MESA WATER DISTRICT

M25-101 INTERAGENCY WATER TRANSFERS – FEASIBILITY STUDY

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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

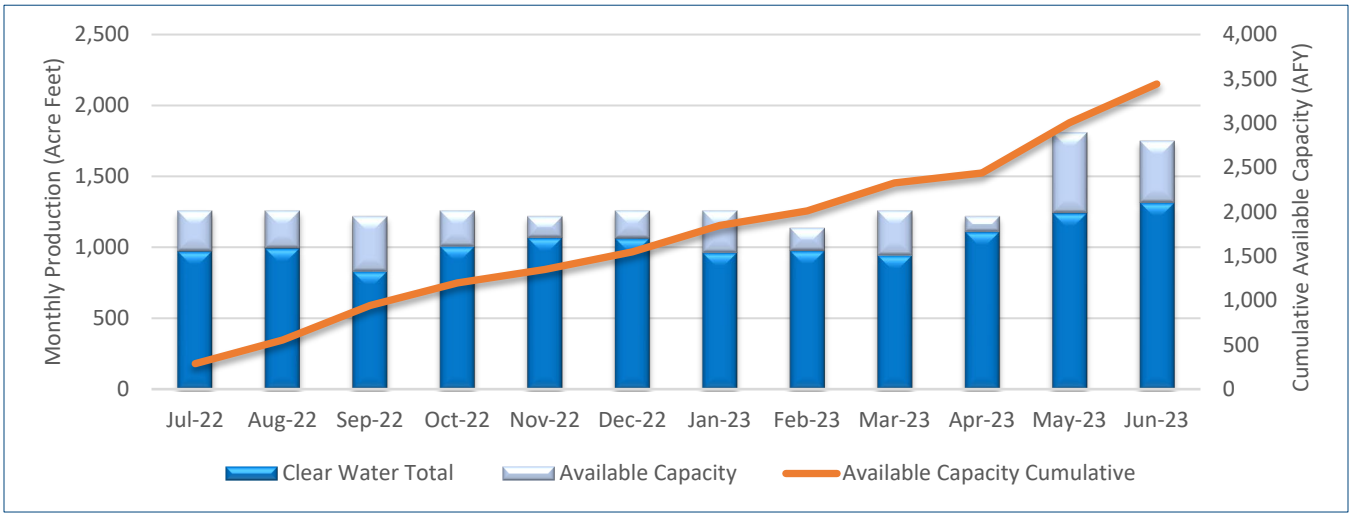


Figure 2-2: FY2024 Available Clear Well Supply

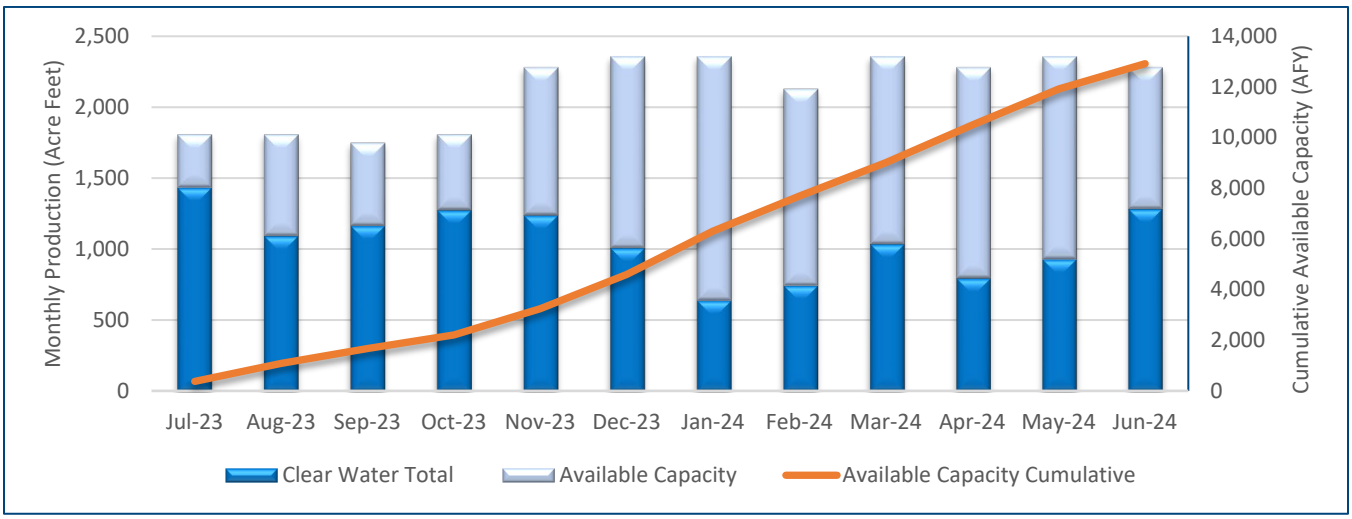


Figure 2-3: FY2025 Available Clear Well Supply

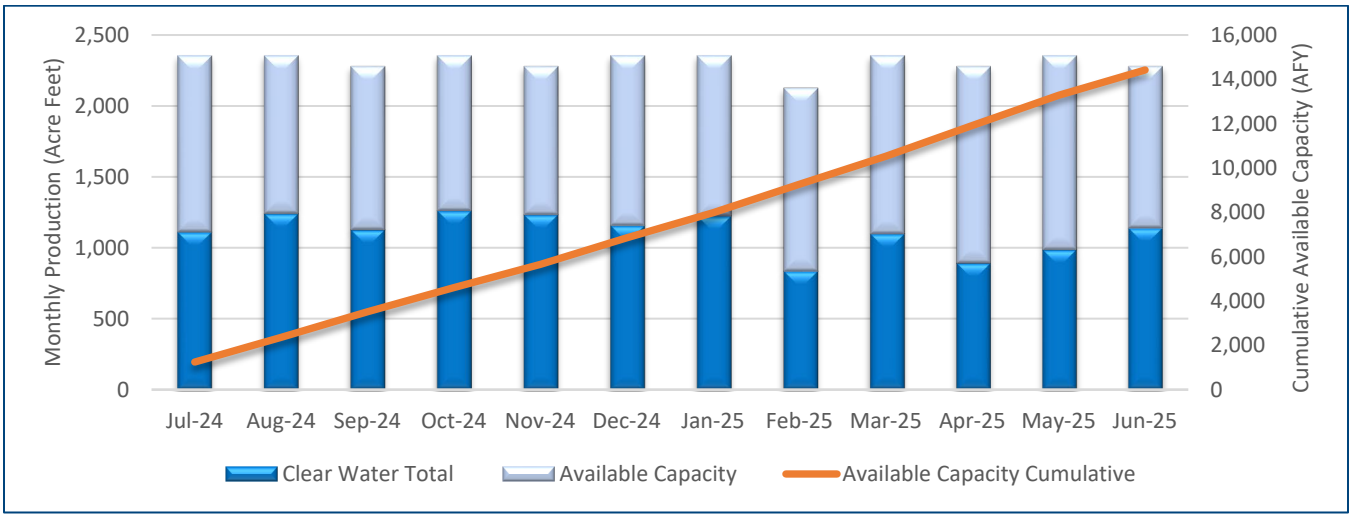


Figure 2-4: FY2023 Available Amber Well Supply

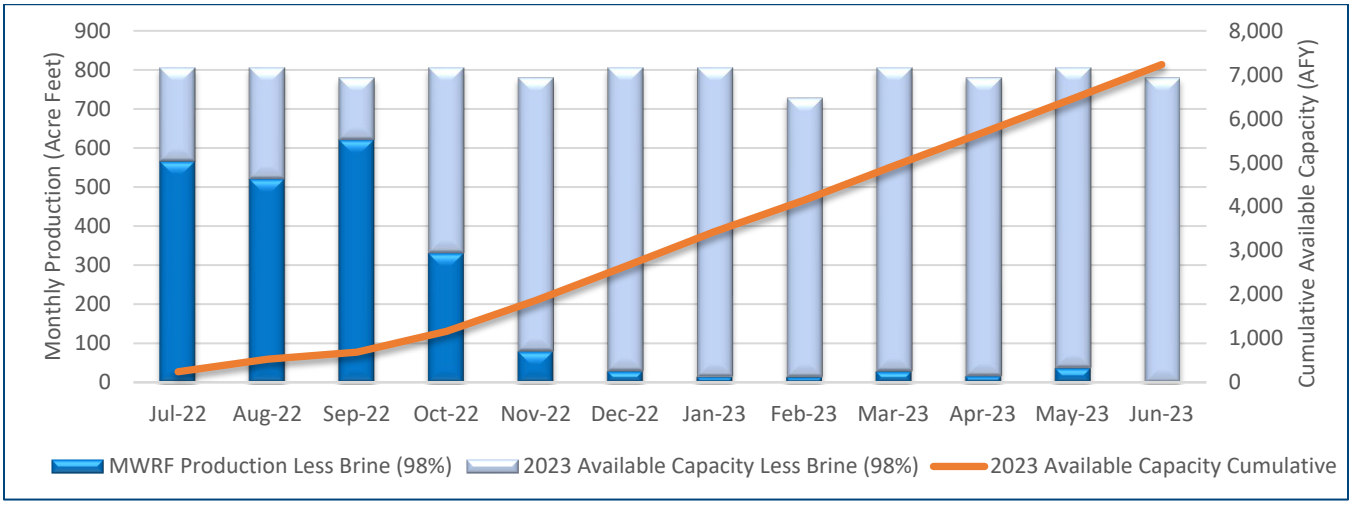


Figure 2-5: FY2024 Available Amber Well Supply

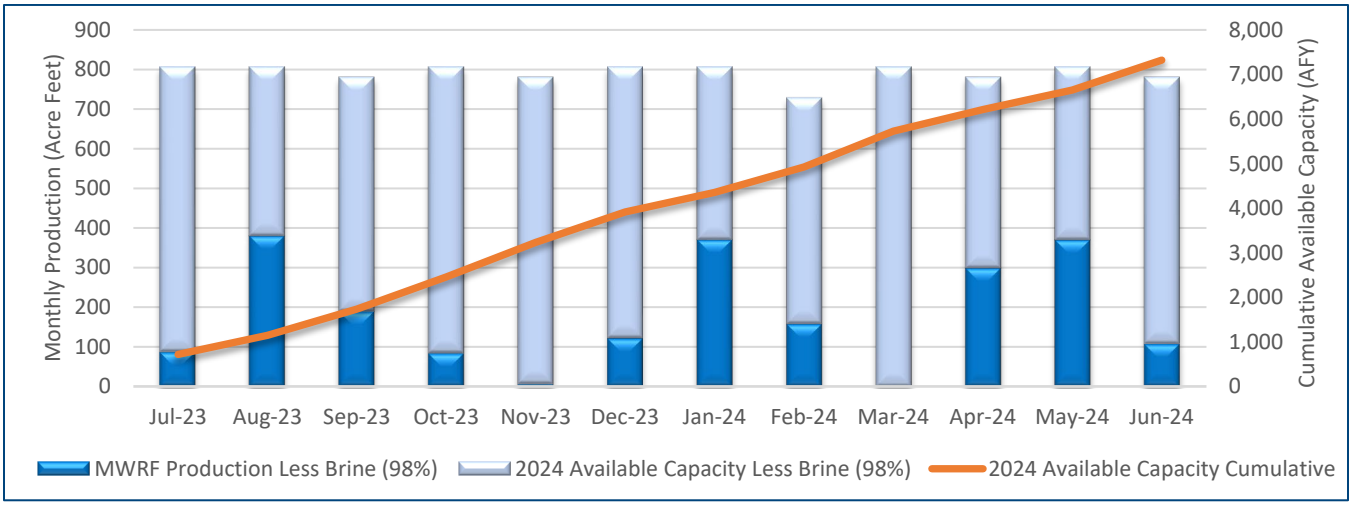


Figure 2-6: FY2025 Available Amber Well Supply

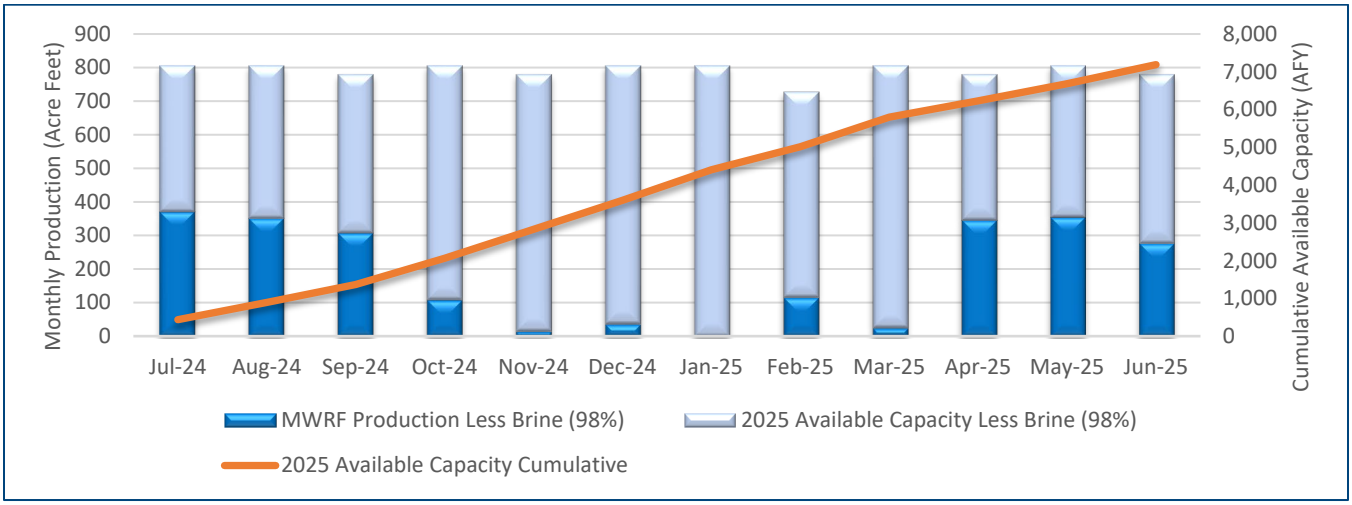


Table 2-2 provides a summary of the historical available capacity.

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

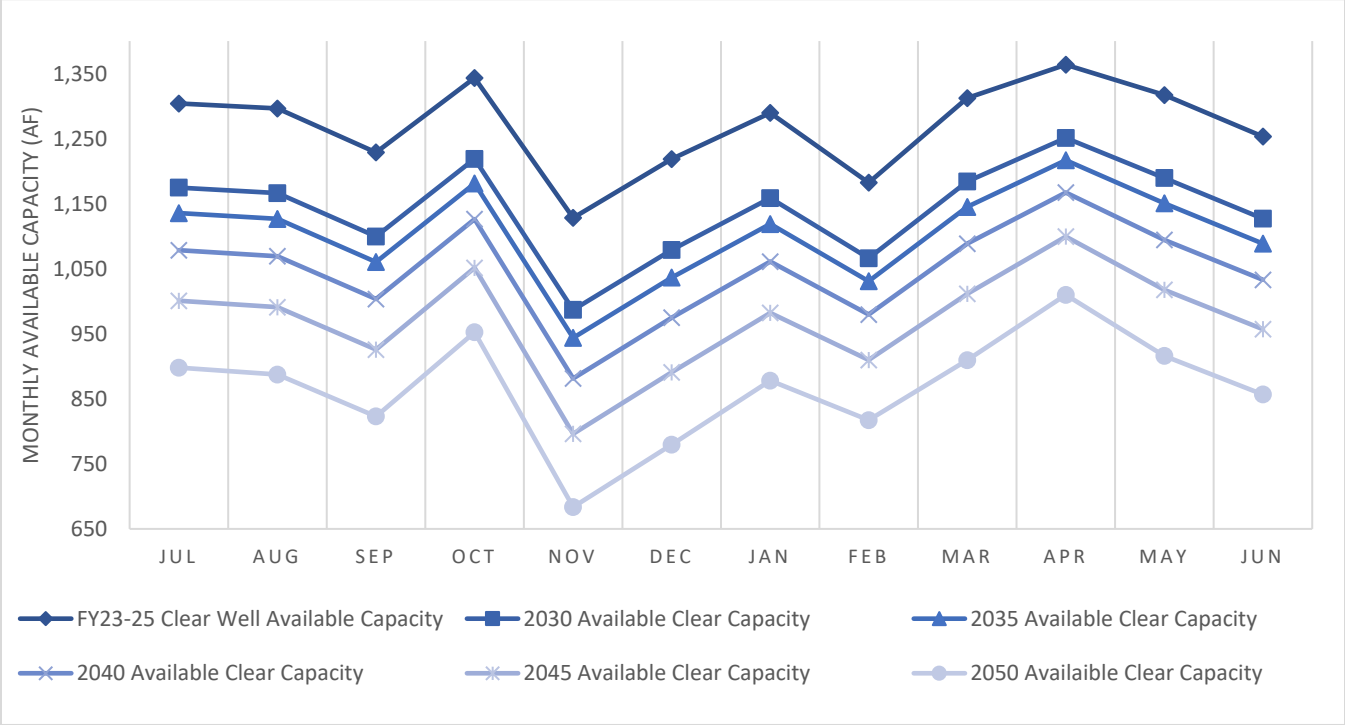
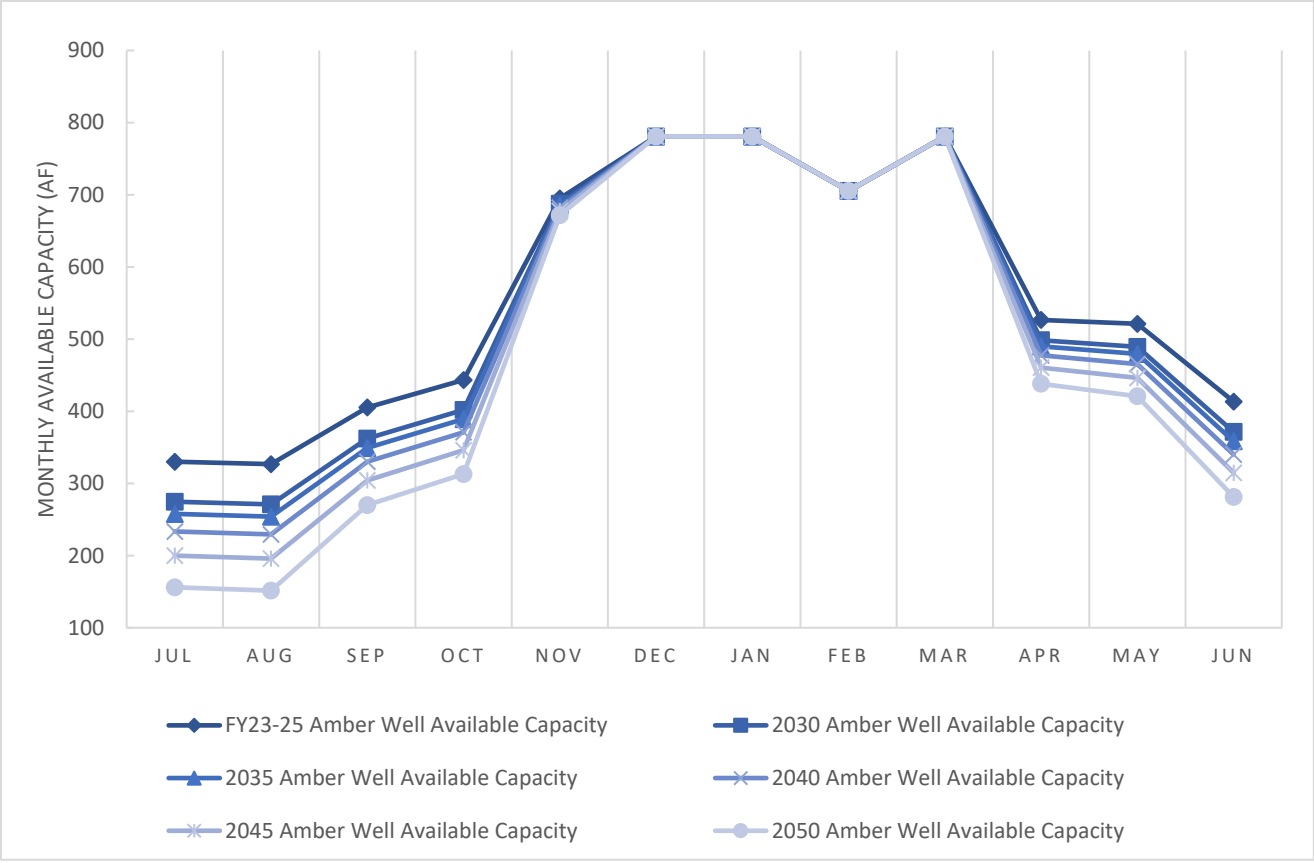


Figure 2-8: Future Amber Well Capacity Availability



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

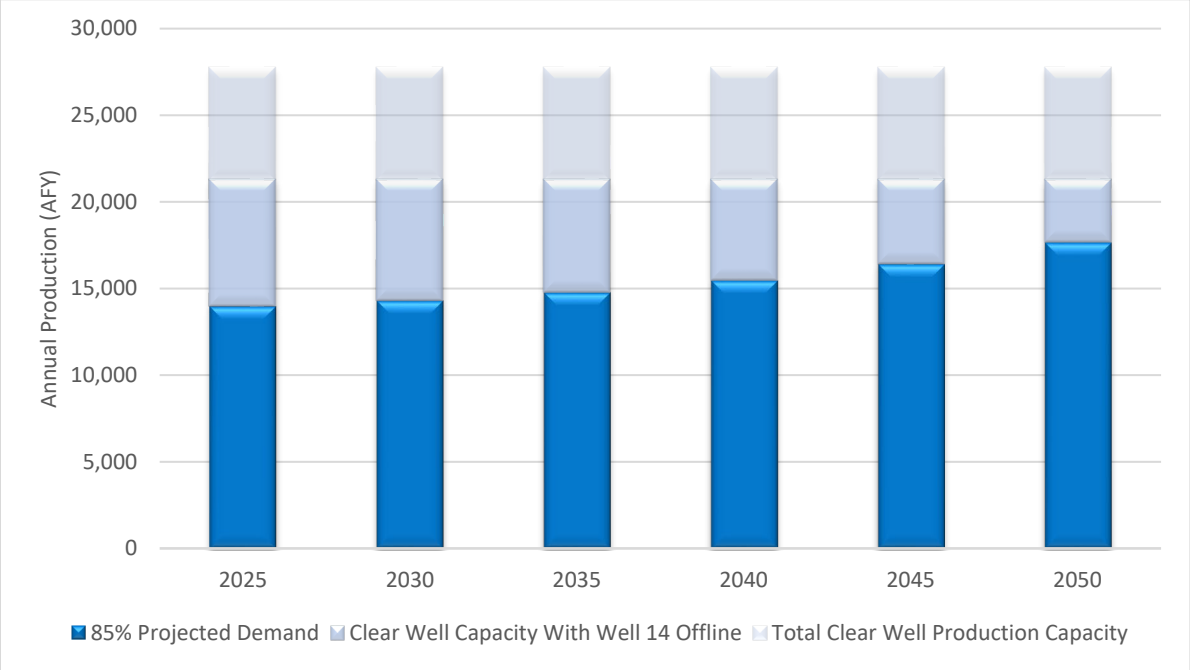
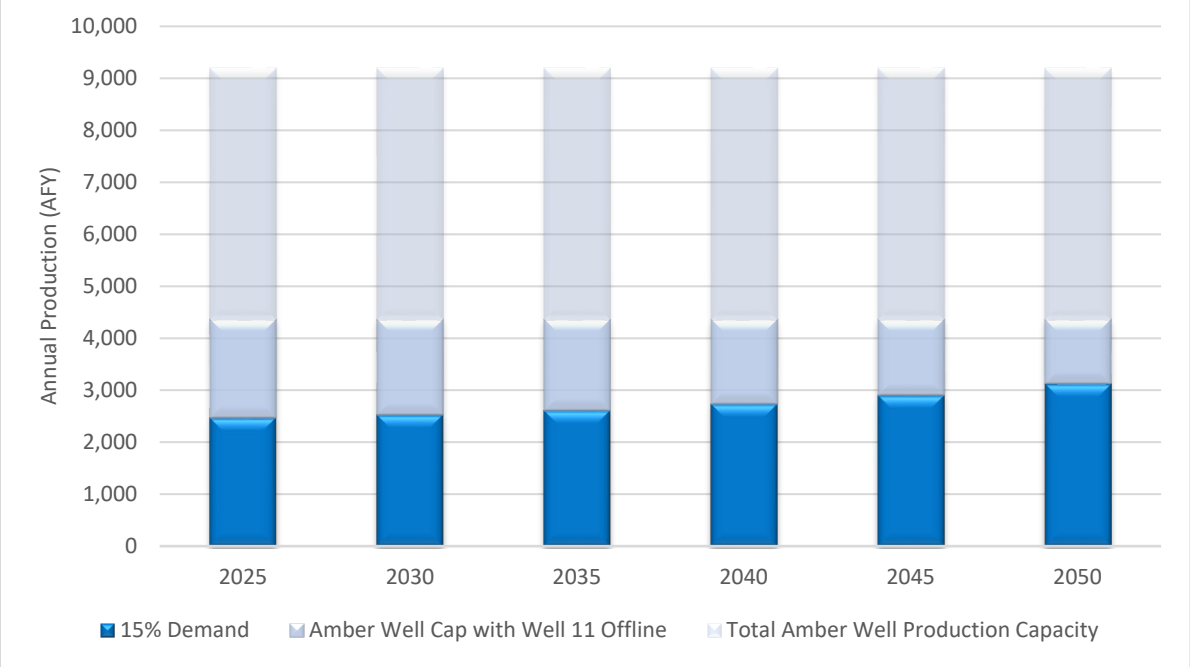


Figure 2-10: Amber Well Capacity with Future Demand Projections



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

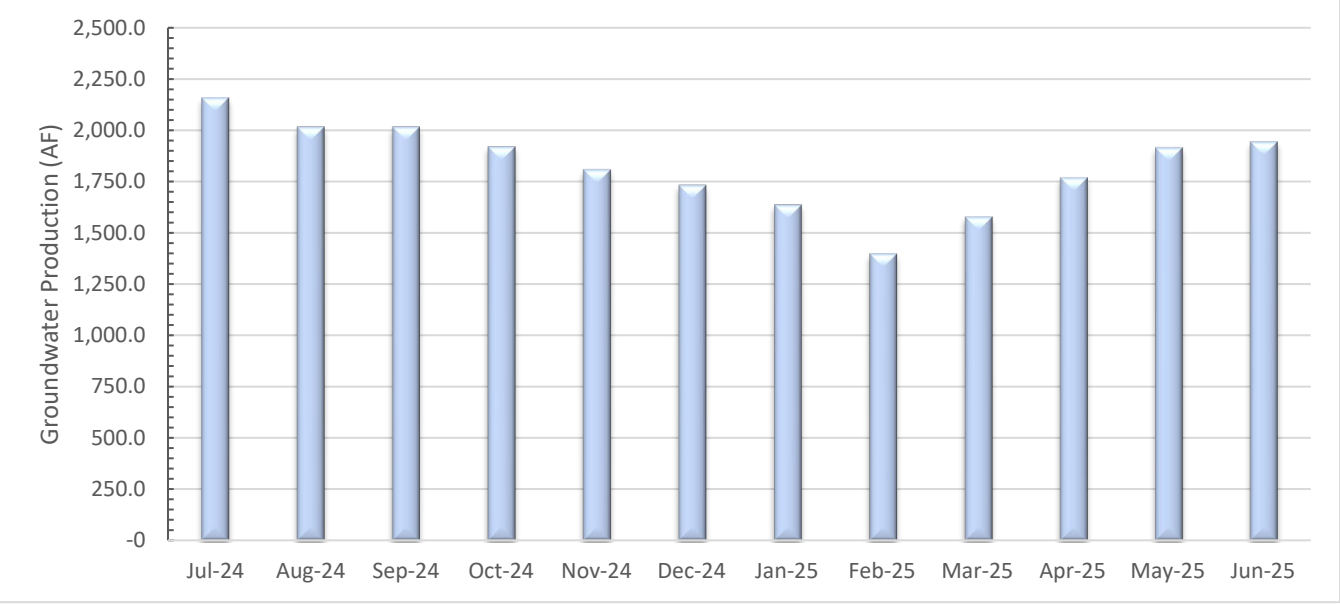


Figure 2-13: FY24-25 City's Monthly Imported Water by Interconnection

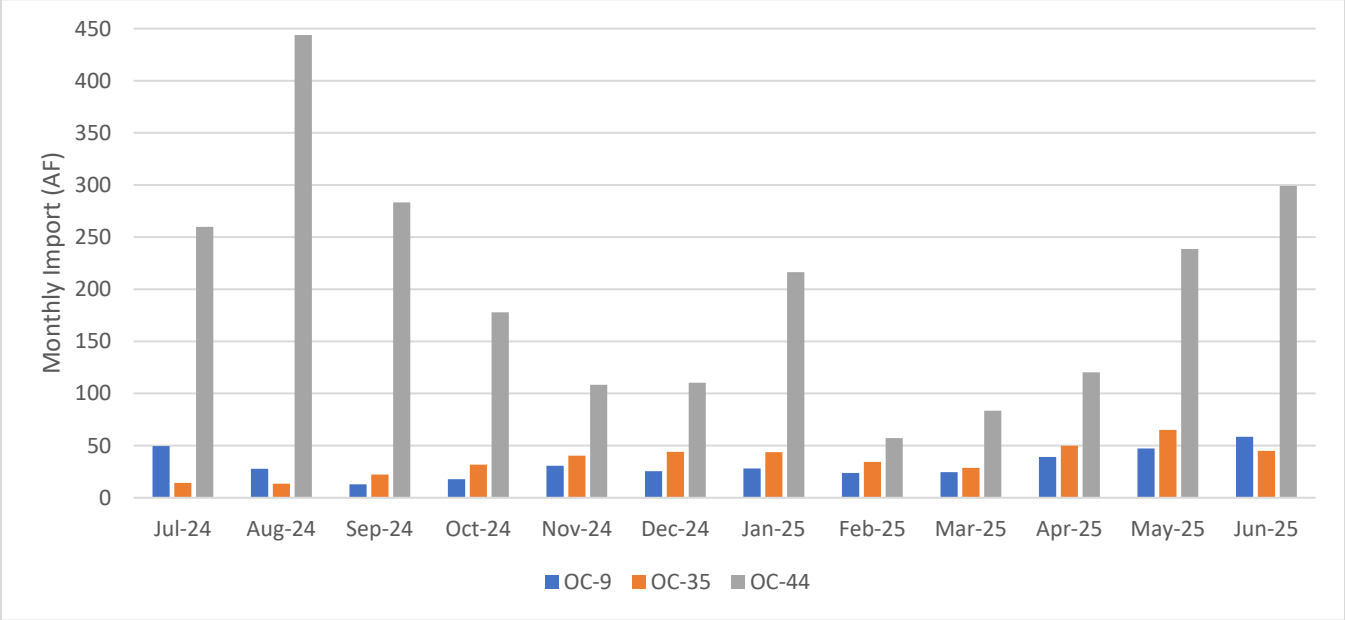
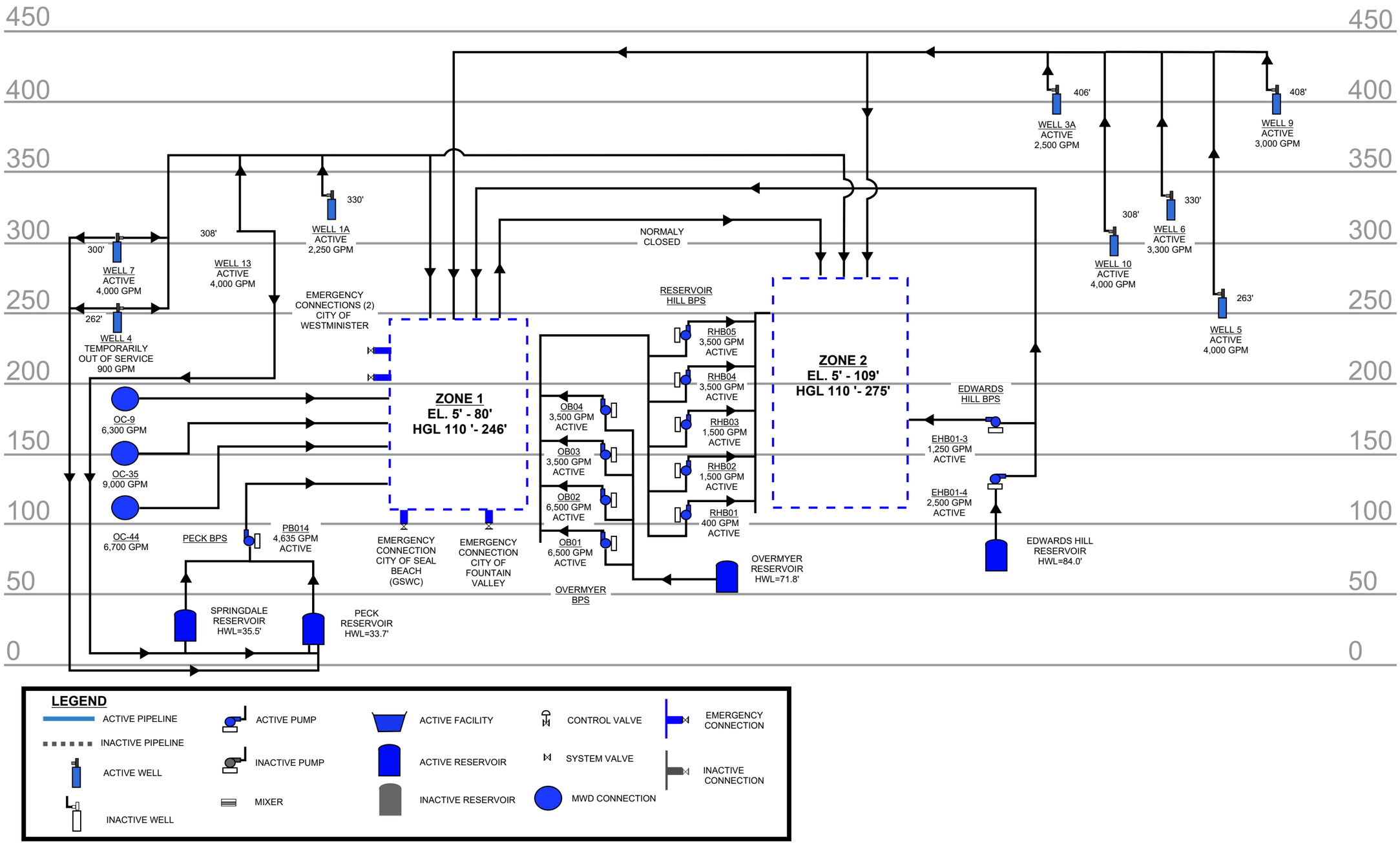


Figure 2-12 illustrates a trend where groundwater production is higher in warmer, summer, months and lower in cooler, winter, months. This is an expected trend in production and demand data, but it is important to identify that the City's water use trends are consistent with Southern California norms.

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

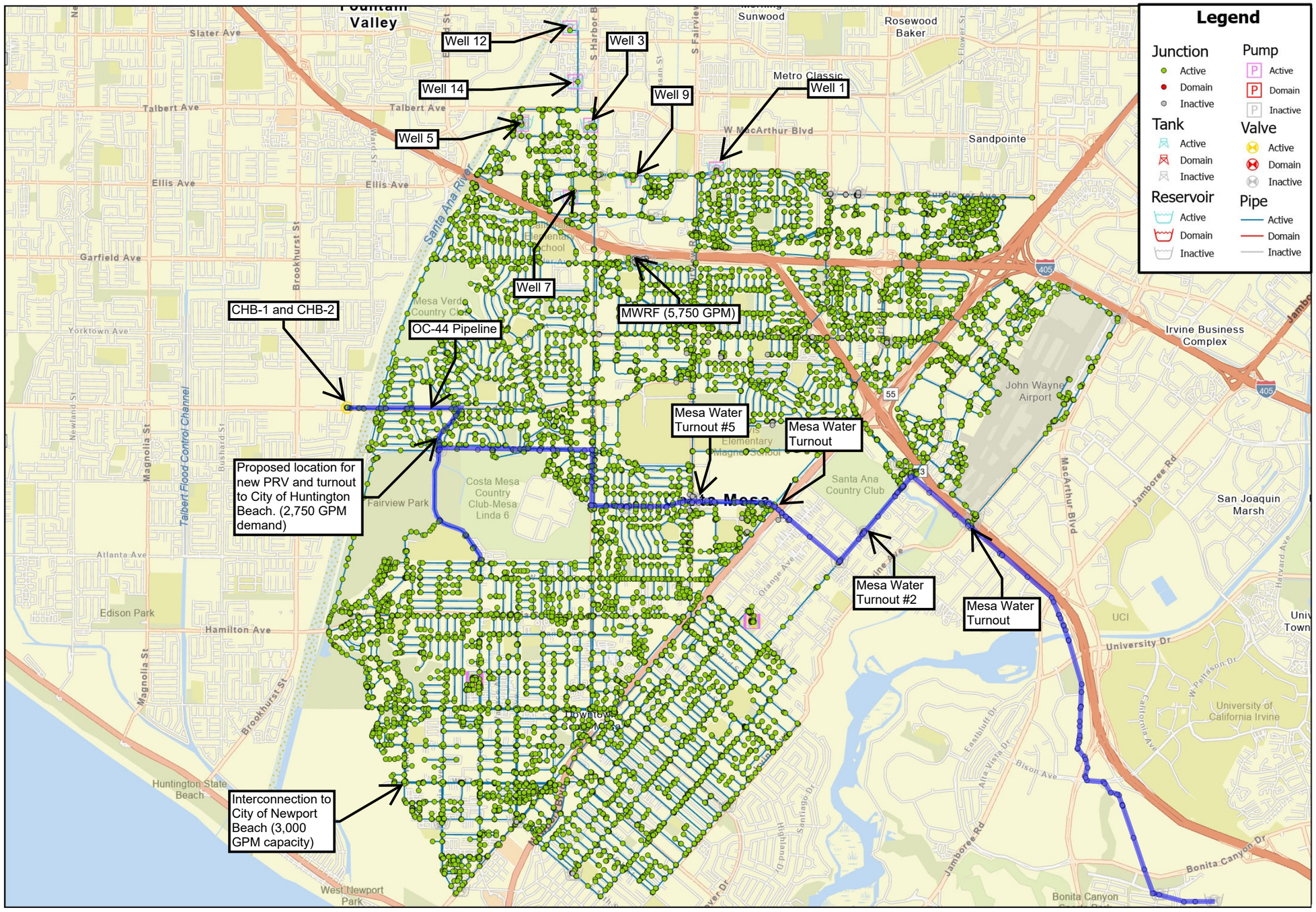
For the Huntington Beach transfer, the OC-44 pipeline was determined to be the most effective conveyance option. In Scenario 1, the OC-44 pipeline was deactivated. To enable it for Scenarios 2 and 3, query sets were created within the model so that any pipeline with its zone set to "OC-44" would activate 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.

