3604	4.2	<None>	<Collection: 1 item>	5.91	170.1	71.9		38608	P-730	217	38607: J-479	12598: 190820	4	PVC	130	FALSE	0	7.32	0.19	0	FALSE	0	7.32					
1779	2865	-3.5	<None>	<Collection: 1 item>	5.91	169.9	75.2		38606	P-729	195	38602: J-477	38605: J-478	6	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0					
1883	3278	1.5	<None>	<Collection: 1 item>	5.91	170.1	73.1		38604	P-728	100	38602: J-477	1912: J316	6		130	FALSE	0	-0.82	0.01	0	TRUE	99	0.82					
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3410	2892	3.6	<None>	<Collection: 1 item>	5.91	170.2	72.2		38600	P-725	83	1912: J316	38599: J-476	6		130	FALSE	0	-7.02	0.08	0	TRUE	60	7.02					
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5194	2873	6.8	<None>	<Collection: 1 item>	5.91	173	72.1		38596	P-723	92	38588: J-473	38250: J-353	12	PVC	130	FALSE	0	-108.37	0.31	0	FALSE	0	108.37					
5479	3460	2.4	<None>	<Collection: 1 item>	5.91	171.4	73.3		38587	P-716	6	38582: J-471	38584: J-472	12	PVC	130	FALSE	0	-49.32	0.14	0	FALSE	0	49.32					
5696	3457	1.5	<None>	<Collection: 1 item>	5.91	170.1	73.1		38586	P-715	40	38584: J-472	10264: 5512	6	AC	130	FALSE	0	58.43	0.66	0	TRUE	39	58.43					
5912	3582	7	<None>	<Collection: 1 item>	5.91	170.1	70.7		38585	P-714	42	9820: 5568	38584: J-472	6	AC	130	FALSE	0	-0.62	0.01	0	TRUE	40	0.62					
6580	3617	-3.5	<None>	<Collection: 1 item>	5.91	169.9	75.2		38583	P-713	8	38580: J-470	38582: J-471	12	PVC	130	FALSE	0	-49.32	0.14	0	FALSE	0	49.32					
7466	3608	1.5	<None>	<Collection: 1 item>	5.91	170	73.1		38581	P-712	87	38246: J-352	38580: J-470	12	PVC	130	FALSE	0	-49.32	0.14	0	FALSE	0	49.32					
9030	3215	5.8	<None>	<Collection: 1 item>	5.91	173.1	72.5		38578	P-710	61	38576: J-469	38267: J-357	14	AC	130	FALSE	0	-286.94	0.6	0	TRUE	66	286.94					
11143	2986	1.5	<None>	<Collection: 1 item>	5.91	170.2	73.2		38577	P-709	110	16514: 5882	38576: J-469	14	AC	130	FALSE	0	-286.94	0.6	0	TRUE	111	286.94					
12551	3210	4.5	<None>	<Collection: 1 item>	5.91	170.1	71.8		38575	P-708	159	13533: 6115	38574: J-468	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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13102	7353	45.2	<None>	<Collection: 1 item>	5.89	173.9	55.8		38570	P-704	140	38277: J-360	38569: J-467	10	AC	130	FALSE	0	127.67	0.52	0	TRUE	138	127.67					
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3650	6859	36.6	<None>	<Collection: 1 item>	4.09	173.5	59.4		38187	P-466	375	38139: J-314	38185: J-335	8	PVC	130	FALSE	0	-7.64	0.05	0	FALSE	0	7.64						
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5057	6963	34.6	<None>	<Collection: 1 item>	4.09	174.3	60.6		38163	P-453	33	38160: J-324	38162: J-325	8	PVC	130	FALSE	0	-3.6	0.02	0	FALSE	0	3.6						
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5112	5639	24.3	<None>	<Collection: 1 item>	4.09	174.2	65		38159	P-451	128	38157: J-322	38158: J-323	8	PVC	130	FALSE	0	-3.6	0.02	0	FALSE	0	3.6						
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9831	7255	36.8	<None>	<Collection: 1 item>	4.09	174.2	59.6		36800	BWPipe_revised-55	239	36771: J-55	12913: J516	8	Ductile Iron	130	FALSE	0	143.24	0.91	0	FALSE	0	143.24						
9857	6186	31.2	<None>	<Collection: 1 item>	4.09	174.2	62		36777	BWPipe_revised-54	167	36773: J-56	36774: J-57	8	Ductile Iron	130	FALSE	0	28.46	0.18	0	FALSE	0	28.46						
9858	6196	31.2	<None>	<Collection: 1 item>	4.09	173.9	61.8		36815	BWPipe_revised-53	264	36773: J-56	36816: J-78	8	Ductile Iron	130	FALSE	0	0.00	0	0	FALSE	0	0						
9997	6786	36.5	<None>	<Collection: 1 item>	4.09	173.8	59.5		36811	BWPipe_revised-52	344	36793: J-68	36773: J-56	8	Ductile Iron	130	FALSE	0	28.46	0.18	0	FALSE	0	28.46						
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10213	7300	42.3	<None>	<Collection: 1 item>	4.09	174.1	57.2		36792	BWPipe_revised-50	199	36753: J-43	36793: J-68	8	Ductile Iron	130	FALSE	0	13.01	0.08	0	FALSE	0	13.01						
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10563	6993	16.2	<None>	<Collection: 1 item>	4.09	174.3	68.5		36839	BWPipe_revised-48	451	36760: J-48	36753: J-43	8	Ductile Iron	130	FALSE	0	13.01	0.08	0	FALSE	0	13.01						
10677	5583	23.3	<None>	<Collection: 1 item>	4.09	174.3	65.4		36784	BWPipe_revised-47	190	36760: J-48	36785: J-63	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0						
10859	6386	36	<None>	<Collection: 1 item>	4.09	173.9	59.8		36841	BWPipe_revised-46	452	36780: J-60	1694: J422	8	Ductile Iron	130	FALSE	0	-38.72	0.25	0	FALSE	0	38.72						
10862	6356	31.6	<None>	<Collection: 1 item>	4.09	173.7	61.6		36818	BWPipe_revised-45	310	36819: J-79	2197: J418	8	Ductile Iron	130	FALSE	0	-53.88	0.34	0	FALSE	0	53.88						
10967	6062	26.1	<None>	<Collection: 1 item>	4.09	173.5	63.9		36836	BWPipe_revised-44	420	36779: J-59	36819: J-79	8	Ductile Iron	130	FALSE	0	-53.88	0.34	0	FALSE	0	53.88						
10973	7119	29.4	<None>	<Collection: 1 item>	4.09	174.2	62.8		36817	BWPipe_revised-43	374	36780: J-60	6138: J426	8	Ductile Iron	130	FALSE	0	-41.19	0.26	0	FALSE	0	41.19						
11063	7134	38.6	<None>	<Collection: 1 item>	4.09	174.2	58.8		36778	BWPipe_revised-42	183	36779: J-59	36780: J-60	8	Ductile Iron	130	FALSE	0	-79.9	0.51	0	FALSE	0	79.9						
11189	6279	31.2	<None>	<Collection: 1 item>	4.09	173.8	61.8		36808	BWPipe_revised-41	235	36802: J-73	36779: J-59	8	Ductile Iron	130	FALSE	0	-133.78	0.85	0	FALSE	0	133.78						
11506	6143	30.8	<None>	<Collection: 1 item>	4.09	173.7	62		36803	BWPipe_revised-40	231	36802: J-73	36804: J-74	8	Ductile Iron	130	FALSE	0	60.91	0.39	0	FALSE	0	60.91						
11511	6363	33.3	<None>	<Collection: 1 item>	4.09	174	61		36801	BWPipe_revised-39	228	36759: J-47	36802: J-73	8	Ductile Iron	130	FALSE	0	-72.87	0.47	0	FALSE	0	72.87						
11570	6838	40.8	<None>	<Collection: 1 item>	4.09	173.7	57.6		36758	BWPipe_revised-38	113	36759: J-47	36760: J-48	8	Ductile Iron	130	FALSE	0	28.46	0.18	0	FALSE	0	28.46						
11583	5664	25.7	<None>	<Collection: 1 item>	4.09	173.7	64.2		36822	BWPipe_revised-37	341	36774: J-57	36759: J-47	8	Ductile Iron	130	FALSE	0	-44.41	0.28	0	FALSE	0	44.41						
11873	6537	32.9	<None>	<Collection: 1 item>	4.09	173.8	61.1		36820	BWPipe_revised-36	311	36783: J-62	36774: J-57	8	Ductile Iron	130	FALSE	0	-72.87	0.47	0	FALSE	0	72.87						
12098	6206	29.6	<None>	<Collection: 1 item>	4.09	173.5	62.4		36842	BWPipe_revised-35	482	36807: J-76	36782: J-61	8	Ductile Iron	130	FALSE	0	17.97	0.11	0	FALSE	0	17.97						
12517	6814	35.8	<None>	<Collection: 1 item>	4.09	173.5	59.7		36805	BWPipe_revised-34	234	36806: J-75	36807: J-76	8	Ductile Iron	130	FALSE	0	17.97	0.11	0	FALSE	0	17.97						
12535	5290	-4.2	<None>	<Collection: 1 item>	4.09	174.7	77.6		36833	BWPipe_revised-33	396	36806: J-75	36828: J-81	8	Ductile Iron	130	FALSE	0	-28.18	0.18	0	FALSE	0	28.18						
12539	6189	31.7	<None>	<Collection: 1 item>	4.09	173.6	61.5		36830	BWPipe_revised-32	421	36796: J-70	36806: J-75	8	Ductile Iron	130	FALSE	0	-10.21	0.07	0	FALSE	0	10.21						
12540	6199	32.1	<None>	<Collection: 1 item>	4.09	174	61.6		36824	BWPipe_revised-31	344	36791: J-67	36825: J-80	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0						
12546	6179	31.4	<None>	<Collection: 1 item>	4.09	173.8	61.7		36835	BWPipe_revised-30	418	36832: J-82	36791: J-67	8	Ductile Iron	130	FALSE	0	-22.51	0.14	0	FALSE	0	22.51						
12559	6362	33.7	<None>	<Collection: 1 item>	4.09	174	60.8		36789	BWPipe_revised-29	195	36790: J-66	36791: J-67	8	Ductile Iron	130	FALSE	0	22.51	0.14	0	FALSE	0	22.51						
12661	5961	27	<None>	<Collection: 1 item>	4.09	173.9	63.6		36829	BWPipe_revised-28	350	36804: J-74	36790: J-66	8	Ductile Iron	130	FALSE	0	22.51	0.14	0	FALSE	0	22.51						
12823	5264	19.7	<None>	<Collection: 1 item>	4.09	174.3	67		36831	BWPipe_revised-27	358	36832: J-82	36804: J-74	8	Ductile Iron	130	FALSE	0	-38.4	0.25	0	FALSE	0	38.4						
13078	5738	18	<None>	<Collection: 1 item>	4.09	173.5	67.4		36834	BWPipe_revised-26	389	36828: J-81	36832: J-82	8	Ductile Iron	130	FALSE	0	-60.91	0.39	0	FALSE	0	60.91						
13186	7144	37.9	<None>	<Collection: 1 item>	4.09	174.2	59.1		36827	BWPipe_revised-25	349	36796: J-70	36828: J-81	8	Ductile Iron	130	FALSE	0	-32.74	0.21	0	FALSE	0	32.74						
13192	6840	36.1	<None>	<Collection: 1 item>	4.09	173.7	59.7		36794	BWPipe_revised-24	209	36795: J-69	36796: J-70	8	Ductile Iron	130	FALSE	0	-42.94	0.27	0	FALSE	0	42.94						
13194	6860	35.8	<None>	<Collection: 1 item>	4.09	173.5	59.7		36837	BWPipe_rev

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13871	4290	6.5	<None>	<Collection: 1 item>	4.09	173.7	72.5		36764	BWPipe_revised-16		128	36765: J-51		8	Ductile Iron	130	FALSE		0	0	0	0	FALSE		0	0					
13976	6361	33.9	<None>	<Collection: 1 item>	4.09	174	60.7		36813	BWPipe_revised-15		255	36765: J-51		8	Ductile Iron	130	FALSE		0	69.25	0.44	0	FALSE		0	69.25					
14332	6162	30.9	<None>	<Collection: 1 item>	4.09	174.2	62.1		36848	BWPipe_revised-14		750	36783: J-62		8	Ductile Iron	130	FALSE		0	69.25	0.44	0	FALSE		0	69.25					
14514	6802	35.9	<None>	<Collection: 1 item>	4.09	173.9	59.8		36781	BWPipe_revised-13		183	36782: J-61		8	Ductile Iron	130	FALSE		0	-3.62	0.02	0	FALSE		0	3.62					
15018	5423	21.6	<None>	<Collection: 1 item>	4.09	174.6	66.3		36826	BWPipe_revised-12		341	36795: J-69		8	Ductile Iron	130	FALSE		0	-21.59	0.14	0	FALSE		0	21.59					
15025	7080	37.3	<None>	<Collection: 1 item>	4.09	174.2	59.4		36814	BWPipe_revised-11		260	36799: J-72		8	Ductile Iron	130	FALSE		0	-64.53	0.41	0	FALSE		0	64.53					
15035	7000	24.4	<None>	<Collection: 1 item>	4.09	174.3	65		36809	BWPipe_revised-10		239	36810: J-77		8	Ductile Iron	130	FALSE		0	-23.57	0.15	0	FALSE		0	23.57					
15147	6289	31.4	<None>	<Collection: 1 item>	4.09	173.8	61.7		36821	BWPipe_revised-9		372	36798: J-71		8	Ductile Iron	130	FALSE		0	-23.57	0.15	0	FALSE		0	23.57					
15179	7003	30.2	<None>	<Collection: 1 item>	4.09	174.2	62.4		36797	BWPipe_revised-8		219	36798: J-71		8	Ductile Iron	130	FALSE		0	-40.96	0.26	0	FALSE		0	40.96					
15533	6977	24.3	<None>	<Collection: 1 item>	4.09	174.3	65		36812	BWPipe_revised-7		255	36787: J-64		8	Ductile Iron	130	FALSE		0	-64.53	0.41	0	FALSE		0	64.53					
15665	4635	3.1	<None>	<Collection: 1 item>	4.09	172.2	73.3		36786	BWPipe_revised-6		191	36787: J-64		8	Ductile Iron	130	FALSE		0	0	0	0	FALSE		0	0					
16250	6193	31.1	<None>	<Collection: 1 item>	4.09	173.9	61.9		36823	BWPipe_revised-5		342	36769: J-54		8	Ductile Iron	130	FALSE		0	-64.53	0.41	0	FALSE		0	64.53					
16507	6278	32.5	<None>	<Collection: 1 item>	4.09	174.1	61.4		36844	BWPipe_revised-4		513	36769: J-54		8	Ductile Iron	130	FALSE		0	0	0	0	FALSE		0	0					
16907	6272	31.3	<None>	<Collection: 1 item>	4.09	173.7	61.7		36767	BWPipe_revised-3		147	36768: J-53		8	Ductile Iron	130	FALSE		0	-64.53	0.41	0	FALSE		0	64.53					
16984	6285	31.4	<None>	<Collection: 1 item>	4.09	173.8	61.7		36843	BWPipe_revised-2		505	36771: J-55		8	Ductile Iron	130	FALSE		0	-133.78	0.85	0	FALSE		0	133.78					
17161	5851	25.8	<None>	<Collection: 1 item>	4.09	173.9	64.2		36770	BWPipe_revised-1		157	5100: J410		8	Ductile Iron	130	FALSE		0	9.46	0.06	0	FALSE		0	9.46					
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38170	J-329	4.8	<None>	<Collection: 0 items>	0	177.6	74.9		19139	358	78	14683: 4063	9649: 4064	6	AC	130	FALSE	0	26.89	0.31	0	TRUE	78	26.89										
38174	J-331	5	<None>	<Collection: 0 items>	0	177.6	74.8		19149	357	75	5674: 4062	14683: 4063	6	AC	130	FALSE	0	31.19	0.35	0	TRUE	75	31.19										
38179	J-333	4.2	<None>	<Collection: 0 items>	0	177.5	75.1		19374	356	38	6311: 4061	5674: 4062	6	AC	130	FALSE	0	35.94	0.41	0	TRUE	38	35.94										
38219	J-345	-3.5	<None>	<Collection: 0 items>	0	170.1	75.2		19150	354	366	6930: 4299	15665: 4635	6	AC	130	FALSE	0	-24.51	0.28	0	TRUE	366	24.51										
38225	J-347	3.5	<None>	<Collection: 0 items>	0	170.1	72.2		19145	353	18	3223: 4636	610: 4647	8	AC	130	FALSE	0	-90.92	0.58	0	TRUE	18	90.92										
38229	J-348	-3.5	<None>	<Collection: 0 items>	0	170.1	75.2		19144	352	286	4429: 4145	2551: 4355	8	AC	130	FALSE	0	-51.88	0.33	0	TRUE	286	51.88										
38233	J-349	-3.5	<None>	<Collection: 0 items>	0	170.1	75.3		19373	351	216	12399: 3959	6039: 3997	8	AC	130	FALSE	0	2.43	0.02	0	TRUE	216	2.43										
38238	J-350	-3.5	<None>	<Collection: 0 items>	0	170.2	75.3		19372	350	22	8596: 5109	2035: 5110	8	AC	130	FALSE	0	25.11	0.16	0	TRUE	22	25.11										
38242	J-351	2.2	<None>	<Collection: 0 items>	0	170.2	72.8		25746	349	169	15707: 5108	10835: 5022	12	AC	130	FALSE	0	-118.9	0.34	0	TRUE	169	118.9										
38246	J-352	8.6	<None>	<Collection: 0 items>	0	170.2	70.1		25745	348	130	5303: 5053	8890: 4980	6	AC	130	FALSE	0	-3.48	0.04	0	TRUE	130	3.48										
38250	J-353	1.5	<None>	<Collection: 0 items>	0	170.3	73.1		25756	347	200	10830: 5052	2368: 4934	8	AC	130	FALSE	0	57.12	0.36	0	TRUE	200	57.12										
38254	J-354	5.9	<None>	<Collection: 0 items>	0	170.3	71.2		25755	346	513	13921: 5047	8273: 4935	8	AC	130	FALSE	0	-12.24	0.08	0	TRUE	513	12.24										
38263	J-356	8	<None>	<Collection: 0 items>	0	170.3	70.4		25758	345	74	10835: 5022	2676: 4972	12	AC	130	FALSE	0	-122.19	0.35	0	TRUE	74	122.19										
38267	J-357	3.2	<None>	<Collection: 0 items>	0	170.4	72.5		25757	344	55	14024: 4968	17177: 5000	8	AC	130	FALSE	0	-41.69	0.27	0	TRUE	55	41.69										
38277	J-360	7.9	<None>	<Collection: 0 items>	0	170.3	70.4		25752	343	114	8890: 4980	10964: 4924	6	AC	130	FALSE	0	50.5	0.57	0	TRUE	114	50.5										
38280	J-361	6.2	<None>	<Collection: 0 items>	0	170.3	71.2		25751	342	134	2676: 4972	13405: 4894	12	AC	130	FALSE	0	-128.04	0.36	0	TRUE	134	128.04										
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38301	J-369	1.4	<None>	<Collection: 0 items>	0	170.3	73.2		25753	340	244	10964: 4924	3961: 4765	6	AC	130	FALSE	0	36.49	0.41	0	TRUE	244	36.49										
38305	J-370	1.5	<None>	<Collection: 0 items>	0	170.3	73.2		28099	339	139	6077: 4895	5484: 4893	8	AC	130	FALSE	0	81.11	0.52	0	TRUE	139	81.11										
38320	J-374	1.6	<None>	<Collection: 0 items>	0	170.3	73.1		28098	338	114	13405: 4894	12030: 4840	12	AC	130	FALSE	0	-215	0.61	0	TRUE	114	215										
38323	J-375	1.5	<None>	<Collection: 0 items>	0	170.3	73.1		28109	337	231	5484: 4893	2569: 4890	8	AC	130	FALSE	0	86.44	0.55	0	TRUE	231	86.44										
38326	J-376	1.5	<None>	<Collection: 0 items>	0	170.3	73.2		28108	336	31	2569: 4890	15974: 4889	8	AC	130	FALSE	0	79.85	0.51	0	TRUE	31	79.85										
38330	J-377	7	<None>	<Collection: 0 items>	0	170.3	70.8		20504	335	209	6991:

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									17821	72	66	6708: 3733	1167: 3752	12	AC	130	FALSE	0	70.42	0.2	0	TRUE	66	70.42												
									19529	71	83	9967: 3751	6708: 3733	6	AC	130	FALSE	0	7.09	0.08	0	TRUE	83	7.09												
									26807	69	20	6509: 3672	14949: 3665	8	AC	130	FALSE	0	21.05	0.13	0	TRUE	20	21.05												
									29731	68	15	14949: 3665	4277: 3651	8	AC	130	FALSE	0	18.98	0.12	0	TRUE	15	18.98												
									30268	65	350	126: 3597	5700: 3417	8	AC	130	FALSE	0	-33.79	0.22	0	TRUE	350	33.79												
									31285	64	137	970: 3469	16811: 3428	8	AC	130	FALSE	0	-2.32	0.01	0	TRUE	137	2.32												
									21488	63	194	14696: 3468	6794: 3375	6	AC	130	FALSE	0	-8.08	0.09	0	TRUE	194	8.08												
									24029	62	235	5700: 3417	9611: 3280	8	AC	130	FALSE	0	26.79	0.17	0	TRUE	235	26.79												
									20136	61	255	12977: 3256	12983: 3236	8	AC	130	FALSE	0	37.05	0.24	0	TRUE	255	37.05												
									21609	60	21	12974: 3296	9028: 3275	8	AC	130	FALSE	0	-81.02	0.52	0	TRUE	21	81.02												
									21060	58	356	2281: 3212	1883: 3278	8	AC	130	FALSE	0	22.7	0.14	0	TRUE	356	22.7												
									30030	56	22	9028: 3275	3049: 3263	8	AC	130	FALSE	0	-82.91	0.53	0	TRUE	22	82.91												
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									34787	53	30	5740: 3270	2796: 3257	12	AC	130	FALSE	0	70.96	0.2	0	TRUE	30	70.96												
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									21387	46	199	7745: 2984	4726: 2895	8	AC	130	FALSE	0	-40.2	0.26	0	TRUE	199	40.2												
									28030	45	190	583: 2862	4726: 2895	8	AC	130	FALSE	0	44.41	0.28	0	TRUE	190	44.41												
									34681	44	26	12213: 2882	3410: 2892	8	AC	130	FALSE	0	48.39	0.31	0	TRUE	26	48.39												
									26036	43	62	4762: 2829	583: 2862	8	AC	130	FALSE	0	51.73	0.33	0	TRUE	62	51.73												
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									27050	40	156	10526: 2739	13160: 2817	8	AC	130	FALSE	0	18.91	0.12	0	TRUE	156	18.91												
									31598	37	444	9032: 2794	15805: 2557	12	AC	130	FALSE	0	-122.34	0.35	0	TRUE	444	122.34												
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									34404	29	171	2682: 2481	13997: 2488	6	AC	130	FALSE	0	-53.81	0.61	0	TRUE	171	53.81												
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									34085	6	57	3457: 2705	11794: 2688	6	AC	130	FALSE	0	13.5	0.15	0	TRUE	57	13.5												
									27607	4	386	3382: 2616	16823: 2403	10	AC	130	FALSE	0	2.15	0.01	0	TRUE	386	2.15												
									29210	2	277	2688: 2401	11739: 2508	6	AC	130	FALSE	0	0	0	0	TRUE	277	0												

Baseline	2,700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
8935	15950	1.5	<None>	<Collection: 1 item>	8.6	168.5	72.4		20871	P593	445	7500: 13901	10102: J402	6		130	FALSE	0	0.00	0	0	TRUE	445	0				Pressure	
8045	15772	1.5	<None>	<Collection: 1 item>	7.98	169.2	72.7		27516	P571	49	1033: 12587	8131: J392	6		130	FALSE	0	86.89	0.99	0.001	TRUE	49	86.89				Average	72.3556
3910	13303	46.7	<None>	<Collection: 1 item>	7.47	171.6	54.2		21193	P569	90	5820: 12670	8131: J392	8	AC	130	FALSE	0	-165.83	1.06	0.001	TRUE	90	165.83				Minimum	54.2
5230	13325	6.3	<None>	<Collection: 1 item>	7.47	172.7	72.2		32590	P263	414	8467: J158	8858: J162	8		130	FALSE	0	71.19	0.45	0	TRUE	414	71.19				Maximum	77.7
8202	13302	46.6	<None>	<Collection: 1 item>	7.47	171.6	54.2		31698	P261	210	6409: J156	8467: J158	8		130	FALSE	0	73.37	0.47	0	TRUE	210	73.37				Velocity	
10088	13198	46.7	<None>	<Collection: 1 item>	7.47	171.7	54.2		33437	P259	413	17378: J160	6409: J156	8		130	FALSE	0	75.56	0.48	0	TRUE	413	75.56				Average	0.43623
11995	13199	46.7	<None>	<Collection: 1 item>	7.47	171.7	54.2		21694	P257	141	8858: J162	759: J56	12	AC	130	FALSE	0	575.06	1.63	0.001	TRUE	141	575.06				Minimum	0
13547	14264	2	<None>	<Collection: 1 item>	7.47	170.6	73.1		23413	P255	46	1041: 14789	17378: J160	12	AC	130	FALSE	0	-508.39	1.44	0.001	TRUE	46	508.39				Maximum	4.33
16208	14263	2	<None>	<Collection: 1 item>	7.47	170.6	73.1		28975	P131	13	12380: 13390	5781: 13400	6		130	FALSE	0	1.48	0.02	0	TRUE	13	1.48				Flow	
11191	15118	1.4	<None>	<Collection: 1 item>	7.46	169.8	73		25732	P129	114	759: J56	11690: 14955	8		130	FALSE	0	135.88	0.87	0	TRUE	114	135.88				Average	85.6108
1111	12903	14.6	<None>	<Collection: 1 item>	3.65	173.3	68.8		17705	P127	50	759: J56	9531: 14998	12	AC	130	FALSE	0	485.42	1.38	0.001	TRUE	50	485.42				Minimum	0
4246	12882	10.6	<None>	<Collection: 1 item>	3.65	173.5	70.6		27885	P125	64	16991: J54	7898: 14472	6		130	FALSE	0	101.91	1.16	0.001	TRUE	64	101.91				Maximum	3352.88
4253	12782	24	<None>	<Collection: 1 item>	3.65	174.4	65.2		36075	P123	93	16991: J54	7240: 14371	10	AC	130	FALSE	0	-365.41	1.49	0.001	TRUE	93	365.41					
4955	13008	7.6	<None>	<Collection: 1 item>	3.65	173.4	71.9		28974	P121	186	761: J52	13169: 14553	8		130	FALSE	0	193.67	1.24	0.001	TRUE	186	193.67					
7033	12958	14.8	<None>	<Collection: 1 item>	3.65	173.2	68.7		25735	P119	212	761: J52	4990: 14386	12	AC	130	FALSE	0	-269.09	0.76	0	TRUE	212	269.09					
8392	13162	10.7	<None>	<Collection: 1 item>	3.65	173.1	70.4		17706	P117	79	12306: J50	2981: 14308	12		130	FALSE	0	-508.66	1.44	0.001	TRUE	79	508.66					
11130	13163	10.6	<None>	<Collection: 1 item>	3.65	173.1	70.4		32307	P115	157	12306: J50	14733: 14395	12	AC	130	FALSE	0	77.5	0.22	0	TRUE	157	77.5					
12069	12955	32.1	<None>	<Collection: 1 item>	3.65	174.5	61.7		26074	P113	32	7040: 13974	4784: 13985	12		130	FALSE	0	579.73	1.64	0.001	TRUE	32	579.73					
12179	12890	14.8	<None>	<Collection: 1 item>	3.65	173.3	68.7		19922	P111	20	15927: J48	15290: 12817	12		130	FALSE	0	346.22	0.98	0	TRUE	20	346.22					
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15073	12895	10.5	<None>	<Collection: 1 item>	3.65	173.5	70.6		37186	P-123	118	37165: J-146	37173: J-148	20	Ductile Iron	130	FALSE	0	-782.5	0.8	0	FALSE	0	782.5					
3285	15881	1.5	<None>	<Collection: 1 item>	2.56	168.8	72.5		37174	P-117	10	37173: J-148	37168: J-147	12	Ductile Iron	130	FALSE	0	631.85	1.79	0.001	FALSE	0	631.85					
13446	13394	6.5	<None>	<Collection: 1 item>	2.55	172.5	72		37170	P-116	95	37168: J-147	15484: 12735	12	AC	130	FALSE	0	649.66	1.84	0.001	TRUE	95	649.66					
247	15317	6.5	<None>	<Collection: 1 item>	2.44	169.5	70.7		37169	P-115	48	14770: 12584	37168: J-147	12	AC	130	FALSE	0	17.81	0.05	0	TRUE	48	17.81					
409	15241	6.5	<None>	<Collection: 1 item>	2.44	169.6	70.7		37167	P-114	61	37165: J-146	7540: 12771	30	STL	130	FALSE	0	3,352.88	1.52	0	TRUE	61	3352.88					
410	15341	6.5	<None>	<Collection: 1 item>	2.44	169.6	70.7		28668	190835	458	16356: 15893	3285: 15881	12		130	FALSE	0	-37.43	0.11	0	TRUE	458	37.43					
416	14667	1.4	<None>	<Collection: 1 item>	2.44	170.1	73.2		26866	190807	197	8868: 12459	8584: 12575	6		130	FALSE	0	-2.14	0.02	0	TRUE	197	2.14					
622	14777	0.9	<None>	<Collection: 1 item>	2.44	170	73.3		24955	190801	36	2337: 13320	14048: 13318	8		130	FALSE	0	-154.03	0.98	0.001	TRUE	36	154.03					
711	14812	1.9	<None>	<Collection: 1 item>	2.44	170	72.9		25500	190799	136	1169: 15231	16342: 15290	8		130	FALSE	0	94.90	0.61	0	TRUE	137	94.9					
1225	15289	6.5	<None>	<Collection: 1 item>	2.44	169.6	70.7		17874	190795	4	14621: 13043	742: 13041	6		130	FALSE	0	71.52	0.81	0.001	TRUE	4	71.52					
1266	15315	6.6	<None>	<Collection: 1 item>	2.44	169.5	70.6		28952	190793	37	1254: 13212	551: 13223	6		130	FALSE	0	172.08	1.95	0.003	TRUE	37	172.08					
1283	15527	3	<None>	<Collection: 1 item>	2.44	169.4	72.1		33384	190755	4	11994: 13099	5785: 13100	6		130	FALSE	0	-43.62	0.49	0	TRUE	4	43.62					
1701	15086	6.6	<None>	<Collection: 1 item>	2.44	169.7	70.7		22314	19530	13	11316: 16055	12094: 16056	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	13	1.48					
2298	14949	5.2	<None>	<Collection: 1 item>	2.44	169.9	71.4		29527	19527	13	9319: 15944	14657: 15945	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	13	1.48					
2484	14913	2.2	<None>	<Collection: 1 item>	2.44	169.9	72.7		23054	19525	93	193: 15911	14657: 15945	8	AC	130	FALSE	0	142.5	0.91	0	TRUE	93	142.5					
2606	15284	6.5	<None>	<Collection: 1 item>	2.44	169.6	70.7		22895	19467	120	1256: 15815	4644: 15907	8	AC	130	FALSE	0	101.73	0.65	0	TRUE	120	101.73					
3149	15308	6.5	<None>	<Collection: 1 item>	2.44	169.6	70.7		33318	19466	110	1256: 15815	1969: 15816	8	AC	130	FALSE	0	-106.18	0.68	0	TRUE	110	106.18					
3563	14621	1.9	<None>	<Collection: 1 item>	2.44	170.2	72.9		35502	19465	200	1222: 15789	1256: 15815	6	AC	130	FALSE	0	-2.96	0.03	0	TRUE	200	2.96					
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12851	12856	6.5	<None>	<Collection: 1 item>	1.48	173.3	72.3		32241	5884	221	11106: 13251	10756: 13368	6	AC	130	FALSE		0	82.9	0.94	0.001	TRUE	221	82.9							
13440	13594	6.5	<None>	<Collection: 1 item>	1.48	171.4	71.5		27872	5883	60	12281: 13367	16619: 13366	8	AC	130	FALSE		0	-3.25	0.02	0	TRUE	60	3.25							
13498	14518	3.4	<None>	<Collection: 1 item>	1.48	170.8	72.6		35226	5879	219	2337: 13320	13444: 13194	8	AC	130	FALSE		0	-144.97	0.93	0.001	TRUE	219	144.97							
13573	15496	2	<None>	<Collection: 1 item>	1.48	169.5	72.6		35552	5878	40	1993: 13229	11106: 13251	6	AC	130	FALSE		0	86.18	0.98	0.001	TRUE	40	86.18							
13576	15796	1.5	<None>	<Collection: 1 item>	1.48	169.1	72.7		26551	5877	213	13444: 13194	10351: 13054	8	AC	130	FALSE		0	-148.26	0.95	0.001	TRUE	213	148.26							
13647	14291	2.5	<None>	<Collection: 1 item>	1.48	170.8	73		23389	5876	257	10158: 12954	3430: 13122	6	AC	130	FALSE		0	91.11	1.03	0.001	TRUE	257	91.11							
13683	15818	1.5	<None>	<Collection: 1 item>	1.48	169.1	72.7		20332	5875	59	14835: 13029	10690: 13057	8	AC	130	FALSE		0	264.01	1.69	0.002	TRUE	59	264.01							
13690	12834	4.9	<None>	<Collection: 1 item>	1.48	173.3	73		36205	5874	439	12253: 13055	13003: 13056	8	AC	130	FALSE		0	-29.79	0.19	0	TRUE	439	29.79							
13691	12934	6.7	<None>	<Collection: 1 item>	1.48	172.2	71.7		33136	5873	201	367: 12911	14835: 13029	8	AC	130	FALSE		0	267.29	1.71	0.002	TRUE	201	267.29							
13734	15564	4	<None>

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Baseline	2,700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
3603	6549	22	<None>	<Collection: 1 item>	14.77	181.2	69		20329	Well No. 9 Outflow	28	15963: 6476	8831: WELL No. 9	16	AC	130	FALSE	0	-1,794.01	2.86	0.002	TRUE	28	1794.01				Pressure	
4014	6553	23.7	<None>	<Collection: 1 item>	14.77	181.3	68.3		17825	P519	104	6064: 6121	2781: J370	12		130	FALSE	0	-77.19	0.22	0	TRUE	101	77.19				Average	70.5395
6713	6440	23.6	<None>	<Collection: 1 item>	14.77	181.3	68.4		35545	P517	16	2718: J366	1207: J368	12		130	FALSE	0	54.25	0.15	0	TRUE	13	54.25				Minimum	59.4
7431	6551	21.9	<None>	<Collection: 1 item>	14.77	181.2	69.1		27514	P511	132	2781: J370	1207: J368	12		130	FALSE	0	-36.12	0.1	0	TRUE	141	36.12				Maximum	81.3
8683	6425	23.7	<None>	<Collection: 1 item>	14.77	181.3	68.3		17824	P509	180	8134: J362	6064: 6121	12		130	FALSE	0	-28.17	0.08	0	TRUE	178	28.17				Velocity	
8835	6437	23.1	<None>	<Collection: 1 item>	14.77	181.3	68.6		31357	P507	369	10326: 5652	8134: J362	12		130	FALSE	0	-78.53	0.22	0	TRUE	371	78.53				Average	0.34295
11006	6552	23.7	<None>	<Collection: 1 item>	14.77	181.2	68.3		31293	P505	33	2780: J360	4552: 5452	12	AC	130	FALSE	0	-32.58	0.09	0	TRUE	34	32.58				Minimum	0
67	3007	-5.6	<None>	<Collection: 1 item>	5.91	182	81.3		33786	P503	61	6970: 5184	4233: J358	12	AC	130	FALSE	0	-25.42	0.07	0	TRUE	61	25.42				Maximum	5.67
1710	3016	24.1	<None>	<Collection: 1 item>	5.91	181.9	68.4		32820	P501	190	2717: J356	6970: 5184	12	AC	130	FALSE	0	-21.27	0.06	0	TRUE	191	21.27				Flow	
1777	2845	21.8	<None>	<Collection: 1 item>	5.91	181.9	69.4		20363	P499	142	15653: 4865	6143: J354	12	AC	130	FALSE	0	-10.57	0.03	0	TRUE	140	10.57				Average	119.673
6537	3559	11.5	<None>	<Collection: 1 item>	5.91	183.7	74.7		20907	P497	54	438: 4832	1624: J352	12	AC	130	FALSE	0	-5.66	0.02	0	TRUE	58	5.66				Minimum	0
6610	3015	24.3	<None>	<Collection: 1 item>	5.91	181.9	68.4		35027	P495	77	679: J350	7091: 4587	12	AC	130	FALSE	0	-9.97	0.03	0	TRUE	74	9.97				Maximum	4185.46
7634	3348	22.4	<None>	<Collection: 1 item>	5.91	183.7	69.9		23608	P493	20	2993: J20	1205: J348	8		130	FALSE	0	16.74	0.11	0	TRUE	9	16.74					
9410	3132	23.2	<None>	<Collection: 1 item>	5.91	183.7	69.6		29843	P333	1,095	1872: 6434	8835: 6437	12		130	FALSE	0	-110.69	0.31	0	TRUE	1,095	110.69					
10235	3561	21.5	<None>	<Collection: 1 item>	5.91	183.7	70.3		38756	P-826	6	38754: J-529	38733: J-523	8	AC	130	FALSE	0	505.99	3.23	0.005	FALSE	0	505.99					
10523	2709	25.1	<None>	<Collection: 1 item>	5.91	182.1	68.1		38755	P-825	48	8831: WELL No. 9	38754: J-529	16	AC	130	FALSE	0	505.99	0.81	0	FALSE	0	505.99					
11377	2838	23.5	<None>	<Collection: 1 item>	5.91	182	68.7		38753	P-824	5	38748: J-527	38750: J-528	8	PVC	130	FALSE	0	0.87	0.01	0	FALSE	0	0.87					
12713	3320	23.1	<None>	<Collection: 1 item>	5.91	183.7	69.6		38752	P-823	13	38750: J-528	10326: 5652	8	AC	130	FALSE	0	-13.86	0.09	0	TRUE	13	13.86					
12899	3605	21.6	<None>	<Collection: 1 item>	5.91	183.7	70.3		38751	P-822	74	2554: 5645	38750: J-528	8	AC	130	FALSE	0	-14.73	0.09	0	TRUE	76	14.73					
13964	3562	16.4	<None>	<Collection: 1 item>	5.91	183.7	72.5		38749	P-821	4	38745: J-526	38748: J-527	8	PVC	130	FALSE	0	0.87	0.01	0	FALSE	0	0.87					
14500	2837	23.9	<None>	<Collection: 1 item>	5.91	182	68.5		38747	P-820	15	38745: J-526	10326: 5652	12	AC	130	FALSE	0	-37.89	0.11	0	TRUE	15	37.89					
17423	3560	21.6	<None>	<Collection: 1 item>	5.91	183.7	70.3		38746	P-819	271	4552: 5452	38745: J-526	12	AC	130	FALSE	0	-37.02	0.11	0	TRUE	272	37.02					
4560	6443	24	<None>	<Collection: 1 item>	4.77	181.3	68.2		38744	P-818	21	38742: J-525	553: 2686	12	PVC	130	FALSE	0	-453.73	1.29	0.001	FALSE	0	453.73					
6064	6121	22.3	<None>	<Collection: 1 item>	4.77	181.6	69		38743	P-817	63	3458: 2715	38742: J-525	12	PVC	130	FALSE	0	-453.73	1.29	0.001	FALSE	0	453.73					
6498	6448	24	<None>	<Collection: 1 item>	4.77	181.3	68.2		38741	P-816	80	2803: 2716	6940: 190516	24	SS	130	FALSE	0	0.00	0	0	FALSE	0	0					
7414	6353	24.4	<None>	<Collection: 1 item>	4.77	181.3	68.1		38740	P-815	68	15746: 6453	38737: J-524	8	AC	130	FALSE	0	196.92	1.26	0.001	FALSE	0	196.92					
7418	6128	22.6	<None>	<Collection: 1 item>	4.77	181.5	68.9		38739	P-814	44	38737: J-524	6144: J364	12		130	FALSE	0	215.05	0.61	0	TRUE	44	215.05					
8682	6120	22.4	<None>	<Collection: 1 item>	4.77	181.6	69		38738	P-813	28	1207: J368	38737: J-524	12		130	FALSE	0	18.13	0.05	0	TRUE	23	18.13					
12548	6119	22.6	<None>	<Collection: 1 item>	4.77	181.5	68.9		38735	P-811	26	38733: J-523	14504: 6520	8	AC	130	FALSE	0	386.19	2.46	0.003	TRUE	26	386.19					
15561	6104	23.7	<None>	<Collection: 1 item>	4.77	181.4	68.4		38734	P-810	5	7981: 6464	38733: J-523	8	AC	130	FALSE	0	-119.80	0.76	0	TRUE	5	119.8					
17163	5871	22	<None>	<Collection: 1 item>	4.77	181.4	69.1		38730	P-808	27	8831: WELL No. 9	38727: J-521	8	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0					
17186	6352	25.4	<None>	<Collection: 1 item>	4.77	181.3	67.6		38729	P-807	27	38727: J-521	8831: WELL No. 9	12	Steel	140	FALSE	0	0	0	0	TRUE	8	0					
17503	5855	21.9	<None>	<Collection: 1 item>	4.77	181.4	69.1		38728	P-806	7	37977: Well 9 FCV	38727: J-521	12	Steel	140	FALSE	0	0	0	0	TRUE	2	0					
662	6575	21	<None>	<Collection: 1 item>	3.38	181.2	69.4		38071	P-423	55	38069: OC-9 FCV	9361: MWD OC-9	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0					
2247	6743	22	<None>	<Collection: 1 item>	3.38	181.2	69		38070	P-422	54	38068: OC-9 Reservoir	38069: OC-9 FCV	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0					
4078	6665	23.6	<None>	<Collection: 1 item>	3.38	181.2	68.3		37978	P-387	37	37976: Well 9 Reservoir	37977: Well 9 FCV	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0					
5551	6652	22.1	<None>	<Collection: 1 item>	3.38	181.2	68.9		37975	P-386	927	37973: J-297	8830: 6467	12	AC	130	FALSE	0	2,000.00	5.67	0.009	TRUE	927	2000					
7154	6784	23.3	<None>	<Collection: 1 item>	3.38	180.5	68.1		37974	P-385	31	8808: WELL No. 5	37973: J-297	12	AC	130	FALSE	0	2,000.00	5.67	0.009	TRUE	31	2000					
7155	6744	22	<None>	<Collection: 1 item>	3.38	181.2	69		37972	P-384	65	37970: Well 5 FCV	8808: WELL No. 5	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0					
11522	6769	21.7	<None>	<Collection: 1 item>	3.38	181.2	69.1		37971	P-383	60	37969: Well 5 Reservoir	37970: Well 5 FCV	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0					
16560	6768	22.1	<None>	<Collection: 1 item>	3.38	181.2	69		37265	P-168	25	37252: J-181	2718: J366	20	Ductile Iron	130	FALSE	0	-391.46	0.4	0	FALSE	0	391.46					
16782	6654	23.4	<None>	<Collection: 1 item>	3.38	181.2	68.4		37264	P-167	3	37262: J-185	37248: J-179	12	Ductile Iron	130	FALSE	0	2,000.00	5.67	0.009	FALSE	0	2000					
6579	3607	21.5	<None>	<Collection: 1 item>	3.35	183.7	70.3		37263	P-166	12	37260: J-184	37262: J-185	12	Ductile Iron	130	FALSE	0	2,000.00	5.67	0.009	FALSE	0	2000					
9314	5926	26.5	<None>	<Collection: 1 item>	3.3	184.2	68.4		37261	P-165	14	8830: 6467	37260: J-184	12	Ductile Iron	130	FALSE	0	2,000.00	5.67	0.009	FALSE	0	2000					
10422	6646	-5.8	<None>	<Collection: 1 item>	3.3	180.8	80.9		37259	P-164	3	37257: J-183	37250: J-180	16	Ductile Iron	130	FALSE	0	1,794.01	2.86	0.002	FALSE	0	1794.01					
13076	5718	19.8	<None>	<Collection: 1 item>	3.3	184.2	71.3		37258	P-163	23	37255: J-182	37257: J-183	16	Ductile Iron	130	FALSE	0	1,794.01	2.86	0.002	FALSE	0	1794.01					
14848	5370	21.5	<None>	<Collection: 1 item>	3.3	181.5	69.4		37256	P-162	8	2496: 6442	37255: J-182	16	Ductile Iron	130	FALSE	0	1,794.01	2.86	0.002	FALSE	0	1794.01					
14904	5937	26.5	<None>	<Collection: 1 item>	3.3	184.2	68.4		37253	P-161	19	37250: J-180	37252: J-181	30	Ductile Iron	130	FALSE	0	-391.46	0.18	0	FALSE	0	391.46					
15014	5463	22.8	<None>	<Collection: 1 item>	3.3	181.5	68.8		37251	P-160	4	37248: J-179	37250: J-180	30	Ductile Iron	130	FALSE	0	-2,185.46	0.99	0	FALSE	0	2185.46					
16685	5129	21.4	<None>	<Collection: 1 item>	3.3	181.5	69.4		37249	P-159	32	37244: J-178	37248: J-179	30	Ductile Iron	130	FALSE	0	-4,185.46	1.9	0	FALSE	0	4185.46					
10821	4959	26.7	<None>	<Collection: 1 item>	2.96	183.8	68.1		37247	P-158	5	37242: J-177	37244: J-178	24	Ductile Iron	130	FALSE	0	-2,899.78	2.06	0.001	FALSE	0	2899.78					
12554	4558	-3.5	<None>	<Collection: 1 item>	2.96	181.8	80.3		37245	P-156	484	11872: 6527	37244: J-178	21	SS	130	FALSE	0	-1,285.68	1.19	0	TRUE	484	1285.68					
13866	4644	26.7	<None>	<Collection: 1 item>	2.96	183.8	68.1		37243	P-155	54	37240: J-176	37242: J-177	24	Ductile Iron	130	FALSE	0	-2,899.78	2.06	0.001	FALSE	0	2899.78					
652	4792	26.7	<None>	<Collection: 1 item>	2.92	183.8	68.1		37241	P-154	425	37238: J-175	37240: J-176	24	Ductile Iron	130	FALSE	0	-2,899.78	2.06	0.001	FALSE	0	2899.78					
91	5321	21	<None>	<Collection: 1 item>	2.74	181.5	69.6		37239	P-153	47	37236: J-174	37238: J-175	24	Ductile Iron	130	FALSE	0	-2,899.78	2.06	0.001	FALSE	0	2899.78					
1941	6678	-3.5	<None>	<Collection: 1 item>	2.74	180.8	79.9		33847	MWD OC-9 Outflow	56	6940: 190516	9361: MWD OC-9	24		130	FALSE	0	0	0	0	TRUE	56	0					
6459	6205	27.4	<None>	<Collection: 1 item>	2.74	184.3	68		26930	190823	2	16879: 7669	2041: 190836	6		130	FALSE	0	0	0	0	TRUE	2	0					
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9863	6106	23.6	<None>	<Collection: 1 item>	2.74	184.3	69.7		29277	190819	128	9183: 7672	2041: 190836	8		130	FALSE	0	4.75	0.03	0	TRUE	128	4.75					
10538	6008	22	<None>	<Collection: 1 item>	2.74	181.7	69.3		24629	190817	41	11849: 7693	2041: 190836	6		180	FALSE	0	-6.73	0.08	0	TRUE	41	6.73					
14192	5305	21	<None>	<Collection: 1 item>	2.74	181.5	69.6		21429	190759	9	2205: 7387	11214: 7385	6		130	FALSE	0	-28.17	0.32	0	TRUE	9	28.17					
16483	7047	6.5	<None>	<Collection: 1 item>	2.74	180.7	75.5		32138	190713	110	5924: 6051	9657: 6016	8		130	FALSE	0	112.53	0.72	0	TRUE	110	112.53					
17433	5711	26.5	<None>	<Collection: 1 item>	2.74	184.2	68.4		19955	190711	149	11946: 5336	2068: 5335	8		130	FALSE	0	99.04	0.63	0	TRUE	149	99.04					
17449	5575	25.1	<None>	<Collection: 1 item>	2.74	183.8	68.8		36508	190709	113	6711: 5337	11946: 5336	8		130	FALSE	0	-42.66	0.27	0	TRUE	113	42.66					
17059	3304	23.3	<None>	<Collection: 1 item>	2.67	183.7	69.5		19587	18285	35	5292: 6472	7628: 6524	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	35	1.82					
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3644	5544	28.3	<None>	<Collection: 1 item>	2.46	184.1	67.6		24366	18281	517	4715: 6516	16479: 6470	8	AC	130	FALSE	0	253.50	1.62	0.001	TRUE	518	253.5					
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4280	3601	21.6	<None>	<Collection: 1 item>	2.43	183.7	70.3		22206	18278	258	9813: 6195	7628: 6524	8	AC	130	FALSE	0	-44.36	0.28	0	TRUE	258	44.36					
12979	3276	22.9	<None>	<Collection: 1 item>	2.43	183.7	69.7		22853	18277	227	9861: 6166	16479: 6470	8	AC	130	FALSE	0	76.88	0.49	0	TRUE	227	76.88					
13960	3592	21.5	<None>	<Collection: 1 item>	2.43	183.7	70.3		32592	18276	12	3649: 6197	6459: 6205	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	12	2.74					
2847	5509	29.1	<None>	<Collection: 1 item>	2.39	184.8	67.5		35442	18275	527	9421: 5919	3649: 6197	8	AC	130	FALSE	0	-68.99	0.44	0	TRUE	527	68.99					
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8781	5991	26.5	<None>	<Collection: 1 item>	2.39	185	68.7		27708	18273	176	647: 6198	9863: 6106	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	176	2.74					
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9822	5508	28.4	<None>	<Collection: 1 item>	2.39	184.8	67.8		21286	18271	12	5924: 6051	4188: 6056	6	AC	130	FALSE	0	1.82	0.02	0	TRUE	12	1.82					
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									28533	4887	348	4280: 3601	5695: 3447	8	AC	130	FALSE	0	-11.6	0.07	0	TRUE	348	11.6												
									33792	4886	300	14695: 3458	6936: 3583	8	AC	130	FALSE	0	6.39	0.04	0	TRUE	300	6.39												
									36176	4885	20	6537: 3559	13964: 3562	8	AC	130	FALSE	0	20.3	0.13	0	TRUE	20	20.3												
									27524	4884	416	5878: 3392	6537: 3559	8	AC	130	FALSE	0	25.73	0.16	0	TRUE	416	25.73												
									24419	4883	371	12330: 3279	14695: 3458	8	AC	130	FALSE	0	9.94	0.06	0	TRUE	371	9.94												
									29757	4882	344	16380: 3234	2077: 3422	6	AC	130	FALSE	0	3.46	0.04	0	TRUE	477	3.46												
									18268	4881	397	12801: 3243	5695: 3447	8	AC	130	FALSE	0	13.29	0.08	0	TRUE	397	13.29												
									21006	4880	65	11381: 3345	16177: 3347	8	AC	130	FALSE	0	-21.39	0.14	0	TRUE	65	21.39												
									24062	4879	289	12713: 3320	9410: 3132	6	AC	130	FALSE	0	-8.17	0.09	0	TRUE	289	8.17												
									20993	4878	312	7512: 3139	12330: 3279	8	AC	130	FALSE	0	13.48	0.09	0	TRUE	312	13.48												
									17908	4877	313	7085: 3046	12979: 3276	8	AC	130	FALSE	0	23.21	0.15	0	TRUE	313	23.21												
									22832	4876	24	12981: 3216	16380: 3234	6	AC	130	FALSE	0	11.92	0.14	0	TRUE	31	11.92												
									23933	4875	237	6475: 3009	7512: 3139	8	AC	130	FALSE	0	17.69	0.11	0	TRUE	237	17.69												
									19542	4874	157	9410: 3132	16827: 2997	6	AC	130	FALSE	0	-16.39	0.19	0	TRUE	157	16.39												
									34212	4873	307	16041: 2781	7085: 3046	8	AC	130	FALSE	0	27.07	0.17	0	TRUE	307	27.07												
									23257	4872	254	2586: 2886	1899: 3044	6	AC	130	FALSE	0	-6.52	0.07	0	TRUE	241	6.52												
									25378	4871	219	5188: 2893	6475: 3009	8	AC	130	FALSE	0	21.78	0.14	0	TRUE	219	21.78												
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									17907	4867	157	5875: 2839	15623: 2840	6	AC	130	FALSE	0	32.35	0.37	0	TRUE	157	32.35												
									22831	4866	188	11377: 2838	5875: 2839	6	AC	130	FALSE	0	38.06	0.43	0	TRUE	188	38.06												
									30648	4865	171	10523: 2709	14500: 2837	6	AC	130	FALSE	0	83.45	0.95	0.001	TRUE	171	83.45												
									19541	4864	311	16045: 2741	9628: 2713	10	AC	130	FALSE	0	-99.77	0.41	0	TRUE	311	99.77												
									34211	4863	509	4766: 2679	553: 2686	12	AC	130	FALSE	0	431.63	1.22	0.001	TRUE	509	431.63												
									35354	3946	14	15550: 6975	7053: 6976	8	AC	130	FALSE	0	-172.38	1.1	0.001	TRUE	14	172.38												