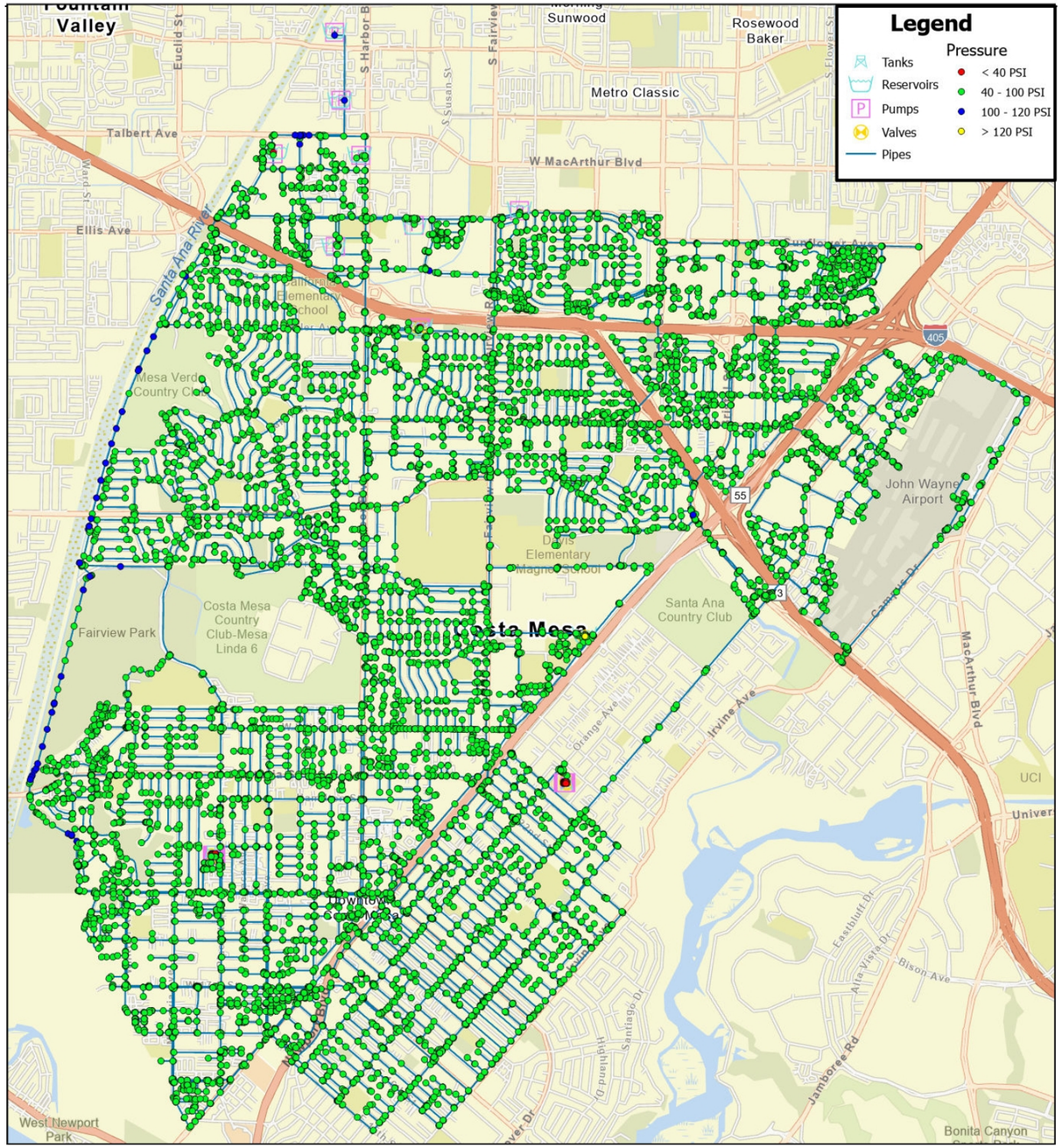
Figure 3-1: Mesa Water District System Map



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



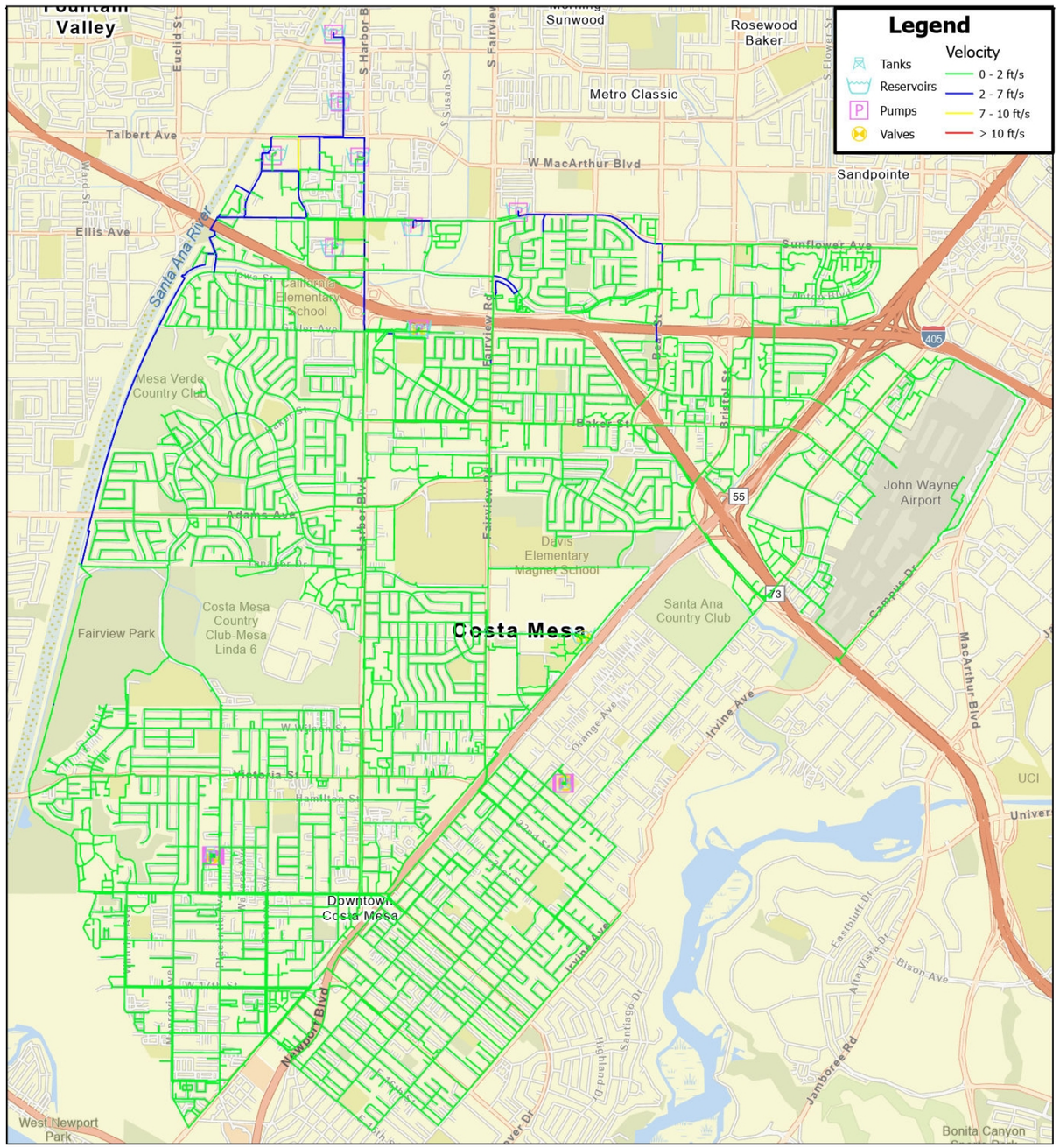
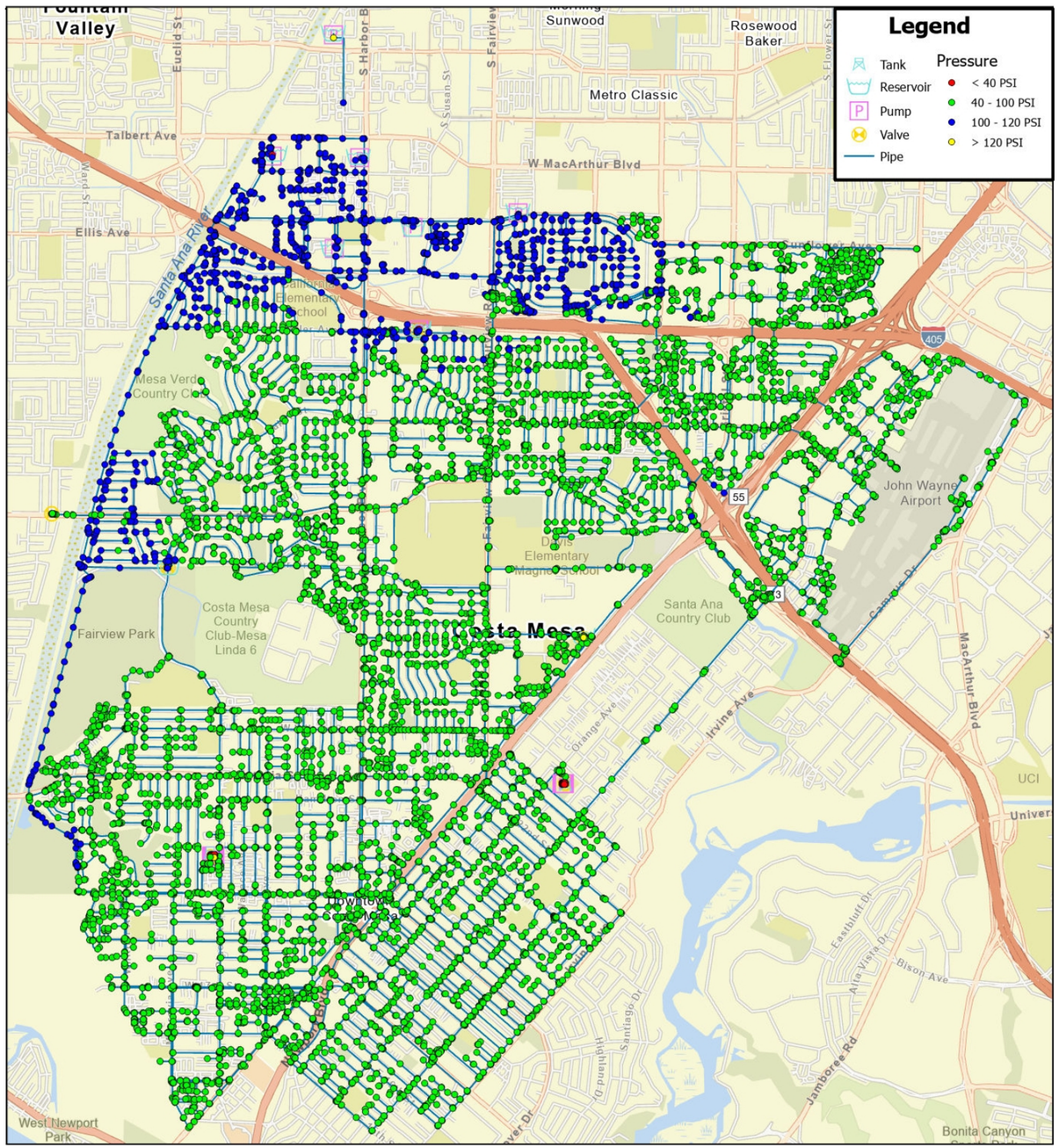


Figure 3-3: Scenario 2 Pressures and Pipe Velocities Results



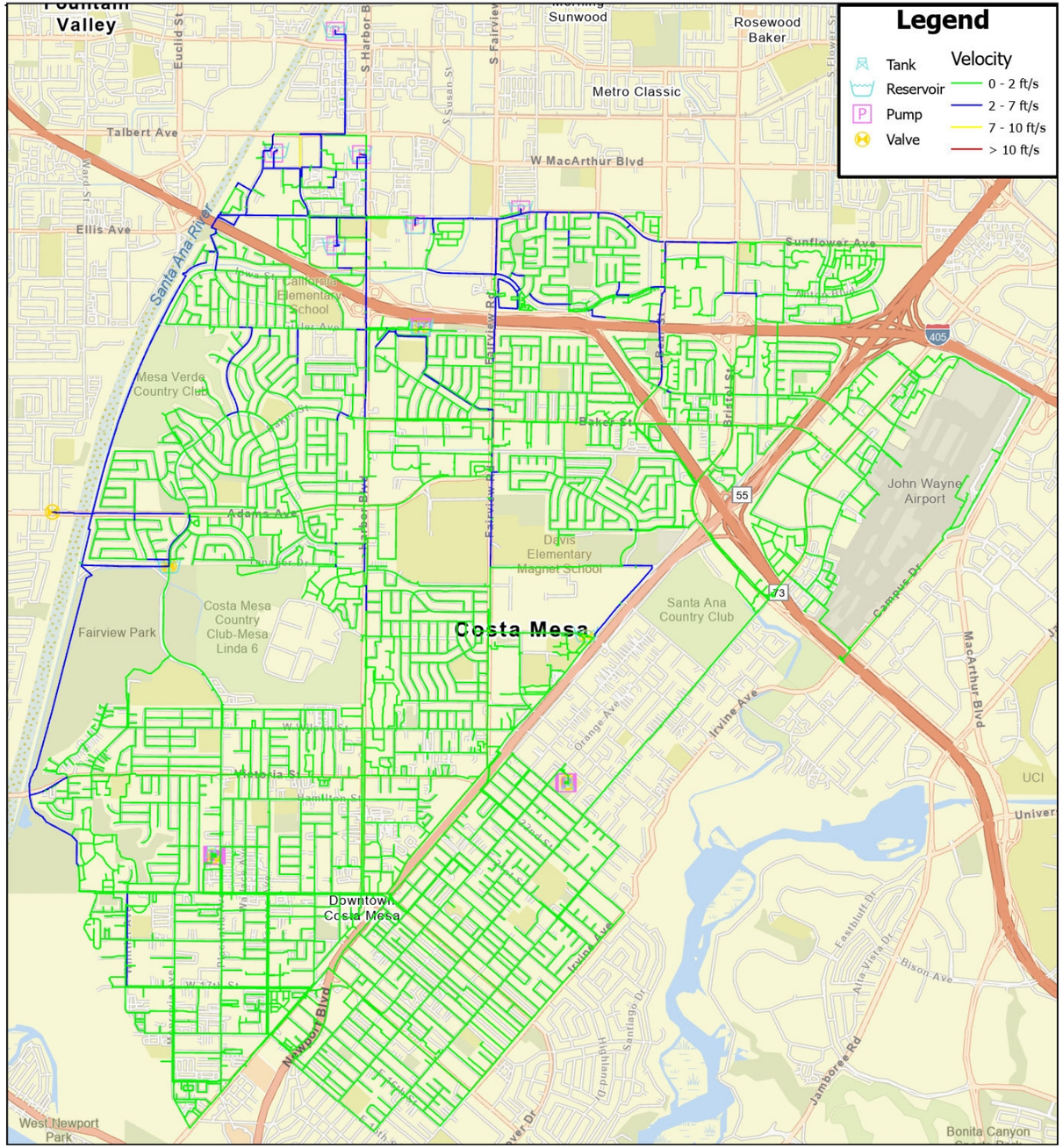
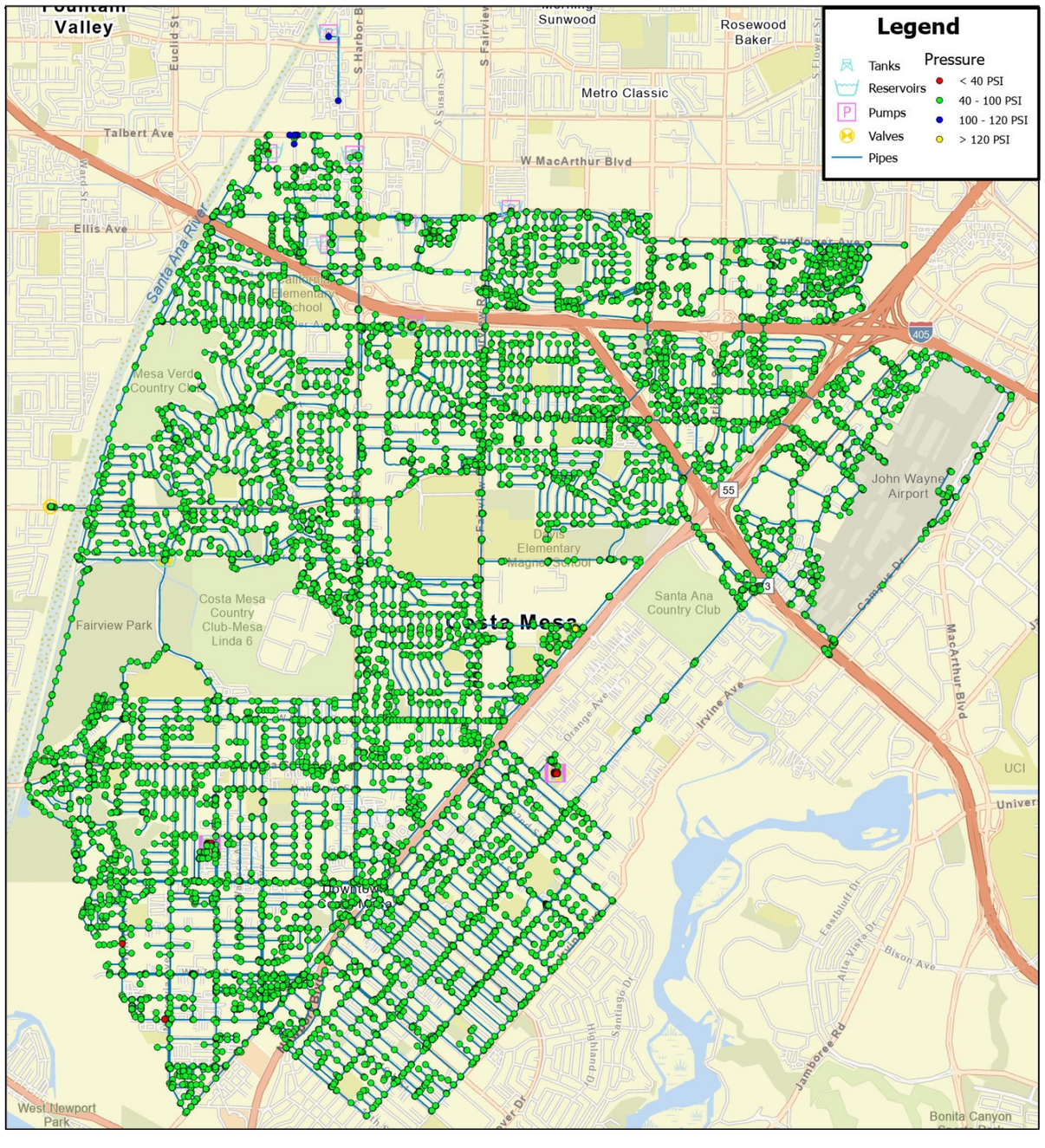


Figure 3-4: Scenario 3 Pressures and Pipe Velocities Results



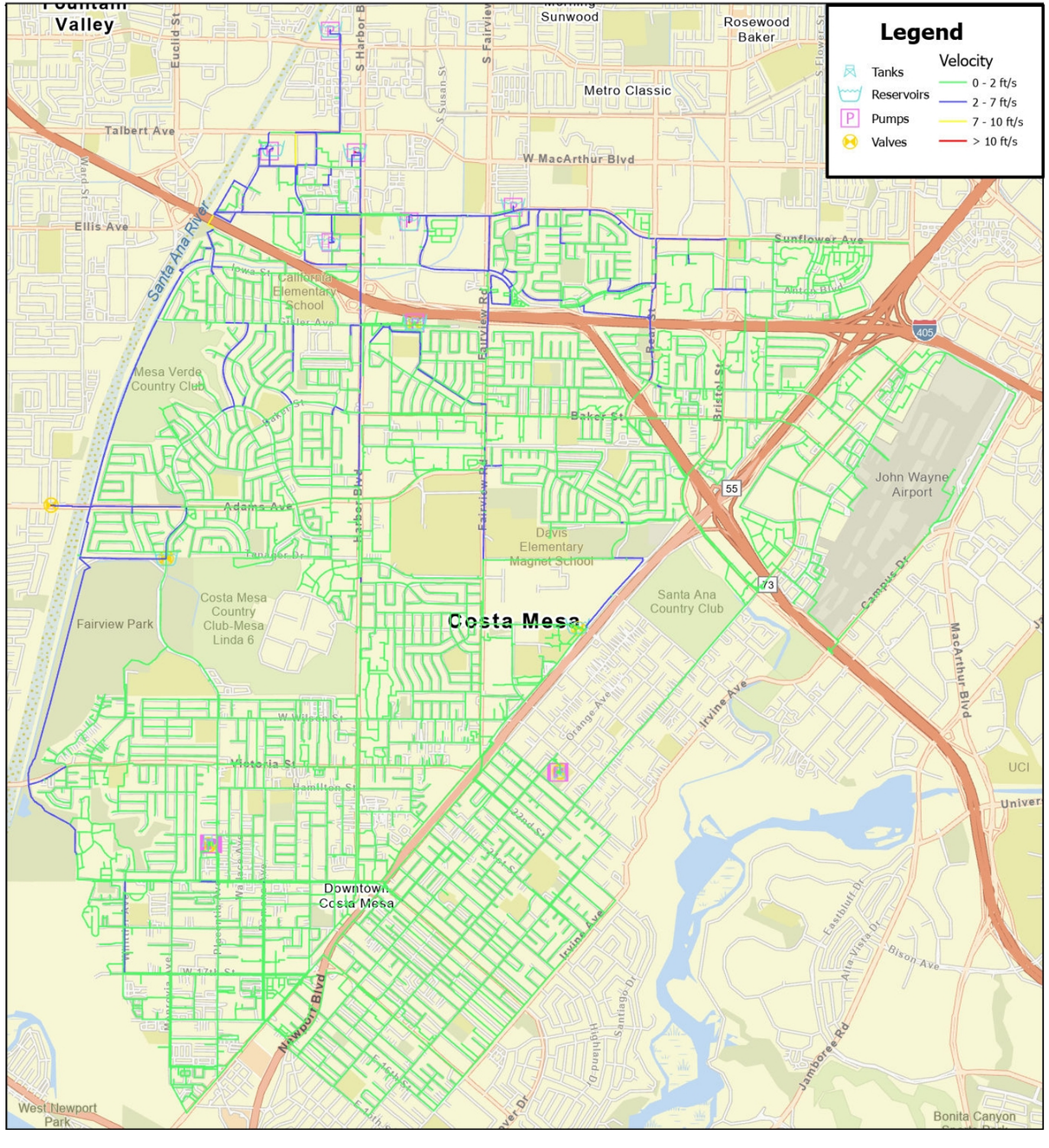


Table 3-1: Summary of Hydraulic Modeling Results

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

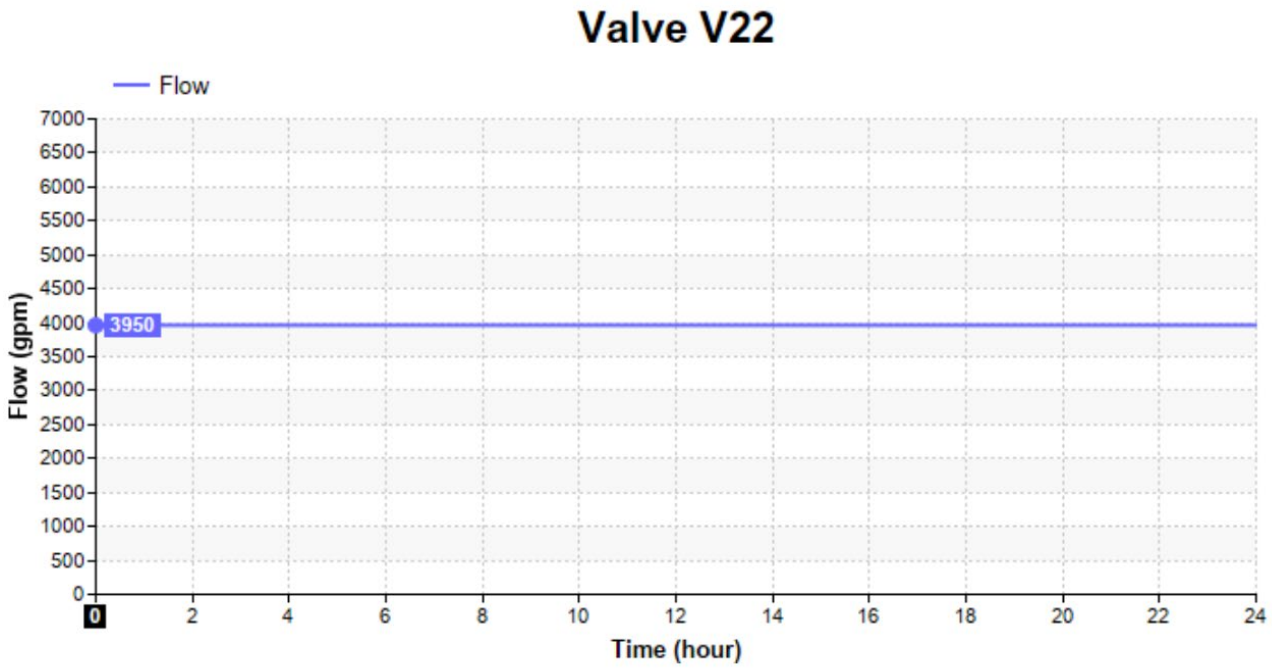


Figure 3-7: Scenario 2 Upstream Pressure Graph Valve V24

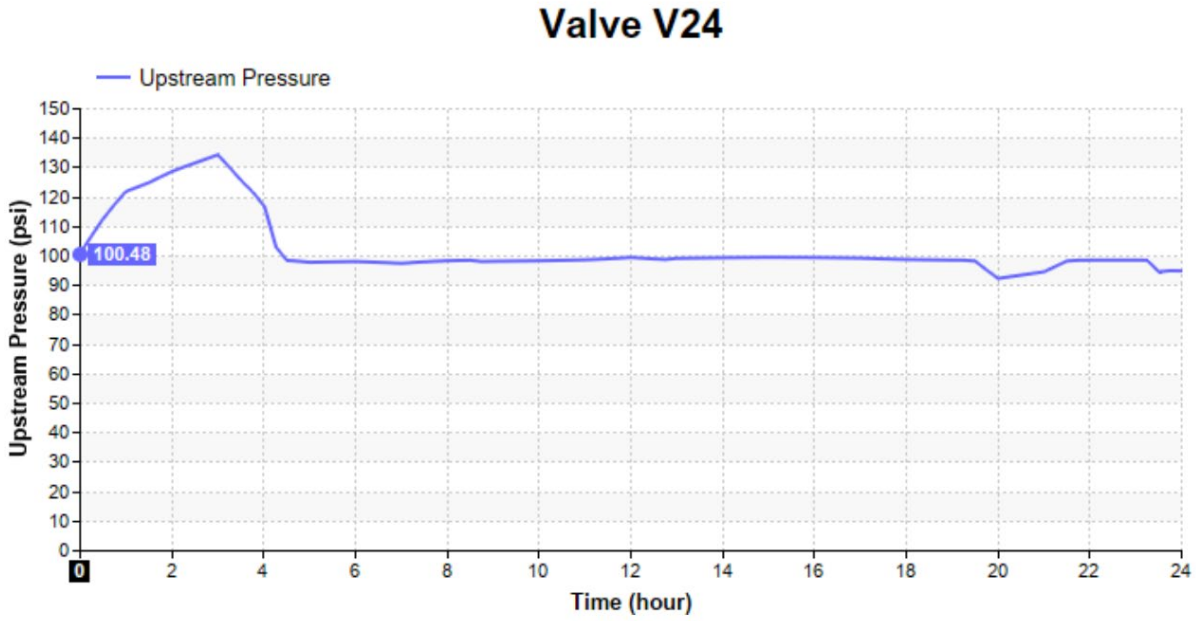


Figure 3-8: Scenario 3 Flow on Graph Valve V22

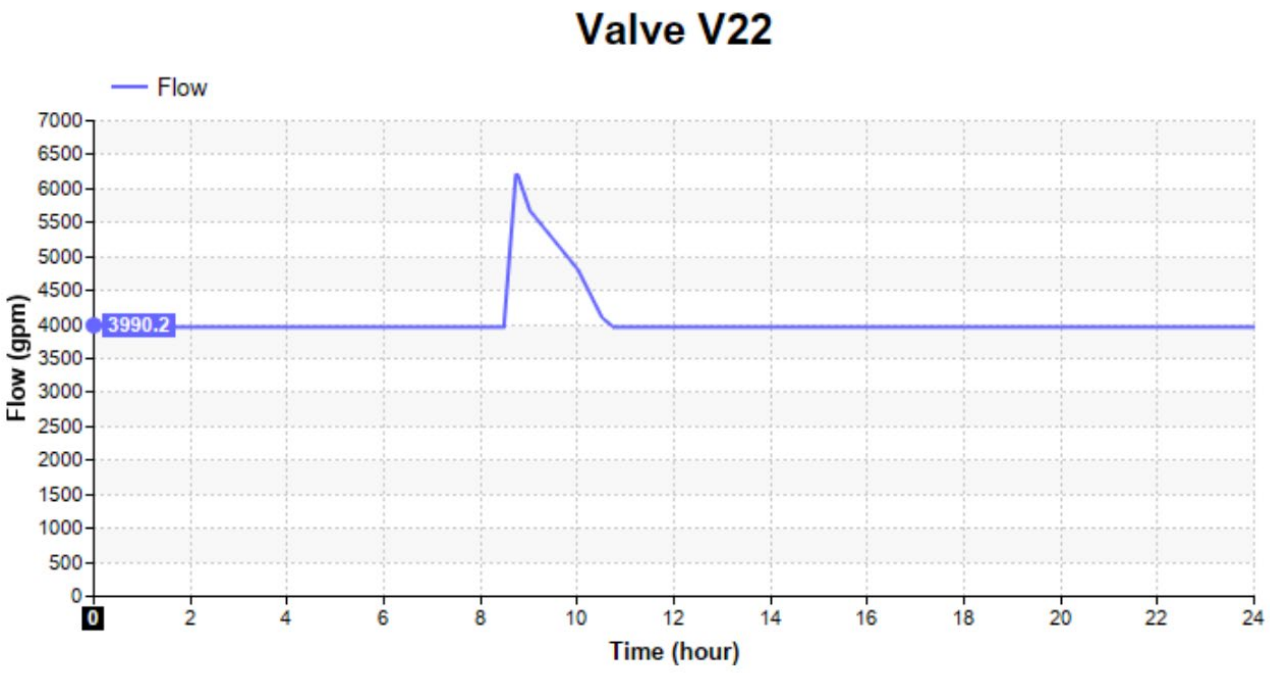
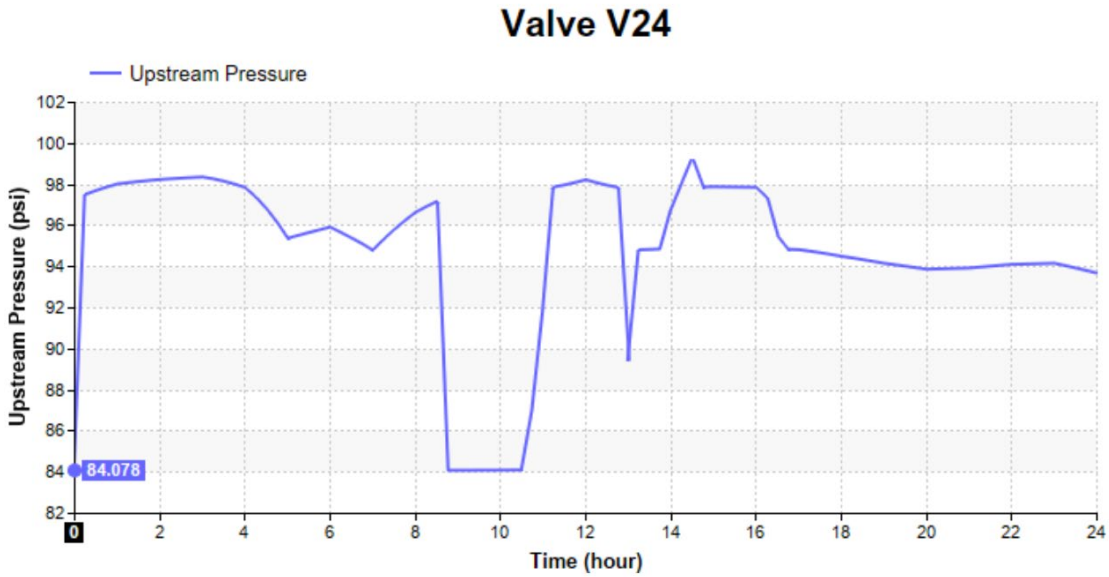


Figure 3-9: Scenario 3 Upstream Pressure Graph Valve V24



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

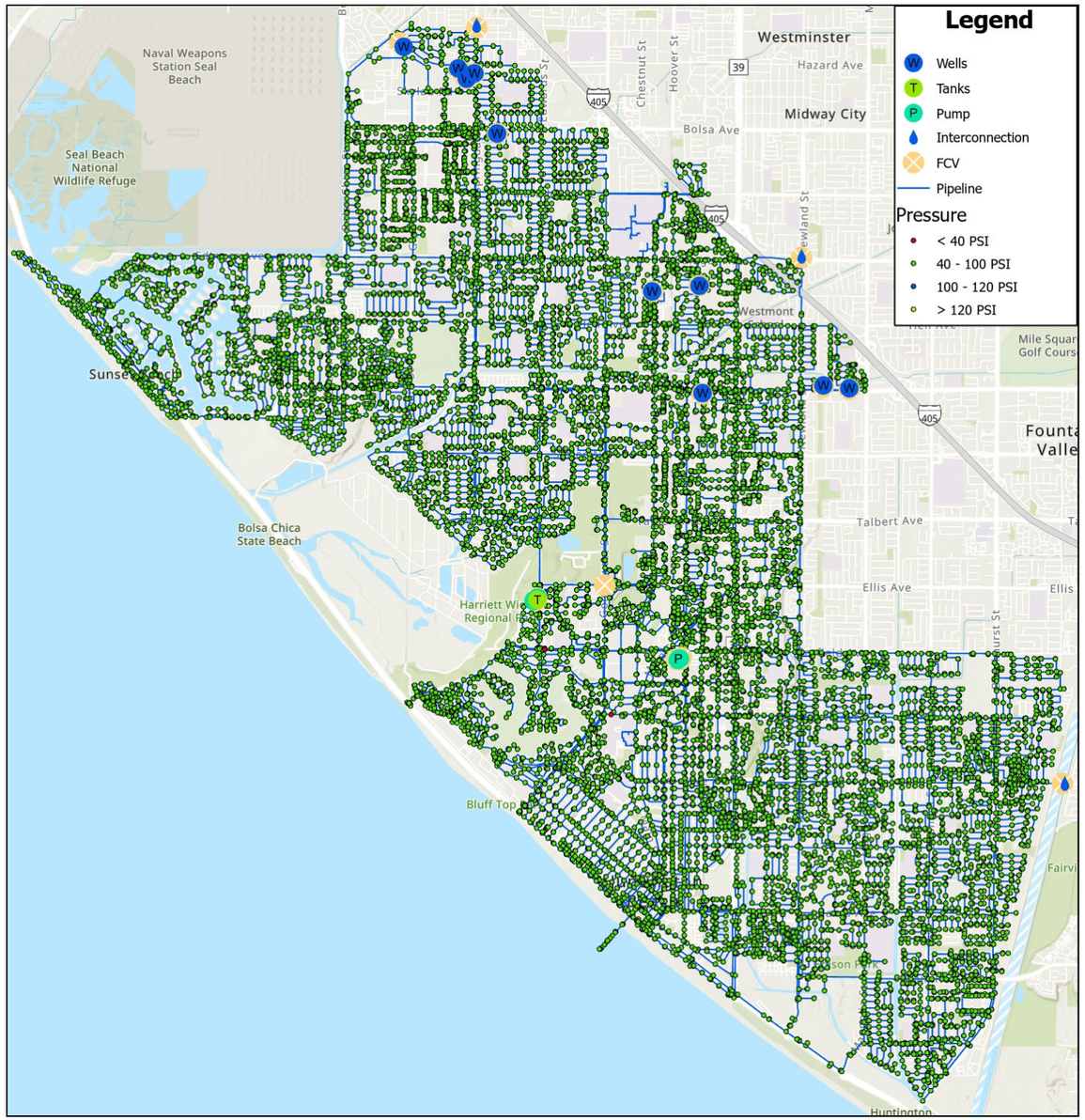
Scenario 1 was originally developed by the City and serves as the parent Scenario for Scenario 2. Under Scenario 1 conditions, the City imports 2,700 gpm of MWDOC water, however hydraulically there is no difference whether water is imported from MWDOC or Mesa Water District. Under Scenario 2 conditions, 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