Baseline	2.700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
7438	5343	8	<None>	<Collection: 1 item>	16.84	180.5	74.8		23125	190885	6	4622: 5014	16535: 5015	8		130	FALSE	0	12.77	0.08	0	TRUE	6	12.77				Pressure	
8037	5397	8.1	<None>	<Collection: 1 item>	16.84	180.5	74.7		20916	190863	96	13955: 4258	5375: 4373	6		130	FALSE	0	58.44	0.66	0	TRUE	96	58.44				Average	76.2069
10327	5662	6.9	<None>	<Collection: 1 item>	16.84	180.3	75.2		34542	190861	52	9661: 4445	1541: 4503	8		130	FALSE	0	184.33	1.18	0.001	TRUE	52	184.33				Minimum	53.8
532	5181	3.8	<None>	<Collection: 1 item>	10.58	180.4	76.5		24500	190859	39	13796: 7158	3789: 7173	8		130	FALSE	0	50.45	0.32	0	TRUE	39	50.45				Maximum	79.9
6823	5228	2.5	<None>	<Collection: 1 item>	10.58	180	77		33995	190857	51	4153: 6378	1936: 6375	16		130	FALSE	0	194.93	0.31	0	TRUE	51	194.93				Velocity	
8648	5229	10	<None>	<Collection: 1 item>	10.58	180	73.7		36431	190855	88	3645: 6889	16707: 6817	8		130	FALSE	0	-141.47	0.9	0	TRUE	88	141.47				Average	0.27059
7594	4272	8.7	<None>	<Collection: 1 item>	9.34	181	74.7		32369	13373	29	14912: 8843	5493: 8842	24	PVC	130	FALSE	0	0	0	0	TRUE	29	0				Minimum	0
594	4804	7.7	<None>	<Collection: 1 item>	4.43	180.7	75		24130	13308	449	14912: 8843	4196: 8687	24	PVC	130	FALSE	0	15.13	0.01	0	TRUE	449	15.13				Maximum	1.84
1305	4791	7.7	<None>	<Collection: 1 item>	4.43	180.7	75		24854	13307	40	8277: 8686	11405: 8648	20	PVC	130	FALSE	0	12.62	0.01	0	TRUE	40	12.62				Flow	
3821	5282	8.5	<None>	<Collection: 1 item>	4.43	180.6	74.6		27084	13306	61	17226: 8238	16874: 8240	20	PVC	130	FALSE	0	0	0	0	TRUE	61	0				Average	58.6627
3956	4795	8.1	<None>	<Collection: 1 item>	4.43	180.7	74.9		29636	13303	38	4841: 8026	13377: 8030	12	PVC	130	FALSE	0	1.64	0	0	TRUE	38	1.64				Minimum	0
5488	4803	7.6	<None>	<Collection: 1 item>	4.43	180.7	75		31895	13302	8	4841: 8026	8264: 8034	12	PVC	130	FALSE	0	-8.47	0.02	0	TRUE	8	8.47				Maximum	704.97
6904	5281	8.2	<None>	<Collection: 1 item>	4.43	180.6	74.8		31458	13274	39	4723: 8573	4567: 8572	8	AC	130	FALSE	0	-2.51	0.02	0	TRUE	39	2.51					
9046	5283	9.5	<None>	<Collection: 1 item>	4.43	180.6	74.2		34638	13272	176	15431: 8527	3313: 8622	12	AC	130	FALSE	0	-146.28	0.41	0	TRUE	176	146.28					
9051	5273	8.5	<None>	<Collection: 1 item>	4.43	180.6	74.6		36233	13270	163	15431: 8527	8325: 8534	8	AC	130	FALSE	0	113.82	0.73	0	TRUE	163	113.82					
9754	5038	8.7	<None>	<Collection: 1 item>	4.43	180.7	74.5		28341	13264	250	12946: 8399	8325: 8534	8	AC	130	FALSE	0	-110.53	0.71	0	TRUE	250	110.53					
12035	4810	8.1	<None>	<Collection: 1 item>	4.43	180.7	74.8		31521	13262	42	11256: 8398	12946: 8399	6	AC	130	FALSE	0	-44.89	0.51	0	TRUE	42	44.89					
12824	5274	9.5	<None>	<Collection: 1 item>	4.43	180.6	74.2		22790	13261	33	8276: 8387	11256: 8398	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	33	1.64					
13928	5037	8.7	<None>	<Collection: 1 item>	4.43	180.7	74.5		26130	13253	12	17218: 8298	15021: 8314	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
544	6672	2.1	<None>	<Collection: 1 item>	4.09	179.5	76.9		28418	13252	37	17218: 8298	3298: 8299	8	AC	130	FALSE	0	-68.91	0.44	0	TRUE	37	68.91					
650	6148	1.3	<None>	<Collection: 1 item>	4.09	179.6	77.3		26934	13240	291	9980: 8179	3298: 8299	8	AC	130	FALSE	0	6.56	0.04	0	TRUE	291	6.56					
920	5818	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		30492	13239	12	9980: 8179	14140: 8184	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
1367	6894	6.7	<None>	<Collection: 1 item>	4.09	179.6	74.9		27702	13235	17	14825: 8118	13999: 8116	6	AC	130	FALSE	0	1.84	0.02	0	TRUE	17	1.84					
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2754	6250	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		22198	13232	32	16649: 8084	7118: 8105	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	32	1.64					
2833	7041	6.5	<None>	<Collection: 1 item>	4.09	179.6	75.1		32520	13231	155	16649: 8084	15374: 8087	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	155	1.64					
3017	6917	6.5	<None>	<Collection: 1 item>	4.09	179.6	75		26037	13229	249	15183: 8117	14838: 7950	12	AC	130	FALSE	0	22.81	0.06	0	TRUE	249	22.81					
3022	6777	1.5	<None>	<Collection: 1 item>	4.09	179.4	77.1		30198	13216	12	2566: 7955	2562: 7985	6	AC	130	FALSE	0	1.84	0.02	0	TRUE	12	1.84					
3261	7006	6.5	<None>	<Collection: 1 item>	4.09	179.6	75		32774	13213	68	3209: 7951	2311: 7954	12	AC	130	FALSE	0	-63.38	0.18	0	TRUE	68	63.38					
3669	7026	6.9	<None>	<Collection: 1 item>	4.09	179.6	74.9		26290	13211	56	7158: 7924	4900: 7957	6	AC	130	FALSE	0	-1.52	0.02	0	TRUE	56	1.52					
3885	6474	3.5	<None>	<Collection: 1 item>	4.09	179.5	76.3		17660	13210	56	2311: 7954	11647: 7923	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	56	1.64					
4097	6673	6.6	<None>	<Collection: 1 item>	4.09	179.5	74.9		33826	13197	10	16246: 6920	9401: 6919	8	AC	130	FALSE	0	-1.73	0.01	0	TRUE	10	1.73					
4339	6152	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		36035	13196	42	3645: 6889	9401: 6919	8	AC	130	FALSE	0	138.02	0.88	0	TRUE	42	138.02					
4352	7012	1.5	<None>	<Collection: 1 item>	4.09	179.3	77.1		27340	13195	215	6053: 7086	9401: 6919	8	PVC	130	FALSE	0	-99.79	0.64	0	TRUE	215	99.79					
4395	6270	1.5	<None>	<Collection: 1 item>	4.09	179.5	77.2		18690	13194	38	6510: 6985	10562: 6983	6	AC	130	FALSE	0	1.73	0.02	0	TRUE	38	1.73					
4878	6438	1.5	<None>	<Collection: 1 item>	4.09	179.5	77.1		19598	13193	22	13540: 6944	6514: 6945	6	AC	130	FALSE	0	1.73	0.02	0	TRUE	22	1.73					
4908	6617	1.5	<None>	<Collection: 1 item>	4.09	179.4	77.1		28996	13179	327	11174: 7806	7158: 7924	6	AC	130	FALSE	0	0.12	0	0	TRUE	327	0.12					
5664	7036	6.5	<None>	<Collection: 1 item>	4.09	179.6	75.1		35305	13178	577	16876: 7699	14838: 7950	12	AC	130	FALSE	0	-60.87	0.17	0	TRUE	577	60.87					
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6207	6691	6.8	<None>	<Collection: 1 item>	4.09	179.6	74.9		26700	13166	254	8807: 7772	5643: 7773	8	AC	130	FALSE	0	-50.62	0.32	0	TRUE	254	50.62					
6214	6671	1.7	<None>	<Collection: 1 item>	4.09	179.5	77.1		22793	13161	60	13883: 7743	8807: 7772	6	AC	130	FALSE	0	-6.65	0.08	0	TRUE	60	6.65					
6288	7045	6.4	<None>	<Collection: 1 item>	4.09	179.6	75.1		20274	13159	12	13094: 7745	16309: 7747	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
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6295	7035	6.5	<None>	<Collection: 1 item>	4.09	179.6	75.1		21396	13157	85	6423: 7698	13094: 7745	8	AC	130	FALSE	0	78.26	0.5	0	TRUE	85	78.26					
6566	6710	6.8	<None>	<Collection: 1 item>	4.09	179.6	74.9		33980	13155	600	15959: 7684	3209: 7951	12	PVC	130	FALSE	0	232.37	0.66	0	TRUE	600	232.37					
6714	6460	5.4	<None>	<Collection: 1 item>	4.09	179.7	75.6		28421	13152	57	6075: 7685	15959: 7684	8	AC	130	FALSE	0	14.4	0.09	0	TRUE	57	14.4					
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7781	6971	1.4	<None>	<Collection: 1 item>	4.09	179.5	77.2		30038	13150	805	6728: 7400	16876: 7699	12	AC	130	FALSE	0	30.69	0.09	0	TRUE	805	30.69					
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8344	5853	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		28435	13142	18	14294: 7591	7607: 7592	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	18	1.64					
8680	6100	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		30495	13139	12	4894: 7554	13589: 7555	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	12	1.64					
8790	6694	-3.5	<None>	<Collection: 1 item>	4.09	179.6	79.4		35852	13123	339	290: 7486	13589: 7555	8	AC	130	FALSE	0	-6.66	0.04	0	TRUE	339	6.66					
8904	6871	6.7	<None>	<Collection: 1 item>	4.09	179.6	74.9		19122	13122	12	73: 7473	3617: 7474	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
8971	6870	6.7	<None>	<Collection: 1 item>	4.09	179.6	75		20765	13120	189	6608: 7398	73: 7473	8	AC	130	FALSE	0	32.31	0.21	0	TRUE	189	32.31					
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11011	6522	4.4	<None>	<Collection: 1 item>	4.09	179.5	75.9		31896	13102	12	13185: 7194	8889: 7195	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	12	1.64					
11187	7042	6.5	<None>	<Collection: 1 item>	4.09	179.6	75.1		25079	13098	24	1047: 7087	12425: 7088	6	AC	130	FALSE	0	1.73	0.02	0	TRUE	24	1.73					
11276	6924	6.5	<None>	<Collection: 1 item>	4.09	179.6	75		33825	13097	14	432: 7085	6053: 7086	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	14	1.73					
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11633	6806	1.5	<None>	<Collection: 1 item>	4.09	179.4	77.1		18689	13094	25	3261: 7006	6292: 7005	6	AC	130	FALSE	0	4.09	0.05	0	TRUE	25	4.09					
12635	6856	6.7	<None>	<Collection: 1 item>	4.09	179.6	75		32127	13091	114	11309: 6923	3261: 7006	8	AC	130	FALSE	0	22.49	0.14	0	TRUE	114	22.49					
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14059	5867	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		33466	13089	8	3017: 6917	11276: 6924	6	AC	130	FALSE	0	-4.09	0.05	0	TRUE	8	4.09					
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15038	7030	6.4	<None>	<Collection: 1 item>	4.09	179.6	75.1		29007	13081	42	14573: 6620	10428: 6626	12	PVC	130	FALSE	0	-1.73	0	0	TRUE	42	1.73					
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									35340	2126	40	7594: 4272	8101: 4314	8	AC	130	FALSE	0	90.14	0.58	0	TRUE	40	90.14												
									19905	2125	481	6985: 4277	9826: 4280	8	AC	130	FALSE	0	-39.62	0.25	0	TRUE	481	39.62												
									31651	2124	254	2535: 4118	7594: 4272	8	AC	130	FALSE	0	63.95	0.41	0	TRUE	254	63.95												

										30121	2123	37	6933: 4269	9829: 4270	6	AC	130	FALSE	0	-13.81	0.16	0	TRUE	37	13.81											
										25711	2122	260	10732: 4110	9829: 4270	6	AC	130	FALSE	0	44.79	0.51	0	TRUE	260	44.79											
										19818	2121	249	10867: 4111	9828: 4260	6	AC	130	FALSE	0	3.55	0.04	0	TRUE	249	3.55											
										35948	2120	260	13955: 4258	7796: 4100	6	AC	130	FALSE	0	-49.95	0.57	0	TRUE	260	49.95											
										22520	2118	152	3229: 4119	287: 4122	6	AC	130	FALSE	0	-4.87	0.06	0	TRUE	152	4.87											
										19445	2117	58	12303: 4112	10867: 4111	6	AC	130	FALSE	0	-3.66	0.04	0	TRUE	58	3.66											
										35343	2116	40	13026: 4109	10732: 4110	6	AC	130	FALSE	0	5.64	0.06	0	TRUE	40	5.64											
										34523	2114	43	2969: 3970	7185: 4009	8	AC	130	FALSE	0	53.31	0.34	0	TRUE	43	53.31											
										34291	2113	40	10409: 4004	9700: 3964	6	AC	130	FALSE	0	-13.31	0.15	0	TRUE	40	13.31											
										28530	2112	453	16129: 3982	9281: 3985	6	AC	130	FALSE	0	-18.82	0.21	0	TRUE	453	18.82											
										22822	2111	38	2355: 3962	16351: 3963	6	AC	130	FALSE	0	50.86	0.58	0	TRUE	38	50.86											
										36172	2110	21	3912: 3960	16741: 3961	6	AC	130	FALSE	0	57.79	0.66	0	TRUE	21	57.79											
										22519	2108	60	13962: 3542	17421: 3540	8	AC	130	FALSE	0	109.23	0.7	0	TRUE	60	109.23											
										19444	2107	59	16841: 3486	127: 3547	6	AC	130	FALSE	0	42.8	0.49	0	TRUE	59	42.8											
										34522	2104	578	7474: 3834	17483: 3840	6	AC	130	FALSE	0	-10.43	0.12	0	TRUE	578	10.43											
										30123	2103	264	6999: 3833	1612: 3687	8	AC	130	FALSE	0	-58	0.37	0	TRUE	264	58											
										21058	2099	59	15931: 3481	7147: 3546	6	AC	130	FALSE	0	15.69	0.18	0	TRUE	59	15.69											