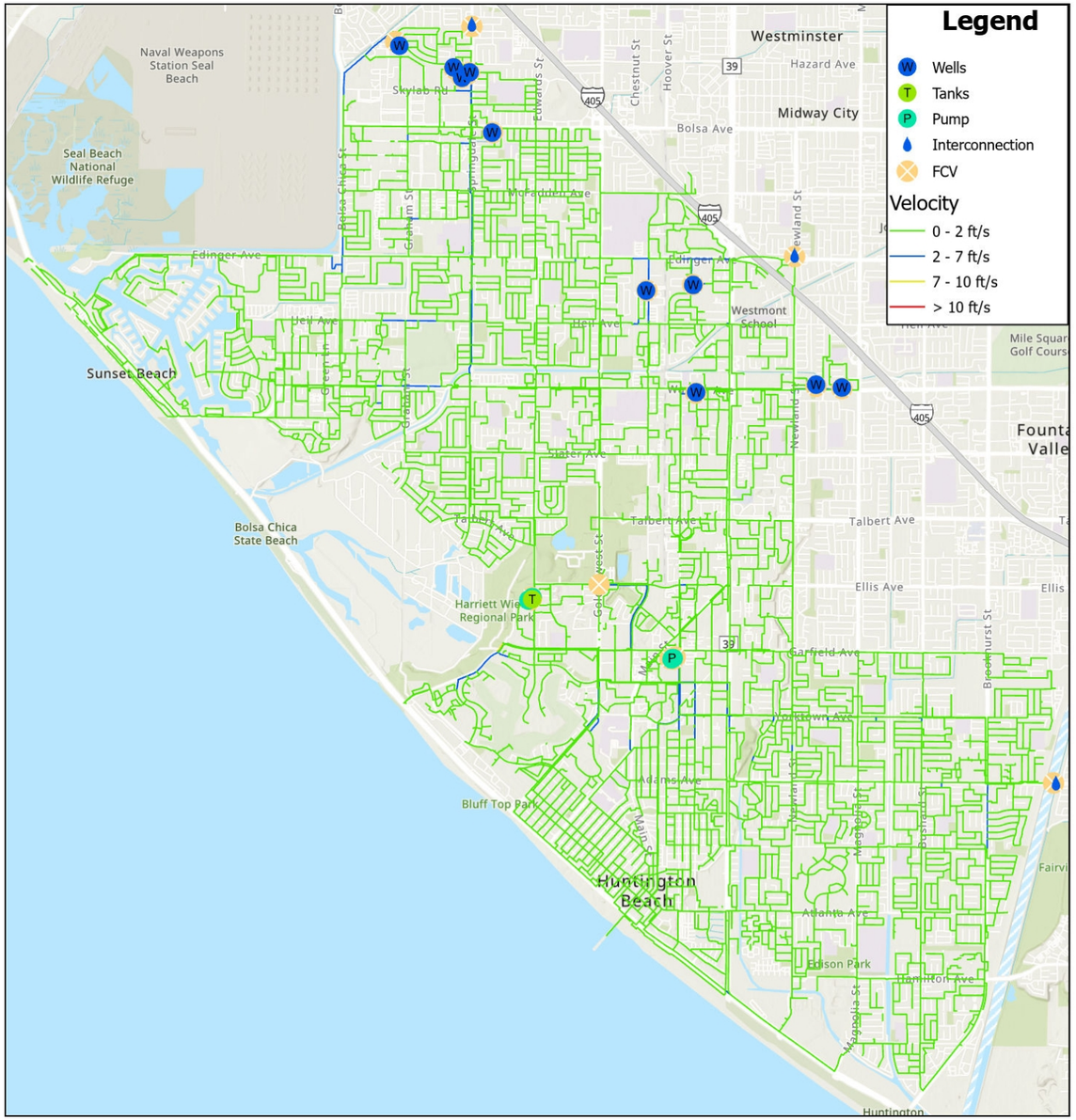
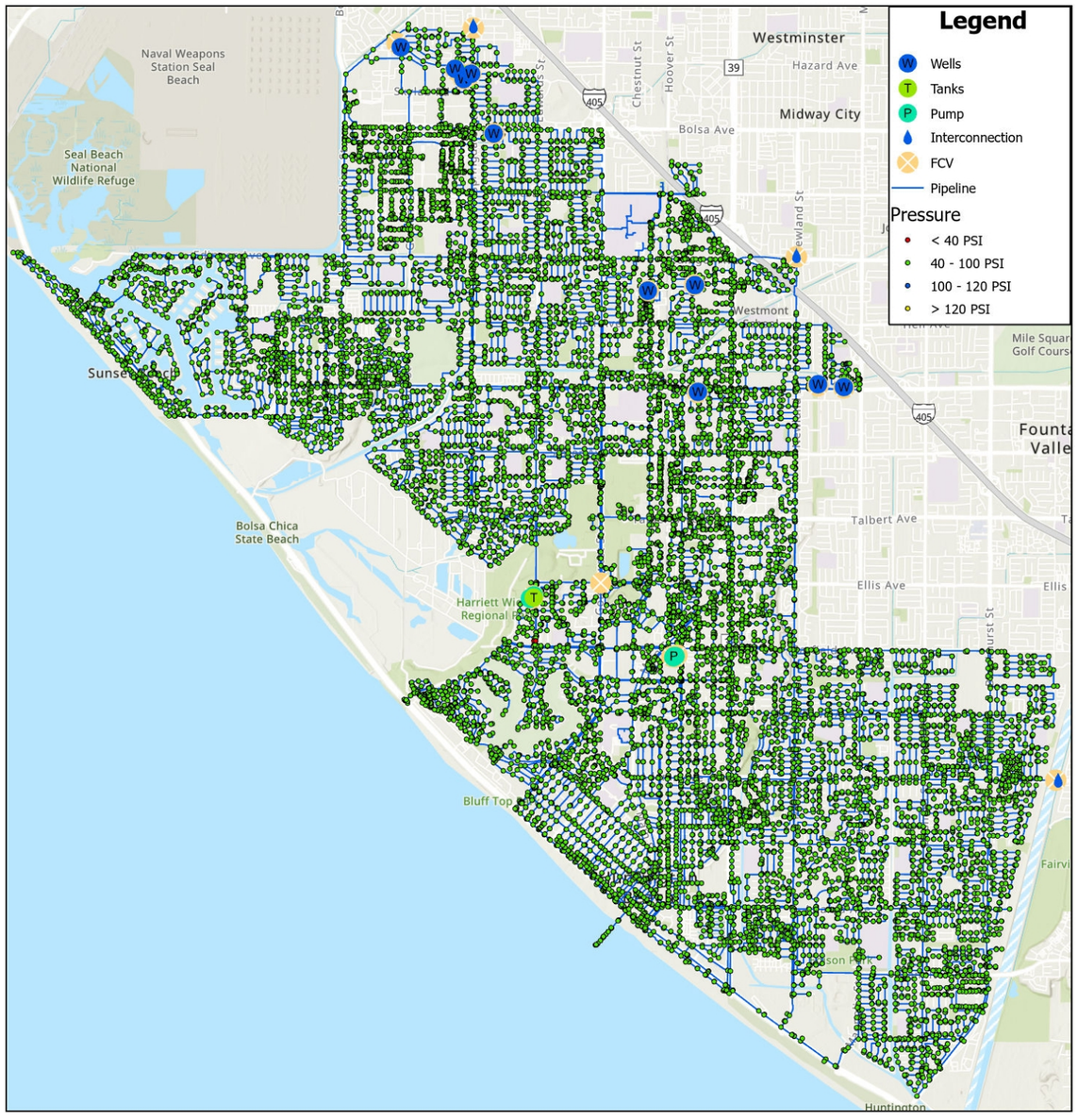
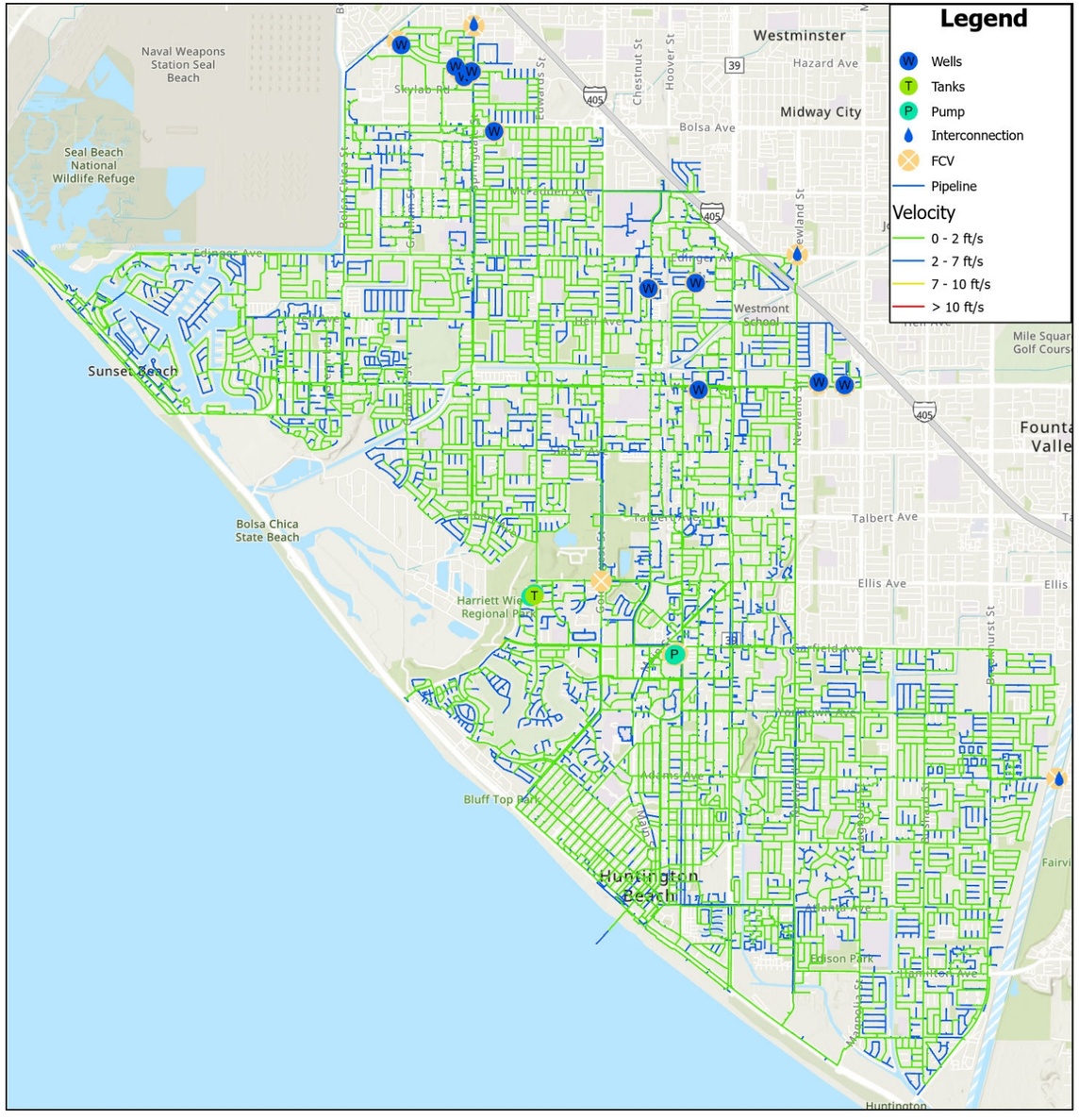


Figure 3-11: Scenario 2 Pressure and Velocity Results





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

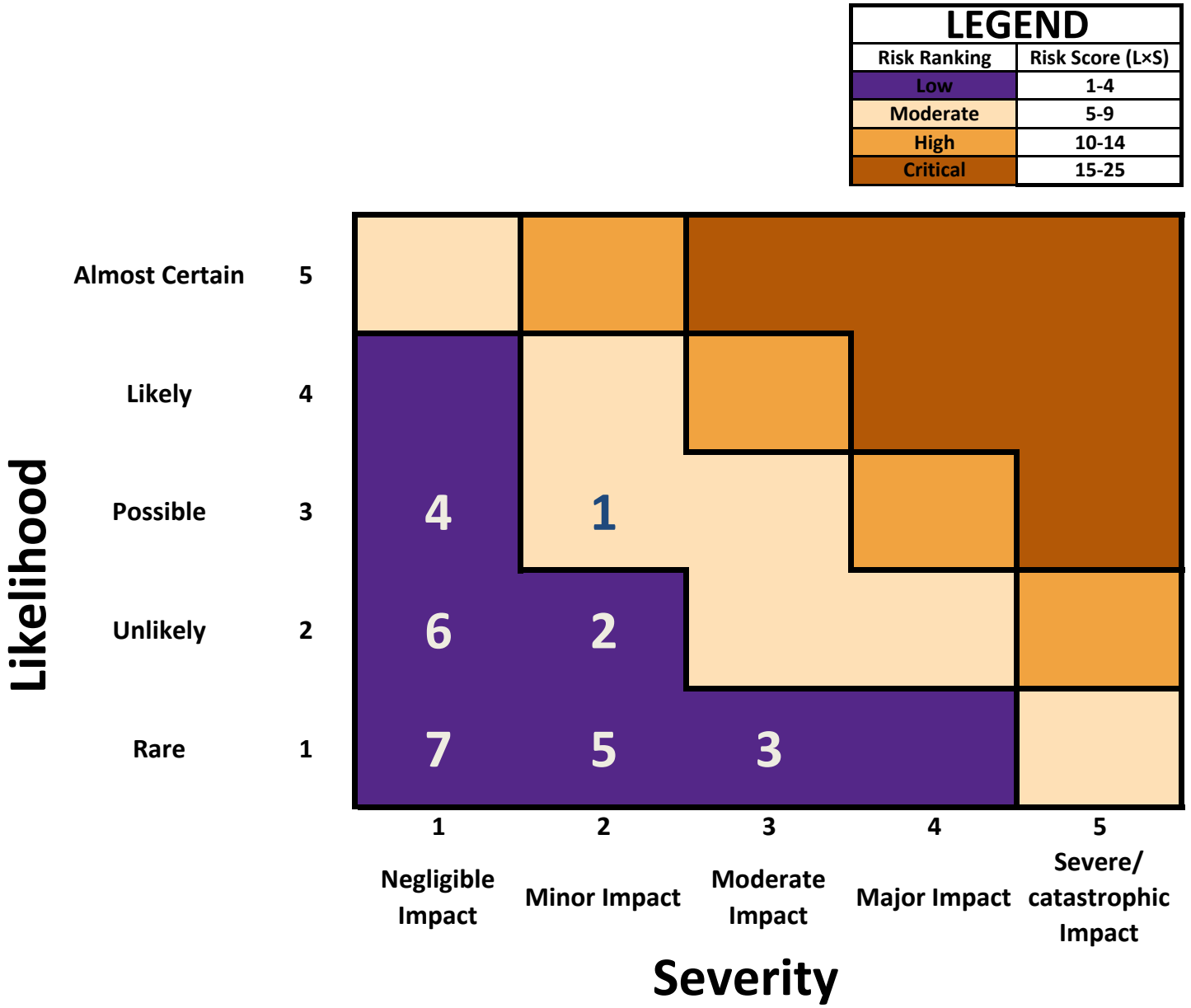
A qualitative–quantitative risk matrix and corresponding heat map were developed to visually represent and prioritize the risks associated with the proposed interagency water transfer. In **Table 5-3** below, each identified risk along with its likelihood of occurrence and severity are listed. The likelihood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

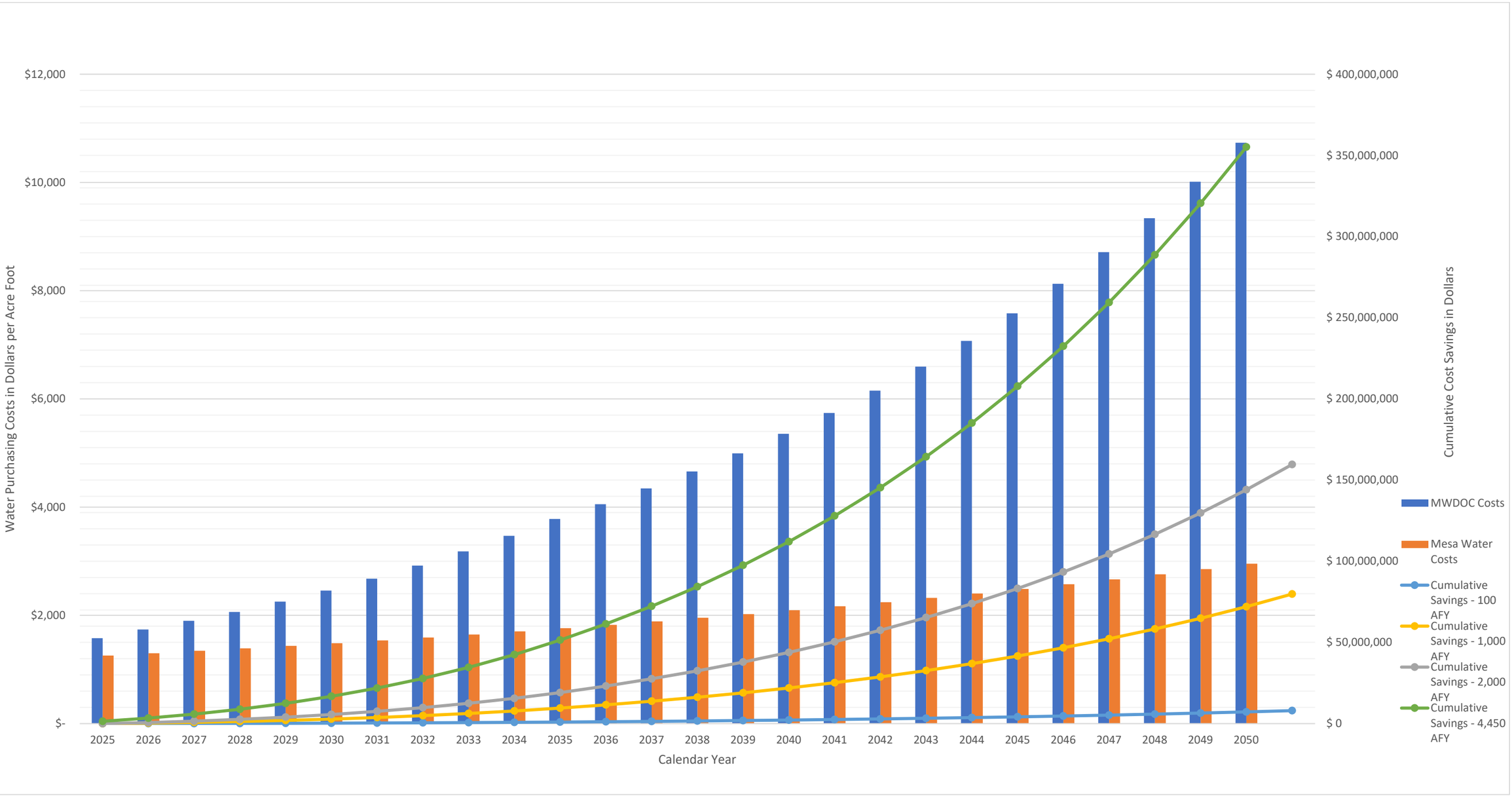
Based on the assumptions detailed in Section 6.1, **Table 6-3** and **Figure 6-1** were prepared to calculate and then present the potential cost implications for both the City and Mesa Water. **Table 6-3** is presented in 5-year increments, a full yearly summary of the calculations is provided in **Appendix 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) 2022	2023	2024	3-Yr Peak	CFS Share (%)	Annual Capacity Charge	Monthly Capacity Charge
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**							
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**	
45G04009-23G04050	23G04050	45G04009	10	4	90	0	0	0	0	Open	0	0		23G04049	0	34.79	253.38	94.72		Average	83.81
23G04050-25G04007	25G04007	23G04050	708.56	3	70	0	0	0	0	Open	0	0		23G04042	2.05	30.18	253.38	96.71		Minimum	2.17
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		Maximum	98.96
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		**Velocity**	
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		Average	0.647727273
23G04042-45G04009	45G04009	23G04042	15	4	90	0	0	0	0	Open	0	0		23G04014	0	25	30	2.17		Minimum	0
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		Maximum	2.76
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		**Flow**	
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		Average	1595.268182
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		Minimum	0
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		Maximum	3900
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**							
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**	
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		Average	101.6133333
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		Minimum	95.82
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		Maximum	103.71
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		**Velocity**	
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		Average	4.274347826
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		Minimum	1.73
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		Maximum	7.09
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		**Flow**	
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		Average	3018.744783
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		Minimum	610.26
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		Maximum	7728.94
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**							
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**	
45G04009-23G04050	23G04050	45G04009	10	4	90	0	0	0	0	Open	0	0		23G04049	0	34.79	271.02	102.36		Average	90.49125
23G04050-25G04007	25G04007	23G04050	708.56	3	70	0	0	0	0	Open	0	0		23G04042	2.05	30.18	271.02	104.36		Minimum	2.17
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		Maximum	106.61
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		**Velocity**	
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		Average	0.952272727
23G04042-45G04009	45G04009	23G04042	15	4	90	0	0	0	0	Open	0	0		23G04014	0	25	30	2.17		Minimum	0
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		Maximum	4.08
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		**Flow**	
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		Average	2352.086364
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		Minimum	0
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		Maximum	5750
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									

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	18384	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		
6651	18351	1.3	<None>	<Collection: 1 item>	5.91	166.4	71.6	37110	P-87	555	10976: 17646	37109: J-137	8	PVC	130	FALSE	0	-89.73	0.57	0	TRUE	555	89.73		
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2283	17584	1.5	<None>	<Collection: 1 item>	5.51	168.2	72.3	36922	P-6	16	16704: 18281	36921: J-86	36	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0		
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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		
17003	18239	1.5	<None>	<Collection: 1 item>	4.72	166.5	71.5	33925	20808	106	6398: 18474	10219: 18463	8	AC	130	FALSE	0	-10.82	0.07	0	TRUE	106	10.82		
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10123	18357	1.4	<None>	<Collection: 1 item>	3.81	166.4	71.5	34191	20799	14	2741: 18387	2667: 18388	6	AC	130	FALSE	0	-0.42	0	0	TRUE	14	0.42		
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5757	18266	1.5	<None>	<Collection: 1 item>	3.41	166.4	71.5	28406	20794	146	10123: 18357	2380: 18356	8	AC	130	FALSE	0	20.08	0.13	0	TRUE	146	20.08		
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14311	J286	8	<None>	<Collection: 1 item>	3.1	168.9	69.7	18574	20753	11	6234: 18159	10146: 18161	6	AC	130	FALSE	0	2.71	0.03	0	TRUE	11	2.71		
15327	J294	8	<None>	<Collection: 1 item>	3.1	168.9	69.7	27243	20752	93	6234: 18159	2377: 18156	8	AC	130	FALSE	0	-28.19	0.18	0	TRUE	93	28.19		

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8770	17876	2.1	<None>	<Collection: 1 item>	1.94	166.5	71.3		36119	19994	382	13460: 18613	16307: 18611	6	AC	130	FALSE	0	-22.29	0.25	0	TRUE	382	22.29					
9154	17959	4.1	<None>	<Collection: 1 item>	1.94	166.8	70.5		21925	19990	250	14888: 18616	4378: 18601	8	AC	130	FALSE	0	8.49	0.05	0	TRUE	250	8.49					
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337	18610	1.5	<None>	<Collection: 1 item>	1.9	166	71.3		18474	19933	317	8703: 18458	6231: 18459	6	AC	130	FALSE	0	0.42	0	0	TRUE	317	0.42					
359	18322	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		28734	19932	46	8360: 18456	8703: 18458	6	AC	130	FALSE	0	-0.42	0	0	TRUE	46	0.42					
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603	18529	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		22305	19930	12	11767: 18423	1417: 18426	6	AC	130	FALSE	0	0.42	0	0	TRUE	12	0.42					
609	18329	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.4		18326	19929	70	17085: 18421	3986: 18420	8	AC	130	FALSE	0	37.44	0.24	0	TRUE	70	37.44					
694	18625	1.5	<None>	<Collection: 1 item>	1.9	166	71.3		28787	19928	46	17085: 18421	15257: 18416	6	AC	130	FALSE	0	0.42	0	0	TRUE	46	0.42					
698	18325	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.4		29517	19927	62	6047: 18413	353: 18422	6	AC	130	FALSE	0	-1.27	0.01	0	TRUE	62	1.27					
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2008	18548	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		19229	19920	12	12615: 18333	12207: 18338	6	AC	130	FALSE	0	0.42	0	0	TRUE	12	0.42					
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2224	18505	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		17786	19916	257	11244: 18319	9226: 18334	8	AC	130	FALSE	0	30.47	0.19	0	TRUE	257	30.47					

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2593	18373	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		28494	19909	253	8867: 18260	11244: 18319	8	AC	130	FALSE	0	30.9	0.2	0	TRUE	253	30.9					
2707	18530	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		35882	19905	48	11054: 18535	7616: 18514	6	AC	130	FALSE	0	0	0	0	TRUE	48	0					
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3113	18327	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.4		28122	19903	40	6900: 18538	14887: 18516	6	AC	130	FALSE	0	4.98	0.06	0	TRUE	40	4.98					
3130	18471	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		19451	19902	135	6271: 18503	1418: 18526	8	AC	130	FALSE	0	62.76	0.4	0	TRUE	135	62.76					
3623	18473	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		29775	19901	759	16382: 18424	8517: 18519	12	AC	130	FALSE	0	123.49	0.35	0	TRUE	759	123.49					
3685	18402	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		31997	19900	114	6271: 18503	6767: 18504	6	AC	130	FALSE	0	-30.7	0.35	0	TRUE	114	30.7					
3871	18620	1.5	<None>	<Collection: 1 item>	1.9	166	71.3		29291	19899	313	13952: 18490	2938: 18506	6	AC	130	FALSE	0	5.73	0.07	0	TRUE	313	5.73					
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4072	18605	1.5	<None>	<Collection: 1 item>	1.9	166	71.3		32242	19897	17	14507: 18489	13952: 18490	6	AC	130	FALSE	0	-0.42	0	0	TRUE	17	0.42					
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4376	18401	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		25791	19895	63	302: 18485	6767: 18504	8	AC	130	FALSE	0	26.66	0.17	0	TRUE	63	26.66					
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5574	18469	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		19735	19891	36	16700: 18481	17436: 18482	6	AC	130	FALSE	0	-0.42	0	0	TRUE	36	0.42					
5976	18454	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		26189	19889	494	13952: 18490	16887: 18445	6	AC	130	FALSE	0	-6.58	0.07	0	TRUE	494	6.58					
6108	17970	1.2	<None>	<Collection: 1 item>	1.9	166.6	71.7		28458	19888	17	12984: 18444	10882: 18450	6	AC	130	FALSE	0	0.42	0	0	TRUE	17	0.42					
6134	18472	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		29119	19887	17	11781: 18449	476: 18442	6	AC	130	FALSE	0	-0.42	0	0	TRUE	17	0.42					
6139	18372	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.4		20490	19886	60	3107: 18427	16971: 18443	6	AC	130	FALSE	0	-6.68	0.08	0	TRUE	60	6.68					
6235	18259	1.5	<None>	<Collection: 1 item>	1.9	166.2	71.4		22683	19885	260	16887: 18445	12200: 18438	8	AC	130	FALSE	0	-16.22	0.1	0	TRUE	260	16.22					
6630	18107	1.9	<None>	<Collection: 1 item>	1.9	166.4	71.3		33044	19884	16	11053: 18435	11839: 18436	6	AC	130	FALSE	0	0.42	0	0	TRUE	16	0.42					
6631	18207	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		34004	19883	53	1229: 18419	11053: 18435	6	AC	130	FALSE	0	21.87	0.25	0	TRUE	53	21.87					
6644	18451	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		25300	19882	15	3107: 18427	1755: 18428	6	AC	130	FALSE	0	0.42	0	0	TRUE	15	0.42					
6650	18251	1.6	<None>	<Collection: 1 item>	1.9	166.2	71.4		35595	19881	60	11767: 18423	16382: 18424	8	AC	130	FALSE	0	-40.82	0.26	0	TRUE	60	40.82					
6766	18404	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		18869	19880	101	7066: 18418	9792: 18417	6	AC	130	FALSE	0	-9.31	0.11	0	TRUE	101	9.31					
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7317	18452	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		36355	19876	16	14513: 18389	13959: 18390	6	AC	130	FALSE	0	-0.42	0	0	TRUE	16	0.42					
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7656	18455	1.5	<None>	<Collection: 1 item>	1.9	166.1	71.3		30847	19873	488	2495: 18374	3466: 18380	6	AC	130	FALSE	0	-0.42	0	0	TRUE	488	0.42					
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8518	18619	7	<None>	<Collection: 1 item>	1.9	166	68.9		34758	19870	22	11786: 18349	5499: 18350	6	AC	130	FALSE	0	-0.42	0	0	TRUE	22	0.42					
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9515	18191	3	<None>	<Collection: 1 item>	1.9	166.3	70.8		31286	19854	130	1716: 18283	307: 18285	8	AC	130	FALSE	0	25.07	0.16	0	TRUE	130	25.07					
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9760	18565	1.5	<None>	<Collection: 1 item>	1.9	166	71.3		26260	19851	48	2913: 17979	6619: 17987	6	AC	130	FALSE	0	0.42	0	0	TRUE	48	0.42					
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1449	16916	1.5	<None>	<Collection: 1 item>	1.89	167.5	72		34010	19783	65	6648: 18051	5779: 18073	8	AC	130	FALSE	0	-2.12	0.01	0	TRUE	65	2.12					

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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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3875	18220	1.8	<None>	<Collection: 1 item>	0.42	166.5	71.4		28911	6899	209	3874: 18120	17090: 18121	12	AC	130	FALSE	0	-128.22	0.36	0	TRUE	209	128.22				
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				
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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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4812	18306	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		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	166.3	70.1		27434	6890	72	3679: 17982	79: 17958	16	AC	130	FALSE	0	-681.02	1.09	0	TRUE	72	681.02				
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5008	18075	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		24558	6888	46	12289: 17960	9154: 17959	6	AC	130	FALSE	0	-66.11	0.75	0	TRUE	46	66.11				
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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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				
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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				
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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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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				
6648	18051	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		32488	6860	323	8713: 17400	9057: 17538	6	AC	130	FALSE	0	43.14	0.49	0	TRUE	323	43.14				
6649	18151	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		28921	6859	46	6171: 17404	7871: 17405	6	AC	130	FALSE	0	-50.86	0.58	0	TRUE	46	50.86				
6767	18504	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		24565	6858	250	3688: 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				
7321	18152	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		35233	6847	588	10300: 17112	13318: 16791	16	AC	130	FALSE	0	-498.4	0.8	0	TRUE	588	498.4				
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				
7713	17972	1.3	<None>	<Collection: 1 item>	0.42	166.6	71.7		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	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				
7977	17975	2.6	<None>	<Collection: 1 item>	0.42	166.6	71.1		17919	6567	707	1756: 18528	1418: 18526	12	AC	130	FALSE	0	16.25	0.05	0	TRUE	707	16.25				
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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				
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8703	18458	6	<None>	<Collection: 1 item>	0.42	166.3	69.5		30632	6554	180	8866: 18660	5576: 18669	12	AC	130	FALSE	0	100.26	0.28	0	TRUE	180	100.26				
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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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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9594	17854	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.6		24408	6542	263	2629: 18608	14374: 18630	8	AC	130	FALSE	0	-27.19	0.17	0	TRUE	263	27.19				
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9808	17940	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		27150	6539	42	13496: 18617	14888: 18616	6	AC	130	FALSE	0	8.49	0.1	0	TRUE	42	8.49				
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10882	18450	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		20971	6527	57	5005: 18575	1712: 18583	6	AC	130	FALSE	0	0	-11.47	0.13	0	TRUE	57	11.47					
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10886	18050	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		33777	6525	54	4341: 18567	12053: 18566	6	AC	130	FALSE	0	0	-8.49	0.1	0	TRUE	54	8.49					
11053	18435	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		32065	6524	58	11668: 18562	14585: 18560	8	AC	130	FALSE	0	0	-35.7	0.23	0	TRUE	58	35.7					
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11112	17952	1.8	<None>	<Collection: 1 item>	0.42	166.6	71.5		21328	6521	44	517: 18540	13676: 18541	12	AC	130	FALSE	0	0	-102.29	0.29	0	TRUE	44	102.29					
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11242	18119	4.5	<None>	<Collection: 1 item>	0.42	166.5	70.2		18285	6518	20	1418: 18526	693: 18525	12	AC	130	FALSE	0	0	78.59	0.22	0	TRUE	20	78.59					
11243	18219	3	<None>	<Collection: 1 item>	0.42	166.5	70.9		17918	6517	59	17075: 18317	6632: 18307	6	AC	130	FALSE	0	0	0.85	0.01	0	TRUE	59	0.85					
11244	18319	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		21868	6516	268	7444: 18499	7497: 18470	8	AC	130	FALSE	0	0	2.71	0.02	0	TRUE	268	2.71					
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11767	18423	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		21331	6511	256	4376: 18401	11341: 18368	8	AC	130	FALSE	0	0	-23.1	0.15	0	TRUE	256	23.1					
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11842	18036	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		33779	6505	227	353: 18422	11767: 18423	8	AC	130	FALSE	0	0	-39.98	0.26	0	TRUE	227	39.98					
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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	0	32.48	0.21	0	TRUE	144	32.48					
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12696	18054	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		34240	6493	490	13190: 18439	302: 18485	8	AC	130	FALSE	0	0	27.51	0.18	0	TRUE	490	27.51					
12697	18154	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		31086	6492	777	1711: 18483	2223: 18405	6	AC	130	FALSE	0	0	-13.57	0.15	0	TRUE	777	13.57					
12815	18014	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		27984	6491	519	11053: 18435	17436: 18482	8	AC	130	FALSE	0	0	21.03	0.13	0	TRUE	519	21.03					
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12842	18163	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		30700	6488	192	16971: 18443	476: 18442	8	AC	130	FALSE	0	0	1.27	0.01	0	TRUE	192	1.27					
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13513	18093	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		33254	6478	416	5027: 18376	4298: 18375	6	AC	130	FALSE	0	0	14.68	0.17	0	TRUE	416	14.68					
13599	18576	1.5	<None>	<Collection: 1 item>	0.42	166.1	71.4		30078	6477	116	11845: 18336	5499: 18350	12	AC	130	FALSE	0	0	175.32	0.5	0	TRUE	116	175.32					
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13664	18337	1.5	<None>	<Collection: 1 item>	0.42	166.4	71.5		22472	6473	40	14512: 18289	13958: 18290	8	AC	130	FALSE	0	0	21.68	0.14	0	TRUE	40	21.68					
13670	17865	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		18991	6472	217	1355: 18288	14512: 18289	8	AC	130	FALSE	0	0	22.53	0.14	0	TRUE	217	22.53					
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13676	18541	1.5	<None>	<Collection: 1 item>	0.42	166.2	71.4		24886	6470	214	1007: 18286	2740: 18287	8	AC	130	FALSE	0	0	23.8	0.15	0	TRUE	214	23.8					
13952	18490	1.4	<None>	<Collection: 1 item>	0.42	166.3	71.5		18653	6469	39	307: 18285	1007: 18286	8	AC	130	FALSE	0	0	24.23	0.15	0	TRUE	39	24.23					
13958	18290	1.4	<None>	<Collection: 1 item>	0.42	166.4	71.6		33253	6468	6	1228: 17980	7713: 17972	12	AC	130	FALSE	0	0	-347.27	0.99	0	TRUE	6	347.27					
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14139	18407	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		24300	6466	75	13466: 18111	13513: 18093	6	AC	130	FALSE	0	0	0.42	0	0	TRUE	75	0.42					
14172	17992	1.5	<None>	<Collection: 1 item>	0.42	166.6	71.6		18767	6465	249	13466: 18111	852: 18109	12	AC	130	FALSE	0	0	-133.07	0.38	0	TRUE	249	133.07					
14184	18112	4.4	<None>	<Collection: 1 item>	0.42	166.5	70.3		32047	6464	318	852: 18109	5180: 18108	12	AC	130	FALSE	0	0	-133.92	0.38	0	TRUE	318	133.92					
14185	18212	1.5	<None>	<Collection: 1 item>	0.42	166.5	71.5		25869	6462	14	9761: 18065	14473: 18064	6	AC	130	FALSE	0	0	-19.42	0.22	0	TRUE	14	19.42					
14312	17855	1.4	<None>	<Collection: 1 item>	0.42	166.5	71.6		21525	6461	148	358: 18222	17091: 18221	8	AC	130	FALSE	0	0	43.4	0.28	0	TRUE	148	43.4					
14372	18430	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		24885	6460	443	6649: 18151	17074: 18217	8	AC	130	FALSE	0	0	29.42	0.19	0	TRUE	443	29.42					
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14513	18389	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		18769	6455	28	399: 18167	7321: 18152	6	AC	130	FALSE	0	0	-15.88	0.18	0	TRUE	28	15.88					
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14552	18215	4.4	<None>	<Collection: 1 item>	0.42	166.5	70.3		27995	6451	136	9064: 18153	7321: 18152	8	AC	130	FALSE	0	0	46.56	0.3	0	TRUE	136	46.56					
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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	0	7.77	0.05	0	TRUE	181	7.77					
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16305	18411	1.4	<None>	<Collection: 1 item>	0.42	166.3	71.5		28798	6427	75	17060: 17897	179: 17898	6	AC	130	FALSE	0	0	-1.94	0.02	0	TRUE	75	1.94					
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16382	18424	1.5	<None>	<Collection: 1 item>	0.42	166.3	71.5		33778	6425	21	9367: 17828	2719: 17833	6	AC	130	FALSE	0	0	-1.94	0.02	0	TRUE	21	1.94					
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2377	18156	5	<None>	<Collection: 0 items>	0	166.6	70.1		30321	6371	457	6198: 16774	16893: 16997	6	AC	130	FALSE	0	23.95	0.27	0	TRUE	457	23.95					
2378	18256	6.5	<None>	<Collection: 0 items>	0	168.8	70.4		27217	6370	185	14845: 16898	12600: 16994	8	AC	130	FALSE	0	64.17	0.41	0	TRUE	185	64.17					
2628	18508	6.3	<None>	<Collection: 0 items>	0	165.7	69.1		22827	6369	184	682: 16989	2887: 16888	6	AC	130	FALSE	0	-65.75	0.75	0	TRUE	184	65.75					
2722	17633	1.5	<None>	<Collection: 0 items>	0	168.2	72.3		33048	6368	339	14005: 16892	16892: 16897	6	AC	130	FALSE	0	-20.21	0.23	0	TRUE	339	20.21					
2737	18587	1.5	<None>	<Collection: 0 items>	0	166.2	71.4		29927	6367	513	681: 16889	14005: 16892	6	AC	130	FALSE	0	-17.25	0.2	0	TRUE	513	17.25					
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									19648	5688	101	15347: 17349	1826: 17411	8	AC	130	FALSE	0	31.9	0.2	0	TRUE	101	31.9				
									35509	5687	355	16636: 17363	15167: 17365	6	AC	130	FALSE	0	42.45	0.48	0	TRUE	355	42.45				
									32413	5686	64	13376: 17364	16636: 17363	6	AC	130	FALSE	0	45.79	0.52	0	TRUE	64	45.79				
									19707	5685	133	4522: 17225	11239: 17299	8	AC	130	FALSE	0	129.74	0.83	0	TRUE	133	129.74				
									20137	5684	90	1294: 17229	5564: 17283	8	AC	130	FALSE	0	51.65	0.33	0	TRUE	90	51.65				
									31561	5683	218	9122: 17178	15268: 17277	12	AC	130	FALSE	0	421.9	1.2	0.001	TRUE	218	421.9				
									23260	5682	37	8268: 17244	2531: 17243	6	AC	130	FALSE	0	1.67	0.02	0	TRUE	37	1.67				
									35013	5681	340	7406: 17201	8268: 17244	8	AC	130	FALSE	0	38.58	0.25	0	TRUE	340	38.58				
									29286	5680	136	1235: 17180	4522: 17225	8	AC	130	FALSE	0	133.08	0.85	0	TRUE	136	133.08				
									23007	5679	60	15491: 17210	17328: 17211	6	AC	130	FALSE	0	-1.84	0.02	0	TRUE	60	1.84				
									18703	5678	187	4659: 17209	15491: 17210	6	AC	130	FALSE	0	-2.53	0.03	0	TRUE	187	2.53				
									33323	5677	43	11627: 17190	14672: 17203	8	AC	130	FALSE	0	87.6	0.56	0	TRUE	43	87.6				
									28858	5676	39	5050: 17200	7406: 17201	8	AC	130	FALSE	0	41.92	0.27	0	TRUE	39	41.92				
									24508	5675	13	6357: 17174	3686: 17182	8	AC	130	FALSE	0	157.32	1	0.001	TRUE	13	157.32				
									20146	5674	19	7063: 17171	1235: 17180	8	AC	130	FALSE	0	136.42	0.87	0	TRUE	19	136.42				
									34749	5673	94	13422: 17137	16016: 17093	12	AC	130	FALSE	0	-533.86	1.51	0.001	TRUE	94	533.86				
									21674	5672	216	6381: 17088	14179: 17092	12	AC	130	FALSE	0	158.39	0.45	0	TRUE	216	158.39				
									25932	5671	359	4070: 17085	6381: 17088	12	AC	130	FALSE	0	161.67	0.46	0	TRUE	359	161.67				
									29296	5670	206	2285: 17084	4070: 17085	12	AC	130	FALSE	0	323.98	0.92	0	TRUE	206	323.98				
									23665	5669	143	2947: 17081	2285: 17084	12	AC	130	FALSE	0	197.19	0.56	0	TRUE	143	197.19				
									35722	5668	85	3593: 17029	2285: 17084	8	AC	130	FALSE	0	128.43	0.82	0	TRUE	85	128.43				
									33322	5667	245	7987: 17078	2947: 17081	12	AC	130	FALSE	0	338.59	0.96	0	TRUE	245	338.59				
									28857	5666	192	6356: 17074	7987: 17078	12	AC	130	FALSE	0	341.9	0.97	0	TRUE	192	341.9				
									24507	5665	106	11928: 17069	7062: 17071	12	AC	130	FALSE	0	299.51	0.85	0	TRUE	106	299.51				
									20145	5664	227	248: 17067	11928: 17069	12	AC	130	FALSE	0	312.17	0.89	0	TRUE	227	312.17				
									34748	5663	150	15923: 17066	248: 17067	12	AC	130	FALSE	0	403.11	1.14	0	TRUE	150	403.11				
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									25931	5661	59	2357: 16943	569: 16942	8	AC	130	FALSE	0	35.41	0.23	0	TRUE	59	35.41				
									29295	5660	194	569: 16942	1903: 16940	8	AC	130	FALSE	0	-97.95	0.63	0	TRUE	194	97.95				
									24018	5659	60	6066: 16900	1903: 16940	8	AC	130	FALSE	0	17.68	0.11	0	TRUE	60	17.68				
									18705	5658	171	12759: 16939	15496: 16936	8	AC	130	FALSE	0	11.41	0.07	0	TRUE	171	11.41				
									19196	4862	158	2378: 18256	17468: 18279	6	AC	130	FALSE	0	0	0	0	TRUE	158	0				
									25377	4861	4	2378: 18256	7660: 18255	6	AC	130	FALSE	0	0	0	0	TRUE	4	0				
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									18137	4858	3	7322: 18252	9065: 18253	10	AC	130	FALSE	0	340.1	1.39	0.001	TRUE	3	340.1				
									32723	4857	427	357: 18122	3135: 18171	8	AC	130	FALSE	0	61.5	0.39	0	TRUE	427	61.5				
									22834	4856	33	340: 18110	357: 18122	8	AC	130	FALSE	0	67.7	0.43	0	TRUE	33	67.7				
									23935	4855	436	13454: 17991	14399: 18042	8	AC	130	FALSE	0	67.7	0.43	0	TRUE	436	67.7				
									18280	4851	892	1714: 18083	7311: 18200	8	AC	130	FALSE	0	46.98	0.3	0	TRUE	892	46.98				
									22473	4849	98	7311: 18200	12817: 18214	8	AC	130	FALSE	0	34.58	0.22	0	TRUE	98	34.58				
									18136	4848	873	3463: 18080	12261: 17856	8	AC	130	FALSE	0	-38.86	0.25	0	TRUE	873	38.86				