Updated	6,700 GPM																														
Junction Properties									Pipeline Properties																						
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)								
4929	18396	4.7	<None>	<Collection: 1 item>	773.95	169.2	71.3		19084	P591	627	17553: 17741	2282: 17484	8		130	FALSE	0	-25.75	0.16	0	TRUE	627	25.75				Pressure			
1713	18683	1.5	<None>	<Collection: 1 item>	171.18	170.2	73.1		17819	P589	28	11237: 17099	16060: 17102	6		130	FALSE	0	1.89	0.02	0	TRUE	28	1.89				Average	73.1893		
17438	18682	1.5	<None>	<Collection: 1 item>	171.18	170.2	73.1		18415	P419	147	12915: J288	3967: J290	12		130	FALSE	0	133.54	0.38	0	TRUE	147	133.54				Minimum	65.1		
2742	190746	9	<None>	<Collection: 1 item>	139.15	172.1	70.7		20503	P417	186	14311: J286	12915: J288	12		130	FALSE	0	91.75	0.26	0	TRUE	186	91.75				Maximum	76.1		
15703	17140	5.4	<None>	<Collection: 1 item>	64.58	171.7	72.1		21809	P415	245	2195: J284	14311: J286	12		130	FALSE	0	73.88	0.21	0	TRUE	245	73.88				Velocity			
11667	18462	2	<None>	<Collection: 1 item>	52.03	170	72.8		34350	P413	447	13309: J282	14311: J286	12		130	FALSE	0	20.96	0.06	0	TRUE	447	20.96				Average	0.23374		
12736	18408	1.4	<None>	<Collection: 1 item>	52.03	170	73.1		23207	P411	567	15327: J294	12915: J288	12		130	FALSE	0	44.88	0.13	0	TRUE	567	44.88				Minimum	0		
17441	18282	1.5	<None>	<Collection: 1 item>	52.03	169.6	72.9		18414	P409	215	13309: J282	15327: J294	12		130	FALSE	0	47.98	0.14	0	TRUE	215	47.98				Maximum	6.35		
1129	18132	1.5	<None>	<Collection: 1 item>	44.43	170.2	73.1		30580	P407	211	10229: J280	13309: J282	12		130	FALSE	0	72.04	0.2	0	TRUE	211	72.04				Flow			
14591	18360	1.5	<None>	<Collection: 1 item>	44.43	170	73.1		21808	P405	367	12920: J278	10229: J280	12		130	FALSE	0	77.09	0.22	0	TRUE	367	77.09				Average	#VALUE!		
16021	18213	1.5	<None>	<Collection: 1 item>	44.43	170.2	73.1		34349	P403	71	8992: J276	12920: J278	12		130	FALSE	0	80.18	0.23	0	TRUE	71	80.18				Minimum	#VALUE!		
16705	18381	3.3	<None>	<Collection: 1 item>	33.19	170.4	72.4		23206	P401	313	2195: J284	10229: J280	12		130	FALSE	0	-1.95	0.01	0	TRUE	313	1.95				Maximum	#VALUE!		
5977	18554	4.4	<None>	<Collection: 1 item>	32.11	170.3	71.9		30921	P399	466	8992: J276	2195: J284	12		130	FALSE	0	75.03	0.21	0	TRUE	466	75.03							
9908	18431	5.7	<None>	<Collection: 1 item>	20.5	169.2	70.9		33585	P397	359	3224: J274	8992: J276	12		130	FALSE	0	158.31	0.45	0	TRUE	359	158.31							
10686	18432	5.8	<None>	<Collection: 1 item>	20.5	169.2	70.9		23333	P393	23	6620: 17767	13310: J292	8	AC	130	FALSE	0	-54.37	0.35	0	TRUE	23	54.37							
17227	18433	5.8	<None>	<Collection: 1 item>	20.5	169.2	70.9		21682	P287	275	7338: J178	3243: J180	8		130	FALSE	0	2.19	0.01	0	TRUE	275	2.19							
1939	18192	1.5	<None>	<Collection: 1 item>	20.26	169.9	73		24938	P285	122	3243: J180	6411: J176	8		130	FALSE	0	1.09	0.01	0	TRUE	122	1.09							
2522	17943	1.5	<None>	<Collection: 1 item>	20.26	170.5	73.3		32225	P281	126	13233: J182	7338: J178	8		130	FALSE	0	3.28	0.02	0	TRUE	126	3.28							
3690	18102	1.5	<None>	<Collection: 1 item>	20.26	170.1	73.1		19117	P279	121	13233: J182	6618: 17887	6	AC	130	FALSE	0	-61.22	0.69	0	TRUE	121	61.22							
5567	18103	1.5	<None>	<Collection: 1 item>	20.26	170.1	73.1		25739	P159	19	10334: 17907	8782: J66	6		130	FALSE	0	-0.68	0.01	0	TRUE	19	0.68							
13514	18193	1.5	<None>	<Collection: 1 item>	20.26	169.9	73		35095	P157	320	3586: 17929	8782: J66	6	AC	130	FALSE	0	-10.84	0.12	0	TRUE	320	10.84							
2292	18304	1.1	<None>	<Collection: 1 item>	19.5	169.6	73		19143	P153	62	6770: J64	10809: 17119	12		130	FALSE	0	-71.88	0.2	0	TRUE	62	71.88							
13516	18393	2.6	<None>	<Collection: 1 item>	19.5	169.2	72.2		19926	P151	124	5242: 17026	6770: J64	12	AC	130	FALSE	0	362.76	1.03	0	TRUE	124	362.76							
16704	18281	1.3	<None>	<Collection: 1 item>	19.5	169.6	72.9		27887	P105	17	15928: J46	8590: 17750	8		130	FALSE	0	1.67	0.01	0	TRUE	17	1.67							
2729	17909	1.5	<None>	<Collection: 1 item>	17.11	170.6	73.3		24084	P103	434	9950: 17654	15928: J46	8	AC	130	FALSE	0	17.61	0.11	0	TRUE	434	17.61							
8850	18094	1.3	<None>	<Collection: 1 item>	17.11	170.3	73.3		37602	P-SETM-d	4,559	37595: J-SETM-c	37601: J-SETM-e	36	Ductile Iron	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!							
13372	17764	-3.8	<None>	<Collection: 1 item>	17.11	170.8	75.7		39140	P-997	158	39134: J-670	39137: J-671	12	PVC	130	FALSE	0	98.99	0.28	0	FALSE	0	98.99							
15164	17765	-3.4	<None>	<Collection: 1 item>	17.11	170.8	75.5		39136	P-996(2)	641	39134: J-670	39130: J-669	12	PVC	130	FALSE	0	-60.68	0.17	0	FALSE	0	60.68							
15263	17977	1.2	<None>	<Collection: 1 item>	17.11	170.5	73.4		39135	P-996(1)	62	39128: J-668	39134: J-670	12	PVC	130	FALSE	0	38.31	0.11	0	FALSE	0	38.31							
3465	18280	4.6	<None>	<Collection: 1 item>	8.9	169.6	71.5		39129	P-995	825	39126: J-667	39128: J-668	12	PVC	130	FALSE	0	38.31	0.11	0	FALSE	0	38.31							
15983	18284	4.8	<None>	<Collection: 1 item>	8.9	169.6	71.4		38445	P-634	71	3967: J290	38442: J-414	12	PVC	130	FALSE	0	130.44	0.37	0	FALSE	0	130.44							
14377	18130	5.2	<None>	<Collection: 1 item>	8.8	170.5	71.7		38444	P-633	231	38442: J-414	14669: 17703	8	AC	130	FALSE	0	66.9	0.43	0	TRUE	231	66.9							
1714	18083	6	<None>	<Collection: 1 item>	6.2	172.1	72		38443	P-632	107	13876: 17731	38442: J-414	8	AC	130	FALSE	0	-63.54	0.41	0	TRUE	107	63.54							
7311	18200	5.4	<None>	<Collection: 1 item>	6.2	172	72.2		38441	P-631	76	38434: J-412	38438: J-413	8	PVC	130	FALSE	0	44.68	0.29	0	FALSE	0	44.68							
8654	18099	6.6	<None>	<Collection: 1 item>	6.2	172.2	71.8		38440	P-630	31	38438: J-413	13876: 17731	8	AC	130	FALSE	0	-61.07	0.39	0	TRUE	30	61.07							
8853	18394	3.5	<None>	<Collection: 1 item>	6.2	170.1	72.2		38439	P-629	932	14548: 17295	38438: J-413	8	AC	130	FALSE	0	-105.76	0.68	0	TRUE	932	105.76							
12614	18233	6.1	<None>	<Collection: 1 item>	6.2	172	71.9		38437	P-628	1,165	627: 190742	38434: J-412	12	PVC	130	FALSE	0	44.68	0.13	0	FALSE	0	44.68							
13269	18197	5.2	<None>	<Collection: 1 item>	6.2	172	72.3		38436	P-627	100	38434: J-412	13310: J292	12		130	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	100	#VALUE!							
15984	18384	2.7	<None>	<Collection: 1 item>	6.2	170.3	72.7		38435	P-626	155	3967: J290	38434: J-412	12		130	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	155	#VALUE!							
16703	18081	5.5	<None>	<Collection: 1 item>	6.2	172	72.2		37111	P-88	182	37109: J-137	15259: 17296	8	PVC	130	FALSE	0	-91.23	0.58	0	TRUE	181	91.23							
6651	18351	1.3	<None>	<Collection: 1 item>	5.91	170.4	73.3		37110	P-87	555	10976: 17646	37109: J-137	8	PVC	130	FALSE	0	-91.23	0.58	0	TRUE	555	91.23							
7323	18352	1.2	<None>	<Collection: 1 item>	5.91	170.4	73.4		36928	P-9	55	36921: J-86	36927: SE RESERVOIR PROPOSED	36	Ductile Iron	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!							
11058	18135	1.5	<None>	<Collection: 1 item>	5.56	170.6	73.3		36926	P-8	34	36921: J-86	36925: POSEIDON PROPOSED	20	Ductile Iron	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!							
12613	18133	1.7	<None>	<Collection: 1 item>	5.56	170.6	73.2		36923	P-7	11,410	36921: J-86	7540: 12771	36	Ductile Iron	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!							
2283	17584	1.5	<None>	<Collection: 1 item>	5.51	171.6	73.8		36922	P-6	16	16704: 18281	36921: J-86	36	Ductile Iron	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!							
2944	17581	1.5	<None>	<Collection: 1 item>	5.51	171.6	73.8		34412	190833	282	9523: 17147	3811: 17138	12		130	FALSE	0	13.86	0.04	0	TRUE	282	13.86							
5051	17300	1.5	<None>	<Collection: 1 item>	5.51	171.6	73.8		34513	190831	4	6167: 17804	17318: 17811	8		130	FALSE	0	21.02	0.13	0	TRUE	4	21.02							
6111	17306	1.5	<None>	<Collection: 1 item>	5.51	171.6	73.8		33361	190827	8	339: 18010	5179: 18008	6		130	FALSE	0	14.54	0.17	0	TRUE	8	14.54							
6603	17297	1.5	<None>	<Collection: 1 item>	5.51	171.7	73.8		20098	190785	276	8774: 17576	3575: 17447	8		130	FALSE	0	-44.34	0.28	0	TRUE	276	44.34							
10360	17451	1.5	<None>	<Collection: 1 item>	5.51	171.6	73.8		25740	190783	42	17086: 18521	7820: 190834	12		130	FALSE	0	-54.63	0.15	0	TRUE	42	54.63							
11929	17169	1.5	<None>	<Collection: 1 item>	5.51	171.7	73.8		31452	190781	85	8517: 18519	17086: 18521	12		130	FALSE	0	-54.21	0.15	0	TRUE	85	54.21							
12813	17294	1.5	<None>	<Collection: 1 item>	5.51	171.7	73.8		27826	190779	423	693: 18525	7820: 190834	12		130	FALSE	0	55.05	0.16	0	TRUE	423	55.05							
15166	17165	1.5	<None>	<Collection: 1 item>	5.51	171.7	73.8		36032	190777	12	16698: 18518	7820: 190834	6		130	FALSE	0	-0.42	0	0	TRUE	12	0.42							
15259	17296	7	<None>	<Collection: 1 item>	5.51	171.8	71.4		30846	190775	1,498	13956: 18090	8850: 18094	12		130	FALSE	0	-138.82	0.39	0	TRUE	1,500	138.82							
17550	17441	1.5	<None>	<Collection: 1 item>	5.51	171.6	73.8		25686	190773	60	9634: 17522	8315: 17523	8		130	FALSE	0	7.88	0.05	0	TRUE	60	7.88							
1941	18392	5.2	<None>	<Collection: 1 item>	5.06	170.6	71.7		36043	190741	305	3993: 18242	16977: 18243	8		130	FALSE	0	14.12	0.09	0	TRUE	305	14.12							
15198	18340	5.2	<None>	<Collection: 1 item>	5.06	170.6	71.7		32640	190739	218	5181: 18208	3902: 18172	8		130	FALSE	0	-28.28	0.18	0	TRUE	218	28.28							
7948	18346	1.3	<None>	<Collection: 1 item>	5.06	170.4	73.3		19904	190737	122	11287: 18265	5757: 18266	8		130	FALSE	0	-45.92	0.29	0	TRUE	122	45.92							
12699	18354	1.4	<None>	<Collection: 1 item>	5.06	170.4	73.3		31264	190733	41	8256: 18667	6400: 18674	8		130	FALSE	0	0.92	0.01	0	TRUE	41	0.92							
12990	18344	1.5	<None>	<Collection: 1 item>	5.06	170.4	73.2		17987	190731	352	1351: 18688	6400: 18674	8		130	FALSE	0	-0.5	0	0	TRUE	355	0.5							
13682	18341	3.1	<None>	<Collection: 1 item>	5.06	170.5	72.6		18458	190689	295	7255: 18437	4929: 18396	12		130	FALSE	0	208.73	0.59	0	TRUE	295	208.73							
16978	18343	1.4	<None>	<Collection: 1 item>	5.06	170.4	73.3		31827	190599	827	2742: 190746	627: 190742	18		145	FALSE	0	268.72	0.34	0	TRUE	827	268.72							
5581	18369	1.5	<None>	<Collection: 1 item>	4.98	170.3	73.2		33976	190591	658	12817: 18214	627: 190742	12		145	FALSE	0	-224.04	0.64	0	TRUE	658	224.04							
14887	18516	1.5	<None>	<Collection: 1 item>	4.98	170.1	73.1		23539	190589	922	13314: J72	2742: 190746	18		145	FALSE	0	407.86	0.51	0	TRUE	922	407.86							
507	18246	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		32876	190585	25	10627: 17114	2851: 190740	12		130	FALSE	0	245.84	0.7	0	TRUE	25	245.84							
3464	18180	1.5	<None>	<Collection: 1 item>	4.72	170.6	73.3		19550	190583	32	8058: 17075	2381: 190738	12		130	FALSE	0	-249.65	0.71	0	TRUE	32	249.65							
3764	18248	2.2	<None>	<Collection: 1 item>	4.72	170.5	73		25252	190581	157	2851: 190740	2381: 190738	12		145	FALSE	0	255.95	0.73	0	TRUE	157	255.95							
3993	18242	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		26710	190441	66	16786: 17730	3036: 17737	8		130	FALSE	0	88.29	0.56	0	TRUE	66	88.29							
5181	18208	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		31191	20813	12	16383: 18524	1126: 18532	6	AC	130	FALSE	0	0	0	0	TRUE	12	0							
11844	18236	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		24935	20812	945	12985: 18544	10890: 18434	16	AC	130	FALSE	0	-322.91	0.52	0	TRUE	945	322.91							
13430	18247	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		18714	20811	606	6825: 18477	6398: 18474	8	AC	130	FALSE	0	-10.95	0.07	0	TRUE	606	10.95							
13663	18237	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		27359	20810	12	6825: 18477	6225: 18478	6	AC	130	FALSE	0	0.42	0	0	TRUE	12	0.42							
14760	18245	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		22509	20809	11	6398: 18474	5004: 18475	6	AC	130	FALSE	0	0.42	0	0	TRUE	11	0.42							
17003	18239	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		33925	20808	106	6398: 18474	10219: 18463	8	AC	130	FALSE	0	-11.8	0.08	0	TRUE	106	11.8							
17440	18182	2.6	<None>	<Collection: 1 item>	4.72	170.6	72.8		20571	20807	150	12200: 18438	16305: 18411	8	AC	130	FALSE	0	-9.46	0.06	0	TRUE	150	9.46							
16977	18243	1.5	<None>	<Collection: 1 item>	4.72	170.5	73.3		25870	20806	62	692: 18425	10890: 18434	8	AC	130	FALSE	0	-59.54	0.38	0	TRUE	62	59.54							
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3765	18348	1.4	<None>	<Collection: 1 item>	3.81	170.4	73.3		34265	20804	474	335: 18410	10219: 18463	8	AC	130	FALSE	0	-13.39	0.09	0	TRUE	474	13.39							
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608	18229	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.3	23932		16504	13	9933: 17024	9373: 17028	6	AC	130	FALSE	0	2.47	0.03	0	TRUE	13	2.47							
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693	18525	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	32216		16501	25	11038: 16999	5048: 17000	6	AC	130	FALSE	0	2.47	0.03	0	TRUE	25	2.47							
697	18225	2.8	<None>	<Collection: 1 item>	0.42	170.5	72.7	19520		16500	48	13312: 16991	14006: 16992	8	AC	130	FALSE	0	19.75	0.13	0	TRUE	48	19.75							
777	18044	1.2	<None>	<Collection: 1 item>	0.42	170.6	73.4	33975		16499	321	9933: 17024	7549: 16872	12	AC	130	FALSE	0	3.13	0.01	0	TRUE	321	3.13							
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1206	18406	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	29333		16481	342	568: 16842	13312: 16991	6	AC	130	FALSE	0	-7.41	0.08	0	TRUE	342	7.41							
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2629	18608	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	33299		6935	40	5580: 18269	11785: 18249	16	AC	130	FALSE	0	-480.31	0.77	0	TRUE	40	480.31							
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2736	18487	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	30564		6933	152	8257: 18267	5757: 18266	8	AC	130	FALSE	0	49.33	0.31	0	TRUE	152	49.33							
2738	18687	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	28901		6931	147	11287: 18265	9448: 18264	8	AC	130	FALSE	0	42.51	0.27	0	TRUE	147	42.51							
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3357	17821	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		32182	6906	65	3874: 18120	16236: 18143	8	AC	130	FALSE	0	50.47	0.32	0	TRUE	65	50.47					
3402	18513	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		33300	6905	1	1759: 18128	607: 18129	12	AC	130	FALSE	0	0	0	0	TRUE	1	0					
3460	18480	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		23369	6904	181	5690: 18125	3111: 18127	12	AC	130	FALSE	0	-169.9	0.48	0	TRUE	181	169.9					
3461	18580	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		24796	6903	111	3111: 18127	9491: 18126	12	AC	130	FALSE	0	-90.03	0.26	0	TRUE	111	90.03					
3466	18380	2	<None>	<Collection: 1 item>	0.42	170.40	73		35256	6902	109	16386: 18124	5690: 18125	12	AC	130	FALSE	0	-164.48	0.47	0	TRUE	109	164.48					
3691	18302	6	<None>	<Collection: 1 item>	0.42	170.4	71.3		28902	6901	162	8487: 18123	16386: 18124	12	AC	130	FALSE	0	-160.59	0.46	0	TRUE	162	160.59					
3807	17938	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		24877	6900	235	17090: 18121	8487: 18123	12	AC	130	FALSE	0	-156.7	0.44	0	TRUE	235	156.7					
3875	18220	1.8	<None>	<Collection: 1 item>	0.42	170.5	73.1		28911	6899	209	3874: 18120	17090: 18121	12	AC	130	FALSE	0	-152.82	0.43	0	TRUE	209	152.82					
3901	18072	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		19336	6898	259	13268: 18097	14376: 18030	16	AC	130	FALSE	0	-679.93	1.08	0	TRUE	259	679.93					
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4064	17985	1.2	<None>	<Collection: 1 item>	0.42	170.6	73.5		32093	6896	183	11338: 18068	13853: 18067	6	AC	130	FALSE	0	-6.16	0.07	0	TRUE	183	6.16					
4077	18305	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		34554	6895	57	14376: 18030	5689: 18025	16	AC	130	FALSE	0	-631.08	1.01	0	TRUE	57	631.08					
4128	17822	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		26364	6894	228	1758: 18028	3110: 18027	8	AC	130	FALSE	0	-3.89	0.02	0	TRUE	228	3.89					
4298	18375	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		21621	6893	234	5689: 18025	3679: 17982	16	AC	130	FALSE	0	-724.51	1.16	0	TRUE	234	724.51					
4800	17986	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		18928	6892	208	5871: 18024	8486: 18023	8	AC	130	FALSE	0	88	0.56	0	TRUE	208	88					
4812	18306	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		28085	6891	4	11765: 17999	180: 17998	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	4	1.94					
5004	18475	4.6	<None>	<Collection: 1 item>	0.42	170.4	71.8		27434	6890	72	3679: 17982	79: 17958	16	AC	130	FALSE	0	-726.45	1.16	0	TRUE	72	726.45					
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5008	18075	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		24558	6888	46	12289: 17960	9154: 17959	6	AC	130	FALSE	0	-70.23	0.8	0.001	TRUE	46	70.23					
5020	18476	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		20184	6887	6	79: 17958	12262: 17956	16	AC	130	FALSE	0	-800.57	1.28	0	TRUE	6	800.57					
5027	18376	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		34802	6886	725	12262: 17956	3036: 17737	16	AC	130	FALSE	0	-871.22	1.39	0	TRUE	725	871.22					
5180	18108	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		30405	6885	297	16415: 17933	17319: 17911	6	AC	130	FALSE	0	-23.18	0.26	0	TRUE	297	23.18					
5182	18308	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		25955	6884	14	14604: 17932	16415: 17933	6	AC	130	FALSE	0	-10.62	0.12	0	TRUE	14	10.62					
5499	18350	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		21620	6883	14	13870: 17931	16415: 17933	6	AC	130	FALSE	0	-10.62	0.12	0	TRUE	14	10.62					
5576	18669	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		28775	6882	0	14604: 17932	13870: 17931	6	AC	130	FALSE	0	2.84	0.03	0	TRUE	0	2.84					
5579	18169	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		28084	6881	57	17319: 17911	533: 17912	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	57	1.94					
5779	18073	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		27433	6880	398	12803: 17894	746: 17842	8	AC	130	FALSE	0	5.83	0.04	0	TRUE	398	5.83					
5831	18378	4	<None>	<Collection: 1 item>	0.42	170.4	72.1		28919	6879	308	7712: 17872	6374: 17888	6	AC	130	FALSE	0	16.37	0.19	0	TRUE	308	16.37					
5978	18654	1.5	<None>	<Collection: 1 item>	0.42	170	73		24563	6878	17	7983: 17878	5554: 17883	6	AC	130	FALSE	0	-33.87	0.38	0	TRUE	17	33.87					
6047	18413	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		35232	6877	6	8770: 17876	7983: 17878	6	AC	130	FALSE	0	-31.92	0.36	0	TRUE	6	31.92					
6225	18478	2.5	<None>	<Collection: 1 item>	0.42	170.4	72.8		34808	6876	3	15262: 17877	8770: 17876	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	3	1.94					
6226	18578	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		28981	6875	267	8770: 17876	9474: 17873	6	AC	130	FALSE	0	28.04	0.32	0	TRUE	267	28.04					
6231	18459	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		25965	6874	45	9474: 17873	7712: 17872	6	AC	130	FALSE	0	24.15	0.27	0	TRUE	45	24.15					
6271	18503	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		22771	6873	9	3585: 17829	13869: 17831	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	9	1.94					
6313	18415	4.1	<None>	<Collection: 1 item>	0.42	170.4	72.1		19731	6872	3	5236: 17826	7030: 17827	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	3	1.94					
6314	18515	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		35590	6871	5	6007: 17823	7030: 17827	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	5	1.94					
6315	18615	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		32489	6870	108	16786: 17730	3592: 17729	8	AC	130	FALSE	0	-91.26	0.58	0	TRUE	108	91.26					
6350	17874	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		28918	6869	150	5619: 17728	5241: 17726	8	AC	130	FALSE	0	-55.81	0.36	0	TRUE	150	55.81					
6351	17974	2.4	<None>	<Collection: 1 item>	0.42	170.6	72.9		24562	6868	102	5241: 17726	8628: 17725	8	AC	130	FALSE	0	-58.77	0.38	0	TRUE	102	58.77					
6398	18474	4.5	<None>	<Collection: 1 item>	0.42	170.4	71.9		35231	6867	397	7000: 17602	8317: 17723	8	AC	130	FALSE	0	72.3	0.46	0	TRUE	397	72.3					
6401	18074	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		21128	6866	944	10806: 17619	6626: 17187	16	AC	130	FALSE	0	-746.07	1.19	0	TRUE	944	746.07					
6619	17987	1.3	<None>	<Collection: 1 item>	0.42	170.7	73.4		28980	6865	134	15086: 17558	7000: 17602	8	AC	130	FALSE	0	75.26	0.48	0	TRUE	134	75.26					
6632	18307	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		22770	6863	118	6223: 17498	15086: 17558	8	AC	130	FALSE	0	76.74	0.49	0	TRUE	118	76.74					
6646	18651	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		19730	6862	259	748: 17542	9057: 17538	6	AC	130	FALSE	0	-4.44	0.05	0	TRUE	259	4.44					
6648	18051	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		32488	6860	323	8713: 17400	9057: 17538	6	AC	130	FALSE	0	48.71	0.55	0	TRUE	323	48.71					
6649	18151	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		28921	6859	46	6171: 17404	7871: 17405	6	AC	130	FALSE	0	-56.42	0.64	0	TRUE	46	56.42					
6767	18504	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		24565	6858	250	3688: 17382	3809: 17383	6	AC	130	FALSE	0	51.74	0.59	0	TRUE	250	51.74					
6825	18477	2.6	<None>	<Collection: 1 item>	0.42	170.4	72.7		35234	6857	250	9124: 17378	2950: 17381	8	AC	130	FALSE	0	63.59	0.41	0	TRUE	250	63.59					
6826	18577	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		32101	6856	202	8780: 17376	9124: 17378	8	AC	130	FALSE	0	69.51	0.44	0	TRUE	202	69.51					
6900	18538	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		28983	6855	60	6626: 17187	9953: 17154	16	AC	130	FALSE	0	-652.7	1.04	0	TRUE	60	652.7					
7031	17927	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		25893	6854	500	2286: 17184	4071: 17185	12	AC	130	FALSE	0	-176.31	0.5	0	TRUE	500	176.31					
7055	17871	1.2	<None>	<Collection: 1 item>	0.42	170.6	73.4		22773	6853	84	4005: 17157	81: 17158	8	AC	130	FALSE	0	-171.77	1.1	0.001	TRUE	84	171.77					
7066	18418	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		19733	6852	5	81: 17158	8592: 17150	8	AC	130	FALSE	0	-237.83	1.52	0.001	TRUE	5	237.83					
7312	18300	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		31848	6851	61	12269: 17156	4005: 17157	8	AC	130	FALSE	0	-109.42	0.7	0	TRUE	61	109.42					
7318	18412	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		32491	6850	64	9953: 17154	17079: 17155	8	AC	130	FALSE	0	-93.37	0.6	0	TRUE	64	93.37					
7319	18512	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		28920	6849	15	8592: 17150	10365: 17151	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	15	1.48					
7320	18612	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		24564	6848	23	10300: 17112	15490: 17110	6	AC	130	FALSE	0	3.27	0.04	0	TRUE	23	3.27					
7321	18152	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		35233	6847	588	10300: 17112	13318: 16791	16	AC	130	FALSE	0	-562.61	0.9	0	TRUE	588	562.61					
7501	18070	1.7	<None>	<Collection: 1 item>	0.42	170.6	73.2		32100	6846	40	12295: 17060	42: 17041	8	AC	130	FALSE	0	-274.12	1.75	0.002	TRUE	40	274.12					
7615	18414	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		28982	6845	250	42: 17041	15702: 17040	6	AC	130	FALSE	0	-51.88	0.59	0	TRUE	250	51.88					
7713	17972	1.3	<None>	<Collection: 1 item>	0.42	170.7	73.4		25892	6844	42	13196: 16964	9289: 16973	6	AC	130	FALSE	0	-2.96	0.03	0	TRUE	42	2.96					
7920	17996	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		22772	6843	338	724: 16915	3137: 16917	6	AC	130	FALSE	0	4.44	0.05	0	TRUE	338	4.44					
7945	18046	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		19732	6842	253	2126: 16784	16915: 16914	6	AC	130	FALSE	0	97.48	1.11	0.001	TRUE	253	97.48					
7977	17975	2.6	<None>	<Collection: 1 item>	0.42	170.6	72.8		17919	6567	707	1756: 18528	1418: 18526	12	AC	130	FALSE	0	30.88	0.09	0	TRUE	707	30.88					
7984	17978	1.6	<None>	<Collection: 1 item>	0.42	170.6	73.3		21869	6566	206	11054: 18535	11840: 18536	12	AC	130	FALSE	0	-180.47	0.51	0	TRUE	206	180.47					
8256	18667	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		33781	6565	217	9221: 18534	11054: 18535	12	AC	130	FALSE	0	-180.47	0.51	0	TRUE	217	180.47					
8265	18168	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		30629	6564	146	477: 18542	517: 18540	12	AC	130	FALSE	0	-131.57	0.37	0	TRUE	146	131.57					
8360	18456	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		27507	6563	114	16999: 18539	477: 18542	12	AC	130	FALSE	0	-130.73	0.37	0	TRUE	114	130.73					
8362	18656	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		21332	6561	279	12219: 18677	304: 18685	8	AC	130	FALSE	0	1.62	0.01	0	TRUE	279	1.62					
8488	18223	4.1	<None>	<Collection: 1 item>	0.42	170.5	72.2		18254	6560	8	17438: 18682	1713: 18683	16	AC	130	FALSE	0	88.75	0.14	0	TRUE	8	88.75					
8517	18519	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		27156	6559	633	17438: 18682	11783: 18649	16	AC	130	FALSE	0	-259.92	0.41	0	TRUE	633	259.92					
8656	18299	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		18288	6558	101	5576: 18669	6227: 18678	12	AC	130	FALSE	0	88.19	0.25	0	TRUE	101	88.19					
8703	18458	6	<None>	<Collection: 1 item>	0.42	170.3	71.2		30632	6554	180	8866: 18660	5576: 18669	12	AC	130	FALSE	0	92.84	0.26	0	TRUE	180	92.84					
8705	18658	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		27510	6553	477	8820: 18666	10270: 18668	8	AC	130	FALSE	0	-1.77	0.01	0	TRUE	477	1.77					
8820	18666	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		24409	6552	72	8256: 18667	8820: 18666	8	AC	130	FALSE	0	-1.34	0.01	0	TRUE	72	1.34					
8866	18660	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		33144	6551	37	13148: 18662	10221: 18663	6	AC	130	FALSE	0	0.85	0.01	0	TRUE	37	0.85					
8867	18260	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		18256	6550	14	10143: 18661	8866: 18660	6	AC	130	FALSE	0	-0.42	0	0	TRUE	14	0.42					
9062	18653	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		27155	6549	28	8705: 18658	8866: 18660	12	AC	130	FALSE	0	93.69	0.27	0	TRUE	28	93.69					
9064	18153	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		18287	6548	57	8362: 18656	8705: 18658	12	AC	130	FALSE	0	94.11	0.27	0	TRUE	57	94.11					
9153	17859	1.3	<None>	<Collection: 1 item>	0.42	170.6	73.4		20977	6547	177	6646: 18651	10884: 18650	8	AC	130	FALSE	0	-35.59	0.23	0	TRUE	177	35.59					
9226	18334	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		17890	6546	422	2939: 18606	478: 18642	8	AC	130	FALSE	0	37.28	0.24	0	TRUE	422	37.28					
9322	17981	2.3	<None>	<Collection: 1 item>	0.42	170.6	73		33783	6545	52	6901: 18638	1757: 18628	6	AC	130	FALSE	0	8.87	0.1	0	TRUE	52	8.87					
9475	17973	1.2	<None>	<Collection: 1 item>	0.42	170.6	73.5		30631	6544	255	2965: 18634	7320: 18612	6	AC	130	FALSE	0	6.33	0.07	0	TRUE	255	6.33					
9516	18291	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		27509	6543	255	16307: 18611	1127: 18632	12	AC	130	FALSE	0	101.56	0.29	0	TRUE	255	101.56					
9594	17854	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		24408	6542	263	2629: 18608	14374: 18630	8	AC	130	FALSE	0	-32.9	0.21	0	TRUE	263	32.9					
9792	18417	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		18941	6541	600	604: 18629	1350: 18588	6	AC	130	FALSE	0	-8.87	0.1	0	TRUE	600	8.87					
9797	18117	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		18255	6540	208	1757: 18628	13496: 18617	6	AC	130	FALSE	0	8.87	0.1	0	TRUE	208	8.87					
9808	17940	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		27150	6539	42	13496: 18617	14888: 18616	6	AC	130	FALSE	0	8.87	0.1	0	TRUE	42	8.87					
9915	18331	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		24035	6538	60	13460: 18613	7320: 18612	6	AC	130	FALSE	0	24.75	0.28	0	TRUE	60	24.75					
10116	18457	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		20972	6537	252	2737: 18587	16307: 18611	12	AC	130	FALSE	0	127.17	0.36	0	TRUE	252	127.17					
10118	18657	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		17885	6536	122	4378: 18601	16701: 18581	8	AC	130	FALSE	0	8.87	0.06	0	TRUE	122	8.87					
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10219	18463	4.6	<None>	<Collection: 1 item>	0.42	170.4	71.9		24404	6532	71	6135: 18572	2737: 18587	12	AC	130	FALSE	0	173.26	0.49	0	TRUE	71	173.26					
10221	18663	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.2		21329	6531	134	303: 18585	1003: 18586	6	AC	130	FALSE	0	-14.48	0.16	0	TRUE	134	14.48					
10270	18668	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		18252	6530	58	3461: 18580	1003: 18586	6	AC	130	FALSE	0	-31.19	0.35	0	TRUE	58	31.19					
10457	18386	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		27149	6529	260	1712: 18583	15979: 18584	6	AC	130	FALSE	0	-26.06	0.3	0	TRUE	260	26.06					
10637	18295	1.7	<None>	<Collection: 1 item>	0.42	170.4	73.1		24034	6528	57	6826: 18577	15979: 18584	6	AC	130	FALSE	0	-18.23	0.21	0	TRUE	57	18.23					
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10883	18550	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		17884	6526	43	16701: 18581	3131: 18571	8	AC	130	FALSE	0	-28.42	0.18	0	TRUE	43	28.42					
10886	18050	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		33777	6525	54	4341: 18567	12053: 18566	6	AC	130	FALSE	0	-8.87	0.1	0	TRUE	54	8.87					
11053	18435	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		32065	6524	58	11668: 18562	14585: 18560	8	AC	130	FALSE	0	-37.28	0.24	0	TRUE	58	37.28					
11057	18035	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		24403	6522	50	16888: 18545	15462: 18546	12	AC	130	FALSE	0	0.42	0	0	TRUE	50	0.42					
11112	17952	1.8	<None>	<Collection: 1 item>	0.42	170.6	73.2		21328	6521	44	517: 18540	13676: 18541	12	AC	130	FALSE	0	-114.61	0.33	0	TRUE	44	114.61					
11211	18055	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		18251	6520	114	6900: 18538	16999: 18539	12	AC	130	FALSE	0	-143.36	0.41	0	TRUE	114	143.36					
11212	18155	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		31805	6519	86	13658: 18537	6900: 18538	12	AC	130	FALSE	0	-137.96	0.39	0	TRUE	86	137.96					
11242	18119	4.5	<None>	<Collection: 1 item>	0.42	170.5	72		18285	6518	20	1418: 18526	693: 18525	12	AC	130	FALSE	0	92.76	0.26	0	TRUE	20	92.76					
11243	18219	3	<None>	<Collection: 1 item>	0.42	170.5	72.6		17918	6517	59	17075: 18317	6632: 18307	6	AC	130	FALSE	0	0.85	0.01	0	TRUE	59	0.85					
11244	18319	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		21868	6516	268	7444: 18499	7497: 18470	8	AC	130	FALSE	0	6.19	0.04	0	TRUE	268	6.19					
11284	18665	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.2		33780	6515	39	5574: 18469	7497: 18470	6	AC	130	FALSE	0	-5.71	0.06	0	TRUE	39	5.71					
11382	18096	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		30628	6514	256	7497: 18470	7317: 18452	8	AC	130	FALSE	0	-1.43	0.01	0	TRUE	256	1.43					
11384	18296	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.3		27506	6513	38	6644: 18451	7317: 18452	6	AC	130	FALSE	0	-9	0.1	0	TRUE	38	9					
11673	18362	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		24406	6512	37	7305: 18400	4376: 18401	6	AC	130	FALSE	0	-5.9	0.07	0	TRUE	37	5.9					