									19543	4844	38	12261: 17856	17520: 17837	8	AC	130	FALSE	0	-35.15	0.22	0	TRUE	38	35.15									
									24873	4843	261	17520: 17837	6620: 17767	8	AC	130	FALSE	0	-40.09	0.26	0	TRUE	261	40.09									
									19538	4834	136	15922: 17766	13379: 17763	8	AC	130	FALSE	0	2.47	0.02	0	TRUE	136	2.47									
									17906	4817	312	12811: 17094	6601: 17097	12	AC	130	FALSE	0	335.24	0.95	0	TRUE	312	335.24									
									24060	4809	409	14669: 17703	13371: 17664	8	AC	130	FALSE	0	80.64	0.51	0	TRUE	409	80.64									
									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									
									18275	4801	346	5265: 17470	8512: 17469	6	AC	130	FALSE	0	-20.01	0.23	0	TRUE	346	20.01									
									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									
									26745	4783	84	2724: 17033	2888: 16988	8	AC	130	FALSE	0	-24.63	0.16	0	TRUE	84	24.63									
									23622	4782	21	3860: 16985	11038: 16999	8	AC	130	FALSE	0	7.41	0.05	0	TRUE	21	7.41									
									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	
10959	15256	23.8	<None>	<Collection: 1 item>	32.28	167	62.1	21194	P559	250	3270: 11884	888: 11723	12		130	FALSE	0	-845.06	2.4	0.002	TRUE	250	845.06					
11491	15152	24.6	<None>	<Collection: 1 item>	32.28	166.9	61.7	29677	P557	16	1202: J388	4137: 11378	10		130	FALSE	0	1.89	0.01	0	TRUE	17	1.89					
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					
12408	15351	25.4	<None>	<Collection: 1 item>	32.28	167.1	61.4	33789	P543	3	14774: 12184	3495: 12181	6		130	FALSE	0	-1.8	0.02	0	TRUE	3	1.8					
12655	12330	31	<None>	<Collection: 1 item>	32.28	168.1	59.4	20362	P489	372	10456: J326	7991: J324	8		130	FALSE	0	-122.96	0.78	0	TRUE	300	122.96					
13115	15094	25.6	<None>	<Collection: 1 item>	32.28	166.9	61.2	30576	P487	352	3308: J342	10456: J326	8		130	FALSE	0	-11.13	0.07	0	TRUE	337	11.13					
13885	13409	31.7	<None>	<Collection: 1 item>	32.28	168.4	59.3	19198	P485	397	5017: J340	3308: J342	8		130	FALSE	0	5.15	0.03	0	TRUE	387	5.15					
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					
16902	15088	25.7	<None>	<Collection: 1 item>	32.28	166.9	61.2	31294	P481	342	4237: J328	10456: J326	8		130	FALSE	0	-95.55	0.61	0	TRUE	330	95.55					
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					
1214	13587	29.5	<None>	<Collection: 1 item>	22.73	168	60	30583	P477	131	2785: J330	12265: J346	8		130	FALSE	0	16.28	0.1	0	TRUE	120	16.28					
5249	13577	29.8	<None>	<Collection: 1 item>	22.73	168	59.9	35035	P475	580	11199: J332	2785: J330	8		130	FALSE	0	-30.43	0.19	0	TRUE	600	30.43					
5254	13277	30.8	<None>	<Collection: 1 item>	22.73	168.5	59.7	21434	P473	251	7992: J334	11199: J332	8		130	FALSE	0	-14.15	0.09	0	TRUE	300	14.15					
6833	13604	31.5	<None>	<Collection: 1 item>	22.73	168.2	59.3	34257	P471	18	7992: J334	8135: J322	8		130	FALSE	0	40.96	0.26	0	TRUE	63	40.96					
7505	13601	30	<None>	<Collection: 1 item>	22.73	168	59.8	18416	P469	577	11346: J336	7992: J334	8		130	FALSE	0	43.09	0.28	0	TRUE	600	43.09					
7529	13653	27.3	<None>	<Collection: 1 item>	22.73	168.2	61.1	24110	P467	447	1212: J338	11346: J336	8		130	FALSE	0	59.37	0.38	0	TRUE	420	59.37					
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					
8387	13462	31.5	<None>	<Collection: 1 item>	22.73	168	59.2	23613	P463	123	2784: J320	5017: J340	8		130	FALSE	0	97.08	0.62	0	TRUE	53	97.08					
8929	13659	27.4	<None>	<Collection: 1 item>	22.73	168.2	61	31297	P461	304	7991: J324	14607: 11648	12	AC	130	FALSE	0	119.27	0.34	0	TRUE	304	119.27					
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					
10913	13033	28.9	<None>	<Collection: 1 item>	22.73	168.5	60.5	33874	P457	15	2784: J320	16258: 12336	8	AC	130	FALSE	0	-97.08	0.62	0	TRUE	15	97.08					
11883	12037	26.4	<None>	<Collection: 1 item>	22.73	169.3	62	24614	P389	420	3970: J270	2082: J236	8		130	FALSE	0	7.57	0.05	0	TRUE	420	7.57					
12845	13630	28.8	<None>	<Collection: 1 item>	22.73	168.2	60.4	34861	P387	512	7274: J226	3970: J270	8		130	FALSE	0	15.76	0.1	0	TRUE	513	15.76					
14158	13591	31.5	<None>	<Collection: 1 item>	22.73	168	59.2	22176	P385	448	12918: J258	16718: J260	8		130	FALSE	0	-122.03	0.78	0	TRUE	448	122.03					
15995	13596	30.1	<None>	<Collection: 1 item>	22.73	168	59.8	23332	P383	782	13313: J262	12918: J258	8		130	FALSE	0	-53.94	0.34	0	TRUE	782	53.94					
16074	11847	26.6	<None>	<Collection: 1 item>	22.73	170	62.2	28475	P381	200	3969: J250	4066: J252	6		130	FALSE	0	8.19	0.09	0	TRUE	200	8.19					
2332	13620	28.4	<None>	<Collection: 1 item>	22.73	168.2	60.6	24625	P379	195	16936: J266	12918: J258	8		130	FALSE	0	-59.89	0.38	0	TRUE	195	59.89					
7702	13671	27.6	<None>	<Collection: 1 item>	22.73	168.2	61	33594	P377	63	16936: J266	12919: J268	6		130	FALSE	0	8.19	0.09	0	TRUE	63	8.19					
1212	J338	74	<None>	<Collection: 1 item>	16.28	239.8	71.9	29937	P375	649	3969: J250	16936: J266	8		130	FALSE	0	-43.5	0.28	0	TRUE	649	43.5					
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					
11199	J332	71	<None>	<Collection: 1 item>	16.28	239.7	73.1	24626	P359	604	12406: J232	3227: J224	8		130	FALSE	0	-13.55	0.09	0	TRUE	604	13.55					
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					
12436	11537	68.2	<None>	<Collection: 1 item>	15.08	240.2	74.5	23707	P353	221	12923: J238	3968: J240	8		130	FALSE	0	-25.21	0.16	0	TRUE	221	25.21					
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7450	14007	8.9	<None>	<Collection: 1 item>	13.22	169.7	69.7	29938	P345	102	5497: J88	7274: J226	8		130	FALSE	0	23.96	0.15	0	TRUE	102	23.96					
15506	13962	46.1	<None>	<Collection: 1 item>	13.22	169.5	53.5	23706	P343	22	2929: 13984	16718: J260	12	PVC	130	FALSE	0	484.7	1.37	0.001	TRUE	22	484.7					
1252	13012	44.7	<None>	<Collection: 1 item>	11.68	174	56	18531	P341	30	8989: J246	12466: 14456	12	PVC	130	FALSE	0	399.29	1.13	0	TRUE	30	399.29					
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9800	13048	36.4	<None>	<Collection: 1 item>	11.68	172.3	58.9	19115	P219	300	6414: J126	2592: J130	8		130	FALSE	0	-55.89	0.36	0	TRUE	300	55.89					
15904	12349	73.9	<None>	<Collection: 1 item>	8.63	239.7	71.9	31890	P217	150	16671: J120	6414: J126	8		130	FALSE	0	-86.23	0.55	0	TRUE	150	86.23					
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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7324	11875	102.2	<None>	<Collection: 1 item>	8.62	239.9	59.7	25323	P205	79	10996: J112	7941: J86	8		130	FALSE	0	-30.53	0.19	0	TRUE	79	30.53					
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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					
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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					
3970	J270	33	<None>	<Collection: 1 item>	8.19	168.2	58.6	19774	P181	8	6925: J94	6926: J96	8		130	FALSE	0	0	0	0	TRUE	8	0					
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4066	J252	33	<None>	<Collection: 1 item>	8.19	168.2	58.6	17708	P177	10	11225: J90	11224: J92	8		130	FALSE	0	-5.94	0.04	0	TRUE	10	5.94					
7274	J226	33	<None>	<Collection: 1 item>	8.19	168.2	58.6	32309	P175	80	5497: J88	11225: J90	8		130	FALSE	0	-5.94	0.04	0	TRUE	80	5.94					
12406	J232	33	<None>	<Collection: 1 item>	8.19	168.2	58.6	36077	P173	131	3227: J224	5497: J88	8		130	FALSE	0	20.74	0.13	0	TRUE	131	20.74					
12917	J248	33	<None>	<Collection: 1 item>	8.19	168.1	58.6	29133	P171	140	11444: J222	7941: J86	8		130	FALSE	0	75.75	0.48	0	TRUE	140	75.75					
12918	J258	33	<None>	<Collection: 1 item>	8.19	168.3	58.6	26438	P169	148	7702: 13671	9019: J74	12	AC	130	FALSE	0	-130.11	0.37	0	TRUE	148	130.11					
12919	J268	33	<None>	<Collection: 1 item>	8.19	168.3	58.6	32311	P155	52	16612: 13466	9798: 13448	8		60	FALSE	0	0	0	0	TRUE	52	0					
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15328	J244	33	<None>	<Collection: 1 item>	8.19	168.2	58.6	27493	P95	126	15930: J42	733: 16315	6		130	FALSE	0	41.59	0.47	0	TRUE	126	41.59					
16936	J266	33	<None>	<Collection: 1 item>	8.19	168.3	58.6	26712	P93	343	2365: 16143	15930: J42	6	AC	130	FALSE	0	8.33	0.09	0	TRUE	343	8.33					
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3157	12324	73.2	<None>	<Collection: 1 item>	7.23	173.8	43.6	21698	P79	543	6025: 13070	5473: J34	16	AC	130	FALSE	0	-85.03	0.14	0	TRUE	543	85.03					
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16081	11747	62	<None>	<Collection: 1 item>	6.82	240.2	77.3	39182	P-1006	29	39179: J-687	39181: J-688	6	PVC	130	FALSE	0	36.48	0.41	0	FALSE	0	36.48					
9579	11350	71.3	<None>	<Collection: 1 item>	6.51	239.6	72.9	39180	P-1005	34	39177: J-686	39179: J-687	6	PVC	130	FALSE	0	36.48	0.41	0	FALSE	0	36.48					
6341	11770	64.7	<None>	<Collection: 1 item>	6.46	240.1	76	39178	P-1004	255	39174: J-685	39177: J-686	6	PVC	130	FALSE	0	36.48	0.41	0	FALSE	0	36.48					
8029	11771	64.7	<None>	<Collection: 1 item>	6.46	239.7	75.8	39173	P-1003	16	39168: J-683	39170: J-684	8	PVC	130	FALSE	0	13.79	0.09	0	FALSE	0	13.79					
9257	11759	64.7	<None>	<Collection: 1 item>	6.46	240.1	76	39169	P-1002	120	13203: 16064	39168: J-683	8	PVC	130	FALSE	0	13.79	0.09	0	FALSE	0	13.79					
13357	11760	64.7	<None>	<Collection: 1 item>	6.46	240.1	76	39166	P-1001	9	39155: J-677	39163: J-681	8	PVC	130	FALSE	0	-32.76	0.21	0	FALSE	0	32.76					
55	16067	25.8	<None>	<Collection: 1 item>	5.84	167.4	61.4	39161	P-1000	14	39156: J-678	39158: J-679	8	PVC	130	FALSE	0	32.76	0.21	0	FALSE	0	32.76					
56	16167	31.1	<None>	<Collection: 1 item>	5.84	168.9	59.7	39157	P-999	10	39155: J-677	39156: J-678	8	PVC	130	FALSE	0	32.76	0.21	0	FALSE	0	32.76					
143	13883	31.5	<None>	<Collection: 1 item>	5.84	170.8	60.4	39108	P-990	60	39101: J-658	39105: J-660	8	PVC	130	FALSE	0	141.29	0.9	0	FALSE	0	141.29					
151	13183	46.3	<None>	<Collection: 1 item>	5.84	171.7	54.4	39102	P-988	788	39099: J-657	39101: J-658	8	PVC	130	FALSE	0	141.29	0.9	0	FALSE	0	141.29					
192	15811	21.9	<None>	<Collection: 1 item>	5.84	167.7	63.2	39100	P-987	20	39096: J-656	39099: J-657	8	PVC	130	FALSE	0	141.29	0.9	0	FALSE	0	141.29					
194	15411	26.5	<None>	<Collection: 1 item>	5.84	167.5	61.1	39095	P-986	655	39090: J-654	39092: J-655	8	PVC	130	FALSE	0	200.56	1.28	0.001	FALSE	0	200.56					
196	15611	23.1	<None>	<Collection: 1 item>	5.84	167.2	62.5	39091	P-985	670	12059: 13537	39090: J-654	8	PVC	130	FALSE	0	200.56	1.28	0.001	FALSE	0	200.56					
197	15711	26.5	<None>	<Collection: 1 item>	5.84	167.5	61.1	39081	P-982	329	39075: J-650	39078: J-651	8	PVC	130	FALSE	0	-28.09	0.18	0	FALSE	0	28.09					
228	14841	26.6	<None>	<Collection: 1 item>	5.84	166.9	60.8	38937	P-937	346	15564: 15268	13739: 15264	4	PVC	130	FALSE	0	-20.73	0.53	0	FALSE	0	20.73					
229	14941	30.2	<None>	<Collection: 1 item>	5.84	168.1	59.8	38874	P-897	32	38870: J-575	38873: J-576	6	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0					
244	15017	26.7	<None>	<Collection: 1 item>	5.84	166.9	60.8	38872	P-896	63	38870: J-575	4251: 12582	10	AC	130	FALSE	0	8.07	0.03	0	TRUE	67	8.07					

259	14999	26.4	<None>	<Collection: 1 item>	5.84	167.8	61.3		38871	P-895	89	16443: 12766	38870: J-575	10	AC	130	FALSE	0	8.08	0.03	0	TRUE	95	8.08						
313	16135	25.2	<None>	<Collection: 1 item>	5.84	168.9	62.3		38848	P-881	165	4870: 16200	38845: J-566	8	PVC	130	FALSE	0	-47.05	0.3	0	FALSE	0	47.05						
404	15541	30.1	<None>	<Collection: 1 item>	5.84	169.1	60.2		38847	P-880	177	38845: J-566	1504: 16319	6	AC	130	FALSE	0	0.13	0	0	TRUE	176	0.13						
405	15641	26.5	<None>	<Collection: 1 item>	5.84	167.7	61.2		38846	P-879	812	14452: 15961	38845: J-566	6	AC	130	FALSE	0	47.18	0.54	0	TRUE	812	47.18						
412	14867	26.5	<None>	<Collection: 1 item>	5.84	172.5	63.3		38787	P-846	5	12299: 16358	8053: 16359	6	PVC	130	FALSE	0	0.25	0	0	FALSE	0	0.25						
413	14967	26.4	<None>	<Collection: 1 item>	5.84	169.7	62.1		38719	P-800	13	38714: J-517	38716: J-518	8	PVC	130	FALSE	0	204.9	1.31	0.001	FALSE	0	204.9						
529	13311	45.7	<None>	<Collection: 1 item>	5.84	171.6	54.6		38718	P-799	17	38716: J-518	38698: J-512	8	PVC	130	FALSE	0	273.69	1.75	0.002	FALSE	0	273.69						
538	16373	31.5	<None>	<Collection: 1 item>	5.84	167.5	58.9		38717	P-798	52	4132: 11678	38716: J-518	8	PVC	130	FALSE	0	68.78	0.44	0	FALSE	0	68.78						
577	16142	31.4	<None>	<Collection: 1 item>	5.84	167.5	59		38715	P-797	5	38711: J-516	38714: J-517	8	PVC	130	FALSE	0	204.9	1.31	0.001	FALSE	0	204.9						
614	14877	10.6	<None>	<Collection: 1 item>	5.84	169.4	68.8		38713	P-796	67	38711: J-516	38708: J-515	14	STL	130	FALSE	0	388.66	0.81	0	FALSE	0	388.66						
615	14977	34	<None>	<Collection: 1 item>	5.84	168.3	58.2		38712	P-795	322	38704: J-514	38711: J-516	14	STL	130	FALSE	0	593.57	1.24	0	FALSE	0	593.57						
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689	16189	31.7	<None>	<Collection: 1 item>	5.84	167.6	58.9		38707	P-792	307	537: 11728	38704: J-514	14	STL	130	FALSE	0	642.86	1.34	0.001	FALSE	0	642.86						
715	14252	31.5	<None>	<Collection: 1 item>	5.84	170.3	60.2		38706	P-791	24	38704: J-514	8366: 11772	6	AC	130	FALSE	0	44.76	0.51	0	TRUE	23	44.76						
716	14352	31.5	<None>	<Collection: 1 item>	5.84	170.2	60.1		38705	P-790	293	6339: 11570	38704: J-514	6	AC	130	FALSE	0	-4.53	0.05	0	TRUE	293	4.53						
717	14612	30.2	<None>	<Collection: 1 item>	5.84	169.9	60.6		38702	P-789	23	5602: 12200	38681: J-505	6	PVC	130	FALSE	0	-108.63	1.23	0.001	FALSE	0	108.63						
733	16315	30.1	<None>	<Collection: 1 item>	5.84	168.9	60.2		38701	P-788	48	6012: 11779	38698: J-512	8	PVC	130	FALSE	0	148.44	0.95	0.001	FALSE	0	148.44						
745	13341	31.6	<None>	<Collection: 1 item>	5.84	171.6	60.7		38700	P-787	258	38698: J-512	14388: 11918	8	PVC	130	FALSE	0	422.13	2.69	0.004	FALSE	0	422.13						
810	14639	31.5	<None>	<Collection: 1 item>	5.84	169.8	60		38689	P-780	2	38683: J-506	38686: J-508	12	PVC	130	FALSE	0	319.7	0.91	0	FALSE	0	319.7						
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871	15812	22	<None>	<Collection: 1 item>	5.84	167.7	63.1		38680	P-775	144	4772: 11982	38679: J-504	12	PVC	130	FALSE	0	428.33	1.22	0.001	FALSE	0	428.33						
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915	14142	31.5	<None>	<Collection: 1 item>	5.84	170.4	60.2		38677	P-773	62	38675: J-503	38671: J-502	12	PVC	130	FALSE	0	134.84	0.38	0	FALSE	0	134.84						
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1226	15389	29	<None>	<Collection: 1 item>	5.84	168.4	60.4		38464	P-646	36	38461: J-420	38463: J-421	8	PVC	130	FALSE	0	-199.97	1.28	0.001	FALSE	0	199.97						
1249	13512	39.9	<None>	<Collection: 1 item>	5.84	171.4	57		38462	P-645	460	38459: J-419	38461: J-420	8	PVC	130	FALSE	0	-199.97	1.28	0.001	FALSE	0	199.97						
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2009	14846	26.5	<None>	<Collection: 1 item>	5.84	166.9	60.9		37098	P-86	6	37092: J-135	37095: J-136	8	PVC	130	FALSE	0	0	0	0	FALSE	0	0						
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2129	15453	26.6	<None>	<Collection: 1 item>	5.84	169	61.7		37093	P-82	94	37088: J-134	37092: J-135	12	STL	130	FALSE	0	-501.68	1.42	0.001	TRUE	88	501.68						
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13817	15391	26.6	<None>	<Collection: 1 item>	5.84	169	61.7		30796	16044	334	12448: 13339	10348: 13554	6	AC	130	FALSE	0	110.29	1.25	0.001	TRUE	334	110.29					
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13888	15448	25	<None>	<Collection: 1 item>	5.84	169	62.4		30776	16041	66	17541: 13344	17097: 13347	6	AC	130	FALSE	0	2.64	0.03	0	TRUE	66	2.64					
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16462	16063	25.7	<None>	<Collection: 1 item>	5.84	167.4	61.4		36525	15936	382	7331: 12501	8010: 12202	12	AC	130	FALSE	0	-891.31	2.53	0.002	TRUE	382	891.31					
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17023	16308	34.9	<None>	<Collection: 1 item>	5.84	169	58.1		29136	15881	12	12370: 11399	4286: 11403	6	AC	130	FALSE	0	4.29	0.05	0	TRUE	12	4.29					
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17139	15544	34.2	<None>	<Collection: 1 item>	5.84	169.5	58.6		36370	15870	649	12361: 11999	9889: 12498	30	STL	130	FALSE	0	6,440.71	2.92	0.001	TRUE	649	6440.71					
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17229	14930	27.4	<None>	<Collection: 1 item>	5.84	169.6	61.7		23893	15868	26	11419: 12097	9893: 12098	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	26	1.89					
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17487	15543	34.6	<None>	<Collection: 1 item>	5.84	169.5	58.5		18271	15853	9	8651: 11974	4511: 11973	6	AC	130	FALSE	0	2.64	0.03	0	TRUE	9	2.64					
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2326	11329	64	<None>	<Collection: 1 item>	5.11	240.4	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	240.4	77.6		33630	15838	25	11987: 11797	4517: 11773	6	AC	130	FALSE	0	-3.15	0.04	0	TRUE	25	3.15					
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3741	11476	63.4	<None>	<Collection: 1 item>	5.11	240.3	76.7		36524	15836	188	3744: 11776	4042: 11781	8	AC	130	FALSE	0	-35.98	0.23	0	TRUE	188	35.98					
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5620	11477	63	<None>	<Collection: 1 item>	5.11	240.3	76.8		23979	15830	37	5772: 11709	11499: 11763	6	AC	130	FALSE	0	-2.64	0.03	0	TRUE	37	2.64					
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2878	13159	46.4	<None>	<Collection: 1 item>	2.58	171.8	54.4		24293	12498	32	16729: 14988	3178: 14978	12	PVC	130	FALSE	0	-40.9	0.12	0	TRUE	32	40.9					
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12784	11890	31.5	<None>	<Collection: 1 item>	0.46	168.2	59.3		30335	4622	189	10574: 14251	10226: 14160	12	AC	130	FALSE	0	-475.15	1.35	0.001	TRUE	189	475.15					

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13998	12391	35.3	<None>	<Collection: 1 item>	0.46	168.5	57.7		35178	4616	196	2504: 13846	16403: 13736	12	AC	130	FALSE	0	-500.07	1.42	0.001	TRUE	196	500.07				
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12578	13944	35.3	<None>	<Collection: 1 item>	0	0	0		33870	3347	249	1994: 13329	15905: 13465	8	AC	130	FALSE	0	383.78	2.45	0.003	TRUE	249	383.78					
13731	14248	31.5	<None>	<Collection: 1 item>	0	0	0		30717	3346	38	16400: 13436	10413: 13442	6	AC	130	FALSE	0	-7.26	0.08	0	TRUE	38	7.26					
14096	13364	48.3	<None>	<Collection: 1 item>	0	0	0		27601	3345	206	10089: 13298	14590: 13431	6	AC	130	FALSE	0	90.94	1.03	0.001	TRUE	206	90.94					
14163	13291	51.8	<None>	<Collection: 1 item>	0	0	0		24503	3344	187	10353: 13254	1816: 13345	8	PVC	130	FALSE	0	174	1.11	0.001	TRUE	187	174					
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14614	13943	35.3	<None>	<Collection: 1 item>	0	0	0		34255	3341	233	4147: 13173	5546: 13286	6	AC	130	FALSE	0	97.18	1.1	0.001	TRUE	233	97.18												
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17515	14111	32.7	<None>	<Collection: 1 item>	0	0	0		24498	3334	140	12103: 12767	15697: 12765	12	AC	130	FALSE	0	315.24	0.89	0	TRUE	140	315.24												
17534	13444	46.4	<None>	<Collection: 1 item>	0	0	0		21428	3333	217	16443: 12766	12885: 12760	12	AC	130	FALSE	0	289.09	0.82	0	TRUE	217	289.09												
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										33912	2486	141	543: 13923	15991: 13996	20	STL	130	FALSE	0	1,596.75	1.63	0.001	TRUE	141	1596.75					
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										29446	2475	29	811: 14739	1788: 14716	12	PVC	130	FALSE	0	-314.43	0.89	0	TRUE	29	314.43					
										21874	2474	125	11825: 14690	10223: 14660	12	AC	130	FALSE	0	-114.14	0.32	0	TRUE	125	114.14					
										31011	2473	172	10223: 14660	2454: 14584	12	AC	130	FALSE	0	-17.32	0.05	0	TRUE	172	17.32					
										35310	2472	32	2015: 14646	6850: 14657	6	AC	130	FALSE	0	77.09	0.87	0.001	TRUE	32	77.09					
										19680	2471	135	16109: 14566	1242: 14627	8	AC	130	FALSE	0	101.5	0.65	0	TRUE	135	101.5					
										32996	2470	322	2454: 14584	10892: 14450	12	AC	130	FALSE	0	-86.99	0.25	0	TRUE	322	86.99					
										28042	2469	192	13726: 14548	6689: 14458	8	AC	130	FALSE	0	7.8	0.05	0	TRUE	192	7.8					
										33640	2468	152	10892: 14450	12608: 14322	12	AC	130	FALSE	0	-132.81	0.38	0	TRUE	152	132.81					
										19273	2467	26	12608: 14322	13224: 14312	12	AC	130	FALSE	0	-135.93	0.39	0	TRUE	26	135.93					
										33919	2466	389	16771: 14314	8766: 14150	6	AC	130	FALSE	0	-69.26	0.79	0.001	TRUE	389	69.26					
										23298	2465	172	13224: 14312	17516: 14211	12	AC	130	FALSE	0	-176.15	0.5	0	TRUE	172	176.15					
										29252	2464	328	17516: 14211	3566: 14121	12	AC	130	FALSE	0	-250.3	0.71	0	TRUE	328	250.3					
										29364	2463	6	3566: 14121	15305: 14119	12	AC	130	FALSE	0	-267.46	0.76	0	TRUE	6	267.46					
										26249	2462	239	15305: 14119	6332: 14004	12	AC	130	FALSE	0	-348.4	0.99	0	TRUE	239	348.4					
										23121	2461	38	16769: 14114	6799: 14087	8	AC	130	FALSE	0	-54.21	0.35	0	TRUE	38	54.21					
										26532	2460	158	7451: 14107	8765: 14050	6	AC	130	FALSE	0	-14.04	0.16	0	TRUE	158	14.04					
										28973	2459	193	12797: 14027	7451: 14107	6	AC	130	FALSE	0	-7.8	0.09	0	TRUE	193	7.8					
										25883	2458	190	12372: 13990	6799: 14087	6	AC	130	FALSE	0	-7.8	0.09	0	TRUE	190	7.8					
										22765	2457	45	2929: 13984	6018: 13970	12	STL	130	FALSE	0	-837.79	2.38	0.002	TRUE	45	837.79					
										19723	2456	79	4440: 13982	9299: 13954	6	AC	130	FALSE	0	3.12	0.04	0	TRUE	79	3.12					
										23301	2455	167	14253: 13748	12437: 13839	8	AC	130	FALSE	0	66.68	0.43	0	TRUE	167	66.68					
										32483	2454	60	4851: 13722	8930: 13759	6	AC	130	FALSE	0	-4.68	0.05	0	TRUE	60	4.68					
										31013	2453	265	8930: 13759	1251: 13712	8	AC	130	FALSE	0	-53.78	0.34	0	TRUE	265	53.78					
										26252	2452	29	17537: 13744	12444: 13739	8	AC	130	FALSE	0	4.68	0.03	0	TRUE	29	4.68					
										23124	2451	68	13029: 13660	1566: 13689	6	AC	130	FALSE	0	-3.12	0.04	0	TRUE	68	3.12					
										20097	2450	213	3749: 13678	7214: 13658	8	AC	130	FALSE	0	-4.04	0.03	0	TRUE	213	4.04					
										28044	2449	145	2334: 13020	8636: 13127	8	PVC	130	FALSE	0	3.01	0.02	0	TRUE	145	3.01					
										23595	2448	57	10987: 12999	2334: 13020	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	57	9.04					
										31178	2447	30	16091: 13349	15662: 13335	6	AC	130	FALSE	0	-1.02	0.01	0	TRUE	30	1.02					
										33921	2446	51	8001: 12902	1391: 12889	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	53	9.04					
										23300	2445	58	4651: 12622	17348: 12644	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	58	9.04					
										25086	2444	300	6718: 12533	12075: 12755	12	PVC	130	FALSE	0	39.03	0.11	0	TRUE	300	39.03					
										31012	2443	55	12075: 12755	794: 12709	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	55	9.04					
										35311	2442	63	6718: 12533	17104: 12514	8	PVC	130	FALSE	0	49.97	0.32	0	TRUE	63	49.97					
										30910	2441	63	12079: 12355	12189: 12390	12	PVC	130	FALSE	0	113.13	0.32	0	TRUE	63	113.13					
										32997	2440	46	10921: 12451	4592: 12485	12	PVC	130	FALSE	0	69.5	0.2	0	TRUE	46	69.5					
										28039	2439	33	12182: 12490	1115: 12503	8	PVC	130	FALSE	0	8.31	0.05	0	TRUE	33	8.31					
										23591	2438	65	5815: 12970	3907: 13003	8	PVC	130	FALSE	0	15.07	0.1	0	TRUE	65	15.07					
										22759	2437	258	10987: 12999	16241: 13010	12	PVC	130	FALSE	0	21.26	0.06	0	TRUE	258	21.26					
										33916	2436	278	5437: 12979	10987: 12999	12	PVC	130	FALSE	0	33.32	0.09	0	TRUE	278	33.32					
										35575	2435	50	16241: 13010	8635: 13027	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	51	9.04					
										29249	2434	170	13846: 12918	5437: 12979	12	PVC	130	FALSE	0	45.38	0.13	0	TRUE	170	45.38					
										31007	2433	51	13846: 12918	1643: 12945	8	PVC	130	FALSE	0	15.07	0.1	0	TRUE	51	15.07					
										26246	2432	228	1747: 12580	12485: 12769	6	AC	130	FALSE	0	-6.03	0.07	0	TRUE	228	6.03					
										30905	2431	50	10294: 12393	13308: 12394	8	AC	130	FALSE	0	-50.27	0.32	0	TRUE	50	50.27					
										32992	2430	263	11879: 12437	1753: 12380	8	PVC	130	FALSE	0	5.9	0.04	0	TRUE	263	5.9					
										28038	2429	99	12107: 12367	11879: 12437	8	PVC	130	FALSE	0	10.35	0.07	0	TRUE	99	10.35					
										23590	2428	3	12107: 12367	10591: 12368	8	AC	130	FALSE	0	-29.17	0.19	0	TRUE	3	29.17					
										19269	2427	377	10292: 12193	12107: 12367	8	AC	130	FALSE	0	-15.8	0.1	0	TRUE	377	15.8					
										33915	2426	97	1218: 13187	12279: 13167	12	STL	130	FALSE	0	-642.33	1.82	0.001	TRUE	97	642.33					
										29442	2425	55	14801: 13461	9013: 13452	8	AC	130	FALSE	0	-128.18	0.82	0	TRUE	55	128.18					
										17721	2424	61	3353: 13324	16000: 13296	8	AC	130	FALSE	0	3.12	0.02	0	TRUE	61	3.12					
										20711	2423	16	8551: 13305	16000: 13296	6	AC	130	FALSE	0	-1.56	0.02	0	TRUE	16	1.56					
										25348	2422	132	12279: 13167	17258: 13088	12	STL	130	FALSE	0	-643.89	1.83	0.001	TRUE	132	643.89					
										19677	2421	9	10417: 13142	12848: 13130	6	AC	130	FALSE	0	-114.61	1.3	0.001	TRUE	9	114.61					
										32991	2420	55	16404: 13036	9017: 13052	8	AC	130	FALSE	0	-81	0.52	0	TRUE	55	81					
										28041	2419	284	2139: 12916	16404: 13036	8	AC	130	FALSE	0	-76.98	0.49	0	TRUE	284	76.98					
										19146	2418	63	3486: 12881	2139: 12916	8	AC	130	FALSE	0	-64.91	0.41	0	TRUE	63	64.91					
										34716	2417	239	8412: 12157	17353: 12344	6	AC	130	FALSE	0	-6.03	0.07	0	TRUE	239	6.03					
										33918	2416	54	9279: 12176	10292: 12193	8	AC	130	FALSE	0	-3.74	0.02	0	TRUE	54	3.74					
										29444	2415	38	5072: 12177	10292: 12193	6	AC	130	FALSE	0	-9.04	0.1	0	TRUE	38	9.04					
										29251	2414	43	9579: 11350	11477: 11351	12	PVC	130	FALSE	0	155.05	0.44	0	TRUE	43	155.05					
										22306	2413	116	11884: 12137	13900: 12064	8	AC	130	FALSE	0	-5.31	0.03	0	TRUE	116	5.31					
										25350	2412	54	10952: 12063	13900: 12064	6	AC	130	FALSE	0	-6.03	0.07	0	TRUE	54	6.03					
										19679	2411	253	9596: 11865	13900: 12064	8	AC	130	FALSE	0	14.35	0.09	0	TRUE	253	14.35					
										32994	2410	54	14433: 11864	9596: 11865	6	AC	130	FALSE	0	-9.04	0.1	0	TRUE	54	9.04					
										28040	2409	57	3738: 11876	16412: 11849	8	AC	130	FALSE	0	-8.28	0.05	0	TRUE	57	8.28					
										34715	2407	40	13143: 11730	14038: 11716	12	AC	130	FALSE	0	208.1	0.59	0	TRUE	40	208.1					
										33917	2406	8	10543: 11736	13143: 11730	12	AC	130	FALSE	0	258.87	0.73	0	TRUE	8	258.87					
										29443	2405	33	1793: 11842	9568: 11850	8	AC	130	FALSE	0	50.78	0.32	0	TRUE	33	50.78					
										29250	2404	235	9568: 11850	16412: 11849	8	AC	130	FALSE	0	15.32	0.1	0	TRUE	235	15.32					
										25349	2402	40	10542: 11636	14392: 11618	12	PVC	130	FALSE	0	-144.22	0.41	0	TRUE	40	144.22					
										19678	2401	272	5207: 11822	10542: 11636	12	PVC	130	FALSE	0	-138.19	0.39	0	TRUE	272	138.19					
										26530	2400	40	12431: 11837	5207: 11822	12	PVC	130	FALSE	0	-132.16	0.37	0	TRUE	40	132.16					
										31327	2399	37	14634: 12061	1438: 12015	12	PVC	130	FALSE	0	-120.1	0.34	0	TRUE	37	120.1					
										27542	2398	96	15852: 11517	16565: 11510	12	PVC	130	FALSE	0	-150.25	0.43	0	TRUE	96	150.25					
										23465	2397	616	4045: 11281	10485: 11208	12	PVC	130	FALSE	0	-375.08	1.06	0	TRUE	616	375.08					
										19148	2396	306	8895: 11405	4775: 11482	8	PVC	130	FALSE	0	-18.84	0.12	0	TRUE	306	18.84					
										33769	2395	287	8033: 11371	8895: 11405	8	PVC	130	FALSE	0	-15.22	0.1	0	TRUE	287	15.22					
										31917	2394	175	5600: 12000	15299: 12117	8	PVC	130	FALSE	0	-92.27	0.59	0	TRUE	175	92.27					
										24962	2393	54	482: 11983	5600: 12000	8	PVC	130	FALSE	0	-86.24	0.55	0	TRUE	54	86.24					
										20572	2392	60	16224: 11819	2160: 11845	8	PVC	130	FALSE	0	-77.19	0.49	0	TRUE	60	77.19					
										25811	2391	51	16566: 11610	3717: 11624	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	51	9.04					
										30441	2383	17	12364: 11599	5152: 11585	6	PVC	130	FALSE	0	0	0	0	TRUE	17	0					
										30767	2380	20	14520: 11691	15225: 11692	6	AC	130	FALSE	0	-29.43	0.33	0	TRUE	20	29.43					
										27064	1895	3	4865: 15125	4509: 15122	12	AC	130	FALSE	0	32.28	0.09	0	TRUE	3	32.28					
										22635	1894	301	7529: 13653	8197: 13602	8	AC	130	FALSE	0	159.13	1.02	0.001	TRUE	301	159.13					
										27271	1893	9	8197: 13602	7505: 13601	8	AC	130	FALSE	0	113.67	0.73	0	TRUE	9	113.67					
										32924	1892	5	7505: 13601	15995: 13596	8	AC	130	FALSE	0	22.73	0.15	0	TRUE	5	22.73					
										22092	1891	150	7702: 13671	12845: 13630	12	AC	130	FALSE	0	-97.22	0.28	0	TRUE	150	97.22					
										24113	1890	541	13006: 13356	5544: 13086	12	AC	130	FALSE	0	-277.18	0.79	0	TRUE	541	277.18					
										27947	1889	262	4121: 13221	152: 13283	8	PVC	130	FALSE	0	-0.56	0	0	TRUE	262	0.56					
										24844	1888	34	5229: 13225	15661: 13235	8	AC	130	FALSE	0	32.69	0.21	0	TRUE	34	32.69					
										21748	1887	281	1568: 13089	4121: 13221	8	PVC	130	FALSE	0	4.42	0.03	0	TRUE	281	4.42					
										18660	1886	210	7047: 13074	14406: 13113	10	PVC	130	FALSE	0	-7.16	0.03	0	TRUE	210	7.16					
										27063	1885	21	5544: 13086	2877: 13059	12	AC	130	FALSE	0	-316.01	0.9	0	TRUE	21	316.01					
										22634	1884	331	13892: 12864	17538: 13044	8	AC	130	FALSE	0	88.43	0.56	0	TRUE	331	88.43					
										28302	1883	31	17029: 13037	12847: 13030	10	PVC	130	FALSE	0	-9.71	0.04	0	TRUE	31	9.71					
										32923	1882	20	11414: 12997	5030: 13007	8	PVC	130	FALSE	0	-9.3	0.06	0	TRUE	20	9.3					

									22091	1881	374	13303: 12694	11414: 12997	8	PVC	130	FALSE	0	-4.32	0.03	0	TRUE	374	4.32					
									24112	1880	280	15332: 12862	15333: 12962	8	PVC	130	FALSE	0	5.96	0.04	0	TRUE	280	5.96					
									25613	1879	293	1465: 12727	10919: 12951	8	PVC	130	FALSE	0	-2.88	0.02	0	TRUE	293	2.88					
									21244	1878	27	3941: 12873	17467: 12883	10	PVC	130	FALSE	0	24.65	0.1	0	TRUE	27	24.65					
									21758	1877	245	5043: 12725	8223: 12872	8	PVC	130	FALSE	0	-6.05	0.04	0	TRUE	245	6.05					
									18667	1876	326	8006: 12602	13892: 12864	8	AC	130	FALSE	0	93.41	0.6	0	TRUE	326	93.41					
									27073	1875	381	4673: 12540	15332: 12862	8	PVC	130	FALSE	0	8.45	0.05	0	TRUE	381	8.45					
									31438	1874	81	6660: 12604	10949: 12563	10	PVC	130	FALSE	0	-50.85	0.21	0	TRUE	81	50.85					
									28311	1873	42	10949: 12563	10162: 12554	10	PVC	130	FALSE	0	-55.83	0.23	0	TRUE	42	55.83					
									25234	1872	140	12719: 12519	7036: 12558	8	PVC	130	FALSE	0	5.25	0.03	0	TRUE	140	5.25					
									22100	1871	7	10162: 12554	11682: 12552	10	PVC	130	FALSE	0	-60.8	0.25	0	TRUE	7	60.8					
									19028	1870	89	11682: 12552	8380: 12505	10	PVC	130	FALSE	0	-84.28	0.34	0	TRUE	89	84.28					
									21243	1868	14	4650: 12522	3151: 12524	8	PVC	130	FALSE	0	28.63	0.18	0	TRUE	14	28.63					
									21757	1867	22	17471: 12483	15077: 12495	8	PVC	130	FALSE	0	154.98	0.99	0.001	TRUE	22	154.98					
									18666	1866	258	11669: 12413	1068: 12412	8	PVC	130	FALSE	0	-109.24	0.7	0	TRUE	258	109.24					
									27072	1865	43	1068: 12412	8004: 12402	8	PVC	130	FALSE	0	-179.88	1.15	0.001	TRUE	43	179.88					
									22099	1861	144	6152: 11300	5599: 11325	8	PVC	130	FALSE	0	-20.8	0.13	0	TRUE	144	20.8					
									25615	1859	154	14418: 12131	15698: 12065	10	AC	130	FALSE	0	-316.36	1.29	0.001	TRUE	154	316.36					
									21246	1858	41	1399: 12089	2146: 12116	10	PVC	130	FALSE	0	9.03	0.04	0	TRUE	41	9.03					
									21760	1857	7	12076: 12055	15901: 12049	10	AC	130	FALSE	0	-324.2	1.32	0.001	TRUE	7	324.2					
									18669	1856	450	16053: 11735	8383: 12005	8	AC	130	FALSE	0	257.39	1.64	0.001	TRUE	450	257.39					
									34550	1855	15	1911: 11989	14517: 11991	10	AC	130	FALSE	0	256.92	1.05	0	TRUE	15	256.92					
									31440	1854	56	15129: 11961	135: 11988	10	PVC	130	FALSE	0	16.86	0.07	0	TRUE	56	16.86					
									28313	1853	45	5617: 11977	5955: 11944	10	PVC	130	FALSE	0	0.03	0	0	TRUE	45	0.03					
									25236	1852	9	9569: 11950	12234: 11952	10	AC	130	FALSE	0	272.61	1.11	0.001	TRUE	9	272.61					
									22102	1851	20	14243: 11946	1754: 11945	10	AC	130	FALSE	0	371.26	1.52	0.001	TRUE	20	371.26					
									19030	1850	265	14601: 11848	14031: 11816	8	PVC	130	FALSE	0	-80.35	0.51	0	TRUE	265	80.35					
									25614	1849	41	200: 11826	14956: 11843	10	PVC	130	FALSE	0	19.97	0.08	0	TRUE	41	19.97					
									21245	1848	44	9275: 11824	16209: 11838	10	PVC	130	FALSE	0	11.22	0.05	0	TRUE	44	11.22					
									21759	1847	201	3743: 11676	200: 11826	10	PVC	130	FALSE	0	14	0.06	0	TRUE	201	14					
									18668	1846	30	14031: 11816	14387: 11818	8	PVC	130	FALSE	0	-85.58	0.55	0	TRUE	30	85.58					
									34549	1845	49	10718: 11654	3743: 11676	10	PVC	130	FALSE	0	17.12	0.07	0	TRUE	49	17.12					
									31439	1844	342	2757: 11642	10852: 11593	12	AC	130	FALSE	0	-760.22	2.16	0.002	TRUE	342	760.22					
									28312	1843	36	16052: 11635	1093: 11641	10	PVC	130	FALSE	0	29.68	0.12	0	TRUE	36	29.68					
									25235	1842	371	10852: 11593	182: 11514	12	AC	130	FALSE	0	-710.9	2.02	0.001	TRUE	371	710.9					
									22101	1841	36	8364: 11572	4776: 11582	10	PVC	130	FALSE	0	-6.38	0.03	0	TRUE	36	6.38					
									19029	1840	28	8027: 11571	3742: 11576	10	PVC	130	FALSE	0	62.62	0.26	0	TRUE	28	62.62					
									27952	1839	28	8364: 11572	16276: 11565	10	PVC	130	FALSE	0	-338.5	1.38	0.001	TRUE	28	338.5					
									24850	1838	485	16276: 11565	8027: 11571	10	PVC	130	FALSE	0	65.82	0.27	0	TRUE	485	65.82					
									21754	1837	77	182: 11514	12505: 11498	12	AC	130	FALSE	0	-714.01	2.03	0.001	TRUE	77	714.01					
									23434	1231	8	8756: 12359	11688: 12352	8	PVC	130	FALSE	0	16.87	0.11	0	TRUE	8	16.87					
									20384	1230	36	12188: 12290	9280: 12276	8	PVC	130	FALSE	0	15.03	0.1	0	TRUE	36	15.03					
									29287	1229	4	9280: 12276	8589: 12275	8	PVC	130	FALSE	0	14.11	0.09	0	TRUE	4	14.11					
									26184	1228	114	1290: 12242	13996: 12191	8	PVC	130	FALSE	0	0.46	0	0	TRUE	114	0.46					
									23055	1227	37	15341: 12162	561: 12141	8	PVC	130	FALSE	0	-0.46	0	0	TRUE	37	0.46					
									32811	1224	16	10589: 12168	12859: 12156	8	PVC	130	FALSE	0	4.91	0.03	0	TRUE	16	4.91					
									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	-29.14	0.12	0	TRUE	29	29.14					
									35895	1215	516	1468: 12227	10585: 12568	10	AC	130	FALSE	0	0.45	0	0	TRUE	516	0.45					
									32814	1214	9	5354: 12586	3578: 12578	10	PVC	130	FALSE	0	-34.24	0.14	0	TRUE	9	34.24					
									29683	1213	66	3578: 12578	12883: 12560	10	PVC	130	FALSE	0	-39.47	0.16	0	TRUE	66	39.47					
									26592	1212	36	396: 12223	1468: 12227	10	AC	130	FALSE	0	282.37	1.15	0.001	TRUE	36	282.37					
									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	-60.62	0.39	0	TRUE	319	60.62					

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
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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					
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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					
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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	7288	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					
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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					
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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					
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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					
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3329	5603	23.7	<None>	<Collection: 1 item>	4.09	174.3	65.3		38190	P-469	406	38172: J-330	38147: J-318	8	PVC	130	FALSE	0	-4.37	0.03	0	FALSE	0	4.37					
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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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7815	6930	-3.5	<None>	<Collection: 1 item>	4.09	174.3	77.1		37409	P-218	706	37403: J-212	37406: J-213	16	HDPE	130	FALSE	0	-1.06	0	0	FALSE	0	1.06					
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8176	6881	34.1	<None>	<Collection: 1 item>	4.09	173.5	60.4		37407	P-216	126	5874: 3953	37406: J-213	6	AC	130	FALSE	0	14.01	0.16	0	TRUE	115	14.01					
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8194	6060	26	<None>	<Collection: 1 item>	4.09	173.5	64		37404	P-214	152	126: 3597	37403: J-212	8	AC	130	FALSE	0	31.36	0.2	0	TRUE	160	31.36					
8348	5813	22	<None>	<Collection: 1 item>	4.09	173.4	65.6		37390	P-210	148	37388: J-210	7403: 4069	8	AC	130	FALSE	0	-2.76	0.02	0	TRUE	148	2.76					
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8673	6190	31.5	<None>	<Collection: 1 item>	4.09	173.6	61.6		37381	P-205	72	13083: 5930	37380: J-209	6	AC	130	FALSE	0	11.09	0.13	0	TRUE	72	11.09					
8691	5959	27.1	<None>	<Collection: 1 item>	4.09	173.9	63.6		37377	P-203	86	37375: J-207	5894: 5754	6	AC	130	FALSE	0	48.53	0.55	0	TRUE	69	48.53					
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9136	5311	-1.8	<None>	<Collection: 1 item>	4.09	174.7	76.5		37368	P-197	135	6912: 3756	37367: J-204	8	AC	130	FALSE	0	18.45	0.12	0	TRUE	135	18.45					
9150	6203	31.5	<None>	<Collection: 1 item>	4.09	173.7	61.6		37354	P-193	140	37352: J-202	4499: 8141	8	PVC	130	FALSE	0	0	0	0	FALSE	0	0					
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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		36772	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					
10001	6746	35.5	<None>	<Collection: 1 item>	4.09	173.9	60		36840	BWPipe_revised-51	473	36793: J-68	36760: J-48	8	Ductile Iron	130	FALSE	0	-15.45	0.1	0	FALSE	0	15.45					
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					
10262	5572	21.4	<None>	<Collection: 1 item>	4.09	174.4	66.3		36752	BWPipe_revised-49	90	36753: J-43	36754: J-44	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
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_revised-23	456	36766: J-52	36838: J-83	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13197	6800	36	<None>	<Collection: 1 item>	4.09	173.9	59.8		36846	BWPipe_revised-22	527	36756: J-45	36766: J-52	8	Ductile Iron	130	FALSE	0	0.01	0	0	FALSE	0	0.01					
13296	6281	31.2	<None>	<Collection: 1 item>	4.09	173.8	61.8		36755	BWPipe_revised-21	72	36756: J-45	36757: J-46	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13297	6291	31.3	<None>	<Collection: 1 item>	4.09	173.7	61.7		36775	BWPipe_revised-20	181	36762: J-49	36756: J-45	8	Ductile Iron	130	FALSE	0	0.01	0	0	FALSE	0	0.01					
13414	6144	30.9	<None>	<Collection: 1 item>	4.09	173.7	61.9		36761	BWPipe_revised-19	123	36762: J-49	36763: J-50	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13550	6774	35.7	<None>	<Collection: 1 item>	4.09	173.9	59.9		36847	BWPipe_revised-18	527	36777: J-58	36762: J-49	8	Ductile Iron	130	FALSE	0	0.01	0	0	FALSE	0	0.01					

13837	5660	25.8	<None>	<Collection: 1 item>	4.09	174.2	64.3		36776	BWPipe_revised-17		182	36766: J-52		8	Ductile Iron	130	FALSE		0	0.01	0	0	FALSE		0	0.01					
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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629	2981	1.5	<None>	<Collection: 1 item>	3.35	170.2	73.1		33565		190567	48	11912: 190734		8		145	FALSE		0	2.84	0.02	0	TRUE		48	2.84					
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6217	4440	11.5	<None>	<Collection: 1 item>	1.77	176.8	71.6		24790	7525	394	6613: 7122	11862: 7004	8	AC	130	FALSE	0	105.47	0.67	0	TRUE	383	105.47					
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6507	3642	6.5	<None>	<Collection: 1 item>	1.77	175.9	73.4		33115	7512	10	8217: 6875	7580: 6882	6	AC	130	FALSE	0	-3.11	0.04	0	TRUE	10	3.11					
6540	3509	1.5	<None>	<Collection: 1 item>	1.77	172	73.9		29336	7507	352	13208: 6693	16699: 6887	14	AC	130	FALSE	0	-327.89	0.68	0	TRUE	352	327.89					
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6543	3539	3.8	<None>	<Collection: 1 item>	1.77	173.3	73.5		18040	7505	38	13839: 5600	6820: 5611	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	38	2.38					
6575	2307	8.8	<None>	<Collection: 1 item>	1.77	180.4	74.4		20315	7504	432	11351: 5879	6820: 5611	8	AC	130	FALSE	0	8.06	0.05	0	TRUE	432	8.06					
6611	3025	6.5	<None>	<Collection: 1 item>	1.77	176.7	73.8		33114	7502	136	10527: 6130	10535: 6058	8	AC	130	FALSE	0	13.74	0.09	0	TRUE	136	13.74					
6705	3703	6.5	<None>	<Collection: 1 item>	1.77	176.1	73.5		26886	7500	266	9305: 5986	10527: 6130	6	AC	130	FALSE	0	-50.91	0.58	0	TRUE	266	50.91					
6706	3713	6.5	<None>	<Collection: 1 item>	1.77	175.9	73.4		33587	7498	91	5894: 5754	7017: 5684	6	AC	130	FALSE	0	45.79	0.52	0	TRUE	91	45.79					
6708	3733	1.8	<None>	<Collection: 1 item>	1.77	170.1	73		24003	7493	51	16683: 5169	6287: 5212	6	AC	130	FALSE	0	2.07	0.02	0	TRUE	51	2.07					
6794	3375	1.5	<None>	<Collection: 1 item>	1.77	170.1	73.1		24560	7491	28	1348: 6591	4907: 6607	6	AC	130	FALSE	0	-2.74	0.03	0	TRUE	28	2.74					
6913	3766	4	<None>	<Collection: 1 item>	1.77	172	72.8		26099	7490	28	15320: 6459	15325: 6429	6	AC	130	FALSE	0	2.38	0.03	0	TRUE	28	2.38					
6915	3706	6.5	<None>	<Collection: 1 item>	1.77	176.1	73.5		31341	7489	290	15320: 6459	10527: 6130	6	AC	130	FALSE	0	-10.61	0.12	0	TRUE	290	10.61					

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6934	4279	2.7	<None>	<Collection: 1 item>	1.77	173.7	74.1		22546	7487	407	6981: 6837	10427: 6616	8	AC	130	FALSE	0	83.7	0.53	0	TRUE	407	83.7					
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7782	6901	-3.7	<None>	<Collection: 1 item>	1.77	175.9	77.9		23460	7459	175	8190: 6090	270: 6044	6	AC	130	FALSE	0	-2.74	0.03	0	TRUE	175	2.74					
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36759	J-47	0	<None>	<Collection: 1 item>	0	173.7	75.3		20195	411	54	9346: 5751	8529: 5797	6	AC	130	FALSE	0	-15.67	0.18	0	TRUE	54	15.67					
36760	J-48	0	<None>	<Collection: 1 item>	0	173.7	75.3		20194	410	284	13089: 5753	5895: 5764	8	AC	130	FALSE	0	-65.26	0.42	0	TRUE	284	65.26					
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36763	J-50	0	<None>	<Collection: 1 item>	0	173.6	75.2		24312	408	76	8532: 5757	17286: 5702	12	AC	130	FALSE	0	-5.79	0.02	0	TRUE	76	5.79					
36765	J-51	0	<None>	<Collection: 1 item>	0	173.6	75.2		21854	407	69	17283: 5752	13089: 5753	8	AC	130	FALSE	0	-66.28	0.42	0	TRUE	69	66.28					
36766	J-52	0	<None>	<Collection: 1 item>	0	173.6	75.2		26818	406	30	9315: 5746	2379: 5747	6	AC	130	FALSE	0	-84.76	0.96	0.001	TRUE	30	84.76					
36768	J-53	0	<None>	<Collection: 1 item>	0	173.5	75.2		30891	405	102	8842: 5672	6130: 5739	6	AC	130	FALSE	0	-31.48	0.36	0	TRUE	102	31.48					
36769	J-54	0	<None>	<Collection: 1 item>	0	173.5	75.2		21855	404	31	17286: 5702	6819: 5671	12	AC	130	FALSE	0	-8.33	0.02	0	TRUE	31	8.33					
36771	J-55	0	<None>	<Collection: 1 item>	0	173.3	75.1		24319	403	68	6819: 5671	1924: 5636	12	AC	130	FALSE	0	13.69	0.04	0	TRUE	68	13.69					
36773	J-56	0	<None>	<Collection: 1 item>	0	173.7	75.3		21850	402	16	5107: 5649	274: 5656	6	AC	130	FALSE	0	-19.31	0.22	0	TRUE	16	19.31					
36774	J-57	0	<None>	<Collection: 1 item>	0	173.7	75.3		33420	401	39	9883: 5628	5107: 5649	6	AC	130	FALSE	0	16.93	0.19	0	TRUE	39	16.93					
36777	J-58	0	<None>	<Collection: 1 item>	0	173.6	75.2		21851	400	191	6958: 5534	9877: 5648	6	AC	130	FALSE	0	25.48	0.29	0	TRUE	191	25.48					
36779	J-59	0	<None>	<Collection: 1 item>	0	173.9	75.4		26715	399	259	9877: 5648	9884: 5638	6	AC	130	FALSE	0	20.38	0.23	0	TRUE	259	20.38					
36780	J-60	0	<None>	<Collection: 1 item>	0	173.9	75.4		26714	398	184	1924: 5636	1152: 5494	12	AC	130	FALSE	0	27.69	0.08	0	TRUE	184	27.69					
36782	J-61	0	<None>	<Collection: 1 item>	0	173.7	75.3		26723	397	297	7940: 5430	2561: 5635	6	AC	130	FALSE	0	-28.59	0.32	0	TRUE	297	28.59					
36783	J-62	0	<None>	<Collection: 1 item>	0	173.7	75.3		26722	396	156	16843: 5510	9883: 5628	6	AC	130	FALSE	0	22.03	0.25	0	TRUE	156	22.03					
36785	J-63	0	<None>	<Collection: 1 item>	0	173.7	75.3		26725	395	318	10330: 5612	7938: 5410	6	AC	130	FALSE	0	45.48	0.52	0	TRUE	318	45.48					
36787	J-64	57	<None>	<Collection: 1 item>	0	173.6	50.5		26724	394	269	4927: 5419	11412: 5609	6	AC	130	FALSE	0	3.82	0.04	0	TRUE	269	3.82					
36788	J-65	0	<None>	<Collection: 1 item>	0	173.6	75.2		29689	393	58	2374: 5541	3484: 5576	6	AC	130	FALSE	0	4.24	0.05	0	TRUE	58	4.24					
36790	J-66	0	<None>	<Collection: 1 item>	0	173.7	75.3		26718	392	265	17447: 5555	4048: 5388	6	AC	130	FALSE	0	34.18	0.39	0	TRUE	265	34.18					
36791	J-67	0	<None>	<Collection: 1 item>	0	173.7	75.3		26721	391	170	3255: 5553	2374: 5541	8	AC	130	FALSE	0	-37.89	0.24	0	TRUE	170	37.89					
36793	J-68	0	<None>	<Collection: 1 item>	0	173.7	75.3		26720	390	259	2374: 5541	8114: 5477	8	AC	130	FALSE	0	-43.9	0.28	0	TRUE	259	43.9					
36795	J-69	0	<None>	<Collection: 1 item>	0	173.6	75.3		33419	389	59	17452: 5535	8114: 5477	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	59	2.38					
36796	J-70	0	<None>	<Collection: 1 item>	0	173.7	75.3		33418	388	452	12594: 5211	6958: 5534	6	AC	130	FALSE	0	30.58	0.35	0	TRUE	452	30.58					
36798	J-71	0	<None>	<Collection: 1 item>	0	173.6	75.3		32256	387	121	4558: 5432	16843: 5510	6	AC	130	FALSE	0	27.13	0.31	0	TRUE	121	27.13					
36799	J-72	0	<None>	<Collection: 1 item>	0	173.6	75.3		33427	386	64	7935: 5460	3647: 5504	8	AC	130	FALSE	0	-18.06	0.12	0	TRUE	64	18.06					
36802	J-73	0	<None>	<Collection: 1 item>	0	173.7	75.3		33430	385	20	1152: 5494	4140: 5478	12	AC	130	FALSE	0	23.86	0.07	0	TRUE	20	23.86					
36804	J-74	0	<None>	<Collection: 1 item>	0	173.7	75.3		32257	384	60	4140: 5478	15201: 5446	12	AC	130	FALSE	0	21.32	0.06	0	TRUE	60	21.32					
36806	J-75	0	<None>	<Collection: 1 item>	0	173.7	75.3		33424	383	244	8395: 5303	7935: 5460	8	AC	130	FALSE	0	-15.68	0.1	0	TRUE	244	15.68					
36807	J-76	0	<None>	<Collection: 1 item>	0	173.7	75.3		33423	382	59	7934: 5450	7939: 5420	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	59	2.38					
36810	J-77	0	<None>	<Collection: 1 item>	0	173.6	75.3		31179	381	59	15201: 5446	1160: 5414	12	AC	130	FALSE	0	17.49	0.05	0	TRUE	59	17.49					
36816	J-78	0	<None>	<Collection: 1 item>	0	173.7	75.3		33425	380	194	14849: 5300	4558: 5432	6	AC	130	FALSE	0	32.23	0.37	0	TRUE	194	32.23					
36819	J-79	0	<None>	<Collection: 1 item>	0	173.9	75.4		33205	379	219	7939: 5420	4053: 5358	8	AC	130	FALSE	0	-52.9	0.34	0	TRUE	219	52.9					
36825	J-80	0	<None>	<Collection: 1 item>	0	173.7	75.3		33204	378	66	1160: 5414	2883: 5383	12	AC	130	FALSE	0	-100.04	0.28	0	TRUE	66	100.04					
36828	J-81	0	<None>	<Collection: 1 item>	0	173.7	75.3		24802	377	129	7938: 5410	5706: 5338	6	AC	130	FALSE	0	110.51	1.25	0.001	TRUE	129	110.51					
36832	J-82	0	<None>	<Collection: 1 item>	0	173.7	75.3		33210	376	13	8115: 5407	15392: 5408	6	AC	130	FALSE	0	-91.17	1.03	0.001	TRUE	13	91.17					
36838	J-83	0	<None>	<Collection: 1 item>	0	173.6	75.2		20365	375	125	7937: 5400	8115: 5407	6	AC	130	FALSE	0	-84.58	0.96	0.001	TRUE	125	84.58					
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37367	J-204	0	<None>	<Collection: 0 items>	0	170.1	73.7		33207	373	98	4048: 5388	11943: 5306	6	AC	130	FALSE	0	51.16	0.58	0	TRUE	98	51.16					
37375	J-207	9	<None>	<Collection: 0 items>	0	170.3	69.9		33206	372	392	13559: 5386	12722: 5322	8	AC	130	FALSE	0	-20.91	0.13	0	TRUE	392	20.91					
37380	J-209	0	<None>	<Collection: 0 items>	0	172	74.6		33209	371	73	2883: 5383	7494: 5330	12	AC	130	FALSE	0	-105.89	0.3	0	TRUE	73	105.89					
37388	J-210	0	<None>	<Collection: 0 items>	0	172	74.6		33208	370	262	5706: 5338	6973: 5144	6	AC	130	FALSE	0	54.32	0.62	0	TRUE	262	54.32					
37403	J-212	8	<None>	<Collection: 0 items>	0	170.1	70.3		35752	369	373	12722: 5322	7584: 5173	8	AC	130	FALSE	0	-22.68	0.14	0	TRUE	373	22.68					
37406	J-213	8	<None>	<Collection: 0 items>	0	170.1	70.3		35751	368	90	12821: 5244	14849: 5300	6	AC	130	FALSE	0	37.33	0.42	0	TRUE	90	37.33					
37460	J-222	8	<None>	<Collection: 0 items>	0	170.1	70.3		31473	367	21	12822: 5254	5764: 5235	8	AC	130	FALSE	0	13.19	0.08	0	TRUE	21	13.19					
38137	J-313	4.7	<None>	<Collection: 0 items>	0	177.5	74.9		31472	366	55	8595: 5179	6824: 5238	8	AC	130	FALSE	0	-45.24	0.29	0	TRUE	55	45.24					
38141	J-315	4.8	<None>	<Collection: 0 items>	0	177.6	74.9		31475	365	209	5764: 5235	6974: 5154	6	AC	130	FALSE	0	9.89	0.11	0	TRUE	209	9.89					
38145	J-317	4.8	<None>	<Collection: 0 items>	0	177.6	74.9		31474	364	16	11183: 5216	14681: 5198	12	AC	130	FALSE	0	-119.08	0.34	0	TRUE	16	119.08					
38151	J-320	5.5	<None>	<Collection: 0 items>	0	177.6	74.6		31469	363	11	12594: 5211	7988: J374	6	AC	130	FALSE	0	-35.68	0.4	0	TRUE	11	35.68					
38153	J-321	5.8	<None>	<Collection: 0 items>	0	177.7	74.5		31468	362	21	2251: 5197	16680: 5199	6	AC	130	FALSE	0	-92.01	1.04	0.001	TRUE	21	92.01					
38158	J-323	6.4	<None>	<Collection: 0 items>	0	177.5	74.2		31471	361	95	8991: 5193	7988: J374	6	AC	130	FALSE	0	-48.68	0.55	0	TRUE	95	48.68					
38160	J-324	4.8	<None>	<Collection: 0 items>	0	177.5	74.9		31470	360	143	3205: 5191	8991: 5193	6	AC	130	FALSE	0	-43.58	0.49	0	TRUE	143	43.58					
38166	J-327	4.9	<None>	<Collection: 0 items>	0	177.6	74.8		19140	359	513	4729: 4887	5663: 4766	8	AC	130	FALSE	0	26.22	0.17	0	TRUE	513	26.22					
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					
38285	J-363	8	<None>	<Collection: 0 items>	0	170.4	70.4		25754	341	132	5385: 4886	14024: 4968	8	AC	130	FALSE	0	-38.39	0.25	0	TRUE	132	38.39					
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					
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38330	J-377	7	<None>	<Collection: 0 items>	0	170.3	70.8		20504	335	209	6991: 4759	5385: 4886	8	AC	130	FALSE	0	-67.52	0.43	0	TRUE	209	67.52					
38400	J-398	11	<None>	<Collection: 0 items>	0	170.3	69.1		28110	334	43	8138: 4848	2273: 4847	6	AC	130	FALSE	0	128.48	1.46	0.002	TRUE	43	128.48					
38474	J-424	57	<None>	<Collection: 0 items>	0	173.6	50.5		28105	333	199	2273: 4847	8869: 4846	6	AC	130	FALSE	0	124.09	1.41	0.002	TRUE	199	124.09					
38569	J-467	7.9	<None>	<Collection: 0 items>	0	170.3	70.4		28104	332	69	8869: 4846	6078: 4845	6	AC	130	FALSE	0	121.78	1.38	0.002	TRUE	69	121.78					