11767	18423	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	21331	6511	256	4376: 18401	11341: 18368	8	AC	130	FALSE	0	-20.14	0.13	0	TRUE	256	20.14						
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11781	18449	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	35056	6509	58	7319: 18512	16306: 18511	6	AC	130	FALSE	0	-1.27	0.01	0	TRUE	58	1.27						
11786	18349	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	30640	6508	234	15176: 18479	16306: 18511	8	AC	130	FALSE	0	91.2	0.58	0	TRUE	234	91.2						
11839	18436	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	31570	6507	246	10116: 18457	15176: 18479	8	AC	130	FALSE	0	92.47	0.59	0	TRUE	246	92.47						
11840	18536	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	17886	6506	62	8703: 18458	10116: 18457	6	AC	130	FALSE	0	-1.27	0.01	0	TRUE	62	1.27						
11842	18036	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3	33779	6505	227	353: 18422	11767: 18423	8	AC	130	FALSE	0	-46.42	0.3	0	TRUE	227	46.42						
11845	18336	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	30627	6504	194	17085: 18421	353: 18422	8	AC	130	FALSE	0	-44.72	0.29	0	TRUE	194	44.72						
12152	18293	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	27505	6503	354	308: 18385	3986: 18420	8	AC	130	FALSE	0	50.71	0.32	0	TRUE	354	50.71						
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12207	18338	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	21330	6501	261	12818: 18314	9915: 18331	8	AC	130	FALSE	0	36.42	0.23	0	TRUE	261	36.42						
12219	18677	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	33853	6499	258	14553: 18315	17075: 18317	6	AC	130	FALSE	0	1.27	0.01	0	TRUE	258	1.27						
12224	18377	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	30701	6498	59	4077: 18305	14553: 18315	6	AC	130	FALSE	0	12.52	0.14	0	TRUE	59	12.52						
12339	18652	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	24487	6496	256	6767: 18504	2938: 18506	6	AC	130	FALSE	0	-7.38	0.08	0	TRUE	256	7.38						
12611	18633	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	21418	6495	144	13007: 18502	6271: 18503	8	AC	130	FALSE	0	30.24	0.19	0	TRUE	144	30.24						
12615	18333	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	34680	6494	324	17436: 18482	13007: 18502	8	AC	130	FALSE	0	17.76	0.11	0	TRUE	324	17.76						
12696	18054	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3	34240	6493	490	13190: 18439	302: 18485	8	AC	130	FALSE	0	26.38	0.17	0	TRUE	490	26.38						
12697	18154	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	31086	6492	777	1711: 18483	2223: 18405	6	AC	130	FALSE	0	-13.75	0.16	0	TRUE	777	13.75						
12815	18014	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3	27984	6491	519	11053: 18435	17436: 18482	8	AC	130	FALSE	0	18.61	0.12	0	TRUE	519	18.61						
12816	18114	3.3	<None>	<Collection: 1 item>	0.42	170.6	72.5	24876	6490	40	16887: 18445	12984: 18444	8	AC	130	FALSE	0	9.22	0.06	0	TRUE	40	9.22						
12818	18314	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	33852	6489	217	12984: 18444	16971: 18443	8	AC	130	FALSE	0	8.37	0.05	0	FALSE	217	8.37						
12842	18163	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	30700	6488	192	16971: 18443	476: 18442	8	AC	130	FALSE	0	1.27	0.01	0	TRUE	192	1.27						
12984	18444	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	28795	6487	4	476: 18442	516: 18440	8	AC	130	FALSE	0	0.42	0	0	TRUE	4	0.42						
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13014	17953	1.9	<None>	<Collection: 1 item>	0.42	170.6	73.1	21417	6485	221	1206: 18406	13190: 18439	8	AC	130	FALSE	0	27.22	0.17	0	TRUE	221	27.22						
13148	18662	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.2	34679	6484	31	7066: 18418	14372: 18430	6	AC	130	FALSE	0	0.42	0	0	TRUE	31	0.42						
13190	18439	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	34239	6483	340	3107: 18427	13959: 18390	6	AC	130	FALSE	0	5.83	0.07	0	TRUE	340	5.83						
13270	18297	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.3	31085	6482	8	9792: 18417	16382: 18424	12	AC	130	FALSE	0	167.17	0.47	0	TRUE	8	167.17						
13460	18613	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	21518	6481	68	1229: 18419	7066: 18418	6	AC	130	FALSE	0	-5.13	0.06	0	TRUE	68	5.13						
13466	18111	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	24875	6480	537	5499: 18350	9792: 18417	12	AC	130	FALSE	0	173.57	0.49	0	TRUE	537	173.57						
13467	18211	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3	18654	6479	254	12224: 18377	1206: 18406	8	AC	130	FALSE	0	42.25	0.27	0	TRUE	254	42.25						
13513	18093	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	33254	6478	416	5027: 18376	4298: 18375	6	AC	130	FALSE	0	15.6	0.18	0	TRUE	416	15.6						
13599	18576	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	30078	6477	116	11845: 18336	5499: 18350	12	AC	130	FALSE	0	174.41	0.49	0	TRUE	116	174.41						
13602	18076	1.8	<None>	<Collection: 1 item>	0.42	170.5	73.1	24496	6476	400	1716: 18283	11845: 18336	12	AC	130	FALSE	0	166.14	0.47	0	TRUE	400	166.14						
13658	18537	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	35096	6475	47	1940: 18292	12152: 18293	8	AC	130	FALSE	0	-42	0.27	0	TRUE	47	42						
13659	18637	7	<None>	<Collection: 1 item>	0.42	170.2	70.8	32048	6474	40	9516: 18291	1940: 18292	8	AC	130	FALSE	0	-41.57	0.27	0	TRUE	40	41.57						
13664	18337	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	22472	6473	40	14512: 18289	13958: 18290	8	AC	130	FALSE	0	18.81	0.12	0	TRUE	40	18.81						
13670	17865	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	18991	6472	217	1355: 18288	14512: 18289	8	AC	130	FALSE	0	19.66	0.13	0	TRUE	217	19.66						
13675	18441	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	34069	6471	39	2740: 18287	1355: 18288	8	AC	130	FALSE	0	20.08	0.13	0	TRUE	39	20.08						
13676	18541	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	24886	6470	214	1007: 18286	2740: 18287	8	AC	130	FALSE	0	20.93	0.13	0	TRUE	214	20.93						
13952	18490	1.4	<None>	<Collection: 1 item>	0.42	170.3	73.3	18653	6469	39	307: 18285	1007: 18286	8	AC	130	FALSE	0	21.35	0.14	0	TRUE	39	21.35						
13958	18290	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.3	33253	6468	6	1228: 17980	7713: 17972	12	AC	130	FALSE	0	-359.41	1.02	0	TRUE	6	359.41						
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14139	18407	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	24300	6466	75	13466: 18111	13513: 18093	6	AC	130	FALSE	0	0.42	0	0	TRUE	75	0.42						
14172	17992	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	18767	6465	249	13466: 18111	852: 18109	12	AC	130	FALSE	0	-172.49	0.49	0	TRUE	249	172.49						
14184	18112	4.4	<None>	<Collection: 1 item>	0.42	170.5	72	32047	6464	318	852: 18109	5180: 18108	12	AC	130	FALSE	0	-173.33	0.49	0	TRUE	318	173.33						
14185	18212	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3	25869	6462	14	9761: 18065	14473: 18064	6	AC	130	FALSE	0	-17.82	0.2	0	TRUE	14	17.82						
14312	17855	1.4	<None>	<Collection: 1 item>	0.42	170.5	73.3	21525	6461	148	358: 18222	17091: 18221	8	AC	130	FALSE	0	46.23	0.3	0	TRUE	148	46.23						
14372	18430	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	24885	6460	443	6649: 18151	17074: 18217	8	AC	130	FALSE	0	27.72	0.18	0	TRUE	443	27.72						
14374	18630	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	33909	6459	244	14185: 18212	5579: 18169	6	AC	130	FALSE	0	1.27	0.01	0	TRUE	244	1.27						
14400	18142	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	33256	6458	60	4811: 18206	11383: 18196	8	AC	130	FALSE	0	-2.8	0.02	0	TRUE	60	2.8						
14507	18489	1.4	<None>	<Collection: 1 item>	0.42	170.3	73.2	30080	6457	11	11383: 18196	14511: 18189	8	AC	130	FALSE	0	1.9	0.01	0	TRUE	11	1.9						
14512	18289	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.3	24444	6456	83	1715: 18183	15982: 18184	8	AC	130	FALSE	0	-1.69	0.01	0	TRUE	83	1.69						
14513	18389	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	18769	6455	28	399: 18167	7321: 18152	6	AC	130	FALSE	0	-15.06	0.17	0	TRUE	28	15.06						
14550	18015	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3	30296	6453	259	10121: 18157	11212: 18155	8	AC	130	FALSE	0	-28.92	0.18	0	TRUE	259	28.92						
14551	18115	1.6	<None>	<Collection: 1 item>	0.42	170.6	73.3	18992	6452	37	11212: 18155	12697: 18154	8	AC	130	FALSE	0	-30.19	0.19	0	TRUE	37	30.19						
14552	18215	4.4	<None>	<Collection: 1 item>	0.42	170.5	72	27995	6451	136	9064: 18153	7321: 18152	8	AC	130	FALSE	0	44.05	0.28	0	TRUE	136	44.05						
14553	18315	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	24888	6450	32	9797: 18117	11058: 18135	6	AC	130	FALSE	0	5.56	0.06	0	TRUE	32	5.56						
14589	18160	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	33908	6449	14	14184: 18112	11242: 18119	12	AC	130	FALSE	0	357.17	1.01	0	TRUE	14	357.17						
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14761	18345	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	31306	6447	403	16020: 18113	12816: 18114	12	AC	130	FALSE	0	-106.91	0.3	0	TRUE	403	106.91						
14889	18216	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2	24497	6446	197	5008: 18075	6401: 18074	8	AC	130	FALSE	0	56.06	0.36	0	TRUE	197	56.06						
15176	18479	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	21427	6445	49	6401: 18074	5779: 18073	8	AC	130	FALSE	0	-28.61	0.18	0	TRUE	49	28.61						
15257	18416	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	18336	6444	235	14473: 18064	10907: 18062	6	AC	130	FALSE	0	-21.71	0.25	0	TRUE	235	21.71						
15261	18016	1.2	<None>	<Collection: 1 item>	0.42	170.5	73.4	30295	6443	168	12815: 18014	12696: 18054	8	AC	130	FALSE	0	57.76	0.37	0	TRUE	168	57.76						
15462	18546	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	31095	6442	262	6648: 18051	7920: 17996	8	AC	130	FALSE	0	1.27	0.01	0	TRUE	262	1.27						
15618	18218	3.6	<None>	<Collection: 1 item>	0.42	170.5	72.4	27994	6441	276	14172: 17992	7945: 18046	8	AC	130	FALSE	0	26.1	0.17	0	TRUE	276	26.1						
15668	17936	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	24887	6440	348	14758: 18045	4064: 17985	8	AC	130	FALSE	0	-57.28	0.37	0	TRUE	348	57.28						
15918	17866	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	18650	6439	516	884: 17915	11842: 18036	8	AC	130	FALSE	0	31.99	0.2	0	TRUE	516	31.99						
15978	18484	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	33250	6438	9	339: 18010	14183: 18012	6	AC	130	FALSE	0	3.89	0.04	0	TRUE	9	3.89						
15979	18584	20	<None>	<Collection: 1 item>	0.42	170.1	65.1	28799	6437	43	13465: 18011	14183: 18012	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	43	1.94						
15980	18684	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1	24439	6436	261	339: 18010	13671: 17965	8	AC	130	FALSE	0	9.72	0.06	0	TRUE	261	9.72						
15982	18184	5.6	<None>	<Collection: 1 item>	0.42	170.5	71.5	26806	6434	241	7977: 17975	7984: 17978	8	AC	130	FALSE	0	-96.95	0.62	0	TRUE	241	96.95						
16009	17993	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	26354	6433	54	7977: 17975	6351: 17974	8	AC	130	FALSE	0	60.3	0.38	0	TRUE	54	60.3						
16020	18113	4.8	<None>	<Collection: 1 item>	0.42	170.5	71.9	21522	6431	181	13671: 17965	7516: 17902	8	AC	130	FALSE	0	7.77	0.05	0	TRUE	181	7.77						
16236	18143	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3	33249	6428	5	11764: 17899	7919: 17896	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	5	1.94						
16305	18411	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.2	28798	6427	75	17060: 17897	179: 17898	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	75	1.94						
16306	18511	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1	24438	6426	39	13670: 17865	15918: 17866	8	AC	130	FALSE	0	29.49	0.19	0	TRUE	39	29.49						
16382	18424	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2	33778	6425	21	9367: 17828	2719: 17833	6	AC	130	FALSE	0	-1.94	0.02	0	TRUE	21	1.94						
16387	18224	3.8	<None>	<Collection: 1 item>	0.42	170.5	72.3	32045	6424	61	15040: 17453	14315: 17455	8	PVC	130	FALSE	0	32.98	0.21	0	TRUE	61	32.98						
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| | | |

									29608	4781	208	14006: 16992	15826: 16993	8	AC	130	FALSE	0	14.81	0.09	0	TRUE	208	14.81					
									36437	4780	52	4601: 16986	6445: 16987	8	AC	130	FALSE	0	49.1	0.31	0	TRUE	52	49.1					
									20216	4777	220	5082: 16970	14644: 16862	6	AC	130	FALSE	0	7.41	0.08	0	TRUE	220	7.41					
									34055	4772	20	7549: 16872	12114: 16860	12	AC	130	FALSE	0	-6.75	0.02	0	TRUE	20	6.75					