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38576	J-469	2.8	<None>	<Collection: 0 items>	0	170.4	72.7		28106	330	639	8062: 4382	433: 4842	6	AC	130	FALSE	0	-54.97	0.62	0	TRUE	639	54.97					
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38582	J-471	0	<None>	<Collection: 0 items>	0	170.2	73.8		34773	328	91	5915: 4809	5661: 4746	12	AC	130	FALSE	0	-277.78	0.79	0	TRUE	91	277.78					
38584	J-472	6.3	<None>	<Collection: 0 items>	0	170.2	71.1		28762	327	254	3961: 4765	3882: 4625	6	AC	130	FALSE	0	57.44	0.65	0	TRUE	254	57.44					
38588	J-473	0	<None>	<Collection: 0 items>	0	170.3	73.8		22775	326	273	5661: 4746	1331: 4596	12	AC	130	FALSE	0	-284.95	0.81	0	TRUE	273	284.95					
38599	J-476	5	<None>	<Collection: 0 items>	0	170.1	71.6		34786	325	595	610: 4647	10970: 4714	8	AC	130	FALSE	0	-57.31	0.37	0	TRUE	595	57.31					
38602	J-477	3	<None>	<Collection: 0 items>	0	170.1	72.4		34785	324	98	10055: 4653	8142: 4698	6	AC	130	FALSE	0	15.28	0.17	0	TRUE	98	15.28					
38605	J-478	0	<None>	<Collection: 0 items>	0	170.1	73.7		28757	323	255	13227: 4463	10055: 4653	6	AC	130	FALSE	0	24.2	0.27	0	TRUE	255	24.2					
38607	J-479	0	<None>	<Collection: 0 items>	0	170.1	73.7		28756	322	176	8151: 4638	15587: 4505	8	AC	130	FALSE	0	-51.06	0.33	0	TRUE	176	51.06					
38609	J-480	0	<None>	<Collection: 0 items>	0	170.1	73.7		28759	321	211	1331: 4596	9379: 4409	12	AC	130	FALSE	0	-289.28	0.82	0	TRUE	211	289.28					
38611	J-481	3.7	<None>	<Collection: 0 items>	0	170.1	72.1		28758	320	104	15587: 4505	6397: 4407	8	AC	130	FALSE	0	-63.81	0.41	0	TRUE	104	63.81					
38617	J-482	17	<None>	<Collection: 0 items>	0	175.6	68.8		22389	319	152	10858: 4344	12465: 4347	6	AC	130	FALSE	0	1.77	0.02	0	TRUE	152	1.77					
38619	J-483	1.9	<None>	<Collection: 0 items>	0	170.3	73		22388	318	264	13784: 4337	10858: 4344	6	AC	130	FALSE	0	-40.3	0.46	0	TRUE	264	40.3					
38622	J-484	0	<None>	<Collection: 0 items>	0	170.3	73.8		21339	317	38	8335: 4308	13781: 4307	12	AC	130	FALSE	0	424.4	1.2	0.001	TRUE	38	424.4					
38624	J-485	6	<None>	<Collection: 0 items>	0	170.2	71.2		20250	316	233	13781: 4307	8100: 4304	12	AC	130	FALSE	0	355.72	1.01	0	TRUE	233	355.72					
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38629	J-487	-1.7	<None>	<Collection: 0 items>	0	170.1	74.5		31371	314	30	8068: 4302	15056: 4301	12	AC	130	FALSE	0	345.21	0.98	0	TRUE	30	345.21					
38803	J-546	0	<None>	<Collection: 0 items>	0	170.6	74		22395	313	6	15056: 4301	11589: 4300	12	AC	130	FALSE	0	345.21	0.98	0	TRUE	6	345.21					
38805	J-547	0	<None>	<Collection: 0 items>	0	170.6	74		22394	312	22	13871: 4290	13257: 4295	12	AC	130	FALSE	0	-5.23	0.01	0	TRUE	22	5.23					
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38836	J-562	12	<None>	<Collection: 0 items>	0	0	0		23772	274	58	10929: 2993	4166: 2937	8	AC	130	FALSE	0	-71.47	0.46	0	TRUE	58	71.47					
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									22735	174	52	10236: 3571	13565: 3558	6	AC	130	FALSE	0	-5.86	0.07	0	TRUE	52	5.86					
									30061	173	154	13566: 3568	13565: 3558	6	AC	130	FALSE	0	16.55	0.19	0	TRUE	154	16.55					
									22730	172	35	6540: 3509	10237: 3501	8	AC	130	FALSE	0	-16.78	0.11	0	TRUE	35	16.78					
									30063	171	72	5701: 3427	12526: 3403	6	AC	130	FALSE	0	-9.31	0.11	0	TRUE	72	9.31					
									30062	170	341	15935: 3401	7635: 3358	6	AC	130	FALSE	0	6.88	0.08	0	TRUE	341	6.88					
									25025	169	93	4218: 3134	5904: 3137	8	AC	130	FALSE	0	4.21	0.03	0	TRUE	93	4.21					
									25024	168	152	11446: 3060	13483: 3088	8	AC	130	FALSE	0	24.61	0.16	0	TRUE	152	24.61					
									25033	167	257	4754: 2899	14414: 3090	8	AC	130	FALSE	0	76.76	0.49	0	TRUE	257	76.76					
									25032	166	108	13483: 3088	6474: 3079	8	AC	130	FALSE	0	22.29	0.14	0	TRUE	108	22.29					
									25035	165	190	13765: 3065	629: 2981	8	AC	130	FALSE	0	16.59	0.11	0	TRUE	190	16.59					
									25034	164	61	14422: 3010	11446: 3060	8	AC	130	FALSE	0	26.37	0.17	0	TRUE	61	26.37					
									25029	163	45	6258: 2980	11448: 3030	6	AC	130	FALSE	0	3.74	0.04	0	TRUE	45	3.74					
									25028	162	152	5187: 2883	14423: 3020	8	AC	130	FALSE	0	11.73	0.07	0	TRUE	152	11.73					
									25031	161	288	8809: 2884	6258: 2980	6	AC	130	FALSE	0	5.51	0.06	0	TRUE	288	5.51					
									25030	160	431	5351: 2536	4754: 2899	8	AC	130	FALSE	0	116.2	0.74	0	TRUE	431	116.2					
									31670	159	394	5529: 2547	5187: 2883	8	AC	130	FALSE	0	21.87	0.14	0	TRUE	394	21.87					
									31669	158	176	4699: 2599	4312: 2740	6	AC	130	FALSE	0	2.46	0.03	0	TRUE	176	2.46					
									31680	157	69	8666: 2504	4699: 2599	6	AC	130	FALSE	0	6.12	0.07	0	TRUE	69	6.12					
									31679	156	40	263: 2482	5529: 2547	8	AC	130	FALSE	0	25.8	0.16	0	TRUE	40	25.8					
									31682	155	313	8460: 2501	5133: 2543	8	AC	130	FALSE	0	-33.05	0.21	0	TRUE	313	33.05					
									31681	154	1	8463: 2531	5351: 2536	8	AC	130	FALSE	0	154.31	0.98	0.001	TRUE	1	154.31					
									31676	153	46	267: 2462	8463: 2531	8	AC	130	FALSE	0	156.63	1	0.001	TRUE	46	156.63					
									31675	152	328	4704: 2509	8666: 2504	6	AC	130	FALSE	0	-2.32	0.03	0	TRUE	328	2.32					
									31678	151	32	17014: 2446	8666: 2504	6	AC	130	FALSE	0	10.75	0.12	0	TRUE	32	10.75					
									31677	150	224	15573: 2500	8460: 2501	8	AC	130	FALSE	0	-31.65	0.2	0	TRUE	224	31.65					
									19338	149	42	13403: 2435	15573: 2500	6	AC	130	FALSE	0	26.24	0.3	0	TRUE	42	26.24					
									19337	148	37	14008: 2438	8307: 2499	6	AC	130	FALSE	0	4.63	0.05	0	TRUE	37	4.63					
									19348	147	15	9651: 2430	17014: 2446	6	AC	130	FALSE	0	12.52	0.14	0	TRUE	15	12.52					
									19347	146	519	11396: 2424	13402: 2425	12	AC	130	FALSE	0	-362.68	1.03	0	TRUE	519	362.68					
									19349	144	30	2105: 6030	10138: 5969	6	AC	130	FALSE	0	9.78	0.11	0	TRUE	87	9.78					
									19344	143	87	13533: 6115	8609: 6038	6	AC	130	FALSE	0	22.16	0.25	0	TRUE	131	22.16					
									19343	142	452	7761: 5963	13932: 5674	10	AC	130	FALSE	0	67.32	0.28	0	TRUE	453	67.32					
									19346	141	146	5113: 5842	5842: 5735	6	AC	130	FALSE	0	17.95	0.2	0	TRUE	143	17.95					
									19345	140	251	5127: 5675	9820: 5568	6	AC	130	FALSE	0	5.57	0.06	0	TRUE	250	5.57					
									29735	138	244	8117: 5427	14193: 5315	6	AC	130	FALSE	0	39.85	0.45	0	TRUE	248	39.85					
									29748	135	145	8609: 6038	2105: 6030	6	AC	130	FALSE	0	15.97	0.18	0	TRUE	9	15.97					
									29747	134	11	16505: 6258	16988: 6245	6	AC	130	FALSE	0	34.54	0.39	0	TRUE	11	34.54					
									19765	133	103	5842: 5735	5127: 5675	6	AC	130	FALSE	0	11.76	0.13	0	TRUE	105	11.76					
									29744	131	72	8112: 5457	8117: 5427	6	AC	130	FALSE	0	46.04	0.52	0	TRUE	69	46.04					
									19766	130	113	14193: 5315	8643: 5259	6	AC	130	FALSE	0	33.66	0.38	0	TRUE	113	33.66					
									36373	129	119	5758: 5245	7583: 5163	6	AC	130	FALSE	0	21.28	0.24	0	TRUE	116	21.28					
									36372	128	131	4876: 6418	16505: 6258	6	AC	130	FALSE	0	40.74	0.46	0	TRUE	134	40.74					
									36378	122	334	1314: 4731	5914: 4879	14	AC	130	FALSE	0	-169.4	0.35	0	TRUE	312	169.4					
									36381	121	41	8102: 4324	12468: 4377	6	AC	130	FALSE	0	-0.67	0.01	0	TRUE	41	0.67					
									36380	120	37	2843: 4000	17430: 4021	8	AC	130	FALSE	0	1.69	0.01	0	TRUE	37	1.69					
									24033	119	39	4204: 3975	2843: 4000	8	AC	130	FALSE	0	14.1	0.09	0	TRUE	39	14.1					
									24032	118	23	6040: 3957	2354: 3952	6	AC	130	FALSE	0	0	0	0	TRUE	23	0					
									24042	116	395	15781: 4437	8863: 4665	6	AC	130	FALSE	0	-13.03	0.15	0	TRUE	395	13.03					
									24922	115	414	17420: 4081	5874: 3953	6	AC	130	FALSE	0	16.08	0.18	0	TRUE	414	16.08					
									24921	114	27	766: 4067	5535: 4070	6	AC	130	FALSE	0	22.19	0.25	0	TRUE	27	22.19					
									24039	113	92	4884: 4045	766: 4067	6	AC	130	FALSE	0	-18.38	0.21	0	TRUE	92	18.38					
									24038	112	58	13074: 4038	5672: 4042	6	AC	130	FALSE	0	-23.1	0.26	0	TRUE	58	23.1					
									24041	111	21	6321: 4035	13074: 4038	6	AC	130	FALSE	0	-21.33	0.24	0	TRUE	21	21.33					
									24040	110	32	1372: 5105	13255: 5112	8	AC	130	FALSE	0	5.3	0.03	0	TRUE	32	5.3					
									27459	109	342	7565: 4946	1372: 5105	8	AC	130	FALSE	0	7.6	0.05	0	TRUE	342	7.6					
									27458	108	131	13919: 5087	5308: 5023	6	AC	130	FALSE	0	8.89	0.1	0	TRUE	153	8.89					
									30714	106	460	5308: 5023	17266: 4827	6	AC	130	FALSE	0	2.7	0.03	0	TRUE	467	2.7					
									30716	105	344	1309: 4751	2679: 4922	8	AC	130	FALSE	0	11.38	0.07	0	TRUE	344	11.38					
									30715	104	211	11751: 4699	17267: 4837	6	AC	130	FALSE	0	-9.24	0.1	0	TRUE	211	9.24					
									30711	103	19	17266: 4827	17264: 4807	6	AC	130	FALSE	0	25.85	0.29	0	TRUE	17	25.85					
									30710	102	239	17264: 4807	9527: 4695	6	AC	130	FALSE	0	19.66	0.22	0	TRUE	242	19.66					
									30713	101	420	657: 4762	5144: 4584	10	AC	130	FALSE	0	56.34	0.23	0	TRUE	427	56.34					
									30712	100	58	16128: 4719	1309: 4751	8	AC	130	FALSE	0	13.15	0.08	0	TRUE	58	13.15					
									21810	99	213	9527: 4695	8148: 4608	6	AC	130	FALSE	0	13.47	0.15	0	TRUE	209	13.47					
									25824	98	48	5006: 4651	10057: 4673	10	AC	130	FALSE	0	-112.25	0.46	0	TRUE	48	112.25					
									28172	97	42	10267: 4641	5006: 4651	10	AC	130	FALSE	0	-55.7	0.23	0	TRUE	42	55.7					
									34873	96	5	12037: 4640	10267: 4641	10	AC	130	FALSE	0	-49.77	0.2	0	TRUE	5	49.77					
									22062	95	165	8148: 4608	7098: 4577	6	AC	130	FALSE	0	7.27	0.08	0	TRUE	85	7.27					
									24698	94	659	3880: 4605	7964: 4141	6	AC	130	FALSE	0	18.3	0.21	0	TRUE	659	18.3					
									20927	92	177	7098: 4577	14200: 4404	6	AC	130	FALSE	0	12.73	0.14	0	TRUE	259	12.73					
									32064	91	19	6396: 4477	13666: 4498	6	AC	130	FALSE	0	22.58	0.26	0	TRUE	19	22.58					
									21561	90	230	14200: 4404	10670: 4241	6	AC	130	FALSE	0	6.54	0.07	0	TRUE	238	6.54					
									26631	89	167	2040: 4243	2228: 4181	10	AC	130	FALSE	0	25.59	0.1	0	TRUE	188	25.59					
									19524	87	161	13600: 4146	767: 4077	6	AC	130	FALSE	0	12.7	0.14	0	TRUE	153	12.7					
									24585	83	70	4207: 3935	16743: 3911	12	AC	130	FALSE	0	-74.28	0.21	0	TRUE	70	74.28					
									27168	82	258	3530: 3875	15796: 3780	8	AC	130	FALSE	0	48.19	0.31	0	TRUE	258	48.19					
									34358	81	18	3529: 3865	4913: 3851	6	AC	130	FALSE	0	11.08	0.13	0	TRUE	18	11.08					
									32312	80	419	4913: 3851	9967: 3751	6	AC	130	FALSE	0	9.31	0.11	0	TRUE	419	9.31					
									24607	79	29	13252: 3822	13133: 3847	6	AC	130	FALSE	0	-15.1	0.17	0	TRUE	29	15.1					
									23076	78	83	5352: 3792	13252: 3822	6	AC	130	FALSE	0	-6.7	0.08	0	TRUE	83	6.7					
									29836	77	96	9922: 3818	10215: 3791	12	AC	130	FALSE	0	-78.49	0.22	0	TRUE	96	78.49					
									36469	76	69	10215: 3791	13329: 3758	12	AC	130	FALSE	0	-80.7	0.23	0	TRUE	69	80.7					
									30560	75	14	13106: 3770	15796: 3780	6	AC	130	FALSE	0	-42.81	0.49	0	TRUE	14	42.81					
									30784	74	21	8972: 3760	13106: 3770	6	AC	130	FALSE	0	-39.21	0.44	0	TRUE	21	39.21					

									34260	73	31	1167: 3752	13329: 3758	12	AC	130	FALSE	0	83.02	0.24	0	TRUE	31	83.02												
									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												
									24327	54	17	12804: 3273	5740: 3270	12	AC	130	FALSE	0	72.73	0.21	0	TRUE	17	72.73												
									34787	53	30	5740: 3270	2796: 3257	12	AC	130	FALSE	0	70.96	0.2	0	TRUE	30	70.96												
									29043	51	255	3049: 3263	60: 3087	8	AC	130	FALSE	0	-84.69	0.54	0	TRUE	255	84.69												
									35708	50	21	2796: 3257	16187: 3251	12	AC	130	FALSE	0	69.19	0.2	0	TRUE	21	69.19												
									35627	49	65	10388: 3192	16143: 3165	6	AC	130	FALSE	0	-34.76	0.39	0	TRUE	65	34.76												
									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												
									36579	42	52	10515: 2789	4762: 2829	8	AC	130	FALSE	0	53.62	0.34	0	TRUE	52	53.62												
									20412	41	302	8732: 2824	10515: 2789	6	AC	130	FALSE	0	-8.23	0.09	0	TRUE	302	8.23												
									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												
									31683	36	20	155: 2771	10515: 2789	8	AC	130	FALSE	0	66.91	0.43	0	TRUE	20	66.91												
									19351	35	233	11737: 2568	155: 2771	8	AC	130	FALSE	0	68.29	0.44	0	TRUE	233	68.29												
									25950	34	33	10525: 2729	10526: 2739	8	AC	130	FALSE	0	21.22	0.14	0	TRUE	33	21.22												
									28315	33	39	8459: 2571	12229: 2612	6	AC	130	FALSE	0	43.32	0.49	0	TRUE	39	43.32												
									19408	32	292	12229: 2612	14004: 2478	6	AC	130	FALSE	0	20.33	0.23	0	TRUE	292	20.33												
									18411	30	55	14004: 2478	11737: 2568	8	AC	130	FALSE	0	70.06	0.45	0	TRUE	55	70.06												
									34404	29	171	2682: 2481	13997: 2488	6	AC	130	FALSE	0	-53.81	0.61	0	TRUE	171	53.81												
									24936	28	126	13401: 2415	6387: 2402	6	AC	130	FALSE	0	0	0	0	TRUE	126	0												
									35508	24	150	4911: 3891	6997: 3813	6	AC	130	FALSE	0	0	0	0	TRUE	150	0												
									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												

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					
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3674	13081	5.7	<None>	<Collection: 1 item>	1.64	172.5	72.3		25339	18588	453	417: 14767	11561: 14500	6	AC	130	FALSE	0	-42.94	0.49	0	TRUE	453	42.94					
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16356	15893	1.5	<None>	<Collection: 1 item>	1.64	168.8	72.5		21087	6268	18	8824: 14420	7069: 14419	12	AC	130	FALSE	0	321.13	0.91	0	TRUE	18	321.13					
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16361	15593	1.5	<None>	<Collection: 1 item>	1.64	169.2	72.7		29060	6266	10	1785: 14416	1080: 14415	12	AC	130	FALSE	0	364.61	1.03	0	TRUE	10	364.61					
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16408	13647	3.9	<None>	<Collection: 1 item>	1.64	171.2	72.5		17996	6241	215	1460: 13842	10488: 13993	8	AC	130	FALSE	0	94.9	0.61	0	TRUE	215	94.9					
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16736	14188	4	<None>	<Collection: 1 item>	1.64	170.8	72.3		29570	6193	468	6416: 12839	1280: 12842	12	AC	130	FALSE	0	-4.44	0.01	0	TRUE	468	4.44					
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16840	13018	7	<None>	<Collection: 1 item>	1.64	173.4	72.2		23909	6182	57	11325: 12579	17528: 12628	6	AC	130	FALSE	0	-6.58	0.07	0	TRUE	57	6.58					
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17259	13188	6.5	<None>	<Collection: 1 item>	1.64	173.1	72.2		20928	5982	177	5982: 15800	6487: 15804	8	AC	130	FALSE	0	161.27	1.03	0.001	TRUE	177	161.27					
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17304	13414	1.5	<None>	<Collection: 1 item>	1.64	172.2	74		28221	5978	247	14658: 15213	6100: 15216	8	AC	130	FALSE	0	18.61	0.12	0	TRUE	247	18.61					
17311	13314	6.5	<None>	<Collection: 1 item>	1.64	172.9	72.2		27818	5977	297	4888: 15677	8423: 15775	8	AC	130	FALSE	0	15.51	0.1	0	TRUE	297	15.51					
17340	15628	1.3	<None>	<Collection: 1 item>	1.64	169.3	72.8		19481	5976	339	5455: 14770	9766: 14954	8	AC	130	FALSE	0	-5.11	0.03	0	TRUE	339	5.11					
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17429	15599	1.5	<None>	<Collection: 1 item>	1.64	169.3	72.8		25318	5973	190	417: 14767	3847: 14882	6	AC	130	FALSE	0	29.38	0.33	0	TRUE	190	29.38					
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17536	13644	4	<None>	<Collection: 1 item>	1.64	171.2	72.5		24301	5971	252	10193: 14768	16111: 14766	8	AC	130	FALSE	0	-5.36	0.03	0	TRUE	252	5.36					
4989	14286	3.5	<None>	<Collection: 1 item>	1.64	170.4	72.3		36133	5970	195	16111: 14766	15351: 14765	8	AC	130	FALSE	0	-8.64	0.06	0	TRUE	195	8.64					
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193	15911	1.5	<None>	<Collection: 1 item>	1.48	169	72.6		22933	5968	308	4653: 15207	3148: 15208	8	AC	130	FALSE	0	46.69	0.3	0	TRUE	308	46.69					
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1080	14415	4.5	<None>	<Collection: 1 item>	1.48	170.7	72.1		19480	5966	466	11371: 15037	3569: 15039	8	AC	130	FALSE	0	-57.19	0.37	0	TRUE	466	57.19					
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1785	14416	3.6	<None>	<Collection: 1 item>	1.48	170.7	72.4		21803	5953	58	14532: 15492	17292: 15536	8	AC	130	FALSE	0	110.92	0.71	0	TRUE	58	110.92					
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10497	13838	1.5	<None>	<Collection: 0 items>	0	171.3	73.6		27811	5590	38	5419: 15526	4861: 15525	6	AC	130	FALSE	0	2.14	0.02	0	TRUE	38	2.14					
10691	13157	8.5	<None>	<Collection: 0 items>	0	173.2	71.4		26258	5588	144	4861: 15525	4195: 15523	6	AC	130	FALSE	0	-0.3	0	0	TRUE	144	0.3					
11418	12797	1.5	<None>	<Collection: 0 items>	0	173.6	74.6		35270	5586	45	4195: 15523	8076: 15520	6	AC	130	FALSE	0	-2.75	0.03	0	TRUE	45	2.75					
12306	J50	3.3	<None>	<Collection: 0 items>	0	170.5	72.5		22652	5584	12	4221: 15519	13687: 15518	8	AC	130	FALSE	0	-90.29	0.58	0	TRUE	12	90.29					
15927	J48	0	<None>	<Collection: 0 items>	0	173.7	75.3		18350	5583	131	13687: 15518	3288: 15481	8	AC	130	FALSE	0	-92.74	0.59	0	TRUE	131	92.74					
16200	14393	4.1	<None>	<Collection: 0 items>	0	170.5	72.1		35228	5578	124	3288: 15481	1259: 15415	8	AC	130	FALSE	0	-95.18	0.61	0	TRUE	124	95.18					
16991	J54	2.6	<None>	<Collection: 0 items>	0	170.3	72.7		35867	5577	389	8945: 15350	8502: 15479	8	AC	130	FALSE	0	27.98	0.18	0	TRUE	389	27.98					
17378	J160	4	<None>	<Collection: 0 items>	0	170	72		20107	5576	241	5636: 15470	10376: 15468	8	AC	130	FALSE	0	-41.58	0.27	0	TRUE	241	41.58					
37165	J-146	0	<None>	<Collection: 1 item>	0	174.4	75.6		31533	5574	154	15609: 15396	8225: 15457	8	AC	130	FALSE	0	145.97	0.93	0.001	TRUE	154	145.97					
37168	J-147	0	<None>	<Collection: 1 item>	0	174.4	75.6		26265	5568	59	1259: 15415	11617: 15399	8	AC	130	FALSE	0	-97.63	0.62	0	TRUE	59	97.63					
37173	J-148	0	<None>	<Collection: 1 item>	0	174.4	75.6		23510	5561	86	11374: 15337	15609: 15396	8	AC	130	FALSE	0	147.62	0.94	0.001	TRUE	86	147.62					
									21889	5559	58	15480: 15319	8945: 15350	6	AC	130	FALSE	0	32.9	0.37	0	TRUE	58	32.9					
									23865	5556	81	16904: 15288	11374: 15337	8	AC	130	FALSE	0	150.9	0.96	0.001	TRUE	81	150.9					
									31535	5554	67	2006: 15320	15480: 15319	6	AC	130	FALSE	0	36.18	0.41	0	TRUE	67	36.18					
									18362	5553	42	247: 15317	6102: 15316	6	AC	130	FALSE	0	-77.49	0.88	0.001	TRUE	42	77.49					
									26668	5552	48	1266: 15315	247: 15317	6	AC	130	FALSE	0	-75.05	0.85	0.001	TRUE	48	75.05					
									23512	5551	33	6102: 15316	8696: 15310	6	AC	130	FALSE	0	-79.94	0.91	0.001	TRUE	33	79.94					
									23864	5546	65	5642: 15270	16904: 15288	8	AC	130	FALSE	0	152.54	0.97	0.001	TRUE	65	152.54					
									25823	5543	102	2606: 15284	12694: 15260	6	AC	130	FALSE	0	-25.54	0.29	0	TRUE	102	25.54					
									23511	5541	487	7376: 15271	7864: 15102	8	AC	130	FALSE	0	-74.74	0.48	0	TRUE	487	74.74					
									25630	5539	30	15155: 15262	13511: 15234	8	AC	130	FALSE	0	-69.07	0.44	0	TRUE	30	69.07					
									26262	5538	39	12694: 15260	409: 15241	6	AC	130	FALSE	0	-27.98	0.32	0	TRUE	39	27.98					
									26665	5532	450	2988: 15224	3602: 14947	6	AC	130	FALSE	0	-58.02	0.66	0	TRUE	450	58.02					
									24139	5530	76	6779: 15221	4060: 15182	6	AC	130	FALSE	0	7.33	0.08	0	TRUE	76	7.33					
									35224	5528	279	9714: 15198	3737: 15121	8	AC	130	FALSE	0	-30.1	0.19	0	TRUE	279	30.1					
									31490	5526	215	13816: 15191	14458: 15061	8	AC	130	FALSE	0	-83.73	0.53	0	TRUE	215	83.73					
									18235	5525	138	5415: 15100	12285: 15169	6	AC	130	FALSE	0	60.87	0.69	0	TRUE	138	60.87					
									18048	5523	340	2625: 15113	5869: 15107	8	AC	130	FALSE	0	-4.93	0.03	0	TRUE	340	4.93					
									26664	5522	217	6493: 15104	9567: 15103	8	AC	130	FALSE	0	39.16	0.25	0	TRUE	217	39.16					
									23507	5521	65	9567: 15103	7864: 15102	8	AC	130	FALSE	0	30.06	0.19	0	TRUE	65	30.06					
									20461	5520	34	1701: 15086	5415: 15100	6	AC	130	FALSE	0	63.31	0.72	0	TRUE	34	63.31					
									29530	5517	74	13509: 15034	8424: 15075	8	AC	130	FALSE	0	161.72	1.03	0.001	TRUE	74	161.72					
									35986	5515	64	8580: 15059	11922: 15067	8	AC	130	FALSE	0	-91.07	0.58	0	TRUE	64	91.07					
									32895	5514	138	14458: 15061	8580: 15059	8	AC	130	FALSE	0	-86.18	0.55	0	TRUE	138	86.18					
									26666	5512	4	301: 14981	6793: 14987	12	AC	130	FALSE	0	488.49	1.39	0.001	TRUE	4	488.49					
									23509	5511	264	805: 14839	4259: 14985	8	AC	130	FALSE	0	82.86	0.53	0	TRUE	264	82.86					
									24140	5510	29	4259: 14985	2451: 14984	8	AC	130	FALSE	0	32.2	0.21	0	TRUE	29	32.2					
									25631	5509	458	2451: 14984	1404: 14980	8	AC	130	FALSE	0	28.92	0.18	0	TRUE	458	28.92					
									35225	5508	91	3848: 14982	5742: 14983	8	AC	130	FALSE	0	19.89	0.13	0	TRUE	91	19.89					
									29529	5507	62	11298: 14952	9951: 14938	8	AC	130	FALSE	0	-135.74	0.87	0	TRUE	62	135.74					
									20105	5506	69	2298: 14949	10565: 14951	6	AC	130	FALSE	0	35.75	0.41	0	TRUE	69	35.75					
									35985	5505	154	13723: 14948	2298: 14949	6	AC	130	FALSE	0	38.2	0.43	0	TRUE	154	38.2					
									29777	5503	243	11336: 14869	13723: 14948	6	AC	130	FALSE	0	40.64	0.46	0	TRUE	243	40.64					
									23508	5501	254	1237: 14827	3602: 14947	6	AC	130	FALSE	0	61.3	0.7	0	TRUE	254	61.3					
									36050	5499	196	908: 14942	13722: 14848	8	AC	130	FALSE	0	-70.17	0.45	0	TRUE	196	70.17					
									32957	5498	96	9951: 14938	2484: 14913	8	AC	130	FALSE	0	-138.19	0.88	0	TRUE	96	138.19					
									26717	5496	61	2484: 14913	6326: 14904	8	AC	130	FALSE	0	-140.63	0.9	0	TRUE	61	140.63					
									25298	5494	37	11689: 14855	11336: 14869	6	AC	130	FALSE	0	43.08	0.49	0	TRUE	37	43.08					
									27815	5493	297	2651: 14843	3601: 14847	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	297	3.28					
									35475	5492	333	907: 14842	16600: 14840	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	333	3.28					
									30215	5491	78	6425: 14829	7901: 14772	6	AC	130	FALSE	0	-37.85	0.43	0	TRUE	78	37.85					
									32956	5488	70	7237: 14771	17506: 14811	8	AC	130	FALSE	0	110.96	0.71	0	TRUE	70	110.96					
									26716	5486	4	16402: 13636	15657: 13635	8	AC	130	FALSE	0	-301.51	1.92	0.002	TRUE	4	301.51					
									29655	5485	57	16402: 13636	17027: 13637	8	AC	130	FALSE	0	-80.25	0.51	0	TRUE	57	80.25					
									25297	5484	232	15363: 13632	15364: 13732	8	AC	130	FALSE	0	17.59	0.11	0	TRUE	232	17.59					
									24334	5483	394	10548: 13638	547: 13623	8	AC	130	FALSE	0	63.96	0.41	0	TRUE	394	63.96					
									18718	5482	108	17027: 13637	10548: 13638	8	AC	130	FALSE	0	-83.54	0.53	0	TRUE	108	83.54					
									31129	5481	709	10497: 13838	13547: 14264	8	AC	130	FALSE	0	209.45	1.34	0.001	TRUE	709	209.45					
									25565	5480	525	11697: 14055	9302: 14197	8	AC	130	FALSE	0	-16.82	0.11	0	TRUE	525	16.82					
									36057	5479	39	4987: 14086	11304: 14052	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	39	3.28					
									23815	5478	259	13172: 14053	11304: 14052	6	AC	130	FALSE	0	-63.47	0.72	0	TRUE	259	63.47					
									28065	5477	261	7525: 13853	4665: 14025	6	AC	130	FALSE	0	74.96	0.85	0.001	TRUE	261	74.96					
									22365	5476	250	9016: 13752	5778: 13900	8	AC	130	FALSE	0	34.88	0.22	0	TRUE	250	34.88					
									23587	5475	90	7525: 13853	12575: 13844	6	AC	130	FALSE	0	-128.97	1.46	0.002	TRUE	90	128.97					
									20543	5474	11	13030: 13760	7530: 13753	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	11	1.64					
									36411	5473	43	12846: 13730	15364: 13732	8	AC	130	FALSE	0	-1.64	0.01	0	TRUE	43	1.64					
									33369	5472	214	14593: 13731	1990: 13729	8	AC	130	FALSE	0	-1.64	0.01	0	TRUE	214	1.64					
									30224	5471	303	2333: 13720	1990: 13729	8	AC	130	FALSE	0	-66.21	0.42	0	TRUE	303	66.21					
									36056	5469	105	10570: 14651	13644: 14691	6	AC	130	FALSE	0	52.86	0.6	0	TRUE	105	52.86					
									19454	5467	256	5747: 14683	16960: 14544	8	AC	130	FALSE	0	-86.59	0.55	0	TRUE	256	86.59					
									22364	5466	297	3096: 14681	3853: 14682	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	297	3.28					
									23586	5465	333	1409: 14680	3183: 14678	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	333	3.28					
									20542	5464	256	621: 14677	14780: 14532	8	AC	130	FALSE	0	-99.28	0.63	0	TRUE	256	99.28					
									36410	5463	37	7236: 14671	8953: 14676	8	AC	130	FALSE	0	118.29	0.76	0	TRUE	37	118.29					
									30223	5461	134	8241: 14675	9442: 14603	6	AC	130	FALSE	0	-41.13	0.47	0	TRUE	134	41.13					
									27110	5460	26	416: 14667	7236: 14671	8	AC	130	FALSE	0	123.18	0.79	0	TRUE	26	123.18					
									31597	5459	98	3563: 14621	416: 14667	8	AC	130	FALSE	0	125.62	0.8	0	TRUE	98	125.62					
									29852	5457	63	6051: 14610	10570: 14651	6	AC	130	FALSE	0	57.75	0.66	0	TRUE	63	57.75					
									20544	5454	27	17512: 14611	3563: 14621	8	AC	130	FALSE	0	128.07	0.82	0	TRUE	27	128.07					
									33371	5452	24	12956: 14594	17512: 14611	8	AC	130	FALSE	0	130.51	0.83	0	TRUE	24	130.51					

									30226	5451	123	4662: 14525	6051: 14610	6	AC	130	FALSE	0	60.2	0.68	0	TRUE	123	60.2					
									27111	5450	24	9442: 14603	2666: 14589	6	AC	130	FALSE	0	-44.42	0.5	0	TRUE	24	44.42					
									31596	5449	112	13343: 14534	12956: 14594	8	AC	130	FALSE	0	135.4	0.86	0	TRUE	112	135.4					
									29851	5447	79	2666: 14589	1297: 14545	6	AC	130	FALSE	0	-46.06	0.52	0	TRUE	79	46.06					
									36412	5443	405	1297: 14545	16202: 14463	6	AC	130	FALSE	0	-47.7	0.54	0	TRUE	405	47.7					
									33370	5442	296	809: 14539	2656: 14543	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	296	3.28					
									36053	5439	336	16593: 14533	5930: 14535	6	AC	130	FALSE	0	4.93	0.06	0	TRUE	336	4.93					
									32959	5438	62	17231: 14530	14066: 14531	8	AC	130	FALSE	0	112.41	0.72	0	TRUE	62	112.41					
									29846	5437	218	1241: 14527	17231: 14530	8	AC	130	FALSE	0	163.65	1.04	0.001	TRUE	218	163.65					
									18059	5436	62	5425: 14526	1241: 14527	8	AC	130	FALSE	0	166.93	1.07	0.001	TRUE	62	166.93					
									20539	5434	198	9296: 14497	4662: 14525	6	AC	130	FALSE	0	62.64	0.71	0	TRUE	198	62.64					
									36052	5429	43	14598: 14499	9296: 14497	6	AC	130	FALSE	0	67.53	0.77	0.001	TRUE	43	67.53					
									32958	5428	191	16202: 14463	12955: 14494	6	AC	130	FALSE	0	-50.15	0.57	0	TRUE	191	50.15					
									29707	5426	70	5459: 14370	13168: 14453	12	AC	130	FALSE	0	416.66	1.18	0.001	TRUE	70	416.66					
									23583	5425	1,018	12741: 14409	6429: 14429	8	AC	130	FALSE	0	52.76	0.34	0	TRUE	1,018	52.76					
									20538	5424	4	12741: 14409	2974: 14408	8	AC	130	FALSE	0	-287.56	1.84	0.002	TRUE	4	287.56					
									36406	5423	126	8734: 14406	2974: 14408	12	AC	130	FALSE	0	157.03	0.45	0	TRUE	126	157.03					
									33364	5422	35	16200: 14393	1044: 14389	12	AC	130	FALSE	0	34.19	0.1	0	TRUE	35	34.19					
									30219	5421	500	14800: 13961	236: 14241	12	AC	130	FALSE	0	376.84	1.07	0	TRUE	500	376.84					
									33773	5418	252	519: 13911	12959: 14094	8	AC	130	FALSE	0	62.73	0.4	0	TRUE	252	62.73					
									20541	5414	4	10689: 13757	13002: 13756	6	AC	130	FALSE	0	20.22	0.23	0	TRUE	4	20.22					
									36409	5413	59	13002: 13756	12252: 13755	6	AC	130	FALSE	0	18.58	0.21	0	TRUE	59	18.58					
									33367	5412	254	12252: 13755	12443: 13639	6	AC	130	FALSE	0	-63.2	0.72	0	TRUE	254	63.2					
									30222	5411	82	12443: 13639	13857: 13634	6	AC	130	FALSE	0	8.62	0.1	0	TRUE	82	8.62					
									27109	5410	87	13857: 13634	15657: 13635	6	AC	130	FALSE	0	5.34	0.06	0	TRUE	87	5.34					
									23585	5405	476	14597: 13331	11125: 13463	6	AC	130	FALSE	0	16.38	0.19	0	TRUE	476	16.38					
									20540	5404	31	8570: 13457	7527: 13453	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	31	1.64					
									27822	5403	444	9266: 13450	528: 13211	12	AC	130	FALSE	0	-301.1	0.85	0	TRUE	444	301.1					
									33366	5402	197	8202: 13302	16836: 13418	10	AC	130	FALSE	0	161.67	0.66	0	TRUE	197	161.67					
									30221	5401	212	551: 13223	14597: 13331	6	AC	130	FALSE	0	170.44	1.93	0.003	TRUE	212	170.44					
									27108	5400	237	14596: 13231	5230: 13325	8	AC	130	FALSE	0	222.14	1.42	0.001	TRUE	237	222.14					
									29098	5399	158	2310: 13316	14048: 13318	8	AC	130	FALSE	0	155.67	0.99	0.001	TRUE	158	155.67					
									21251	5397	14	1611: 13315	2310: 13316	8	AC	130	FALSE	0	158.96	1.01	0.001	TRUE	14	158.96					
									18172	5396	46	1611: 13315	17311: 13314	8	AC	130	FALSE	0	-160.6	1.03	0.001	TRUE	46	160.6					
									34071	5395	477	11104: 13051	17311: 13314	6	AC	130	FALSE	0	77.69	0.88	0.001	TRUE	477	77.69					
									30933	5394	213	1569: 13189	11359: 13307	6	AC	130	FALSE	0	136.93	1.55	0.002	TRUE	213	136.93					
									27821	5393	196	10088: 13198	8202: 13302	10	AC	130	FALSE	0	176.62	0.72	0	TRUE	196	176.62					
									24720	5392	251	10691: 13157	14596: 13231	8	AC	130	FALSE	0	166.39	1.06	0.001	TRUE	251	166.39					
									18544	5390	382	14407: 13213	1254: 13212	6	AC	130	FALSE	0	75.49	0.86	0.001	TRUE	382	75.49					
									32497	5389	257	9120: 13039	1254: 13212	6	AC	130	FALSE	0	98.23	1.11	0.001	TRUE	257	98.23					
									25540	5388	2	528: 13211	16243: 13210	6	AC	130	FALSE	0	-381.52	4.33	0.012	TRUE	2	381.52					
									21250	5387	257	14621: 13043	16243: 13210	12	AC	130	FALSE	0	512.35	1.45	0.001	TRUE	257	512.35					
									18171	5386	87	5404: 13209	3543: 13208	8	AC	130	FALSE	0	125.9	0.8	0	TRUE	87	125.9					
									30932	5384	360	11130: 13163	12852: 12956	6	AC	130	FALSE	0	-64.68	0.73	0	TRUE	360	64.68					
									27820	5383	269	4955: 13008	10691: 13157	8	AC	130	FALSE	0	203.58	1.3	0.001	TRUE	269	203.58					
									24719	5382	336	9270: 13050	15808: 12896	6	AC	130	FALSE	0	-46.19	0.52	0	TRUE	336	46.19					
									18543	5380	251	17062: 12888	14621: 13043	12	AC	130	FALSE	0	585.5	1.66	0.001	TRUE	251	585.5					
									27444	5379	373	16432: 13040	742: 13041	6	AC	130	FALSE	0	-69.87	0.79	0.001	TRUE	373	69.87					
									24339	5378	157	1608: 13015	13859: 13034	6	AC	130	FALSE	0	41.95	0.48	0	TRUE	157	41.95					
									21257	5377	473	5349: 12886	13859: 13034	6	AC	130	FALSE	0	64.36	0.73	0	TRUE	473	64.36					
									32834	5376	125	4955: 13008	555: 12941	8	AC	130	FALSE	0	-252.46	1.61	0.001	TRUE	125	252.46					
									34079	5375	109	12852: 12956	1111: 12903	6	AC	130	FALSE	0	-71.98	0.82	0.001	TRUE	109	71.98					
									21487	5374	185	555: 12941	15104: 12832	8	AC	130	FALSE	0	-340.68	2.17	0.002	TRUE	185	340.68					
									27828	5373	106	10918: 12851	11413: 12897	8	AC	130	FALSE	0	179.44	1.15	0.001	TRUE	106	179.44					
									24726	5372	195	15484: 12735	17062: 12888	12	AC	130	FALSE	0	689.72	1.96	0.001	TRUE	195	689.72					
									21631	5371	362	12185: 12790	1035: 12787	12	AC	130	FALSE	0	4.93	0.01	0	TRUE	362	4.93					
									18550	5370	49	16582: 12750	10924: 12751	6	PVC	130	FALSE	0	18.48	0.21	0	TRUE	49	18.48					
									24338	5368	436	13697: 12734	5795: 12726	12	AC	130	FALSE	0	-44.99	0.13	0	TRUE	436	44.99					
									21256	5367	24	3153: 12724	12323: 12723	12	AC	130	FALSE	0	-341.22	0.97	0	TRUE	24	341.22					
									32833	5366	50	12323: 12723	3920: 12721	12	AC	130	FALSE	0	-273.57	0.78	0	TRUE	50	273.57					
									34078	5365	280	370: 12711	8007: 12702	12	AC	130	FALSE	0	-285.42	0.81	0	TRUE	280	285.42					
									26171	5364	269	8007: 12702	17217: 12700	12	AC	130	FALSE	0	-290.71	0.82	0	TRUE	269	290.71					
									27827	5363	25	17217: 12700	11815: 12699	12	AC	130	FALSE	0	-254.1	0.72	0	TRUE	25	254.1					
									24725	5362	206	10878: 12520	6465: 12650	6	AC	130	FALSE	0	54.30	0.62	0	TRUE	206	54.3					
									23387	5361	92	13897: 12564	16253: 12636	8	AC	130	FALSE	0	41.54	0.27	0	TRUE	92	41.54					
									18549	5360	451	4593: 12585	1033: 12587	6	AC	130	FALSE	0	88.54	1	0.001	TRUE	451	88.54					
									27446	5359	185	4593: 12585	14770: 12584	6	AC	130	FALSE	0	-91.82	1.04	0.001	TRUE	185	91.82					

Baseline	2,700 GPM						
Junction Properties							
ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
3603	6549	22	<None>	<Collection: 1 item>	14.77	181.2	69
4014	6553	23.7	<None>	<Collection: 1 item>	14.77	181.2	68.3
6713	6440	23.6	<None>	<Collection: 1 item>	14.77	181.3	68.4
7431	6551	21.9	<None>	<Collection: 1 item>	14.77	181.2	69.1
8683	6425	23.7	<None>	<Collection: 1 item>	14.77	181.3	68.3
8835	6437	23.1	<None>	<Collection: 1 item>	14.77	181.3	68.6
11006	6552	23.7	<None>	<Collection: 1 item>	14.77	181.2	68.3
67	3007	-5.6	<None>	<Collection: 1 item>	5.91	182	81.3
1710	3016	24.1	<None>	<Collection: 1 item>	5.91	181.9	68.4
1777	2845	21.8	<None>	<Collection: 1 item>	5.91	181.9	69.4
6537	3559	11.5	<None>	<Collection: 1 item>	5.91	183.7	74.7
6610	3015	24.3	<None>	<Collection: 1 item>	5.91	181.9	68.4
7634	3348	22.4	<None>	<Collection: 1 item>	5.91	183.7	69.9
9410	3132	23.2	<None>	<Collection: 1 item>	5.91	183.7	69.6
10235	3561	21.5	<None>	<Collection: 1 item>	5.91	183.7	70.3
10523	2709	25.1	<None>	<Collection: 1 item>	5.91	182.1	68.1
11377	2838	23.5	<None>	<Collection: 1 item>	5.91	182	68.7
12713	3320	23.1	<None>	<Collection: 1 item>	5.91	183.7	69.6
12899	3605	21.6	<None>	<Collection: 1 item>	5.91	183.7	70.3
13964	3562	16.4	<None>	<Collection: 1 item>	5.91	183.7	72.5
14500	2837	23.9	<None>	<Collection: 1 item>	5.91	182	68.5
17423	3560	21.6	<None>	<Collection: 1 item>	5.91	183.7	70.3
4560	6443	24	<None>	<Collection: 1 item>	4.77	181.3	68.2
6064	6121	22.3	<None>	<Collection: 1 item>	4.77	181.6	69
6498	6448	24	<None>	<Collection: 1 item>	4.77	181.3	68.2
7414	6353	24.4	<None>	<Collection: 1 item>	4.77	181.3	68.1
7418	6128	22.6	<None>	<Collection: 1 item>	4.77	181.5	68.9
8682	6120	22.4	<None>	<Collection: 1 item>	4.77	181.6	69
12548	6119	22.6	<None>	<Collection: 1 item>	4.77	181.5	68.9
15561	6104	23.7	<None>	<Collection: 1 item>	4.77	181.4	68.4
17163	5871	22	<None>	<Collection: 1 item>	4.77	181.4	69.1
17186	6352	25.4	<None>	<Collection: 1 item>	4.77	181.3	67.6
17503	5855	21.9	<None>	<Collection: 1 item>	4.77	181.4	69.1
662	6575	21	<None>	<Collection: 1 item>	3.38	181.2	69.4
2247	6743	22	<None>	<Collection: 1 item>	3.38	181.2	69
4078	6665	23.6	<None>	<Collection: 1 item>	3.38	181.2	68.3
5551	6652	22.1	<None>	<Collection: 1 item>	3.38	181.2	68.9
7154	6784	23.3	<None>	<Collection: 1 item>	3.38	180.5	68.1
7155	6744	22	<None>	<Collection: 1 item>	3.38	181.2	69
11522	6769	21.7	<None>	<Collection: 1 item>	3.38	181.2	69.1
16560	6768	22.1	<None>	<Collection: 1 item>	3.38	181.2	69
16782	6654	23.4	<None>	<Collection: 1 item>	3.38	181.2	68.4
6579	3607	21.5	<None>	<Collection: 1 item>	3.35	183.7	70.3
9314	5926	26.5	<None>	<Collection: 1 item>	3.3	184.2	68.4
10422	6646	-5.8	<None>	<Collection: 1 item>	3.3	180.8	80.9
13076	5718	19.8	<None>	<Collection: 1 item>	3.3	184.2	71.3
14848	5370	21.5	<None>	<Collection: 1 item>	3.3	181.5	69.4
14904	5937	26.5	<None>	<Collection: 1 item>	3.3	184.2	68.4
15014	5463	22.8	<None>	<Collection: 1 item>	3.3	181.5	68.8
16685	5129	21.4	<None>	<Collection: 1 item>	3.3	181.5	69.4
10821	4959	26.7	<None>	<Collection: 1 item>	2.96	183.8	68.1
12554	4558	-3.5	<None>	<Collection: 1 item>	2.96	181.8	80.3
13866	4644	26.7	<None>	<Collection: 1 item>	2.96	183.8	68.1
652	4792	26.7	<None>	<Collection: 1 item>	2.92	183.8	68.1
91	5321	21	<None>	<Collection: 1 item>	2.74	181.5	69.6
1841	6678	-3.5	<None>	<Collection: 1 item>	2.74	180.8	79.9
6459	6205	27.4	<None>	<Collection: 1 item>	2.74	184.3	68
9825	5538	26.5	<None>	<Collection: 1 item>	2.74	184.6	68.5
9863	6106	23.6	<None>	<Collection: 1 item>	2.74	184.3	69.7
10538	6008	22	<None>	<Collection: 1 item>	2.74	181.7	69.3
14192	5305	21	<None>	<Collection: 1 item>	2.74	181.5	69.6
16483	7047	6.5	<None>	<Collection: 1 item>	2.74	180.7	75.5
17433	5711	26.5	<None>	<Collection: 1 item>	2.74	184.2	68.4
17449	5575	25.1	<None>	<Collection: 1 item>	2.74	183.8	68.8
17059	3304	23.3	<None>	<Collection: 1 item>	2.67	183.7	69.5
1859	6599	21.6	<None>	<Collection: 1 item>	2.58	181.5	69.3
14571	6600	21.6	<None>	<Collection: 1 item>	2.58	181.5	69.3
3644	5544	28.3	<None>	<Collection: 1 item>	2.46	184.1	67.6
6499	6458	23.9	<None>	<Collection: 1 item>	2.46	182	68.6
13278	5607	11.1	<None>	<Collection: 1 item>	2.46	181.5	73.8
4280	3601	21.6	<None>	<Collection: 1 item>	2.43	183.7	70.3
12979	3276	22.9	<None>	<Collection: 1 item>	2.43	183.7	69.7
13960	3592	21.5	<None>	<Collection: 1 item>	2.43	183.7	70.3
2847	5509	29.1	<None>	<Collection: 1 item>	2.39	184.8	67.5
6360	5976	26.5	<None>	<Collection: 1 item>	2.39	185	68.7
8781	5991	26.5	<None>	<Collection: 1 item>	2.39	185	68.7
9229	5945	26.5	<None>	<Collection: 1 item>	2.39	185	68.7
9822	5508	28.4	<None>	<Collection: 1 item>	2.39	184.8	67.8
9880	5678	26.1	<None>	<Collection: 1 item>	2.39	184.9	68.8
11704	5939	26.5	<None>	<Collection: 1 item>	2.39	185	68.7
12127	5944	26.5	<None>	<Collection: 1 item>	2.39	185	68.7
12905	5714	25.8	<None>	<Collection: 1 item>	2.39	185	69
13239	5943	26.5	<None>	<Collection: 1 item>	2.39	185	68.7
13517	5677	26.1	<None>	<Collection: 1 item>	2.39	184.9	68.8
16520	5862	27.4	<None>	<Collection: 1 item>	2.39	185	68.4
17162	5861	26.8	<None>	<Collection: 1 item>	2.39	185	68.6
92	5331	22.5	<None>	<Collection: 1 item>	2.38	181.5	68.9
436	4802	-5.6	<None>	<Collection: 1 item>	2.38	181.7	81.2
647	6198	24.5	<None>	<Collection: 1 item>	2.38	184.3	69.3
651	4782	26.6	<None>	<Collection: 1 item>	2.38	183.8	68.2
938	5642	19	<None>	<Collection: 1 item>	2.38	181.5	70.4
953	5451	21.6	<None>	<Collection: 1 item>	2.38	181.5	69.4
954	5461	22.9	<None>	<Collection: 1 item>	2.38	181.5	68.8
1057	4831	24	<None>	<Collection: 1 item>	2.38	181.5	68.3
1190	4819	21.5	<None>	<Collection: 1 item>	2.38	181.6	69.4
1366	5195	23.7	<None>	<Collection: 1 item>	2.38	181.5	68.4
1509	5329	21.5	<None>	<Collection: 1 item>	2.38	181.5	69.4
1540	4563	21.5	<None>	<Collection: 1 item>	2.38	181.6	69.4
1689	5585	-3.5	<None>	<Collection: 1 item>	2.38	181.5	80.2
2034	5100	25.7	<None>	<Collection: 1 item>	2.38	183.8	68.5
2068	5335	25.5	<None>	<Collection: 1 item>	2.38	183.8	68.6
2257	5127	21	<None>	<Collection: 1 item>	2.38	181.5	69.6
2323	5314	21.4	<None>	<Collection: 1 item>	2.38	181.5	69.4
2554	5645	22.2	<None>	<Collection: 1 item>	2.38	181.5	69.1
2613	4808	21.5	<None>	<Collection: 1 item>	2.38	181.7	69.4
3284	5128	21	<None>	<Collection: 1 item>	2.38	181.5	69.6
3326	5653	22.2	<None>	<Collection: 1 item>	2.38	181.5	69.1
3330	5613	25.2	<None>	<Collection: 1 item>	2.38	183.8	68.8
3416	5096	24.1	<None>	<Collection: 1 item>	2.38	181.5	68.3
3423	5006	21.5	<None>	<Collection: 1 item>	2.38	181.5	69.4
3479	5586	-3.5	<None>	<Collection: 1 item>	2.38	181.5	80.2
3488	5536	28.3	<None>	<Collection: 1 item>	2.38	184.1	67.5
3649	6197	27.8	<None>	<Collection: 1 item>	2.38	184.3	67.8

Pipeline Properties															
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)	
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
17825	P519	104	6064: 6121	2781: J370	12		130	FALSE	0	-77.19	0.22	0	TRUE	101	77.19
35545	P517	16	2718: J366	1207: J368	12		130	FALSE	0	54.25	0.15	0	TRUE	13	54.25
27514	P511	132	2781: J370	1207: J368	12		130	FALSE	0	-36.12	0.1	0	TRUE	141	36.12
17824	P509	180	8134: J362	6064: 6121	12		130	FALSE	0	-28.17	0.08	0	TRUE	178	28.17
31357	P507	369	10326: 5652	8134: J362	12		130	FALSE	0	-78.53	0.22	0	TRUE	371	78.53
31293	P505	33	2780: J360	4552: 5452	12	AC	130	FALSE	0	-32.58	0.09	0	TRUE	34	32.58
33786	P503	61	6970: 5184	4233: J358	12	AC	130	FALSE	0	-25.42	0.07	0	TRUE	61	25.42
32820	P501	190	2717: J356	6970: 5184	12	AC	130	FALSE	0	-21.27	0.06	0	TRUE	191	21.27
20363	P499	142	15653: 4865	6143: J354	12	AC	130	FALSE	0	-10.57	0.03	0	TRUE	140	10.57
20907	P497	54	438: 4832	1624: J352	12	AC	130	FALSE	0	-5.66	0.02	0	TRUE	58	5.66
35027	P495	77	679: J350	7091: 4587	12	AC	130	FALSE	0	-9.97	0.03	0	TRUE	74	9.97
23608	P493	20	2993: J20	1205: J348	8		130	FALSE	0	16.74	0.11	0	TRUE	9	16.74
29843	P333	1,095	1872: 6434	8835: 6437	12		130	FALSE	0	-110.69	0.31	0	TRUE	1,095	110.69
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
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
38753	P-824	5	38748: J-527	38750: J-528	8	PVC	130	FALSE	0	0.87	0.01	0	FALSE	0	0.87
38752	P-823	13	38750: J-528	10326: 5652	8	AC	130	FALSE	0	-13.86	0.09	0	TRUE	13	13.86
38751	P-822	74	2554: 5645	38750: J-528	8	AC	130	FALSE	0	-14.73	0.09	0	TRUE	76	14.73
38749	P-821	4	38745: J-526	38748: J-527	8	PVC	130	FALSE	0	0.87	0.01	0	FALSE	0	0.87
38747	P-820	15	38745: J-526	10326: 5652	12	AC	130	FALSE	0	-37.89	0.11	0	TRUE	15	37.89
38746	P-819	271	4552: 5452	38745: J-526	12	AC	130	FALSE	0	-37.02	0.11	0	TRUE	272	37.02
38744	P-818	21	38742: J-525	553: 2686	12	PVC	130	FALSE	0	-453.73	1.29	0.001	FALSE	0	453.73
38743	P-817	63	3458: 2715	38742: J-525	12	PVC	130	FALSE	0	-453.73	1.29	0.001	FALSE	0	453.73
38741	P-816	80	2803: 2716	6940: 190516	24	SS	130	FALSE	0	0.00	0	0	FALSE	0	0
38740	P-815	68	15746: 6453	38737: J-524	8	AC	130	FALSE	0	196.92	1.26	0.001	FALSE	0	196.92
38739	P-814	44	38737: J-524	6144: J364	12		130	FALSE	0	215.05	0.61	0	TRUE	44	215.05
38738	P-813	28	1207: J368	38737: J-524	12		130	FALSE	0	18.13	0.05	0	TRUE	23	18.13
38735	P-811	26	38733: J-523	14504: 6520	8	AC	130	FALSE	0	386.19	2.46	0.003	TRUE	26	386.19
38734	P-810	5	7981: 6464	38733: J-523	8	AC	130	FALSE	0	-119.80	0.76	0	TRUE	5	119.8
38730	P-808	27	8831: WELL No. 9	38727: J-521	8	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0
38729	P-807	27	38727: J-521	8831: WELL No. 9	12	Steel	140	FALSE	0	0	0	0	TRUE	8	0
38728	P-806	7	37977: Well 9 FCV	38727: J-521	12	Steel	140	FALSE	0	0	0	0	TRUE	2	0
38071	P-423	55	38069: OC-9 FCV	9361: MWD OC-9	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0
38070	P-422	54	38068: OC-9 Reservoir	38069: OC-9 FCV	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0
37978	P-387	37	37976: Well 9 Reservoir	37977: Well 9 FCV	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0
37975	P-386	927	37973: J-297	8830: 6467	12	AC	130	FALSE	0	2,000.00	5.67	0.009	TRUE	927	2000
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
37972	P-384	65	37970: Well 5 FCV	8808: WELL No. 5	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0
37971	P-383	60	37969: Well 5 Reservoir	37970: Well 5 FCV	12	Steel	140	FALSE	0	0	0	0	TRUE	10	0
37265	P-168	25	37252: J-181	2718: J366	20	Ductile Iron	130	FALSE	0	-391.46	0.4	0	FALSE	0	391.46
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
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
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
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
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
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
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
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
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
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
37245	P-156	484	11872: 6527	37244: J-178	21	SS	130	FALSE	0	-1,285.68	1.19	0	TRUE	484	1285.68
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
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
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
33847	MWD OC-9 Outflow	56	6940: 190516	9361: MWD OC-9	24		130	FALSE	0	0	0	0	TRUE	56	0
26930	190823	2	16879: 7669	2041: 190836	6		130	FALSE	0	0	0	0	TRUE	2	0
26914	190821	189	14232: 7675	2041: 190836	8		130	FALSE	0	1.98	0.01	0	TRUE	189	1.98
29277	190819	128	9183: 7672	2041: 190836	8		130	FALSE	0	4.75	0.03	0	TRUE	128	4.75
24629	190817	41	11849: 7693	2041: 190836	6		180	FALSE	0	-6.73	0.08	0	TRUE	41	6.73
21429	190759	9	2205: 7387	11214: 7385	6		130	FALSE	0	-28.17	0.32	0	TRUE	9	28.17
32138	190713	110	5924: 6051	9657: 6016	8		130	FALSE	0	112.53	0.72	0	TRUE	110	112.53
19955	190711	149	11946: 5336	2068: 5335	8		130	FALSE	0	99.04	0.63	0	TRUE	149	99.04
36508	190709	113	6711: 5337	11946: 5336	8		130	FALSE	0	-42.66	0.27	0	TRUE	113	42.66
19587	18285	35	5292: 6472	7628: 6524	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	35	1.82
29886	18284	32	1683: 6471	4018: 6523	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	32	1.82
22137	18282	208	4715: 6516	647: 6198	8	AC	130	FALSE	0	79.24	0.51	0	TRUE	210	79.24
24366	18281	517	4715: 6516	16479: 6470	8	AC	130	FALSE	0	253.50	1.62	0.001	TRUE	518	253.5
34717	18280	9	10061: 6462	7981: 6464	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	9	1.82
20966	18279	11	15319: 6449	15821: 6465	6	AC	130	FALSE	0	0	0	0	TRUE	11	0
22206	18278	258	9813: 6195	7628: 6524	8	AC	130	FALSE	0	-44.36	0.28	0	TRUE	258	44.36
22853	18277	227	9861: 6166	16479: 6470	8	AC	130	FALSE	0	76.88	0.49	0	TRUE	227	76.88
32592	18276	12	3649: 6197	6459: 6205	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	12	2.74
35442	18275	527	9421: 5919	3649: 6197	8	AC	130	FALSE	0	-68.99	0.44	0	TRUE	527	68.99
26775	18274	205	9813: 6195	4396: 6200	6	AC	130	FALSE	0	1.82	0.02	0	TRUE	205	1.82
27708	18273	176	647: 6198	9863: 6106	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	176	2.74
19069	18272	13	4189: 6066	2049: 6072	8	AC	130	FALSE	0	1.82	0.01	0	TRUE	13	1.82
21286	18271	12	5924: 6051	4188: 6056	6	AC	130	FALSE	0	1.82	0.02	0	TRUE	12	1.82
35859	18269	10	2600: 6041	7603: 6035	6	AC	130	FALSE	0	0.00	0	0	TRUE	10	0
19130	18268	32	7603: 6035	762: 6037	8	AC	130	FALSE	0	-40.72	0.26	0	TRUE	32	40.72
19050	18266	106	13273: 6034	11704: 5939	8	AC	130	FALSE	0	11.94	0.08	0	TRUE	106	11.94
24615	18263	7	4193: 6026	2053: 6032	6	AC	130	FALSE	0	0	0	0	TRUE	7	0
34969	18262	12	1022: 5990	9068: 5992	6	AC	130	FALSE	0	0	0	0	TRUE	12	0
18208	18261	9	6360: 5976	8781: 5991	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	9	2.39
28486	18260	234	6125: 5769	2373: 5947	8	AC	130	FALSE	0	1.35	0.01	0	TRUE	234	1.35
32784	18259	7	12127: 5944	9229: 5945	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	7	2.39
35028	18258	18	11704: 5939	13239: 5943	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	18	2.39
35684	18257	109	11704: 5939	16520: 5862	8	AC	130	FALSE	0	7.16	0.05	0	TRUE	109	7.16
33684	18256	101	9314: 5926	14903: 5927	6	AC	130	FALSE	0	1.35	0.02	0	TRUE	101	1.35
29234	18255	15	9314: 5926	14904: 5937	6	AC	130	FALSE	0	3.3	0.04	0	TRUE	15	3.3
21472	18254	14	13082: 5920	7765: 5933	6	AC	130	FALSE	0	2.38	0.03	0	TRUE	14	2.38
21534	18253	356	13082: 5920	9314: 5926	6	AC	130	FALSE	0	7.95	0.09	0	TRUE	356	7.95
31838	18252	251	5839: 5705	9421: 5919	8	AC	130	FALSE	0	-53.9	0.34	0	TRUE	251	53.9
34112	18251	15	17162: 5861	16520: 5862	6	AC	130	FALSE	0	-2.39	0.03	0	TRUE	15	2.39
29643	18249	9	6125: 5769	8799: 5770	6	AC	130	FALSE	0	1.35	0.02	0	TRUE	9	1.35
31901	18248	257	3330: 5613	8347: 5803	8	AC	130	FALSE	0	76.88	0.49	0	TRUE	257	76.88
32600	18247	259	16520: 5862	12905: 5714	8	AC	130	FALSE	0	2.39	0.02	0	TRUE	259	2.39
23922	18246	15	4234: 5706	13076: 5718	6	AC	130	FALSE	0	3.3	0.04	0	TRUE	15	3.3
26122	18245	386	4234: 5706	17433: 5711	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	386	2.74
36468	18244	12	13517: 5677	9880: 5678	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	12	2.39
18447	18243	246	13517: 5677	9822: 5508	8	AC	130	FALSE	0	127	0.81	0	TRUE	246	127
29433	18241	13	5922: 5574	17449: 5575	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	13	2.74
22271	18240	342	2850: 5539	6125: 5769	8	AC	130	FALSE	0	4.04	0.03	0	TRUE	342	4.04
26561	18239	16	9825: 5538	12965: 5549	6	AC	130	FALSE	0	1.86	0.02	0	TRUE	16	1.86
28763	18238	12	3488: 5536	3644: 5544	6	AC	130	FALSE	0	2.46	0.03	0	TRUE	12	2.46
29471	18237	321	3488: 5536	5839: 5705	6	AC	130	FALSE	0	-43.10	0.49	0	TRUE	321	43.1
20851	18236	64	3485: 5506	2850: 5539	8	AC	130	FALSE	0	118.19	0.75	0	TRUE	64	118.19
22999	18235	457	13986: 5507	7020: 5824	8	AC	130	FALSE	0	1.35	0.01	0	TRUE	457	1.35
33408	18234	10	3485: 5506	2848: 5519	6	AC	130	FALSE	0	1.35	0.02	0	TRUE	10	1.35
34360	18233	43	9822: 5508	2847: 5509	8	AC	130	FALSE	0	2.39	0.02	0	TRUE	43	2.39
25604	18232	42	13986: 5507	9822: 5508	8	AC	130	FALSE	0	-122.22	0.78	0	TRUE	42	122.22
19187	18230	158	2068: 5335	12908: 5434	8	AC	130	FALSE	0	86.46	0.55	0	TRUE	158	86.46
25678	18228	523	11946: 5336	9928: 5537	8	AC	130	FALSE	0	-144.08	0.92	0.001	TRUE	523	144.08

Pressure	
Average	70.5395
Minimum	59.4
Maximum	81.3
Velocity	
Average	0.34295
Minimum	0
Maximum	5.67
Flow	
Average	119.673
Minimum	0
Maximum	4185.46

3957	4915	24.8	<None>	<Collection: 1 item>	2.38	181.5	67.9		19978	18225	12	3822: 5292	9231: 5286	8	AC	130	FALSE	0	38.58	0.25	0	TRUE	12	38.58				
4234	5706	20	<None>	<Collection: 1 item>	2.38	184.2	71.2		30280	18224	12	5755: 5285	9231: 5286	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	12	2.38				
4553	5462	22.8	<None>	<Collection: 1 item>	2.38	181.5	68.8		22494	18222	12	9052: 5203	1490: 5205	6	AC	130	FALSE	0	1.4	0.02	0	TRUE	12	1.4				
4617	5094	23.1	<None>	<Collection: 1 item>	2.38	181.5	68.7		24751	18221	559	9231: 5286	14453: 4952	8	AC	130	FALSE	0	33.82	0.22	0	TRUE	559	33.82				
4827	5681	-3.5	<None>	<Collection: 1 item>	2.38	181.5	80.2		35099	18220	195	2034: 5100	9052: 5203	8	AC	130	FALSE	0	-4.06	0.03	0	TRUE	195	4.06				
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5149	4574	26.7	<None>	<Collection: 1 item>	2.38	183.8	68.1		33656	18216	473	7368: 4953	3953: 4955	8	AC	130	FALSE	0	2.07	0.01	0	TRUE	473	2.07				
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5500	4642	25.9	<None>	<Collection: 1 item>	2.38	181.5	67.5		28091	18213	260	14453: 4952	651: 4782	8	AC	130	FALSE	0	24.04	0.15	0	TRUE	260	24.04				
5705	5328	21.4	<None>	<Collection: 1 item>	2.38	181.5	69.4		21655	18211	13	12543: 4783	652: 4792	6	AC	130	FALSE	0	2.92	0.03	0	TRUE	13	2.92				
5755	5285	26.6	<None>	<Collection: 1 item>	2.38	183.9	68.2		31954	18210	255	12543: 4783	7568: 4786	8	AC	130	FALSE	0	2.38	0.02	0	TRUE	255	2.38				
5839	5705	17.7	<None>	<Collection: 1 item>	2.38	184.2	72.2		36214	18209	259	13866: 4644	14025: 4788	8	AC	130	FALSE	0	6.86	0.04	0	TRUE	259	6.86				
5922	5574	25.2	<None>	<Collection: 1 item>	2.38	183.8	68.8		20204	18207	12	5149: 4574	9351: 4576	6	AC	130	FALSE	0	1.77	0.02	0	TRUE	12	1.77				
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6633	4821	22.5	<None>	<Collection: 1 item>	2.38	181.6	69		26652	16974	15	3355: 7624	13864: 7625	6	AC	130	FALSE	0	-1.89	0.02	0	TRUE	15	1.89				
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8542	4862	21.8	<None>	<Collection: 1 item>	2.38	181.6	69.3		32457	16947	61	12025: 7641	14232: 7675	6	AC	130	FALSE	0	-11.44	0.13	0	TRUE	61	11.44				
8632	6430	22.2	<None>	<Collection: 1 item>	2.38	181.6	69.1		23745	16946	58	1662: 7640	9183: 7672	6	AC	130	FALSE	0	-11.26	0.13	0	TRUE	58	11.26				
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9421	5919	13	<None>	<Collection: 1 item>	2.38	184.2	74.3		26391	16939	14	6110: 7556	10416: 7557	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	14	1.89				
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									34957	4891	161	7634: 3348	2789: 3346	8	AC	130	FALSE	0	-22.09	0.14	0	TRUE	161	22.09												
									21007	4890	63	2789: 3346	11381: 3345	8	AC	130	FALSE	0	-17.72	0.11	0	TRUE	63	17.72												
									22469	4889	466	7467: 3618	7609: 3609	8	AC	130	FALSE	0	-4.33	0.03	0	TRUE	466	4.33												
									20987	4888	9	7609: 3609	4280: 3601	8	AC	130	FALSE	0	-12.01	0.08	0	TRUE	9	12.01												
									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												
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									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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									24061	4869	131	4157: 2987	14424: 2941	8	AC	130	FALSE	0	1.03	0.01	0	TRUE	131	1.03												
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									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					
1506	6092	1.5	<None>	<Collection: 1 item>	4.09	179.6	77.2		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	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					
6292	7005	6.5	<None>	<Collection: 1 item>	4.09	179.6	75		32380	13158	17	16316: 7737	13883: 7743	6	AC	130	FALSE	0	-1.72	0.02	0	TRUE	17	1.72					
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					
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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					
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620	7163	1.5	<None>	<Collection: 1 item>	2.38	179.3	77.1		29784	12886	404	6395: 4467	8725: 4739	6	AC	130	FALSE	0	61.47	0.7	0	TRUE	404	61.47					
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									34524	2164	67	13246: 5550	2372: 5591	6	AC	130	FALSE	0	-5.48	0.06	0	TRUE	67	5.48					
									25715	2162	256	12967: 5569	13984: 5567	8	AC	130	FALSE	0	-40.94	0.26	0	TRUE	256	40.94					
									35952	2160	532	9823: 5518	532: 5181	8	AC	130	FALSE	0	-63.9	0.41	0	TRUE	532	63.9					
									25644	2159	248	955: 5401	12967: 5569	8	AC	130	FALSE	0	127.48	0.81	0	TRUE	248	127.48					
									35347	2156	38	2033: 5170	3211: 5171	6	AC	130	FALSE	0	8.83	0.1	0	TRUE	38	8.83					
									32220	2155	39	9747: 5048	2788: 5049	6	AC	130	FALSE	0	6.52	0.07	0	TRUE	39	6.52					
									34527	2154	256	431: 4892	2788: 5049	6	AC	130	FALSE	0	44.01	0.5	0	TRUE	256	44.01					
									25980	2153	257	4618: 5044	16168: 4883	8	AC	130	FALSE	0	-109.61	0.7	0	TRUE	257	109.61					
									25718	2152	270	7652: 4936	16535: 5015	8	AC	130	FALSE	0	-11	0.07	0	TRUE	270	11					
									35955	2150	60	4622: 5014	7290: 5013	8	AC	130	FALSE	0	-16.93	0.11	0	TRUE	60	16.93					
									22523	2148	39	4998: 4891	431: 4892	6	AC	130	FALSE	0	17.55	0.2	0	TRUE	39	17.55					
									19448	2147	40	5913: 4869	13375: 4870	6	AC	130	FALSE	0	48.55	0.55	0	TRUE	40	48.55					
									34526	2144	59	659: 4702	655: 4742	8	AC	130	FALSE	0	-5.62	0.04	0	TRUE	59	5.62					
									30126	2143	40	10971: 4724	3965: 4725	6	AC	130	FALSE	0	40.31	0.46	0	TRUE	40	40.31					
									25717	2142	352	1313: 4721	1541: 4503	8	AC	130	FALSE	0	-182.26	1.16	0.001	TRUE	352	182.26					
									21367	2141	58	12041: 4600	1136: 4599	6	AC	130	FALSE	0	-48.58	0.55	0	TRUE	58	48.58					
									25638	2139	267	16834: 4454	16652: 4461	12	AC	130	FALSE	0	-89.87	0.25	0	TRUE	267	89.87					
									22518	2138	69	16652: 4461	9874: 4460	12	AC	130	FALSE	0	-194.09	0.55	0	TRUE	69	194.09					
									19443	2137	366	9662: 4455	16651: 4451	12	AC	130	FALSE	0	-163.28	0.46	0	TRUE	366	163.28					
									35341	2136	433	6393: 4447	9662: 4455	12	AC	130	FALSE	0	-192.49	0.55	0	TRUE	433	192.49					
									19906	2135	71	13226: 4453	16834: 4454	12	AC	130	FALSE	0	-86.32	0.24	0	TRUE	71	86.32					
									34521	2134	176	3310: 4452	13226: 4453	12	AC	130	FALSE	0	-170.37	0.48	0	TRUE	176	170.37					
									30122	2133	47	16651: 4451	3310: 4452	12	AC	130	FALSE	0	-166.82	0.47	0	TRUE	47	166.82					
									25712	2132	94	5375: 4373	9661: 4445	6	AC	130	FALSE	0	56.66	0.64	0	TRUE	94	56.66					
									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											
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										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 Williams-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!					
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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!					
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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					
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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					
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3967	J290	8	<None>	<Collection: 1 item>	3.1	172.1	71.1		29392	20765	11	14378: 18230	9914: 18231	6	AC	130	FALSE	0	2.71	0.03	0	TRUE	11	2.71					
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5578	18069	1.7	<None>	<Collection: 1 item>	1.94	170.5	73.2		18521	20015	260	2965: 18634	9062: 18653	6	AC	130	FALSE	0	13.58	0.15	0	TRUE	260	13.58					
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8770	17876	2.1	<None>	<Collection: 1 item>	1.94	170.6	73		36119	19994	382	13460: 18613	16307: 18611	6	AC	130	FALSE	0	-25.6	0.29	0	TRUE	382	25.6					
9154	17959	4.1	<None>	<Collection: 1 item>	1.94	170.8	72.3		21925	19990	250	14888: 18616	4378: 18601	8	AC	130	FALSE	0	8.87	0.06	0	TRUE	250	8.87					
9367	17828	1.5	<None>	<Collection: 1 item>	1.94	170.5	73.3		25601	19989	31	2939: 18606	6627: 18607	6	AC	130	FALSE	0	0	0	0	TRUE	31	0					
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12289	17960	4.4	<None>	<Collection: 1 item>	1.94	170.8	72.1		32494	19971	12	4341: 18567	5575: 18569	6	AC	130	FALSE	0	0	0	0	TRUE	12	0					
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14313	17955	1.5	<None>	<Collection: 1 item>	1.94	170.5	73.3		19852	19957	25	13658: 18537	10883: 18550	6	AC	130	FALSE	0	0.42	0	0	TRUE	25	0.42					
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14473	18064	1.5	<None>	<Collection: 1 item>	1.94	170.5	73.3		32400	19955	419	11840: 18536	17437: 18582	8	AC	130	FALSE	0	-43.79	0.28	0	TRUE	419	43.79					
14540	17895	5.5	<None>	<Collection: 1 item>	1.94	170.8	71.7		23692	19954	462	10633: 18595	9221: 18534	6	AC	130	FALSE	0	-26.81	0.3	0	TRUE	462	26.81					
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15180	18079	1.5	<None>	<Collection: 1 item>	1.94	170.5	73.3		28522	19950	141	693: 18525	14585: 18560	8	AC	130	FALSE	0	37.28	0.24	0	TRUE	141	37.28					
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16415	17933	1.5	<None>	<Collection: 1 item>	1.94	170.5	73.3		27057	19946	22	2224: 18505	7444: 18499	6	AC	130	FALSE	0	-1.9	0.02	0	TRUE	22	1.9					
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1315	18409	1.4	<None>	<Collection: 1 item>	1.91	170	73.1		31925	19938	316	7319: 18512	3402: 18513	6	AC	130	FALSE	0	0.42	0	0	TRUE	316	0.42					
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747	17942	1.5	<None>	<Collection: 1 item>	1.9	170.5	73.3		20875	19926	12	6047: 18413	7615: 18414	6	AC	130	FALSE	0	0.42	0	0	TRUE	12	0.42					
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2707	18530	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		35882	19905	48	11054: 18535	7616: 18514	6	AC	130	FALSE	0	0	0	0	TRUE	48	0					