Updated	6,700 GPM																																
Junction Properties									Pipeline Properties																									
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)										
16997	12469	71.6	<None>	<Collection: 1 item>	43.94	239.4	72.8		25966	P605	136	1504: 16319	7599: 190832	8		130	FALSE	0	-52.47	0.33	0	TRUE	136	52.47								Pressure	
178	11914	31.5	<None>	<Collection: 1 item>	38.79	170.8	60.4		26847	P603	426	3736: 15021	5448: 14870	8	PVC	130	FALSE	0	-121.08	0.77	0	TRUE	426	121.08								Average	61.4883
1293	14945	26.5	<None>	<Collection: 1 item>	32.28	169.7	62.1		39165	P601(2)	654	39163: J-681	6858: 15858	8	PVC	130	FALSE	0	-71.8	0.46	0	TRUE	653	71.8								Minimum	30.3
3582	12178	33.8	<None>	<Collection: 1 item>	32.28	170.7	59.3		39164	P601(1)	635	15763: J404	39163: J-681	8	PVC	130	FALSE	0	-32.5	0.21	0	TRUE	639	32.5								Maximum	101.2
4442	13482	31.5	<None>	<Collection: 1 item>	32.28	170.9	60.4		17820	P599	43	1668: 16246	15763: J404	8	PVC	130	FALSE	0	-44.88	0.29	0	TRUE	64	44.88								Velocity	
4509	15122	26.4	<None>	<Collection: 1 item>	32.28	169.7	62.1		31354	P597	322	15763: J404	13242: 16102	8	PVC	130	FALSE	0	-12.38	0.08	0	TRUE	257	12.38								Average	0.41551
4865	15125	26.6	<None>	<Collection: 1 item>	32.28	169.7	62.1		36477	P595	789	15510: 12747	12255: 13255	12	PVC	130	FALSE	0	375.47	1.07	0	TRUE	789	375.47								Minimum	0
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5945	15083	25.7	<None>	<Collection: 1 item>	32.28	169.7	62.4		33941	P577	36	12263: J396	13886: 13509	12	PVC	130	FALSE	0	-539.68	1.53	0.001	TRUE	36	539.68								Flow	
7042	12358	31.4	<None>	<Collection: 1 item>	32.28	170	60.1		33035	P575	3	15669: J394	7680: 14602	8		130	FALSE	0	143.16	0.91	0	TRUE	3	143.16								Average	#VALUE!
8738	14006	35.4	<None>	<Collection: 1 item>	32.28	175.8	60.9		33788	P573	50	17322: 14640	15669: J394	12	AC	130	FALSE	0	-491.91	1.4	0.001	TRUE	50	491.91								Minimum	#VALUE!
9073	12406	30.4	<None>	<Collection: 1 item>	32.28	170	60.5		27515	P561	322	2167: 11745	14073: 11762	6	AC	130	FALSE	0	-80.69	0.92	0.001	TRUE	322	80.69								Maximum	#VALUE!
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2009	14846	26.5	<None>	<Collection: 1 item>	5.84	169.7	62.1		37098	P-86		6	37092: J-135		37095: J-136	8	PVC	130	FALSE		0	(N/A)	(N/A)	(N/A)	FALSE		0	#VALUE!						
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2129	15453	26.6	<None>	<Collection: 1 item>	5.84	172.3	63.2		37093	P-82		94	37088: J-134		37092: J-135	12	STL	130	FALSE		0	-487.33	1.38	0.001	TRUE		88	487.33						
2130	15553	31.7	<None>	<Collection: 1 item>	5.84	172.3	61		37091	P-81		1	37086: J-133		37088: J-134	12	PVC	130	FALSE		0	-170.91	0.48	0	FALSE		0	170.91						
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16862	15108	26.5	<None>	<Collection: 1 item>	5.84	170.5	62.4	20806	15904	485	16416: 11449	10853: 11693	8	AC	130	FALSE	0	77.95	0.5	0	TRUE	485	77.95						
16895	15988	38	<None>	<Collection: 1 item>	5.84	172.2	58.2	21713	15903	43	7519: 11658	9574: 11650	6	-8	130	FALSE	0	2.62	0.03	0	TRUE	43	2.62						
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16939	15714	31	<None>	<Collection: 1 item>	5.84	172.3	61.2	33710	15900	34	17250: 11686	4489: 11721	21	STL	130	FALSE	0	2,040.64	1.89	0.001	TRUE	34	2040.64						
16956	14944	33.7	<None>	<Collection: 1 item>	5.84	171.1	59.5	22835	15899	11	4489: 11721	16228: 11719	15	STL	130	FALSE	0	1,537.91	2.79	0.002	TRUE	12	1537.91						
16957	15863	26.5	<None>	<Collection: 1 item>	5.84	172.3	63.2	33231	15898	41	14963: 11743	390: 11744	42	STL	130	FALSE	0	2,257.92	0.52	0	TRUE	41	2257.92						
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17322	14640	31.3	<None>	<Collection: 1 item>	5.84	173	61.5	31654	15862	31	16283: 12040	12245: 12039	6	AC	130	FALSE	0	-1.9	0.02	0	TRUE	31	1.9						
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2164	11445	64.1	<None>	<Collection: 1 item>	5.11	240.4	76.5	27075	15840	83	3274: 11784	11115: 11668	8	AC	130	FALSE	0	5.07	0.03	0	TRUE	83	5.07						
2326	11329	64	<None>	<Collection: 1 item>	5.11	240.5	76.5	23213	15839	12	12675: 11767	14521: 11791	6	AC	130	FALSE	0	2.64	0.03	0	TRUE	12	2.64						
2637	11320	61.5	<None>	<Collection: 1 item>	5.11	240.5	77.6	33630	15838	25	11987: 11797	4517: 11773	6	AC	130	FALSE	0	-3.15	0.04	0	TRUE	25	3.15						
3722	11324	61.5	<None>	<Collection: 1 item>	5.11	240.5	77.6	22474	15837	7	16278: 11765	17251: 11786	6	AC	130	FALSE	0	-3.8	0.04	0	TRUE	7	3.8						
3741	11476	63.4	<None>	<Collection: 1 item>	5.11	240.4	76.7	36524	15836	188	3744: 11776	4042: 11781	8	AC	130	FALSE	0	-35.95	0.23	0	TRUE	188	35.95						
3744	11776	59.9	<None>	<Collection: 1 item>	5.11	240.4	78.2	27834	15835	35	863: 11711	9096: 11775	6	AC	130	FALSE	0	-1.89	0.02	0	TRUE	35	1.89						
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5620	11477	63	<None>	<Collection: 1 item>	5.11	240.4	76.9	23979	15830	37	5772: 11709	11499: 11763	6	AC	130	FALSE	0	-2.64	0.03	0	TRUE	37	2.64						
7352	11474	63.2	<None>	<Collection: 1 item>	5.11	240.4	76.8	20174	15829	374	7872: 11753	2167: 11745	6	AC	130	FALSE	0	-78.05	0.89	0.001	TRUE	374	78.05						
8896	11505	62.6	<None>	<Collection: 1 item>	5.11	240.4	77.1	27663	15828	348	11499: 11763	16419: 11749	6	AC	130	FALSE	0	-91.26	1.04	0.001	TRUE	348	91.26						
9093	11475	63.7	<None>	<Collection: 1 item>	5.11	240.4	76.6	18138	15827	18	2167: 11745	12788: 11790	6	AC	130	FALSE	0	0	0	0	TRUE	18	0						
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12363	11499	62.5	<None>	<Collection: 1 item>	5.11	240.4	77.1	23872	15814	26	8898: 11705	206: 11726	6	AC	130	FALSE	0	-13.21	0.15	0	TRUE	26	13.21						
12435	11437	63	<None>	<Collection: 1 item>	5.11	240.5	77	24806	15813	4	5395: 11707	3534: 11706	6	AC	130	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	4	#VALUE!						
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16050	11435	61.5	<None>	<Collection: 1 item>	5.11	240.5	77.6	20805	15804	9	2265: 11680	4041: 11681	6	AC	130	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	9	#VALUE!						
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16776	11440	61.5	<None>	<Collection: 1 item>	5.11	240.5	77.6	32015	15802	37	536: 11628	205: 11626	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	37	1.89						
16777	11540	63.1	<None>	<Collection: 1 item>	5.11	240.4	76.9	23283	15801	14	1914: 11589	12506: 11598	6	AC	130	FALSE	0	-2.64	0.03	0	TRUE	14	2.64						
11115	11668	59.4	<None>	<Collection: 1 item>	5.07	240.4	78.5	33709	15800	138	12673: 11567	536: 11628	12	AC	130	FALSE	0	91.01	0.26	0	TRUE	138	91.01						
13799	11694	57.8	<None>	<Collection: 1 item>	5.07	240.4	79.2	33150	15799	264	4132: 11678	13355: 11560	8	AC	130	FALSE	0	25.64	0.16	0	TRUE	264	25.64						
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2139	12916	59.9	<None>	<Collection: 1 item>	4.02	239.9	78	36145	15796	36	3404: 11532	14221: 11534	6	AC	130	FALSE	0	-2.64	0.03	0	TRUE	36	2.64						
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8860	J102	33	<None>	<Collection: 1 item>	2.73	170.9	59.8	24225	13985	11	14725: 14995	12952: 14994	6	AC	130	FALSE	0	-5.84	0.07	0	TRUE	11	5.84						
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1440	12215	46.5	<None>	<Collection: 1 item>	0.95	177.5	56.8	36601	4692	295	13884: 15848	2893: 15849	8	AC	130	FALSE	0	26.99	0.17	0	TRUE	295	26.99						
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1805	12029	18	<None>	<Collection: 1 item>	0.46	170.7	66.2	35179	4676	127	404: 15541	4159: 15539	12	PVC	130	FALSE	0	65.22	0.19	0	TRUE	127	65.22						
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2626	11820	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.4	26357	4674	202	4159: 15539	1895: 15540	12	PVC	130	FALSE	0	53.54	0.15	0	TRUE	202	53.54						
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3496	12281	36.2	<None>	<Collection: 1 item>	0.46	171	58.5	24109	4670	28	15149: 15462	2897: 15449	8	AC	130	FALSE	0	-148.57	0.95	0.001	TRUE	28	148.57						
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5445	12179	31.6	<None>	<Collection: 1 item>	0.46	171	60.4	23874	4662	237	4200: 15323	5416: 15200	8	AC	130	FALSE	0	-160.8	1.03	0.001	TRUE	237	160.8						
6874	12074	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.4	27813	4660	128	16903: 15188	13739: 15264	12	CI	65	FALSE	0	198.87	0.56	0	TRUE	126	198.87						
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7360	12053	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.3	35181	4656	7	4458: 15185	16903: 15188	12	CI	65	FALSE	0	206.24	0.59	0	TRUE	7	206.24						
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7840	11801	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.4	17627	4652	56	4735: 15176	4891: 15177	8	AC	130	FALSE	0	-40.96	0.26	0	TRUE	56	40.96						
8384	12105	32.2	<None>	<Collection: 1 item>	0.46	170.7	60	32201	4651	1	8047: 15172	7375: 15171	8	AC	130	FALSE	0	-27.36	0.17	0	TRUE	1	27.36						
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8531	11902	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.4	28859	4648	204	13738: 15164	16297: 15166	6	AC	130	FALSE	0	-36.14	0.41	0	TRUE	204	36.14						
8583	12475	31.5	<None>	<Collection: 1 item>	0.46	171	60.5	20567	4647	125	13738: 15164	15526: 15165	6	AC	130	FALSE	0	28.77	0.33	0	TRUE	125	28.77						
8589	12275	36	<None>	<Collection: 1 item>	0.46	171	58.5	35180	4646	286	8209: 15005	12693: 15160	12	CI	65	FALSE	0	225.47	0.64	0.001	TRUE	286	225.47						
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8756	12359	33.7	<None>	<Collection: 1 item>	0.46	171	59.5	26358	4644	190	4734: 15076	12135: 14991	8	AC	130	FALSE	0	-45.81	0.29	0	TRUE	190	45.81						
9078	12106	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.3	21980	4643	16	8046: 15072	1515: 15063	6	AC	130	FALSE	0	-1.57	0.02	0	TRUE	16	1.57						
9102	12150	33.7	<None>	<Collection: 1 item>	0.46	171	59.5	30173	4642	162	12023: 14959	16100: 15040	6	AC	130	FALSE	0	40.07	0.45	0	TRUE	162	40.07						
9280	12276	36	<None>	<Collection: 1 item>	0.46	171	58.5	32200	4641	11	2986: 15024	9719: 15019	8	AC	130	FALSE	0	-132.64	0.85	0	TRUE	11	132.64						
9597	11965	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.3	33066	4639	221	9719: 15019	4980: 14886	8	AC	130	FALSE	0	-135.09	0.86	0	TRUE	221	135.09						
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10926	12151	34.5	<None>	<Collection: 1 item>	0.46	171	59.2	36527	4634	230	13494: 14818	17229: 14930	6	AC	130	FALSE	0	33.57	0.38	0	TRUE	230	33.57						
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11415	12497	31.5	<None>	<Collection: 1 item>	0.46	171	60.5	27229	4631	259	3097: 14781	3854: 14782	6	AC	130	FALSE	0	32.67	0.37	0	TRUE	259	32.67						
11420	12197	34.5	<None>	<Collection: 1 item>	0.46	171	59.2	24105	4630	444	9242: 13706	11355: 13707	6	AC	130	FALSE	0	-19.31	0.22	0	TRUE	444	19.31						
11686	12152	31.5	<None>	<Collection: 1 item>	0.46	171	60.5	33065	4629	269	15231: 13895	14153: 13891	6	AC	130	FALSE	0	-13.91	0.16	0	TRUE	269	13.91						
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11880	12537	31.5	<None>	<Collection: 1 item>	0.46	171	60.5	26834	4627	62	14153: 13891	11096: 13851	8	AC	130	FALSE	0	-168.65	1.08	0.001	TRUE	62	168.65						
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12187	12190	35	<None>	<Collection: 1 item>	0.46	171	59	20653	4625	38	9014: 13552	11101: 13551	8	AC	130	FALSE	0	77.57	0.5	0	TRUE	38	77.57						
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12784	11890	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.3	30335	4622	189	10574: 14251	10226: 14160	12	AC	130	FALSE	0	-444.06	1.26	0.001	TRUE	189	444.06						
12859	12156	31.5	<None>	<Collection: 1 item>	0.46	171	60.5	27228	4621	327	10226: 14160	2870: 13959	12	AC	130	FALSE	0	-455.75	1.29	0.001	TRUE	327	455.75						
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13996	12191	35.8	<None>	<Collection: 1 item>	0.46	171	58.6	20564	4617	66	3667: 13881	2504: 13846	12	AC	130	FALSE	0	-551.94	1.57	0.001	TRUE	66	551.94						
13998	12391	35.3	<None>	<Collection: 1 item>	0.46	171	58.8	35178	4616	196	2504: 13846	16403: 13736	12	AC	130	FALSE	0	-459.73	1.3	0.001	TRUE	196	459.73						
14087	12248	31.6	<None>	<Collection: 1 item>	0.46	171	60.4	21892	4615	329	16403: 13736	3905: 13603	12	AC	130	FALSE	0	-471.41	1.34	0.001	TRUE	329	471.41						
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14957	11943	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.4	30172	4612	321	6517: 14674	6432: 14729	8	AC	130	FALSE	0	77.24	0.49	0	TRUE	321	77.24						
15341	12162	34.8	<None>	<Collection: 1 item>	0.46	170.7	58.9	32199	4611	84	9602: 14673	17322: 14640	12	AC	130	FALSE	0	-487.74	1.38	0.001	TRUE	84	487.74						
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16413	11949	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.4	35177	4606	63	8736: 14606	8018: 14605	8	AC	130	FALSE	0	-112.06	0.72	0	TRUE	63	112.06						
17073	12388	31.5	<None>	<Collection: 1 item>	0.46	171	60.5	21891	4605	253	7024: 14601	8018: 14605	8	AC	130	FALSE	0	119.79	0.76	0	TRUE	253	119.79						
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17247	11986	31.5	<None>	<Collection: 1 item>	0.46	170.7	60.3	30171	4602	131	8017: 14505	16194: 14593	8	AC	130	FALSE	0	178.19	1.14	0.001	TRUE	131	178.19						
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137	11688	76.4	<None>	<Collection: 0 items>	0	239.8	70.8	28337	4598	14	6848: 14557	6690: 14558	8	AC	130	FALSE	0	94.92	0.61	0	TRUE	14	94.92						
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148	13683	41.5	<None>	<Collection: 0 items>	0	171.4	56.3	21771	4596	80	6847: 14457	8017: 14505	8	AC	130	FALSE	0	178.24	1.14	0.001	TRUE	80	178.24						
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8923	13859	40	<None>	<Collection: 0 items>	0	174.5	58.3	27719	4483	274	11818: 12199	9894: 12198	6	AC	130	FALSE	0	96.64	1.1	0.001	TRUE	274	96.64										
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8989	J246	33	<None>	<Collection: 0 items>	0	170.9	59.8	18418	4481	242	14444: 11364	15900: 11362	6	AC	130	FALSE	0	44.32	0.5	0	TRUE	242	44.32										
9019	J74	28	<None>	<Collection: 0 items>	0	170.9	61.9	24103	4480	27	15900: 11362	15139: 11361	6	AC	130	FALSE	0	40.54	0.46	0	TRUE	27	40.54										
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9558	15803	25	<None>	<Collection: 0 items>	0	170.2	63	30838	4474	10	138: 11788	10854: 11793	8	AC	130	FALSE	0	258.17	1.65	0.001	TRUE	10	258.17										
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9616	15232	26.5	<None>	<Collection: 0 items>	0	170.1	62.2	21559	4471	80	3270: 11884	15002: 11954	12	AC	130	FALSE	0	749.15	2.13	0.001	TRUE	80	749.15										
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10451	J386	50	<None>	<Collection: 0 items>	0	178	55.5	18462	4460

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									29680	1223	12	6875: 12174	7542: 12171	8	PVC	130	FALSE	0	6.75	0.04	0	TRUE	12	6.75						
									26589	1222	20	12077: 12155	10344: 12138	8	PVC	130	FALSE	0	2.3	0.01	0	TRUE	20	2.3						
									23433	1221	39	8385: 12205	11420: 12197	8	PVC	130	FALSE	0	11.35	0.07	0	TRUE	39	11.35						
									20383	1220	15	17214: 12400	17073: 12388	8	PVC	130	FALSE	0	1.38	0.01	0	TRUE	15	1.38						
									29290	1219	34	2647: 12499	8583: 12475	8	PVC	130	FALSE	0	22.38	0.14	0	TRUE	34	22.38						
									26187	1218	4	11880: 12537	13695: 12534	8	PVC	130	FALSE	0	24.22	0.15	0	TRUE	4	24.22						
									23058	1217	147	9890: 12598	7538: 12571	8	PVC	130	FALSE	0	26.06	0.17	0	TRUE	147	26.06						
									20037	1216	29	10585: 12568	5354: 12586	10	AC	130	FALSE	0	-42.81	0.17	0	TRUE	29	42.81						
									35895	1215	516	1468: 12227	10585: 12568	10	AC	130	FALSE	0	-13.22	0.05	0	TRUE	516	13.22						
									32814	1214	9	5354: 12586	3578: 12578	10	PVC	130	FALSE	0	-47.92	0.2	0	TRUE	9	47.92						
									29683	1213	66	3578: 12578	12883: 12560	10	PVC	130	FALSE	0	-53.14	0.22	0	TRUE	66	53.14						
									26592	1212	36	396: 12223	1468: 12227	10	AC	130	FALSE	0	268.7	1.1	0.001	TRUE	36	268.7						
									23436	1211	11	14957: 11943	13351: 11960	6	PVC	130	FALSE	0	33.66	0.38	0	TRUE	11	33.66						
									20386	1210	448	16413: 11949	1805: 12029	12	PVC	130	FALSE	0	152.96	0.43	0	TRUE	448	152.96						
									29289	1209	85	9078: 12106	6874: 12074	12	PVC	130	FALSE	0	-194.12	0.55	0	TRUE	85	194.12						
									26186	1208	49	1805: 12029	7360: 12053	12	PVC	130	FALSE	0	151.58	0.43	0	TRUE	49	151.58						
									23057	1207	126	15221: 11992	178: 11914	10	AC	130	FALSE	0	276.69	1.13	0.001	TRUE	126	276.69						
									20036	1206	304	2626: 11820	7840: 11801	8	PVC	130	FALSE	0	-1.38	0.01	0	TRUE	304	1.38						
									35894	1205	154	17246: 11886	2626: 11820	8	PVC	130	FALSE	0	-0.46	0	0	TRUE	154	0.46						
									32813	1204	270	8742: 11972	8531: 11902	8	PVC	130	FALSE	0	-45.76	0.29	0	TRUE	270	45.76						
									29682	1203	153	17247: 11986	6874: 12074	8	PVC	130	FALSE	0	43.92	0.28	0	TRUE	153	43.92						
									26591	1202	15	10344: 12138	17351: 12144	8	PVC	130	FALSE	0	1.38	0.01	0	TRUE	15	1.38						
									35970	1199	207	15113: 12132	15221: 11992	10	AC	130	FALSE	0	276.69	1.13	0.001	TRUE	207	276.69						
									32878	1198	319	3723: 12003	10724: 12033	8	AC	130	FALSE	0	-57.89	0.37	0	TRUE	319	57.89						

Updated	6,700 GPM																													
Junction Properties									Pipeline Properties																					
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)							
4092	2217	11.4	<None>	<Collection: 1 item>	16.95	181.2	73.6		33248	P751	159	5100: J410	12913: J516	12	AC	130	FALSE	0	522.85	1.48	0.001	TRUE	159	522.85				Pressure		
12162	2512	7.1	<None>	<Collection: 1 item>	16.95	178.3	74.2		20906	P641	171	7646: J428	5102: J430	8		130	FALSE	0	-48.57	0.31	0	TRUE	171	48.57				Average	71.1996	
596	4797	12.5	<None>	<Collection: 1 item>	9.34	176.3	71		34261	P639	45	5102: J430	2197: J418	8		130	FALSE	0	54.22	0.35	0	TRUE	45	54.22				Minimum	50.9	
2711	4402	11.7	<None>	<Collection: 1 item>	9.34	176.5	71.4		25419	P637	50	7646: J428	6138: J426	8		130	FALSE	0	41.44	0.26	0	TRUE	50	41.44				Maximum	80.5	
3962	4775	12.1	<None>	<Collection: 1 item>	9.34	176.3	71.2		35629	P635	289	15765: J424	7646: J428	8		130	FALSE	0	-7.12	0.05	0	TRUE	289	7.12				Velocity		
10858	4344	6.4	<None>	<Collection: 1 item>	9.34	173.2	72.3		26846	P633	263	1694: J422	15765: J424	8		130	FALSE	0	-7.12	0.05	0	TRUE	263	7.12				Average	0.33245	
10968	4774	12.1	<None>	<Collection: 1 item>	9.34	176.3	71.2		18115	P631	50	5101: J420	1694: J422	8		130	FALSE	0	31.83	0.2	0	TRUE	50	31.83				Minimum	0	
4816	7287	1.5	<None>	<Collection: 1 item>	8.44	172.2	74		29546	P629	207	15764: J414	5101: J420	8		130	FALSE	0	31.83	0.2	0	TRUE	207	31.83				Maximum	4.53	
1590	5099	16.5	<None>	<Collection: 1 item>	7.67	174.8	68.6		25418	P627	489	1521: J416	5102: J430	8		130	FALSE	0	102.79	0.66	0	TRUE	489	102.79				Flow		
6084	4835	11.4	<None>	<Collection: 1 item>	7.67	174.8	70.8		35628	P625	13	2211: 7357	1521: J416	12	AC	130	FALSE	0	106.88	0.3	0	TRUE	13	106.88				Average	#VALUE!	
5701	3427	2.3	<None>	<Collection: 1 item>	7.54	171	73.1		26845	P623	104	13102: 7353	15764: J414	12	AC	130	FALSE	0	-279.08	0.79	0	TRUE	104	279.08				Minimum	#VALUE!	
14696	3468	1.5	<None>	<Collection: 1 item>	7.54	171	73.5		36492	P621	142	6615: 7338	1693: J412	12	AC	130	FALSE	0	299.96	0.85	0	TRUE	142	299.96				Maximum	#VALUE!	
2078	3432	6.5	<None>	<Collection: 1 item>	7.33	178.3	74.5		30169	P619	174	16474: 7331	5100: J410	12	AC	130	FALSE	0	532.11	1.51	0.001	TRUE	174	532.11						
9210	3245	4.2	<None>	<Collection: 1 item>	7.33	170.8	72.3		25420	P607	60	16485: 7067	6136: J406	6	AC	130	FALSE	0	-5.4	0.06	0	TRUE	60	5.4						
12424	3534	1.5	<None>	<Collection: 1 item>	7.33	172.3	74		20689	P531	149	8162: 7285	1208: J378	14	AC	130	FALSE	0	699.08	1.46	0.001	TRUE	149	699.08						
3964	4715	6.6	<None>	<Collection: 1 item>	6.37	174.6	72.8		17822	P529	400	10454: J376	5474: 3480	8	AC	130	FALSE	0	-21.60	0.14	0	TRUE	400	21.6						
5659	4796	8.1	<None>	<Collection: 1 item>	6.37	174.6	72.2		29670	P527	11	7988: J374	2251: 5197	6	AC	130	FALSE	0	-84.68	0.96	0.001	TRUE	11	84.68						
12038	4650	6.5	<None>	<Collection: 1 item>	6.37	174.6	72.9		36478	P525	151	14449: 4992	11195: J372	6	AC	130	FALSE	0	-5.1	0.06	0	TRUE	151	5.1						
1912	J316	5	<None>	<Collection: 1 item>	6.2	171	72		33784	P523	204	2277: 3252	16192: 3231	8		130	FALSE	0	6.2	0.04	0	TRUE	204	6.2						
657	4762	11	<None>	<Collection: 1 item>	6.19	171	69.4		27511	P521	339	1539: 4553	16128: 4719	8		130	FALSE	0	14.72	0.09	0	TRUE	339	14.72						
767	4077	-3.5	<None>	<Collection: 1 item>	6.19	171	75.6		21811	P455	322	2669: J318	9488: 190818	6		130	FALSE	0	-13.22	0.15	0	TRUE	310	13.22						
796	7288	9.3	<None>	<Collection: 1 item>	6.19	171.5	70.3		30466	P35	329	9053: 5213	2118: 5220	8		130	FALSE	0	-168.42	1.07	0.001	TRUE	329	168.42						
1844	6638	7.9	<None>	<Collection: 1 item>	6.19	171.3	70.8		19174	P33	333	8646: 5209	9053: 5213	8		130	FALSE	0	-152.44	0.97	0.001	TRUE	333	152.44						
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2228	4181	-3.5	<None>	<Collection: 1 item>	6.19	171	75.6		21900	P25	215	3299: J14	12727: 6014	8	AC	130	FALSE	0	-179.14	1.14	0.001	TRUE	215	179.14						
2669	J318	5	<None>	<Collection: 1 item>	6.19	171	72		39388	P-1062	51	13041: 3916	39387: J-760	6	PVC	130	FALSE	0	0	0	0	FALSE	0	0						
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7761	5963	8.2	<None>	<Collection: 1 item>	6.19	171.2	70.7		38856	P-885	62	38830: J-559	38855: J-570	6	PVC	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!						
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9185	5156	-3.5	<None>	<Collection: 1 item>	6.19	171.1	75.7		38831	P-871	32	13478: 6264	38830: J-559	8	PVC	130	FALSE	0	0	0	0	FALSE	0	0						
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38168	J-328	4.8	<None>	<Collection: 1 item>	4.68	178.6	75.4		38300	P-542	8	38296: J-367	38299: J-368	4	PVC	130	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!						
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9857	6186	31.2	<None>	<Collection: 1 item>	4.09	175.1	62.4		36772	BWPipe_revised-54	167	36773: J-56	36774: J-57	8	Ductile Iron	130	FALSE		0	28.64	0.18	0	FALSE	0	28.64				
9858	6196	31.2	<None>	<Collection: 1 item>	4.09	174.8	62.3		36815	BWPipe_revised-53	264	36773: J-56	36816: J-78	8	Ductile Iron	130	FALSE		0	0.00	0	0	FALSE	0	0				
9997	6786	36.5	<None>	<Collection: 1 item>	4.09	174.7	59.9		36811	BWPipe_revised-52	344	36793: J-68	36773: J-56	8	Ductile Iron	130	FALSE		0	28.64	0.18	0	FALSE	0	28.64				
10001	6746	35.5	<None>	<Collection: 1 item>	4.09	174.8	60.4		36840	BWPipe_revised-51	473	36793: J-68	36760: J-48	8	Ductile Iron	130	FALSE		0	-15.55	0.1	0	FALSE	0	15.55				
10213	7300	42.3	<None>	<Collection: 1 item>	4.09	175	57.6		36792	BWPipe_revised-50	199	36753: J-43	36793: J-68	8	Ductile Iron	130	FALSE		0	13.09	0.08	0	FALSE	0	13.09				
10262	5572	21.4	<None>	<Collection: 1 item>	4.09	175.4	66.8		36752	BWPipe_revised-49	90	36753: J-43	36754: J-44	8	Ductile Iron	130	FALSE		0	0	0	0	FALSE	0	0				
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10859	6386	36	<None>	<Collection: 1 item>	4.09	174.9	60.2		36841	BWPipe_revised-46	452	36780: J-60	1694: J422	8	Ductile Iron	130	FALSE		0	-38.95	0.25	0	FALSE	0	38.95				
10862	6356	31.6	<None>	<Collection: 1 item>	4.09	174.6	62		36818	BWPipe_revised-45	310	36819: J-79	2197: J418	8	Ductile Iron	130	FALSE		0	-54.22	0.35	0	FALSE	0	54.22				
10967	6062	26.1	<None>	<Collection: 1 item>	4.09	174.5	64.3		36836	BWPipe_revised-44	420	36779: J-59	36819: J-79	8	Ductile Iron	130	FALSE		0	-54.22	0.35	0	FALSE	0	54.22				
10973	7119	29.4	<None>	<Collection: 1 item>	4.09	175.2	63.2		36817	BWPipe_revised-43	374	36780: J-60	6138: J426	8	Ductile Iron	130	FALSE		0	-41.44	0.26	0	FALSE	0	41.44				
11063	7134	38.6	<None>	<Collection: 1 item>	4.09	175.1	59.2		36778	BWPipe_revised-42	183	36779: J-59	36780: J-60	8	Ductile Iron	130	FALSE		0	-80.4	0.51	0	FALSE	0	80.4				
11189	6279	31.2	<None>	<Collection: 1 item>	4.09	174.7	62.2		36808	BWPipe_revised-41	235	36802: J-73	36779: J-59	8	Ductile Iron	130	FALSE		0	-134.62	0.86	0	FALSE	0	134.62				
11506	6143	30.8	<None>	<Collection: 1 item>	4.09	174.6	62.4		36803	BWPipe_revised-40	231	36802: J-73	36804: J-74	8	Ductile Iron	130	FALSE		0	61.29	0.39	0	FALSE	0	61.29				
11511	6363	33.3	<None>	<Collection: 1 item>	4.09	174.9	61.4		36801	BWPipe_revised-39	228	36759: J-47	36802: J-73	8	Ductile Iron	130	FALSE		0	-73.33	0.47	0	FALSE	0	73.33				
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12517	6814	35.8	<None>	<Collection: 1 item>	4.09	174.5	60.1		36805	BWPipe_revised-34	234	36806: J-75	36807: J-76	8	Ductile Iron	130	FALSE		0	18.08	0.12	0	FALSE	0	18.08				
12535	5290	-4.2	<None>	<Collection: 1 item>	4.09	175.6	78		36833	BWPipe_revised-33	396	36806: J-75	36828: J-81	8	Ductile Iron	130	FALSE		0	-28.35	0.18	0	FALSE	0	28.35				
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12559	6362	33.7	<None>	<Collection: 1 item>	4.09	174.9	61.2		36789	BWPipe_revised-29	195	36790: J-66	36791: J-67	8	Ductile Iron	130	FALSE		0	22.65	0.14	0	FALSE	0	22.65				
12661	5961	27	<None>	<Collection: 1 item>	4.09	174.8	64.1		36829	BWPipe_revised-28	350	36804: J-74	36790: J-66	8	Ductile Iron	130	FALSE		0	22.65	0.14	0	FALSE	0	22.65				
12823	5264	19.7	<None>	<Collection: 1 item>	4.09	175.2	67.4		36831	BWPipe_revised-27	358	36832: J-82	36804: J-74	8	Ductile Iron	130	FALSE		0	-38.64	0.25	0	FALSE	0	38.64				
13078	5738	18	<None>	<Collection: 1 item>	4.09	174.4	67.8		36834	BWPipe_revised-26	389	36828: J-81	36832: J-82	8	Ductile Iron	130	FALSE		0	-61.29	0.39	0	FALSE	0	61.29				
13186	7144	37.9	<None>	<Collection: 1 item>	4.09	175.2	59.5		36827	BWPipe_revised-25	349	36796: J-70	36828: J-81	8	Ductile Iron	130	FALSE		0	-32.94	0.21	0	FALSE	0	32.94				
13192	6840	36.1	<None>	<Collection: 1 item>	4.09	174.7	60.1		36794	BWPipe_revised-24	209	36795: J-69	36796: J-70	8	Ductile Iron	130	FALSE		0	-43.21	0.28	0	FALSE	0	43.21				
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									36469	76	69	10215: 3791	13329: 3758	12	AC	130	FALSE	0	-79.54	0.23	0	TRUE	69	79.54					
									30560	75	14	13106: 3770	15796: 3780	6	AC	130	FALSE	0	-42.77	0.49	0	TRUE	14	42.77					
									30784	74	21	8972: 3760	13106: 3770	6	AC	130	FALSE	0	-39.17	0.44	0	TRUE	21	39.17					
									34260	73	31	1167: 3752	13329: 3758	12	AC	130	FALSE	0	81.85	0.23	0	TRUE	31	81.85					
									17821	72	66	6708: 3733	1167: 3752	12	AC	130	FALSE	0	68.98	0.2	0	TRUE	66	68.98					
									19529	71	83	9967: 3751	6708: 3733	6	AC	130	FALSE	0	6.6	0.07	0	TRUE	83	6.6					
									26807	69	20	6509: 3672	14949: 3665	8	AC	130	FALSE	0	21.05	0.13	0	TRUE	20	21.05					
									29731	68	15	14949: 3665	4277: 3651	8	AC	130	FALSE	0	18.98	0.12	0	TRUE	15	18.98					
									30268	65	350	126: 3597	5700: 3417	8	AC	130	FALSE	0	-33.05	0.21	0	TRUE	350	33.05					
									31285	64	137	970: 3469	16811: 3428	8	AC	130	FALSE	0	-2.32	0.01	0	TRUE	137	2.32					
									21488	63	194	14696: 3468	6794: 3375	6	AC	130	FALSE	0	-8.27	0.09	0	TRUE	194	8.27					
									24029	62	235	5700: 3417	9611: 3280	8	AC	130	FALSE	0	26.84	0.17	0	TRUE	235	26.84					
									20136	61	255	12977: 3256	12983: 3236	8	AC	130	FALSE	0	36.77	0.23	0	TRUE	255	36.77					
									21609	60	21	12974: 3296	9028: 3275	8	AC	130	FALSE	0	-80.07	0.51	0	TRUE	21	80.07					
									21060	58	356	2281: 3212	1883: 3278	8	AC	130	FALSE	0	22.75	0.15	0	TRUE	356	22.75					
									30030	56	22	9028: 3275	3049: 3263	8	AC	130	FALSE	0	-81.96	0.52	0	TRUE	22	81.96					
									24327	54	17	12804: 3273	5740: 3270	12	AC	130	FALSE	0	71.78	0.2	0	TRUE	17	71.78					
									34787	53	30	5740: 3270	2796: 3257	12	AC	130	FALSE	0	70.01	0.2	0	TRUE	30	70.01					
									29043	51	255	3049: 3263	60: 3087	8	AC	130	FALSE	0	-83.74	0.53	0	TRUE	255	83.74					
									35708	50	21	2796: 3257	16187: 3251	12	AC	130	FALSE	0	68.24	0.19	0	TRUE	21	68.24					
									35627	49	65	10388: 3192	16143: 3165	6	AC	130	FALSE	0	-34.35	0.39	0	TRUE	65	34.35					
									21387	46	199	7745: 2984	4726: 2895	8	AC	130	FALSE	0	-39.79	0.25	0	TRUE	199	39.79					
									28030	45	190	583: 2862	4726: 2895	8	AC	130	FALSE	0	44	0.28	0	TRUE	190	44					
									34681	44	26	12213: 2882	3410: 2892	8	AC	130	FALSE	0	48.11	0.31	0	TRUE	26	48.11					
									26036	43	62	4762: 2829	583: 2862	8	AC	130	FALSE	0	51.32	0.33	0	TRUE	62	51.32					
									36579	42	52	10515: 2789	4762: 2829	8	AC	130	FALSE	0	53.22	0.34	0	TRUE	52	53.22					
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									27050	40	156	10526: 2739	13160: 2817	8	AC	130	FALSE	0	18.71	0.12	0	TRUE	156	18.71					
									31598	37	444	9032: 2794	15805: 2557	12	AC	130	FALSE	0	-121.3	0.34	0	TRUE	444	121.3					
									31683	36	20	155: 2771	10515: 2789	8	AC	130	FALSE	0	66.5	0.42	0	TRUE	20	66.5					
									19351	35	233	11737: 2568	155: 2771	8	AC	130	FALSE	0	68	0.43	0	TRUE	233	68					
									25950	34	33	10525: 2729	10526: 2739	8	AC	130	FALSE	0	21.02	0.13	0	TRUE	33	21.02					
									28315	33	39	8459: 2571	12229: 2612	6	AC	130	FALSE	0	43.15	0.49	0	TRUE	39	43.15					
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									34404	29	171	2682: 2481	13997: 2488	6	AC	130	FALSE	0	-53.5	0.61	0	TRUE	171	53.5					
									24936	28	126	13401: 2415	6387: 2402	6	AC	130	FALSE	0	0	0	0	TRUE	126	0					
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									19662	23	392	6997: 3813	6580: 3617	6	AC	130	FALSE	0	-2.43	0.03	0	TRUE	392	2.43					
									33506	22	5	13333: 3728	17149: 3730	8	AC	130	FALSE	0	-70.13	0.45	0	TRUE	5	70.13					
									36044	21	112	2295: 3633	13333: 3728	8	AC	130	FALSE	0	-44.88	0.29	0	TRUE	112	44.88					

									20620	20	303	12518: 3483	2295: 3633	8	AC	130	FALSE	0	-37.32	0.24	0	TRUE	303	37.32					
									31900	15	355	2404: 3082	9210: 3245	8	AC	130	FALSE	0	-28.22	0.18	0	TRUE	355	28.22					
									19549	14	395	16377: 3204	17508: 2972	6	AC	130	FALSE	0	-12.43	0.14	0	TRUE	395	12.43					
									17641	12	477	14638: 2994	10454: J376	8	AC	130	FALSE	0	-21.6	0.14	0	TRUE	477	21.6					
									24264	11	230	563: 2982	2404: 3082	8	AC	130	FALSE	0	-24.41	0.16	0	TRUE	230	24.41					
									30923	10	464	17508: 2972	3457: 2705	6	AC	130	FALSE	0	-8.69	0.1	0	TRUE	464	8.69					
									22671	9	246	1779: 2865	3459: 2725	12	AC	130	FALSE	0	36.01	0.1	0	TRUE	246	36.01					
									34085	6	57	3457: 2705	11794: 2688	6	AC	130	FALSE	0	13.5	0.15	0	TRUE	57	13.5					
									27607	4	386	3382: 2616	16823: 2403	10	AC	130	FALSE	0	2.15	0.01	0	TRUE	386	2.15					
									29210	2	277	2688: 2401	11739: 2508	6	AC	130	FALSE	0	0	0	0	TRUE	277	0					

Updated	6,700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
8935	15950	1.5	<None>	<Collection: 1 item>	8.6	172.5	74.1		20871	P593	445	7500: 13901	10102: J402	6		130	FALSE	0	0.00	0	0	TRUE	445	0				Pressure	
8045	15772	1.5	<None>	<Collection: 1 item>	7.98	173	74.4		27516	P571	49	1033: 12587	8131: J392	6		130	FALSE	0	41.25	0.47	0	TRUE	49	41.25				Average	74.0357
3910	13303	46.7	<None>	<Collection: 1 item>	7.47	174.8	55.5		21193	P569	90	5820: 12670	8131: J392	8	AC	130	FALSE	0	-92.59	0.59	0	TRUE	90	92.59				Minimum	55.5
5230	13325	6.3	<None>	<Collection: 1 item>	7.47	176.3	73.7		32590	P263	414	8467: J158	8858: J162	8		130	FALSE	0	75.41	0.48	0	TRUE	414	75.41				Maximum	79.2
8202	13302	46.6	<None>	<Collection: 1 item>	7.47	174.8	55.6		31698	P261	210	6409: J156	8467: J158	8		130	FALSE	0	77.6	0.5	0	TRUE	210	77.6				Velocity	
10088	13198	46.7	<None>	<Collection: 1 item>	7.47	174.9	55.6		33437	P259	413	17378: J160	6409: J156	8		130	FALSE	0	79.78	0.51	0	TRUE	413	79.78				Average	0.45059
11995	13199	46.7	<None>	<Collection: 1 item>	7.47	174.9	55.6		21694	P257	141	8858: J162	759: J56	12	AC	130	FALSE	0	608.35	1.73	0.001	TRUE	141	608.35				Minimum	0
13547	14264	2	<None>	<Collection: 1 item>	7.47	174	74.6		23413	P255	46	1041: 14789	17378: J160	12	AC	130	FALSE	0	-537.45	1.52	0.001	TRUE	46	537.45				Maximum	4.37
16208	14263	2	<None>	<Collection: 1 item>	7.47	174	74.6		28975	P131	13	12380: 13390	5781: 13400	6		130	FALSE	0	1.48	0.02	0	TRUE	13	1.48				Flow	
11191	15118	1.4	<None>	<Collection: 1 item>	7.46	173.4	74.5		25732	P129	114	759: J56	11690: 14955	8		130	FALSE	0	170.78	1.09	0.001	TRUE	114	170.78				Average	80.6457
1111	12903	14.6	<None>	<Collection: 1 item>	3.65	176.8	70.3		17705	P127	50	759: J56	9531: 14998	12	AC	130	FALSE	0	499.62	1.42	0.001	TRUE	50	499.62				Minimum	0
4246	12882	10.6	<None>	<Collection: 1 item>	3.65	177	72.1		27885	P125	64	16991: J54	7898: 14472	6		130	FALSE	0	92.55	1.05	0.001	TRUE	64	92.55				Maximum	1311.66
4253	12782	24	<None>	<Collection: 1 item>	3.65	177.8	66.7		36075	P123	93	16991: J54	7240: 14371	10	AC	130	FALSE	0	-372.36	1.52	0.001	TRUE	93	372.36					
4955	13008	7.6	<None>	<Collection: 1 item>	3.65	177	73.4		28974	P121	186	761: J52	13169: 14553	8		130	FALSE	0	217.43	1.39	0.001	TRUE	186	217.43					
7033	12958	14.8	<None>	<Collection: 1 item>	3.65	176.8	70.2		25735	P119	212	761: J52	4990: 14386	12	AC	130	FALSE	0	-437.48	1.24	0.001	TRUE	212	437.48					
8392	13162	10.7	<None>	<Collection: 1 item>	3.65	176.6	71.9		17706	P117	79	12306: J50	2981: 14308	12		130	FALSE	0	-538.34	1.53	0.001	TRUE	79	538.34					
11130	13163	10.6	<None>	<Collection: 1 item>	3.65	176.6	72		32307	P115	157	12306: J50	14733: 14395	12	AC	130	FALSE	0	203.23	0.58	0	TRUE	157	203.23					
12069	12955	32.1	<None>	<Collection: 1 item>	3.65	177.8	63.2		26074	P113	32	7040: 13974	4784: 13985	12		130	FALSE	0	600.71	1.7	0.001	TRUE	32	600.71					
12179	12890	14.8	<None>	<Collection: 1 item>	3.65	176.8	70.2		19922	P111	20	15927: J48	15290: 12817	12		130	FALSE	0	507.54	1.44	0.001	TRUE	20	507.54					
12852	12956	14.3	<None>	<Collection: 1 item>	3.65	176.8	70.4		25734	P109	741	15927: J48	11418: 12797	30	STL	130	FALSE	0	-894.48	0.41	0	TRUE	741	894.48					
15073	12895	10.5	<None>	<Collection: 1 item>	3.65	177	72.2		37186	P-123	118	37165: J-146	37173: J-148	20	Ductile Iron	130	FALSE	0	-156.31	0.16	0	FALSE	0	156.31					
3265	15881	1.5	<None>	<Collection: 1 item>	2.56	172.5	74.1		37174	P-117	10	37173: J-148	37168: J-147	12	Ductile Iron	130	FALSE	0	779.27	2.21	0.002	FALSE	0	779.27					
13446	13394	6.5	<None>	<Collection: 1 item>	2.55	176.4	73.7		37170	P-116	95	37168: J-147	15484: 12735	12	AC	130	FALSE	0	778.40	2.21	0.002	TRUE	95	778.4					
247	15317	6.5	<None>	<Collection: 1 item>	2.44	173	72.2		37169	P-115	48	14770: 12584	37168: J-147	12	AC	130	FALSE	0	-0.87	0	0	TRUE	48	0.87					
409	15241	6.5	<None>	<Collection: 1 item>	2.44	173.2	72.3		37167	P-114	61	37165: J-146	7540: 12771	30	STL	130	FALSE	0	198.05	0.09	0	TRUE	61	198.05					
410	15341	6.5	<None>	<Collection: 1 item>	2.44	173.1	72.2		28668	190835	458	16356: 15893	3285: 15881	12		130	FALSE	0	-204.97	0.58	0	TRUE	458	204.97					
416	14667	1.4	<None>	<Collection: 1 item>	2.44	173.6	74.7		26866	190807	197	8868: 12459	8584: 12575	6		130	FALSE	0	-4.08	0.05	0	TRUE	197	4.08					
622	14777	0.9	<None>	<Collection: 1 item>	2.44	173.5	74.9		24955	190801	36	2337: 13320	14048: 13318	8		130	FALSE	0	-136.67	0.87	0	TRUE	36	136.67					
711	14812	1.9	<None>	<Collection: 1 item>	2.44	173.5	74.4		25500	190799	136	1169: 15231	16342: 15290	8		130	FALSE	0	91.41	0.58	0	TRUE	137	91.41					
1225	15289	6.5	<None>	<Collection: 1 item>	2.44	173.1	72.2		17874	190795	4	14621: 13043	742: 13041	6		130	FALSE	0	74.72	0.85	0.001	TRUE	4	74.72					
1266	15315	6.6	<None>	<Collection: 1 item>	2.44	173	72.1		28952	190793	37	1254: 13212	551: 13223	6		130	FALSE	0	174.65	1.98	0.003	TRUE	37	174.65					
1283	15527	3	<None>	<Collection: 1 item>	2.44	172.9	73.7		33384	190755	4	11994: 13099	5785: 13100	6		130	FALSE	0	-45.02	0.51	0	TRUE	4	45.02					
1701	15086	6.6	<None>	<Collection: 1 item>	2.44	173.2	72.3		22314	19530	13	11316: 16055	12094: 16056	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	13	1.48					
2298	14949	5.2	<None>	<Collection: 1 item>	2.44	173.4	72.9		29527	19527	13	9319: 15944	14657: 15945	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	13	1.48					
2484	14913	2.2	<None>	<Collection: 1 item>	2.44	173.4	74.2		23054	19525	93	193: 15911	14657: 15945	8	AC	130	FALSE	0	144.58	0.92	0.001	TRUE	93	144.58					
2606	15284	6.5	<None>	<Collection: 1 item>	2.44	173.1	72.2		22895	19467	120	1256: 15815	4644: 15907	8	AC	130	FALSE	0	133.57	0.85	0	TRUE	120	133.57					
3149	15308	6.5	<None>	<Collection: 1 item>	2.44	173.1	72.2		33318	19466	110	1256: 15815	1969: 15816	8	AC	130	FALSE	0	-138.02	0.88	0	TRUE	110	138.02					
3563	14621	1.9	<None>	<Collection: 1 item>	2.44	173.7	74.5		35502	19465	200	1222: 15789	1256: 15815	6	AC	130	FALSE	0	-2.96	0.03	0	TRUE	200	2.96					
4060	15182	3.2	<None>	<Collection: 1 item>	2.44	173.1	73.7		26828	19464	60	14908: 15795	13683: 15818	6	AC	130	FALSE	0	-2.96	0.03	0	TRUE	60	2.96					
4195	15523	5.1	<None>	<Collection: 1 item>	2.44	172.9	72.8		27744	19463	60	6373: 15794	1969: 15816	6	AC	130	FALSE	0	-2.96	0.03	0	TRUE	60	2.96					
4221	15519	4.8	<None>	<Collection: 1 item>	2.44	172.9	72.9		19103	19462	296	13814: 15791	13683: 15818	8	AC	130	FALSE	0	146.9	0.94	0.001	TRUE	296	146.9					
4861	15525	4.9	<None>	<Collection: 1 item>	2.44	172.9	72.8		35656	19461	13	14908: 15795	13576: 15796	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	13	1.48					
5415	15100	6.5	<None>	<Collection: 1 item>	2.44	173.2	72.3		31649	19460	12	16363: 15793	6373: 15794	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	12	1.48					
5419	15526	4.7	<None>	<Collection: 1 item>	2.44	172.9	72.9		31466	19459	13	13814: 15791	14535: 15792	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	13	1.48					
5946	15183	3.4	<None>	<Collection: 1 item>	2.44	173.1	73.6		19163	19458	37	1222: 15789	12003: 15790	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	37	1.48					
6102	15316	6.5	<None>	<Collection: 1 item>	2.44	173.1	72.2		19863	19457	17	10956: 15756	5174: 15757	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	17	1.64					
6326	14904	1.2	<None>	<Collection: 1 item>	2.44	173.5	74.7		24654	19453	12	1699: 15686	13813: 15691	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	12	1.48					
6779	15221	4.9	<None>	<Collection: 1 item>	2.44	173.1	72.9		35002	19452	209	13891: 15748	1699: 15686	8	AC	130	FALSE	0	-136.81	0.87	0	TRUE	209	136.81					
6843	14857	1.3	<None>	<Collection: 1 item>	2.44	173.5	74.6		31275	19451	136	4455: 15685	2602: 15684	6	AC	130	FALSE	0	1.48	0.02	0	TRUE	136	1.48					
7236	14671	2	<None>	<Collection: 1 item>	2.44	173.6	74.4		35732	19447	243	15150: 15562	4455: 15685	8	AC	130	FALSE	0	142.74	0.91	0	TRUE	243	142.74					
7237	14771	1	<None>	<Collection: 1 item>	2.44	173.5	74.8		27068	19446	411	16361: 15593	5174: 15757	8	AC	130	FALSE	0	97.26	0.62	0	TRUE	411	97.26					
8076	15520	5.1	<None>	<Collection: 1 item>	2.44	172.9	72.8		20660	19445	13	16361: 15593	14906: 15595	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	13	1.64					
8424	15075	6.3	<None>	<Collection: 1 item>	2.44	173.3	72.4		21580	19443	122	13734: 15564	15150: 15562	8	AC	130	FALSE	0	79.37	0.51	0	TRUE	122	79.37					
8580	15059	2.1	<None>	<Collection: 1 item>	2.44	173.2	74.2		31877	19442	119	15150: 15562	14455: 15561	8	AC	130	FALSE	0	-64.85	0.41	0	TRUE	119	64.85					
8696	15310	6.5	<None>	<Collection: 1 item>	2.44	173.1	72.2		25432	19440	60	3143: 15508	13734: 15564	6	AC	130	FALSE	0	-5.92	0.07	0	TRUE	60	5.92					
8735	14506	6.2	<None>	<Collection: 1 item>	2.44	173.7	72.6		22636	19439	60	7860: 15502	14455: 15561	6	AC	130	FALSE	0	-5.92	0.07	0	TRUE	60	5.92					
8953	14676	2	<None>	<Collection: 1 item>	2.44	173.6	74.4		31934	19438	62	9709: 15498	12689: 15560	6	AC	130	FALSE	0	-7.4	0.08	0	TRUE	62	7.4					
9142	15529	2.8	<None>	<Collection: 1 item>	2.44	172.9	73.8		32649	19437	17	4648: 15507	3143: 15508	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	17	1.48					
9296	14497	6	<None>	<Collection: 1 item>	2.44	173.7	72.7		35265	19435	19	7197: 15501	7860: 15502	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	19	1.48					
9951	14938	6.5	<None>	<Collection: 1 item>	2.44	173.4	72.3		36517	19434	19	13573: 15496	9709: 15498	6	AC	130	FALSE	0	-1.48	0.02	0	TRUE	19	1.48					
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1645	15329	4	<None>	<Collection: 1 item>	1.48	173.9	73.6		17924	5955	66	5257: 15779	15459: 15809	8	AC	130	FALSE	0	-3.28	0.02	0	TRUE	66	3.28								
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7069	14419	2.2	<None>	<Collection: 1 item>	1.48	175.2	75		19793	5918	411	626: 14377	7905: 14372	12	AC	130	FALSE	0	428.76	1.22	0.001	TRUE	411	428.76								
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13734	15564	4

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Updated	6,700 GPM																													
Junction Properties									Pipeline Properties																					
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)							
3603	6549	22	<None>	<Collection: 1 item>	14.77	182.5	69.6		20329	Well No. 9 Outflow	28	15963: 6476	8831: WELL No. 9	16	AC	130	FALSE	0	-1,793.90	2.86	0.002	TRUE	28	1793.9				Pressure		
4014	6553	23.7	<None>	<Collection: 1 item>	14.77	182.5	68.8		17825	P519	104	6064: 6121	2781: J370	12		130	FALSE	0	-118.68	0.34	0	TRUE	101	118.68				Average	71.1158	
6713	6440	23.6	<None>	<Collection: 1 item>	14.77	182.6	68.9		35545	P517	16	2718: J366	1207: J368	12		130	FALSE	0	94.97	0.27	0	TRUE	13	94.97				Minimum	59.9	
7431	6551	21.9	<None>	<Collection: 1 item>	14.77	182.5	69.6		27514	P511	132	2781: J370	1207: J368	12		130	FALSE	0	-79.7	0.23	0	TRUE	141	79.7				Maximum	81.9	
8683	6425	23.7	<None>	<Collection: 1 item>	14.77	182.6	68.9		17824	P509	180	8134: J362	6064: 6121	12		130	FALSE	0	-63.5	0.18	0	TRUE	178	63.5				Velocity		
8835	6437	23.1	<None>	<Collection: 1 item>	14.77	182.6	69.1		31357	P507	369	10326: 5652	8134: J362	12		130	FALSE	0	-114.32	0.32	0	TRUE	371	114.32				Average	0.34896	
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67	3007	-5.6	<None>	<Collection: 1 item>	5.91	183.3	81.9		33786	P503	61	6970: 5184	4233: J358	12	AC	130	FALSE	0	-45.62	0.13	0	TRUE	61	45.62				Maximum	5.67	
1710	3016	24.1	<None>	<Collection: 1 item>	5.91	183.3	69		32820	P501	190	2717: J356	6970: 5184	12	AC	130	FALSE	0	-41.47	0.12	0	TRUE	191	41.47				Flow		
1777	2845	21.8	<None>	<Collection: 1 item>	5.91	183.3	70		20363	P499	142	15653: 4865	6143: J354	12	AC	130	FALSE	0	-31.75	0.09	0	TRUE	140	31.75				Average	#VALUE!	
6537	3559	11.5	<None>	<Collection: 1 item>	5.91	184.8	75.1		20907	P497	54	438: 4832	1624: J352	12	AC	130	FALSE	0	6.66	0.02	0	TRUE	58	6.66				Minimum	#VALUE!	
6610	3015	24.3	<None>	<Collection: 1 item>	5.91	183.3	68.9		35027	P495	77	679: J350	7091: 4587	12	AC	130	FALSE	0	5.53	0.02	0	TRUE	74	5.53				Maximum	#VALUE!	
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17163	5871	22	<None>	<Collection: 1 item>	4.77	182.7	69.7		38730	P-808	27	8831: WELL No. 9	38727: J-521	8	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0						
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13076	5718	19.8	<None>	<Collection: 1 item>	3.3	185.6	71.9		37258	P-163	23	37255: J-182	37257: J-183	16	Ductile Iron	130	FALSE	0	1,793.90	2.86	0.002	FALSE	0	1793.9						
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91	5321	21	<None>	<Collection: 1 item>	2.74	182.8	70.2		37239	P-153	47	37236: J-174	37238: J-175	24	Ductile Iron	130	FALSE	0	-2,587.79	1.84	0.001	FALSE	0	2587.79						
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6459	6205	27.4	<None>	<Collection: 1 item>	2.74	185.7	68.6		26930	190823	2	16879: 7669	2041: 190836	6		130	FALSE	0	0	0	0	TRUE	2	0						
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2960	6207	22	<None>	<Collection: 0 items>	0	183	69.8	32116	5793	35	13273: 6034	6323: 6033	8	AC	130	FALSE	0	28.80	0.18	0	TRUE	35	28.8							
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16479	6470	25.3	<None>	<Collection: 0 items>	0	185	69.3		22110	4987	265	7155: 6744	3603: 6549	6	AC	130	FALSE	0	-26.46	0.3	0	TRUE	265	26.46					
16508	6208	-3.5	<None>	<Collection: 0 items>	0	183	80.8		20296	4984	60	714: 6645	10422: 6646	6	AC	130	FALSE	0	-2.68	0.03	0	TRUE	60	2.68					
16538	4554	25.1	<None>	<Collection: 0 items>	0	182.9	68.4		28679	4983	280	13210: 6643	714: 6645	6	AC	130	FALSE	0	22.88	0.26	0	TRUE	280	22.88					
16542	4534	21.5	<None>	<Collection: 0 items>	0	182.9	70		25586	4982	40	5550: 6642	13210: 6643	6	AC	130	FALSE	0	68.94	0.78	0.001	TRUE	40	68.94					
37236	J-174	0	<None>	<Collection: 1 item>	0	182.7	79.2		22476	4981	113	10597: 6588	6210: 6641	8	AC	130	FALSE	0	214.6	1.37	0.001	TRUE	113	214.6					
37238	J-175	0	<None>	<Collection: 1 item>	0	182.7	79.2		19400	4980	42	7431: 6551	10597: 6588	8	AC	130	FALSE	0	218.18	1.39	0.001	TRUE	42	218.18					
37240	J-176	0	<None>	<Collection: 1 item>	0	182.9	79.3		23204	4979	82	4244: 6576	14503: 6510	8	AC	130	FALSE	0	-186.31	1.19	0.001	TRUE	80	186.31					
37242	J-177	0	<None>	<Collection: 1 item>	0	182.9	79.3		24687	4975	686	7436: 6521	11872: 6527	21	SS	130	FALSE	0	-1,366.82	1.27	0	TRUE	686	1366.82					
37244	J-178	0	<None>	<Collection: 1 item>	0	182.9	79.3		20305	4974	138	11871: 6517	7436: 6521	21	SS	130	FALSE	0	-1,141.55	1.06	0	TRUE	138	1141.55					
37248	J-179	0	<None>	<Collection: 1 item>	0	182.9	79.3		34941	4973	337	664: 6515	11871: 6517	21	SS	130	FALSE	0	-1,092.65	1.01	0	TRUE	337	1092.65					
37250	J-180	0	<None>	<Collection: 1 item>	0	182.9	79.3		35399	4972	361	11010: 6512	664: 6515	21	SS	130	FALSE	0	-1,076.07	1	0	TRUE	361	1076.07					
37252	J-181	0	<None>	<Collection: 1 item>	0	182.9	79.3		19407	4970	292	14503: 6510	11010: 6512	21	SS	130	FALSE	0	-1,060.67	0.98	0	TRUE	292	1060.67					
37255	J-182	0	<None>	<Collection: 1 item>	0	183	79.3		23203	4969	23	3607: 6509	14503: 6510	21	SS	130	FALSE	0	-874.37	0.81	0	TRUE	23	874.37					
37257	J-183	0	<None>	<Collection: 1 item>	0	183	79.3		33517	4967	451	6499: 6458	15746: 6453	8	AC	130	FALSE	0	201.32	1.28	0.001	TRUE	451	201.32					
37260	J-184	0	<None>	<Collection: 1 item>	0	183.1	79.4		29048	4966	2	6498: 6448	4560: 6443	6	AC	130	FALSE	0	152.12	1.73	0.002	TRUE	2	152.12					
37262	J-185	0	<None>	<Collection: 1 item>	0	183	79.3		24686	4965	45	4560: 6443	7414: 6353	6	AC	130	FALSE	0	-39.77	0.45	0	TRUE	45	39.77					
37973	J-297	34	<None>	<Collection: 0 items>	0	191.7	68.4		31822	4964	131	2718: J366	2960: 6207	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	136	412.57					
38727	J-521	5.4	<None>	<Collection: 0 items>	0	186.6	78.6		22104	4963	2	15752: 6433	1872: 6434	8	AC	130	FALSE	0	-140.92	0.9	0	TRUE	2	140.92					
38733	J-523	27.6	<None>	<Collection: 0 items>	0	186.6	68.9		35398	4962	223	5296: 6432	15752: 6433	8	AC	130	FALSE	0	-137.42	0.88	0	TRUE	223	137.42					
38737	J-524	21.7	<None>	<Collection: 0 items>	0	182.9	69.9		22483	4961	11	15767: 6415	15752: 6433	8	AC	130	FALSE	0	-1.62	0.01	0	TRUE	11	1.62					
38742	J-525	0	<None>	<Collection: 0 items>	0	183.2	79.4		19406	4960	288	1505: 6082	1687: 6431	8	AC	130	FALSE	0	89.52	0.57	0	TRUE	288	89.52					
38745	J-526	21.7	<None>	<Collection: 0 items>	0	182.9	69.9		28335	4959	110	17189: 6372	4398: 6220	6	AC	130	FALSE	0	122.48	1.39	0.002	TRUE	110	122.48					
38748	J-527	0	<None>	<Collection: 0 items>	0	182.9	79.3		25251	4958	235	7414: 6353	15561: 6104	6	AC	130	FALSE	0	-49.32	0.56	0	TRUE	235	49.32					
38750	J-528	21.8	<None>	<Collection: 0 items>	0	182.9	69.9		22120	4957	242	4398: 6220	7248: 6000	6	AC	130	FALSE	0	55.94	0.63	0	TRUE	242	55.94					
38754	J-529	27.6	<None>	<Collection: 0 items>	0	186.6	68.9		29051	4956	106	2960: 6207	14334: 6122	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	106	412.57					
8808	WELL No.	25	<None>	<Collection: 1 item>	-2,000.00	192	72.4		34952	4955	178	14334: 6122	12350: 5964	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	178	412.57					
8831	WELL No.	27.9	<None>	<Collection: 1 item>	-2,300.00	186.6	68.8		31825	4954	14	6064: 6121	8682: 6120	6	AC	130	FALSE	0	50.4	0.57	0	TRUE	4	50.4					
									28690	4953	47	8682: 6120	12548: 6119	6	AC	130	FALSE	0	73.19	0.83	0.001	TRUE	47	73.19					
									35401	4952	367	12350: 5964	6817: 5651	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	371	412.57					
									22485	4951	12	6817: 5651	3560: 5646	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	9	412.57					
									19409	4950	306	3560: 5646	8118: 5437	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	307	412.57					
									28334	4949	710	15014: 5463	2554: 5645	8	AC	130	FALSE	0	-14.96	0.1	0	TRUE	710	14.96					
									25250	4948	266	938: 5642	7021: 5644	6	AC	130	FALSE	0	-6.62	0.08	0	TRUE	266	6.62					
									22119	4947	348	13978: 5587	938: 5642	6	AC	130	FALSE	0	-4.24	0.05	0	TRUE	348	4.24					
									29050	4946	361	8104: 5604	14848: 5370	6	AC	130	FALSE	0	-20.98	0.24	0	TRUE	361	20.98					
									34951	4945	344	14530: 5359	3479: 5586	6	AC	130	FALSE	0	7.14	0.08	0	TRUE	344	7.14					
									31824	4944	40	4801: 5441	15014: 5463	8	AC	130	FALSE	0	-9.28	0.06	0	TRUE	40	9.28					
									28689	4943	280	8118: 5437	3825: 5252	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	278	412.57					
									21386	4942	57	92: 5331	14191: 5375	8	AC	130	FALSE	0	-4.97	0.03	0	TRUE	57	4.97					
									22484	4941	61	14848: 5370	3517: 5324	6	AC	130	FALSE	0	-26.66	0.3	0	TRUE	61	26.66					
									21761	4940	220	1509: 5329	5705: 5328	6	AC	130	FALSE	0	16.54	0.19	0	TRUE	220	16.54					
									23200	4939	21	5705: 5328	7379: 5327	6	AC	130	FALSE	0	11.78	0.13	0	TRUE	21	11.78					
									18880	4938	262	7379: 5327	3517: 5324	6	AC	130	FALSE	0	21.34	0.24	0	TRUE	262	21.34					
									25772	4937	306	3517: 5324	91: 5321	6	AC	130	FALSE	0	-7.10	0.08	0	TRUE	306	7.1					
									29045	4936	11	5704: 5318	7897: 5317	8	AC	130	FALSE	0	35.02	0.22	0	TRUE	11	35.02					
									24683	4935	162	7897: 5317	11944: 5316	8	AC	130	FALSE	0	31.24	0.2	0	TRUE	162	31.24					
									20302	4934	132	11944: 5316	8396: 5313	8	AC	130	FALSE	0	22.21	0.14	0	TRUE	132	22.21					
									34937	4933	4	8396: 5313	8498: 5312	8	AC	130	FALSE	0	18.42	0.12	0	TRUE	4	18.42					
									35395	4932	143	8498: 5312	11123: 5310	8	AC	130	FALSE	0	14.64	0.09	0	TRUE	143	14.64					
									22480	4931	61	1366: 5195	9050: 5263	8	AC	130	FALSE	0	-13.94	0.09	0	TRUE	61	13.94					
									19403	4930	255	1624: J352	679: J350	12	AC	130	FALSE	0	6.54	0.02	0	TRUE	254	6.54					
									23199	4929	81	1198: 4639	1135: 4589	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	74	412.57					
									18879	4928	30	1135: 4589	4935: 4571	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	27	412.57					
									29044	4926	399	11971: 4540	9835: 4195	24	SS	130	FALSE	0	-412.57	0.29	0	TRUE	416	412.57					
									24682	4925	31	8480: 4552	11971: 4540	24	SS	130	FALSE	0	-412.57	0.29	0	TRUE	10	412.57					
									20301	4924	40	4935: 4571	8480: 4552	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	40	412.57					
									34936	4923	261	13926: 5017	16664: 5131	8	AC	130	FALSE	0	31.34	0.2	0	TRUE	261	31.34					
									35394	4922	590	3284: 5128	16685: 5129	6	AC	130	FALSE	0	-7.56	0.09	0	TRUE	590	7.56					
									22479	4921	267	5299: 5093	2098: 4947	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	266	412.57					
									19402	4920	60	8270: 4975	13926: 5017	8	AC	130	FALSE	0	38.12	0.24	0	TRUE	60	38.12					
									23202	4919	590	16534: 5005	9751: 5008	6	AC	130	FALSE	0	-0.85	0.01	0	TRUE	590	0.85					
									25247	4918	60	3957: 4915	14022: 4948	8	AC	130	FALSE	0	-9.45	0.06	0	TRUE	60	9.45					
									33516	4917	145	2098: 4947	592: 4864	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	145	412.57					
									29047	4916	196	16127: 4779	3957: 4915	8	AC	130	FALSE	0	-5.57	0.04	0	TRUE	196	5.57					
									24685	4915	285	8871: 4866	15653: 4865	6	AC	130	FALSE	0	-18.01	0.2	0	TRUE	277	18.01					
									20304	4914	112	592: 4864	7575: 4776	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	111	412.57					
									22103	4913	274	8542: 4862	5487: 4863	6	AC	130	FALSE	0	10.96	0.12	0	TRUE	274	10.96					
									35397	4912	278	12032: 4860	5000: 4861	6	AC	130	FALSE	0	0.2	0	0	TRUE	278	0.2					
									33434	4911	1	15977: 4859	12032: 4860	6	AC	130	FALSE	0	-20.03	0.23	0	TRUE	1	20.03					
									19405	4910	265	8139: 4858	14772: 4857	6	AC	130	FALSE	0	39.9	0.45	0	TRUE	265	39.9					
									23201	4909	11	6633: 4821	11594: 4824	6	AC	130	FALSE	0	2.38	0.03	0	TRUE	11	2.38					
									18881	4908	253	7575: 4776	1198: 4639	20	SS	130	FALSE	0	-412.57	0.42	0	TRUE	257	412.57					
									25773	4907	116	9718: 4566	5500: 4642	8	AC	130	FALSE	0	-2.55	0.02	0	TRUE	116	2.55					
									29046	4906	42	12555: 4568	15583: 4545	6	AC	130	FALSE	0	-16.58	0.19	0	TRUE	42	16.58					
									24684	4905	41	1540: 4563	16542: 4534	6	AC	130	FALSE	0	-27.38	0.31	0	TRUE	41	27.38					
									20303	4904	40	11973: 4560	12557: 4528	6	AC	130	FALSE	0	-36.50	0.41	0	TRUE	40	36.5					
									34938	4903	60	7095: 4547	5146: 4544	8	AC	130	FALSE	0	0	0	0	TRUE	60	0					
									35396	4902	417	5146: 4544	4932: 4541	8	AC	130	FALSE	0	-2.21	0.01	0	TRUE	417	2.21					
									29772	4901	276	5310: 4542	1538: 4543	8	AC	130	FALSE	0	24.83	0.16	0	TRUE	276	24.83					
									19404	4900	289	16542: 4534	12558: 4538	8	AC	130	FALSE	0	49.87	0.32	0	TRUE	289	49.87					
									22470	4899	266	4939: 4531	1544: 4533	8	AC	130	FALSE	0	90.02	0.57	0	TRUE	266	90.02					
									20988	4898	276	12557: 4528	4939: 4531	8	AC	130	FALSE	0	105.90	0.68	0	TRUE	276	105.9					
									28534	4897	40	1143: 4529	12557: 4528	8	AC	130	FALSE	0	142.4	0.91	0	TRUE	40	142.4					

| | | |

Updated	6,700 GPM																												
Junction Properties									Pipeline Properties																				
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)		ID	Label	Length (scaled) (ft)	Start Node	Stop Node	Diameter (in)	Material	Hazen Willaims-C	Has Check Valve	Minor Loss Coefficient (Local)	Flow (gpm)	Velocity (fy/s)	Headloss Gradient (ft/ft)	Has User Defined Length?	Length (User Defined) (ft)						
7438	5343	8	<None>	<Collection: 1 item>	16.84	181.5	75.2		23125	190885	6	4622: 5014	16535: 5015	8		130	FALSE	0	12.77	0.08	0	TRUE	6	12.77				Pressure	
8037	5397	8.1	<None>	<Collection: 1 item>	16.84	181.5	75.2		20916	190863	96	13955: 4258	5375: 4373	6		130	FALSE	0	56.59	0.64	0	TRUE	96	56.59				Average	76.6338
10327	5662	6.9	<None>	<Collection: 1 item>	16.84	181.3	75.6		34542	190861	52	9661: 4445	1541: 4503	8		130	FALSE	0	177.37	1.13	0.001	TRUE	52	177.37				Minimum	54.2
532	5181	3.8	<None>	<Collection: 1 item>	10.58	181.4	77		24500	190859	39	13796: 7158	3789: 7173	8		130	FALSE	0	44.44	0.28	0	TRUE	39	44.44				Maximum	80.5
6823	5228	2.5	<None>	<Collection: 1 item>	10.58	181	77.4		33995	190857	51	4153: 6378	1936: 6375	16		130	FALSE	0	184.28	0.29	0	TRUE	51	184.28				Velocity	
8648	5229	10	<None>	<Collection: 1 item>	10.58	181	74.1		36431	190855	88	3645: 6889	16707: 6817	8		130	FALSE	0	-148.63	0.95	0.001	TRUE	88	148.63				Average	0.249
7594	4272	8.7	<None>	<Collection: 1 item>	9.34	181.9	75.1		32369	13373	29	14912: 8843	5493: 8842	24	PVC	130	FALSE	0	0	0	0	TRUE	29	0				Minimum	0
594	4804	7.7	<None>	<Collection: 1 item>	4.43	181.7	75.4		24130	13308	449	14912: 8843	4196: 8687	24	PVC	130	FALSE	0	15.13	0.01	0	TRUE	449	15.13				Maximum	1.81
1305	4791	7.7	<None>	<Collection: 1 item>	4.43	181.7	75.4		24854	13307	40	8277: 8686	11405: 8648	20	PVC	130	FALSE	0	12.62	0.01	0	TRUE	40	12.62				Flow	
3821	5282	8.5	<None>	<Collection: 1 item>	4.43	181.6	75		27084	13306	61	17226: 8238	16874: 8240	20	PVC	130	FALSE	0	0	0	0	TRUE	61	0				Average	54.2624
3956	4795	8.1	<None>	<Collection: 1 item>	4.43	181.7	75.3		29636	13303	38	4841: 8026	13377: 8030	12	PVC	130	FALSE	0	1.64	0	0	TRUE	38	1.64				Minimum	0
5488	4803	7.6	<None>	<Collection: 1 item>	4.43	181.7	75.5		31895	13302	8	4841: 8026	8264: 8034	12	PVC	130	FALSE	0	-8.47	0.02	0	TRUE	8	8.47				Maximum	725.45
6904	5281	8.2	<None>	<Collection: 1 item>	4.43	181.6	75.2		31458	13274	39	4723: 8573	4567: 8572	8	AC	130	FALSE	0	-2.51	0.02	0	TRUE	39	2.51					
9046	5283	9.5	<None>	<Collection: 1 item>	4.43	181.6	74.6		34638	13272	176	15431: 8527	3313: 8622	12	AC	130	FALSE	0	-53.14	0.15	0	TRUE	176	53.14					
9051	5273	8.5	<None>	<Collection: 1 item>	4.43	181.6	75		36233	13270	163	15431: 8527	8325: 8534	8	AC	130	FALSE	0	73.97	0.47	0	TRUE	163	73.97					
9754	5038	8.7	<None>	<Collection: 1 item>	4.43	181.6	75		28341	13264	250	12946: 8399	8325: 8534	8	AC	130	FALSE	0	-70.69	0.45	0	TRUE	250	70.69					
12035	4810	8.1	<None>	<Collection: 1 item>	4.43	181.7	75.2		31521	13262	42	11256: 8398	12946: 8399	6	AC	130	FALSE	0	-31.55	0.36	0	TRUE	42	31.55					
12824	5274	9.5	<None>	<Collection: 1 item>	4.43	181.6	74.6		22790	13261	33	8276: 8387	11256: 8398	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	33	1.64					
13928	5037	8.7	<None>	<Collection: 1 item>	4.43	181.6	75		26130	13253	12	17218: 8298	15021: 8314	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
544	6672	2.1	<None>	<Collection: 1 item>	4.09	180.5	77.4		28418	13252	37	17218: 8298	3298: 8299	8	AC	130	FALSE	0	-46.39	0.3	0	TRUE	37	46.39					
650	6148	1.3	<None>	<Collection: 1 item>	4.09	180.7	77.8		26934	13240	291	9980: 8179	3298: 8299	8	AC	130	FALSE	0	10.54	0.07	0	TRUE	291	10.54					
920	5818	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		30492	13239	12	9980: 8179	14140: 8184	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
1367	6894	6.7	<None>	<Collection: 1 item>	4.09	180.6	75.4		27702	13235	17	14825: 8118	13999: 8116	6	AC	130	FALSE	0	1.84	0.02	0	TRUE	17	1.84					
1506	6092	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		19059	13234	68	14825: 8118	15183: 8117	6	AC	130	FALSE	0	-5.51	0.06	0	TRUE	68	5.51					
2754	6250	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		22198	13232	32	16649: 8084	7118: 8105	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	32	1.64					
2833	7041	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		32520	13231	155	16649: 8084	15374: 8087	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	155	1.64					
3017	6917	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		26037	13229	249	15183: 8117	14838: 7950	12	AC	130	FALSE	0	-30.49	0.09	0	TRUE	249	30.49					
3022	6777	1.5	<None>	<Collection: 1 item>	4.09	180.4	77.6		30198	13216	12	2566: 7955	2562: 7985	6	AC	130	FALSE	0	1.84	0.02	0	TRUE	12	1.84					
3261	7006	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		32774	13213	68	3209: 7951	2311: 7954	12	AC	130	FALSE	0	71.87	0.2	0	TRUE	68	71.87					
3669	7026	6.9	<None>	<Collection: 1 item>	4.09	180.6	75.3		26290	13211	56	7158: 7924	4900: 7957	6	AC	130	FALSE	0	-11.49	0.13	0	TRUE	56	11.49					
3885	6474	3.5	<None>	<Collection: 1 item>	4.09	180.5	76.8		17660	13210	56	2311: 7954	11647: 7923	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	56	1.64					
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12933	7552	1.5	<None>	<Collection: 1 item>	1.64	180.3	77.5		18257	2985	46	13540: 6944	3018: 6927	12	AC	130	FALSE	0	-286.48	0.81	0	TRUE	46	286.48						
12946	8399	1.8	<None>	<Collection: 1 item>	1.64	180.3	77.4		30248	2977	61	13094: 7745	5643: 7773	6	AC	130	FALSE	0	42.56	0.48	0	TRUE	61	42.56						
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										30121	2123	37	6933: 4269	9829: 4270	6	AC	130	FALSE	0	-14.15	0.16	0	TRUE	37	14.15											
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