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3130	18471	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		19451	19902	135	6271: 18503	1418: 18526	8	AC	130	FALSE	0	62.31	0.4	0	TRUE	135	62.31					
3623	18473	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		29775	19901	759	16382: 18424	8517: 18519	12	AC	130	FALSE	0	119.48	0.34	0	TRUE	759	119.48					
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3871	18620	1.5	<None>	<Collection: 1 item>	1.9	170	73		29291	19899	313	13952: 18490	2938: 18506	6	AC	130	FALSE	0	8.65	0.1	0	TRUE	313	8.65					
4063	17885	1.5	<None>	<Collection: 1 item>	1.9	170.6	73.3		31559	19898	60	1349: 18488	2938: 18506	6	AC	130	FALSE	0	-0.85	0.01	0	TRUE	60	0.85					
4072	18605	1.5	<None>	<Collection: 1 item>	1.9	170	73		32242	19897	17	14507: 18489	13952: 18490	6	AC	130	FALSE	0	-0.42	0	0	TRUE	17	0.42					
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4376	18401	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		25791	19895	63	302: 18485	6767: 18504	8	AC	130	FALSE	0	25.53	0.16	0	TRUE	63	25.53					
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4810	18106	1.9	<None>	<Collection: 1 item>	1.9	170.3	73		18101	19893	17	302: 18485	1002: 18486	6	AC	130	FALSE	0	0.42	0	0	TRUE	17	0.42					
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5574	18469	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		19735	19891	36	16700: 18481	17436: 18482	6	AC	130	FALSE	0	-0.42	0	0	TRUE	36	0.42					
5976	18454	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		26189	19889	494	13952: 18490	16887: 18445	6	AC	130	FALSE	0	-9.5	0.11	0	TRUE	494	9.5					
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6630	18107	1.9	<None>	<Collection: 1 item>	1.9	170.3	73		33044	19884	16	11053: 18435	11839: 18436	6	AC	130	FALSE	0	0.42	0	0	TRUE	16	0.42					
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6644	18451	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		25300	19882	15	3107: 18427	1755: 18428	6	AC	130	FALSE	0	0.42	0	0	TRUE	15	0.42					
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6766	18404	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		18869	19880	101	7066: 18418	9792: 18417	6	AC	130	FALSE	0	-5.98	0.07	0	TRUE	101	5.98					
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7306	18500	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		25354	19878	196	2223: 18405	1206: 18406	6	AC	130	FALSE	0	-14.6	0.17	0	TRUE	196	14.6					
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7444	18499	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		33849	19875	16	5027: 18376	1717: 18383	6	AC	130	FALSE	0	0.42	0	0	TRUE	16	0.42					
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7656	18455	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		30847	19873	488	2495: 18374	3466: 18380	6	AC	130	FALSE	0	-0.42	0	0	TRUE	488	0.42					
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8518	18619	7	<None>	<Collection: 1 item>	1.9	170	70.7		34758	19870	22	11786: 18349	5499: 18350	6	AC	130	FALSE	0	-0.42	0	0	TRUE	22	0.42					
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9515	18191	3	<None>	<Collection: 1 item>	1.9	170.2	72.5		31286	19854	130	1716: 18283	307: 18285	8	AC	130	FALSE	0	22.2	0.14	0	TRUE	130	22.2					
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11380	18596	1.5	<None>	<Collection: 1 item>	1.9	170	73.1		35260	19835	28	14552: 18215	8488: 18223	6	AC	130	FALSE	0	-0.42	0	0	TRUE	28	0.42					
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12844	18363	1.3	<None>	<Collection: 1 item>	1.9	170	73.1		26416	19817	15	8265: 18168	5579: 18169	6	AC	130	FALSE	0	-0.42	0	0	TRUE	15	0.42					
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2732	17609	1.4	<None>	<Collection: 1 item>	1.67	170.8	73.4		28793	19728	627	9153: 17859	13670: 17865	8	AC	130	FALSE	0	30.33	0.19	0	TRUE	627	30.33					
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3337	17417	1.5	<None>	<Collection: 1 item>	1.67	171.2	73.6		35992	19721	6	2719: 17833	13162: 17834	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	6	1.94					
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1230	17480	1.5	<None>	<Collection: 1 item>	1.64	170.8	73.4		35498	19065	12	3113: 18327	11060: 18335	6	AC	130	FALSE	0	1.9	0.02	0	TRUE	12	1.9					
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2282	17484	1.5	<None>	<Collection: 1 item>	1.64	170.8	73.4		26268	19051	91	3034: 18361	12844: 18363	12	AC	130	FALSE	0	194.52	0.55	0	TRUE	91	194.52					
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3689	18002	1.3	<None>	<Collection: 1 item>	1.64	170.6	73.4		19233	19020	177	2429: 17945	1822: 17946	6	PVC	130	FALSE	0	1.9	0.02	0	TRUE	177	1.9					
3777	17744	1.5	<None>	<Collection: 1 item>	1.64	171	73.5		23444	19019	163	4063: 17885	2278: 17884	6	PVC	130	FALSE	0	1.9	0.02	0	TRUE	163	1.9					
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3931	16822	1.5	<None>	<Collection: 1 item>	1.64	171.6	73.8		17793	19016	12	11843: 18136	13662: 18137	6	AC	130	FALSE	0	1.9	0.02	0	TRUE	12	1.9					
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4241	17819	-0.1	<None>	<Collection: 1 item>	1.64	170.6	74		22532	19012	135	8558: 17906	2729: 17909	6	AC	130	FALSE	0	17.11	0.19	0	TRUE	135	17.11					
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4521	17125	3.1	<None>	<Collection: 1 item>	1.64	171.4	73		33700	19006	12	8851: 18194	8655: 18199	6	AC	130	FALSE	0	1.9	0.02	0	TRUE	12	1.9					
4523	17325	1.5	<None>	<Collection: 1 item>	1.64	170.8	73.4		35887	19005	54	8851: 18194	10636: 18195	6	AC	130	FALSE	0	0.23	0	0	TRUE	54	0.23					
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4799	17886	1.5	<None>	<Collection: 1 item>	1.64	170.8	73.4		28125	19003	504	9515: 18191	8851: 18194	6	AC	130	FALSE	0	4.03	0.05	0	TRUE	504	4.03					
4802	17486	6	<None>	<Collection: 1 item>	1.64	170.8	71.5		29781	19001	516	11983: 18164	11784: 18149	8	AC	130	FALSE	0	-5.71	0.04	0	TRUE	516	5.71					
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42	17041	1.5	<None>	<Collection: 1 item>	1.48	172	73.9		35687	18157	33	4799: 17886	6618: 17887	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	33	1.64					
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2356	16843	1.5	<None>	<Collection: 1 item>	1.48	172.7	74.2		26375	18127	165	15399: 17752	15256: 17796	8	AC	130	FALSE	0	67.64	0.43	0	TRUE	165	67.64					
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304	18685	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		30148	16524	377	16017: 17193	6602: 17197	6	AC	130	FALSE	0	5.97	0.07	0	TRUE	377	5.97					
306	18185	4.9	<None>	<Collection: 1 item>	0.42	170.5	71.8		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	170.4	73.1		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	170.3	73.2		32714	16521	363	14548: 17295	2851: 190740	8	AC	130	FALSE	0	12.71	0.08	0	TRUE	389	12.71					
335	18410	2.4	<None>	<Collection: 1 item>	0.42	170.4	72.8		17850	16520	204	15735: 17108	16436: 17207	8	AC	130	FALSE	0	-32.52	0.21	0	TRUE	204	32.52					
336	18510	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		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	170.5	73.3		30541	16518	93	2724: 17033	16638: 17107	8	AC	130	FALSE	0	7.13	0.05	0	TRUE	93	7.13					
353	18422	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		23107	16517	691	6601: 17097	8094: 17450	12	AC	130	FALSE	0	47.09	0.13	0	TRUE	691	47.09					
358	18222	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		33525	16516	106	9933: 17024	16347: 17104	12	AC	130	FALSE	0	-8.07	0.02	0	TRUE	106	8.07					
399	18167	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		24789	16515	112	8777: 17076	11929: 17169	6	AC	130	FALSE	0	56.84	0.64	0	TRUE	112	56.84					
476	18442	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		39139	16514(2)	269	39137: J-671	15923: 17066	12	AC	130	FALSE	0	286.86	0.81	0	TRUE	269	286.86					
477	18542	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		39138	16514(1)	192	8777: 17076	39137: J-671	12	AC	130	FALSE	0	187.87	0.53	0	TRUE	192	187.87					
516	18440	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		27973	16513	397	15259: 17296	2381: 190738	8	PVC	130	FALSE	0	-3.7	0.02	0	TRUE	429	3.7					
517	18540	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		19298	16512	25	9159: 17059	8058: 17075	6	AC	130	FALSE	0	-2.47	0.03	0	TRUE	25	2.47					
602	18429	5	<None>	<Collection: 1 item>	0.42	170.4	71.7		30382	16506	48	2724: 17033	13258: 17034	6	AC	130	FALSE	0	2.47	0.03	0	TRUE	48	2.47					
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					
692	18425	5	<None>	<Collection: 1 item>	0.42	170.4	71.7		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	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					
778	18144	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		21190	16498	32	4682: 16979	14006: 16992	6	AC	130	FALSE	0	-2.47	0.03	0	TRUE	32	2.47					
852	18109	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		28951	16497	286	2888: 16988	13312: 16991	8	AC	130	FALSE	0	29.63	0.19	0	TRUE	286	29.63					
853	18209	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		20313	16496	88	6445: 16987	2888: 16988	8	AC	130	FALSE	0	44.16	0.28	0	TRUE	88	44.16					
884	17915	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		30624	16495	268	3860: 16985	4601: 16986	8	AC	130	FALSE	0	56.5	0.36	0	TRUE	268	56.5					
1002	18486	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		32891	16494	32	6193: 16974	6445: 16987	6	AC	130	FALSE	0	-2.47	0.03	0	TRUE	32	2.47					
1003	18586	20	<None>	<Collection: 1 item>	0.42	170.2	65.1		25120	16492	45	5082: 16970	15826: 16993	6	AC	130	FALSE	0	-12.34	0.14	0	TRUE	45	12.34					
1006	18186	5.6	<None>	<Collection: 1 item>	0.42	170.5	71.5		35393	16491	30	5082: 16970	6885: 16971	6	AC	130	FALSE	0	2.47	0.03	0	TRUE	30	2.47					
1007	18286	1.7	<None>	<Collection: 1 item>	0.42	170.4	73.1		26742	16490	331	1060: 16838	4601: 16986	6	AC	130	FALSE	0	-4.94	0.06	0	TRUE	331	4.94					
1130	18232	1.6	<None>	<Collection: 1 item>	0.42	170.5	73.2		36107	16489	270	13905: 16861	3860: 16985	8	AC	130	FALSE	0	66.38	0.42	0	TRUE	270	66.38					
1131	18332	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		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	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					
1227	17880	4.4	<None>	<Collection: 1 item>	0.42	170.6	72		33111	16476	119	14644: 16862	8393: 16806	6	AC	130	FALSE	0	2.47	0.03	0	TRUE	119	2.47					
1228	17980	1.3	<None>	<Collection: 1 item>	0.42	170.7	73.4		31284	6958	102	6616: 18547	5977: 18554	6	AC	130	FALSE	0	32.11	0.36	0	TRUE	102	32.11					
1229	18419	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		28557	6957	7	6616: 18547	12985: 18544	16	AC	130	FALSE	0	-292.03	0.47	0	TRUE	7	292.03					
1349	18488	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		25471	6956	17	6645: 18551	6616: 18547	16	AC	130	FALSE	0	-259.92	0.41	0	TRUE	17	259.92					
1351	18688	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		22348	6955	31	12985: 18544	1126: 18532	12	AC	130	FALSE	0	30.88	0.09	0	TRUE	31	30.88					
1355	18288	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		19280	6954	394	6825: 18477	12200: 18438	8	AC	130	FALSE	0	10.1	0.06	0	TRUE	394	10.1					
1417	18426	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		35176	6953	447	6313: 18415	10219: 18463	8	AC	130	FALSE	0	25.61	0.16	0	TRUE	447	25.61					
1418	18526	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		32043	6952	630	10890: 18434	6236: 18359	16	AC	130	FALSE	0	-382.45	0.61	0	TRUE	630	382.45					
1422	18226	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		28907	6951	130	692: 18425	6313: 18415	8	AC	130	FALSE	0	58.69	0.37	0	TRUE	130	58.69					
1619	17916	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		25807	6950	379	17469: 18379	6313: 18415	8	AC	130	FALSE	0	-32.66	0.21	0	TRUE	379	32.66					
1711	18483	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		17989	6949	291	2667: 18388	335: 18410	8	AC	130	FALSE	0	-2.65	0.02	0	TRUE	291	2.65					
1712	18583	20	<None>	<Collection: 1 item>	0.42	170.1	65.1		31283	6948	314	9517: 18391	17004: 18339	8	AC	130	FALSE	0	-8.87	0.06	0	TRUE	314	8.87					
1715	18183	6.1	<None>	<Collection: 1 item>	0.42	170.5	71.3		28556	6947	43	3466: 18380	2667: 18388	8	AC	130	FALSE	0	-1.8	0.01	0	TRUE	43	1.8					
1716	18283	2.2	<None>	<Collection: 1 item>	0.42	170.4	73		19962	6946	34	6236: 18359	3994: 18342	16	AC	130	FALSE	0	-412.28	0.66	0	TRUE	34	412.28					
1717	18383	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		22347	6945	137	12699: 18354	9066: 18353	8	AC	130	FALSE	0	0.68	0	0	TRUE	137	0.68					
1733	18166	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		19279	6944	35	9066: 18353	7323: 18352	8	AC	130	FALSE	0	-3.13	0.02	0	TRUE	35	3.13					
1755	18428	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		35175	6943	103	7323: 18352	6651: 18351	8	AC	130	FALSE	0	-9.04	0.06	0	TRUE	103	9.04					
1760	18228	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.3		28906	6941	16	7948: 18346	6651: 18351	6	AC	130	FALSE	0	-5.06	0.06	0	TRUE	16	5.06					
1940	18292	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		25806	6940	28	5830: 18278	4297: 18275	16	AC	130	FALSE	0	-420.75	0.67	0	TRUE	28	420.75					
2223	18405	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		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	170.6	73.5		21956	6938	18	4297: 18275	5580: 18269	16	AC	130	FALSE	0	-424.16	0.68	0	TRUE	18	424.16					
2495	18374	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.2		19960	6936	206	5580: 18269	7291: 18268	8	AC	130	FALSE	0	56.15	0.36	0	TRUE	206	56.15					
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					
2667	18388	2.1	<None>	<Collection: 1 item>	0.42	170.4	72.9		27578	6934	195	7291: 18268	8257: 18267	8	AC	130	FALSE	0	52.74	0.34	0	TRUE	195	52.74					
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					
2740	18287	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		22861	6930	143	9448: 18264	10222: 18263	8	AC	130	FALSE	0	35.69	0.23	0	TRUE	143	35.69					
2741	18387	2.1	<None>	<Collection: 1 item>	0.42	170.4	73		26337	6929	117	10222: 18263	11672: 18262	8	AC	130	FALSE	0	32.28	0.21	0	TRUE	117	32.28					
2912	17879	4.3	<None>	<Collection: 1 item>	0.42	170.6	72.1		21955	6928	210	3764: 18248	13430: 18247	8	AC	130	FALSE	0	14.18	0.09	0	TRUE	210	14.18					
2913	17979	1.3	<None>	<Collection: 1 item>	0.42	170.7	73.4		19959	6926	22	13430: 18247	507: 18246	8	AC	130	FALSE	0	9.46	0.06	0	TRUE	22	9.46					
2938	18506	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		27577	6924	177	14760: 18245	16977: 18243	8	AC	130	FALSE	0	-4.69	0.03	0	TRUE	177	4.69					
2953	18201	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		17986	6919	393	6234: 18159	14378: 18230	8	AC	130	FALSE	0	22.76	0.15	0	TRUE	393	22.76					
2954	18301	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		31280	6918	389	16236: 18143	853: 18209	8	AC	130	FALSE	0	49.62	0.32	0	TRUE	389	49.62					
2965	18634	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		32040	6912	127	2377: 18156	15181: 18179	16	AC	130	FALSE	0	550.88	0.88	0	TRUE	127	550.88					

3000	17935	1.3	<None>	<Collection: 1 item>	0.42	170.6	73.4		29219	6911	135	13603: 18176	6830: 18177	8	AC	130	FALSE	0	-46.25	0.3	0	TRUE	135	46.25					
3107	18427	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		24878	6910	176	5009: 18175	13603: 18176	8	AC	130	FALSE	0	-41.53	0.27	0	TRUE	176	41.53					
3112	18227	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		20167	6909	164	6402: 18174	5009: 18175	8	AC	130	FALSE	0	-38.82	0.25	0	TRUE	164	38.82					
3134	18071	1.4	<None>	<Collection: 1 item>	0.42	170.6	73.4		31279	6908	113	3902: 18172	5780: 18173	8	AC	130	FALSE	0	-34.94	0.22	0	TRUE	113	34.94					
3260	18370	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		25599	6907	64	7946: 18146	2377: 18156	16	AC	130	FALSE	0	579.07	0.92	0	TRUE	64	579.07					
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					
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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					
3986	18420	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		20185	6897	17	5578: 18069	11338: 18068	6	AC	130	FALSE	0	-2.27	0.03	0	TRUE	17	2.27					
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					
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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					
5005	18575	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		28910	6889	15	14076: 17957	14098: 17961	6	AC	130	FALSE	0	1.94	0.02	0	TRUE	15	1.94					
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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					
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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					
10121	18157	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		18930	6534	54	1350: 18588	14508: 18589	6	AC	130	FALSE	0	0	0	0	TRUE	54	0					
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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					
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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					
10882	18450	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		20971	6527	57	5005: 18575	1712: 18583	6	AC	130	FALSE	0	-13.91	0.16	0	TRUE	57	13.91					
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					
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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					

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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					
12200	18438	1.8	<None>	<Collection: 1 item>	0.42	170.4	73.1		24405	6502	61	1131: 18332	9915: 18331	8	AC	130	FALSE	0	16.41	0.1	0	TRUE	61	16.41					
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	TRUE	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					
13007	18502	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		24248	6486	55	13675: 18441	13190: 18439	8	AC	130	FALSE	0	-0.42	0	0	TRUE	55	0.42					
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					
14758	18045	1.2	<None>	<Collection: 1 item>	0.42	170.6	73.4		33255	6448	177	12816: 18114	14551: 18115	12	AC	130	FALSE	0	-26.92	0.08	0	TRUE	177	26.92					
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					
16559	17917	2.2	<None>	<Collection: 1 item>	0.42	170.5	73		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	170.5	73.3		25865	6422	70	5618: 17628	11135: 17632	8	PVC	130	FALSE	0	-2.7	0.02	0	TRUE	70	2.7					
16698	18518	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		21521	6421	93	15941: 17627	3591: 17629	8	PVC	130	FALSE	0	9.14	0.06	0	TRUE	93	9.14					
16700	18481	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		36106	6420	43	4461: 17634	4002: 17657	6	PVC	130	FALSE	0	4.44	0.05	0	TRUE	43	4.44					
16887	18445	1.4	<None>	<Collection: 1 item>	0.42	170.4	73.2		24441	6416	240	3359: 17521	9634: 17522	8	PVC	130	FALSE	0	9.36	0.06	0	TRUE	240	9.36					
16888	18545	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		20088	6415	14	15040: 17453	16798: 17444	8	PVC	130	FALSE	0	-44.1	0.28	0	TRUE	14	44.1					
16971	18443	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		34684	6414	39	14182: 17392	16019: 17393	8	PVC	130	FALSE	0	2.38	0.02	0	TRUE	39	2.38					
16972	18543	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		22471	6413	360	6628: 17387	13464: 17391	8	PVC	130	FALSE	0	11.26	0.07	0	TRUE	360	11.26					
16999	18539	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		25868	6412	61	4808: 17386	4073: 17385	8	PVC	130	FALSE	0	15.7	0.1	0	TRUE	61	15.7					
17061	17997	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		21524	6411	114	10366: 17251	15401: 17252	8	PVC	130	FALSE	0	49.13	0.31	0	TRUE	114	49.13					
17074	18217	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		24884	6410	345	8593: 17250	10366: 17251	8	PVC	130	FALSE	0	52.09	0.33	0	TRUE	345	52.09					
17075	18317	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		18651	6409	100	9524: 17247	1830: 17246	8	PVC	130	FALSE	0	-57.9	0.37	0	TRUE	100	57.9					
17085	18421	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		33251	6408	61	845: 17689	9741: 17709	12	AC	130	FALSE	0	359.09	1.02	0	TRUE	61	359.09					
17086	18521	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		30076	6407	516	9598: 17454	845: 17689	12	AC	130	FALSE	0	362.06	1.03	0	TRUE	516	362.06					
17089	18021	1.5	<None>	<Collection: 1 item>	0.42	170.5	73.3		24440	6406	83	539: 17712	8964: 17713	8	AC	130	FALSE	0	-94.79	0.61	0	TRUE	83	94.79					
17091	18221	1.6	<None>	<Collection: 1 item>	0.42	170.5	73.2		20087	6405	86	9741: 17709	539: 17712	8	AC	130	FALSE	0	-91.95	0.59	0	TRUE	86	91.95					
17302	18047	1.5	<None>	<Collection: 1 item>	0.42	170.6	73.3		34683	6404	16	17317: 17626	17552: 17641	6	AC	130	FALSE	0	4.44	0.05	0	TRUE	16	4.44					
17436	18482	1.5	<None>	<Collection: 1 item>	0.42	170.3	73.2		34245	6403	270	4461: 17634	9370: 17528	8	PVC	130	FALSE	0	-11.59	0.07	0	TRUE	270	11.59					
17437	18582	1.5	<None>	<Collection: 1 item>	0.42	170.1	73.1		25867	6402	57	13875: 17631	5618: 17628	8	PVC	130	FALSE	0	0.26	0	0	TRUE	57	0.26					
17442	18382	1.5	<None>	<Collection: 1 item>	0.42	170.4	73.2		21523	6401	41	3591: 17629	16785: 17630	8	PVC	130	FALSE	0	6.18	0.04	0	TRUE	41	6.18					
17463	18579	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.1		24883	6400	270	2550: 17520	17317: 17626	8	PVC	130	FALSE	0	18.03	0.12	0	TRUE	270	18.03					
17469	18379	2.8	<None>	<Collection: 1 item>	0.42	170.4	72.6		36117	6399	254	6173: 17604	8714: 17500	8	AC	130	FALSE	0	-103.68	0.66	0	TRUE	254	103.68					
3132	18671	1.5	<None>	<Collection: 1 item>	0.42	170.2	73.2		18517	6398	40	9370: 17528	3590: 17529	8	PVC	130	FALSE	0	-3.43	0.02	0	TRUE	40	3.43					
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12053	18566	1.5	<None>	<Collection: 0 items>	0	170.3	73.2		21608	6054	91	9160: 17159	14016: 17153	12	AC	130	FALSE	0	33.16	0.09	0	TRUE	91	33.16					
12206	18238	6.5	<None>	<Collection: 0 items>	0	172.1	71.8		23236	6053	45	14016: 17153	15400: 17152	12	AC	130	FALSE	0	74.83	0.21	0	TRUE	45	74.83					
12262	17956	3.8	<None>	<Collection: 0 items>	0	170.9	72.5		34421	6052	6	2192: 17148	9523: 17147	12	AC	130	FALSE	0	202.57	0.57	0	TRUE	6	202.57					
12264	17456	1.5	<None>	<Collection: 0 items>	0	172	73.9		35736	6051	24	4521: 17125	2658: 17124	12	AC	130	FALSE	0	188.98	0.54	0	TRUE	24	188.98					
12698	18254	6.5	<None>	<Collection: 0 items>	0	172.1	71.8		28162	6050	751	2658: 17124	10809: 17119	12	AC	130	FALSE	0	75.66	0.21	0	TRUE	751	75.66					
12809	17694	1.5	<None>	<Collection: 0 items>	0	172.1	73.9		18153	6049	53	11237: 17099	8591: 17050	8	AC	130	FALSE	0	4.17	0.03	0	TRUE	53	4.17					
12817	18214	5	<None>	<Collection: 0 items>	0	172	72.4		26220	6048	285	13707: 16931	9044: 17072	6	AC	130	FALSE	0	34.13	0.39	0	TRUE	285	34.13					
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12986	18644	6.4	<None>	<Collection: 0 items>	0	169.9	70.9		24696	6045	63	7907: 16975	10936: 16952	12	AC	130	FALSE	0	-377.89	1.07	0	TRUE	63	377.89					
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13265	18597	5.3	<None>	<Collection: 0 items>	0	169.9	71.4		35423	5763	107	10632: 18495	1316: 18509	10	AC	130	FALSE	0	-147.96	0.6	0	TRUE	107	147.96					
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13371	17664	1.5	<None>	<Collection: 0 items>	0	172	73.9		26104	5760	9	10632: 18495	16266: 18493	10	AC	130	FALSE	0	147.96	0.6	0	TRUE	9	147.96					
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13496	18617	1.5	<None>	<Collection: 0 items>	0	170.3	73.2		32529	5757	72	16704: 18281	2292: 18304	12	AC	130	FALSE	0	395.51	1.12	0	TRUE	72	395.51					
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13679	18041	7.4	<None>	<Collection: 0 items>	0	172.2	71.4		22626	5755	505	1005: 18086	11774: 18198	12	AC	130	FALSE	0	460.17	1.31	0.001	TRUE	505	460.17					
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14466	17468	1.5	<None>	<Collection: 0 items>	0	172	73.9		30597	5751	186	6233: 18059	9796: 18017	8	AC	130	FALSE	0	-95.65	0.61	0	TRUE	186	95.65					
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15181	18179	4.4	<None>	<Collection: 0 items>	0	170.6	72.1		32122	5743	189	2940: 17881	2521: 17843	6	AC	130	FALSE	0	-0.4	0	0	TRUE	189	0.4					
15197	18240	3.9	<None>	<Collection: 0 items>	0	171.5	72.6		27734	5742	380	14811: 17862	978: 17743	8	AC	130	FALSE	0	-3.28	0.02	0	TRUE	380	3.28					
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15942	17727	1.5	<None>	<Collection: 0 items>	0	172.1	73.9		18995	5740	534	1821: 17846	3114: 17848	6	AC	130	FALSE	0	47.53	0.54	0	TRUE	534	47.53					
16266	18493	6.5	<None>	<Collection: 0 items>	0	169.5	70.7		35106	5739	150	2649: 17824	16586: 17814	6	AC	130	FALSE	0	-5.99	0.07	0	TRUE	150	5.99					

16307	18611	1.5	<None>	<Collection: 0 items>	0	170.2	73.2		28837	5737	39	6167: 17804	5561: 17783	8	AC	130	FALSE	0	-24.3	0.16	0	TRUE	39	24.3					
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16383	18524	3.6	<None>	<Collection: 0 items>	0	170.3	72.3		22621	5735	143	5561: 17783	3684: 17782	8	AC	130	FALSE	0	-86.36	0.55	0	TRUE	143	86.36					
16384	18624	1.5	<None>	<Collection: 0 items>	0	170.3	73.2		19567	5734	110	3684: 17782	2946: 17781	8	AC	130	FALSE	0	-70.28	0.45	0	TRUE	110	70.28					
16701	18581	1.5	<None>	<Collection: 0 items>	0	170.3	73.2		35420	5733	134	17078: 17755	1233: 17780	12	AC	130	FALSE	0	428.66	1.22	0.001	TRUE	134	428.66					
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17439	18082	1.5	<None>	<Collection: 0 items>	0	171.5	73.7		26101	5730	61	3777: 17744	978: 17743	6	AC	130	FALSE	0	-41.69	0.47	0	TRUE	61	41.69					
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37109	J-137	7	<None>	<Collection: 1 item>	0	171.7	71.4		31963	5728	363	16631: 17663	3361: 17721	6	AC	130	FALSE	0	-3.29	0.04	0	TRUE	363	3.29					
38434	J-412	8	<None>	<Collection: 0 items>	0	172.1	71.1		28836	5727	13	9222: 17715	3361: 17721	6	AC	130	FALSE	0	-1.67	0.02	0	TRUE	13	1.67					
38438	J-413	1.5	<None>	<Collection: 0 items>	0	172.1	73.9		27389	5726	47	1981: 17718	7924: 17696	8	AC	130	FALSE	0	-21.01	0.13	0	TRUE	47	21.01					
38442	J-414	1.5	<None>	<Collection: 0 items>	0	172.1	74		22620	5725	402	8095: 17550	8294: 17710	6	AC	130	FALSE	0	27.34	0.31	0	TRUE	402	27.34					
39128	J-668	0	<None>	<Collection: 0 items>	0	171.7	74.5		19566	5724	135	7924: 17696	6600: 17697	8	AC	130	FALSE	0	-26.06	0.17	0	TRUE	135	26.06					
39134	J-670	0	<None>	<Collection: 0 items>	0	171.7	74.4		35419	5723	45	16014: 17693	5560: 17683	8	AC	130	FALSE	0	-19.15	0.12	0	TRUE	45	19.15					
39137	J-671	1.5	<None>	<Collection: 0 items>	0	171.7	73.8		32329	5722	123	2189: 17648	5560: 17683	8	AC	130	FALSE	0	22.49	0.14	0	TRUE	123	22.49					
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									27392	5716	320	12808: 17594	9950: 17654	8	AC	130	FALSE	0	20.95	0.13	0	TRUE	320	20.95					
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									23935	4855	436	13454: 17991	14399: 18042	8	AC	130	FALSE	0	58.44	0.37	0	TRUE	436	58.44					
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									22473	4849	98	7311: 18200	12817: 18214	8	AC	130	FALSE	0	27.92	0.18	0	TRUE	98	27.92					
									18136	4848	873	3463: 18080	12261: 17856	8	AC	130	FALSE	0	-45.4	0.29	0	TRUE	873	45.4					
									19543	4844	38	12261: 17856	17520: 17837	8	AC	130	FALSE	0	-39.55	0.25	0	TRUE	38	39.55					
									24873	4843	261	17520: 17837	6620: 17767	8	AC	130	FALSE	0	-44.49	0.28	0	TRUE	261	44.49					
									19538	4834	136	15922: 17766	13379: 17763	8	AC	130	FALSE	0	2.47	0.02	0	TRUE	136	2.47					
									17906	4817	312	12811: 17094	6601: 17097	12	AC	130	FALSE	0	281.1	0.8	0	TRUE	312	281.1					
									24060	4809	409	14669: 17703	13371: 17664	8	AC	130	FALSE	0	64.43	0.41	0	TRUE	409	64.43					
									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	28.83	0.18	0	TRUE	3	28.83					
									30646	4805	91	3776: 17644	977: 17643	8	AC	130	FALSE	0	23.89	0.15	0	TRUE	91	23.89					
									27529	4804	29	14467: 17568	6353: 17574	8	AC	130	FALSE	0	-52.09	0.33	0	TRUE	29	52.09					
									21354	4802	208	7058: 17471	14467: 17568	8	AC	130	FALSE	0	-47.15	0.3	0	TRUE	208	47.15					
									18275	4801	346	5265: 17470	8512: 17469	6	AC	130	FALSE	0	-18.9	0.21	0	TRUE	346	18.9					
									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	18.25	0.21	0	TRUE	14	18.25					
									21438	4798	285	6111: 17306	17550: 17441	6	AC	130	FALSE	0	23.76	0.27	0	TRUE	285	23.76					
									17988	4797	301	15488: 17439	13463: 17291	6	AC	130	FALSE	0	3.91	0.04	0	TRUE	301	3.91					
									36083	4796	236	894: 17315	4141: 17432	6	AC	130	FALSE	0	-15.85	0.18	0	TRUE	236	15.85					
									32988	4795	277	16017: 17193	894: 17315	6	AC	130	FALSE	0	-10.91	0.12	0	TRUE	277	10.91					
									29863	4794	17	6603: 17297	6111: 17306	6	AC	130	FALSE	0	34.79	0.39	0	TRUE	17	34.79					
									26746	4793	285	11929: 17169	6603: 17297	6	AC	130	FALSE	0	45.81	0.52	0	TRUE	285	45.81					
									23623	4792	127	15259: 17296	14548: 17295	8	AC	130	FALSE	0	-93.04	0.59	0	TRUE	127	93.04					
									29609	4791	655	15735: 17108	10627: 17114	12	AC	130	FALSE	0	250.78	0.71	0	TRUE	655	250.78					
									36438	4790	9	16638: 17107	15735: 17108	12	AC	130	FALSE	0	220.72	0.63	0	TRUE	9	220.72					
									26726	4789	59	8565: 17106	16638: 17107	12	AC	130	FALSE	0	216.06	0.61	0	TRUE	59	216.06					
									21437	4788	475	16347: 17104	8565: 17106	12	AC	130	FALSE	0	221	0.63	0	TRUE	475	221					
									34751	4787	39	6601: 17097	16347: 17104	12	AC	130	FALSE	0	231.54	0.66	0	TRUE	39	231.54					
									36082	4786	82	8058: 17075	8777: 17076	12	AC	130	FALSE	0	244.71	0.69	0	TRUE	82	244.71					
									26745	4783	84	2724: 17033	2888: 16988	8	AC	130	FALSE	0	-12.07	0.08	0	TRUE	84	12.07					
									23622	4782	21	3860: 16985	11038: 16999	8	AC	130	FALSE	0	7.41	0.05	0	TRUE	21	7.41					

									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
5222	12309	31.7	<None>	<Collection: 1 item>	32.28	170	60	19083	P581	157	10916: 13333	7534: 13353	6		130	FALSE	0	75.44	0.86	0.001	TRUE	157	75.44	Maximum	13.42
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!
10959	15256	23.8	<None>	<Collection: 1 item>	32.28	169.8	63.3	21194	P559	250	3270: 11884	888: 11723	12		130	FALSE	0	-754.44	2.14	0.002	TRUE	250	754.44		
11491	15152	24.6	<None>	<Collection: 1 item>	32.28	169.7	62.9	29677	P557	16	1202: J388	4137: 11378	10		130	FALSE	0	1.89	0.01	0	TRUE	17	1.89		
11614	15099	25.6	<None>	<Collection: 1 item>	32.28	169.7	62.5	33790	P553	3	10451: J386	537: 11728	14		130	FALSE	0	262.77	0.55	0	TRUE	3	262.77		
11899	15355	25.3	<None>	<Collection: 1 item>	32.28	169.9	62.7	20692	P551	17	10451: J386	7872: 11753	6	AC	130	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	17	#VALUE!		
12408	15351	25.4	<None>	<Collection: 1 item>	32.28	169.9	62.6	33789	P543	3	14774: 12184	3495: 12181	6		130	FALSE	0	-21.85	0.25	0	TRUE	3	21.85		
12655	12330	31	<None>	<Collection: 1 item>	32.28	170.6	60.5	20362	P489	372	10456: J326	7991: J324	8		130	FALSE	0	-122.92	0.78	0	TRUE	300	122.92		
13115	15094	25.6	<None>	<Collection: 1 item>	32.28	169.7	62.5	30576	P487	352	3308: J342	10456: J326	8		130	FALSE	0	-11.09	0.07	0	TRUE	337	11.09		
13885	13409	31.7	<None>	<Collection: 1 item>	32.28	170.9	60.4	19198	P485	397	5017: J340	3308: J342	8		130	FALSE	0	5.19	0.03	0	TRUE	387	5.19		
16239	13610	31.5	<None>	<Collection: 1 item>	32.28	170.9	60.4	19812	P483	56	4237: J328	7985: J344	8		130	FALSE	0	16.28	0.1	0	TRUE	90	16.28		
16902	15088	25.7	<None>	<Collection: 1 item>	32.28	169.7	62.4	31294	P481	342	4237: J328	10456: J326	8		130	FALSE	0	-95.55	0.61	0	TRUE	330	95.55		
14727	14595	28.8	<None>	<Collection: 1 item>	32.27	170.7	61.5	21048	P479	343	2785: J330	4237: J328	8		130	FALSE	0	-62.99	0.4	0	TRUE	300	62.99		
1214	13587	29.5	<None>	<Collection: 1 item>	22.73	170.6	61.2	30583	P477	131	2785: J330	12265: J346	8		130	FALSE	0	16.28	0.1	0	TRUE	120	16.28		
5249	13577	29.8	<None>	<Collection: 1 item>	22.73	170.6	61	35035	P475	580	11199: J332	2785: J330	8		130	FALSE	0	-30.43	0.19	0	TRUE	600	30.43		
5254	13277	30.8	<None>	<Collection: 1 item>	22.73	171.1	60.8	21434	P473	251	7992: J334	11199: J332	8		130	FALSE	0	-14.15	0.09	0	TRUE	300	14.15		
6833	13604	31.5	<None>	<Collection: 1 item>	22.73	170.9	60.4	34257	P471	18	7992: J334	8135: J322	8		130	FALSE	0	40.96	0.26	0	TRUE	63	40.96		
7505	13601	30	<None>	<Collection: 1 item>	22.73	170.6	61	18416	P469	577	11346: J336	7992: J334	8		130	FALSE	0	43.09	0.28	0	TRUE	600	43.09		
7529	13653	27.3	<None>	<Collection: 1 item>	22.73	170.8	62.2	24110	P467	447	1212: J338	11346: J336	8		130	FALSE	0	59.37	0.38	0	TRUE	420	59.37		
8197	13602	29.8	<None>	<Collection: 1 item>	22.73	170.6	61.1	27602	P465	364	5017: J340	1212: J338	8		130	FALSE	0	75.65	0.48	0	TRUE	360	75.65		
8387	13462	31.5	<None>	<Collection: 1 item>	22.73	170.6	60.3	23613	P463	123	2784: J320	5017: J340	8		130	FALSE	0	97.13	0.62	0	TRUE	53	97.13		
8929	13659	27.4	<None>	<Collection: 1 item>	22.73	170.8	62.2	31297	P461	304	7991: J324	14607: 11648	12	AC	130	FALSE	0	119.05	0.34	0	TRUE	304	119.05		
9116	13439	41.3	<None>	<Collection: 1 item>	22.73	171.1	56.2	18417	P459	20	15904: 12349	8135: J322	8	AC	130	FALSE	0	-40.96	0.26	0	TRUE	20	40.96		
10913	13033	28.9	<None>	<Collection: 1 item>	22.73	171.1	61.6	33874	P457	15	2784: J320	16258: 12336	8	AC	130	FALSE	0	-97.13	0.62	0	TRUE	15	97.13		
11883	12037	26.4	<None>	<Collection: 1 item>	22.73	171.8	63	24614	P389	420	3970: J270	2082: J236	8		130	FALSE	0	-2.32	0.01	0	TRUE	420	2.32		
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14158	13591	31.5	<None>	<Collection: 1 item>	22.73	170.6	60.3	22176	P385	448	12918: J258	16718: J260	8		130	FALSE	0	-129.82	0.83	0	TRUE	448	129.82		
15995	13596	30.1	<None>	<Collection: 1 item>	22.73	170.6	60.9	23332	P383	782	13313: J262	12918: J258	8		130	FALSE	0	-58.26	0.37	0	TRUE	782	58.26		
16074	11847	26.6	<None>	<Collection: 1 item>	22.73	172.4	63.2	28475	P381	200	3969: J250	4066: J252	6		130	FALSE	0	8.19	0.09	0	TRUE	200	8.19		
2332	13620	28.4	<None>	<Collection: 1 item>	22.73	170.9	61.8	24625	P379	195	16936: J266	12918: J258	8		130	FALSE	0	-63.36	0.4	0	TRUE	195	63.36		
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1212	J338	74	<None>	<Collection: 1 item>	16.28	239.8	71.9	29937	P375	649	3969: J250	16936: J266	8		130	FALSE	0	-46.97	0.3	0	TRUE	649	46.97		
2785	J330	79	<None>	<Collection: 1 item>	16.28	239.8	69.7	23705	P373	390	13313: J262	3969: J250	8		130	FALSE	0	-30.58	0.2	0	TRUE	390	30.58		
3308	J342	80	<None>	<Collection: 1 item>	16.28	239.9	69.3	36519	P371	180	3968: J240	13313: J262	8		130	FALSE	0	-88.84	0.57	0	TRUE	180	88.84		
4237	J328	82	<None>	<Collection: 1 item>	16.28	239.8	68.4	29658	P369	179	12917: J248	8989: J246	8		130	FALSE	0	14.13	0.09	0	TRUE	179	14.13		
5017	J340	81	<None>	<Collection: 1 item>	16.28	239.9	68.9	33593	P367	836	3968: J240	12917: J248	8		130	FALSE	0	22.33	0.14	0	TRUE	836	22.33		
7985	J344	82	<None>	<Collection: 1 item>	16.28	239.8	68.4	21805	P365	750	15328: J244	12923: J238	8		130	FALSE	0	-10.28	0.07	0	TRUE	750	10.28		
7992	J334	73	<None>	<Collection: 1 item>	16.28	239.8	72.3	35945	P363	640	4065: J242	15328: J244	8		130	FALSE	0	-2.09	0.01	0	TRUE	640	2.09		
10456	J326	84	<None>	<Collection: 1 item>	16.28	239.9	67.6	18530	P361	400	2082: J236	4065: J242	8		130	FALSE	0	6.1	0.04	0	TRUE	400	6.1		
11199	J332	71	<None>	<Collection: 1 item>	16.28	239.8	73.2	24626	P359	604	12406: J232	3227: J224	8		130	FALSE	0	6.84	0.04	0	TRUE	604	6.84		
11346	J336	77	<None>	<Collection: 1 item>	16.28	239.8	70.6	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	239.8	69.7	29939	P355	393	3968: J240	12406: J232	8		130	FALSE	0	23.23	0.15	0	TRUE	393	23.23		
12436	11537	68.2	<None>	<Collection: 1 item>	15.08	240.3	74.6	23707	P353	221	12923: J238	3968: J240	8		130	FALSE	0	-35.09	0.22	0	TRUE	221	35.09		
4856	14009	40	<None>	<Collection: 1 item>	13.22	172.6	57.5	18532	P351	260	2082: J236	12923: J238	8		130	FALSE	0	-16.62	0.11	0	TRUE	260	16.62		
7450	14007	8.9	<None>	<Collection: 1 item>	13.22	172.6	71	29938	P345	102	5497: J88	7274: J226	8		130	FALSE	0	14.07	0.09	0	TRUE	102	14.07		
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1252	13012	44.7	<None>	<Collection: 1 item>	11.68	176.4	57.1	18531	P341	30	8989: J246	12466: 14456	12	PVC	130	FALSE	0	373.52	1.06	0	TRUE	30	373.52		
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8414	13172	32.8	<None>	<Collection: 1 item>	11.68	175.2	61.7	32206	P337	80	9019: J74	11444: J222	8		130	FALSE	0	48.21	0.31	0	TRUE	80	48.21		
9800	13048	36.4	<None>	<Collection: 1 item>	11.68	175.2	60.2	19115	P219	300	6414: J126	2592: J130	8		130	FALSE	0	-55.78	0.36	0	TRUE	300	55.78		
15904	12349	73.9	<None>	<Collection: 1 item>	8.63	239.8	71.9	31890	P217	150	16671: J120	6414: J126	8		130	FALSE	0	-86.04	0.55	0	TRUE	150	86.04		
397	12323	73.7	<None>	<Collection: 1 item>	8.62	239.8	72	33435	P209	500	16671: J120	7340: J118	8		130	FALSE	0	-24.78	0.16	0	TRUE	500	24.78		
1291	12342	73.9	<None>	<Collection: 1 item>	8.62	239.8	71.9	21689	P207	150	9579: 11350	16671: J120	8		130	FALSE	0	-106.48	0.68	0	TRUE	150	106.48		
7324	11875	102.2	<None>	<Collection: 1 item>	8.62	240	59.7	25323	P205	79	10996: J112	7941: J86	8		130	FALSE	0	-23.23	0.15	0	TRUE	79	23.23		
8650	11874	103.2	<None>	<Collection: 1 item>	8.62	240	59.3	32588	P203	150	11224: J92	10996: J112	8		130	FALSE	0	-8.84	0.06	0	TRUE	150	8.84		
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2005	15220	30	<None>	<Collection: 1 item>	8.38	172.5	61.8	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	171.5	60.8	27882	P195	123	8860: J102	6413: J116	8		130	FALSE	0	-6.2	0.04	0	TRUE	123	6.2		
15380	15222	30	<None>	<Collection: 1 item>	8.38	172.5	61.8	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	170.9	59.8	26429	P189	50	11216: J98	8860: J102	8		130	FALSE	0	-0.74	0	0	TRUE	50	0.74		
3228	J234	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	17702	P187	20	11216: J98	17380: J100	8		130	FALSE	0	0	0	0	TRUE	20	0		
3968	J240	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	27881	P185	124	17374: J114	11216: J98	8		130	FALSE	0	2	0.01	0	TRUE	124	2		
3969	J250	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	24081	P183	125	6925: J94	17374: J114	8		130	FALSE	0	4.73	0.03	0	TRUE	125	4.73		
3970	J270	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	19774	P181	8	6925: J94	6926: J96	8		130	FALSE	0	0	0	0	TRUE	8	0		
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4066	J252	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	17708	P177	10	11225: J90	11224: J92	8		130	FALSE	0	1.35	0.01	0	TRUE	10	1.35		
7274	J226	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	32309	P175	80	5497: J88	11225: J90	8		130	FALSE	0	1.35	0.01	0	TRUE	80	1.35		
12406	J232	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	36077	P173	131	3227: J224	5497: J88	8		130	FALSE	0	18.16	0.12	0	TRUE	131	18.16		
12917	J248	33	<None>	<Collection: 1 item>	8.19	170.9	59.8	29133	P171	140	11444: J222	7941: J86	8		130	FALSE	0	45.48	0.29	0	TRUE	140	45.48		
12918	J258	33	<None>	<Collection: 1 item>	8.19	171	59.8	26438	P169	148	7702: 13671	9019: J74	12	AC	130	FALSE	0	-178.1	0.51	0	TRUE	148	178.1		
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16936	J266	33	<None>	<Collection: 1 item>	8.19	171	59.8	26712	P93	343	2365: 16143	15930: J42	6	AC	130	FALSE	0	10.7	0.12	0	TRUE	343	10.7		
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9579	11350	71.3	<None>	<Collection: 1 item>	6.51	239.6	73	39180	P-1005	34	39177: J-686	39179: J-687	6	PVC	130	FALSE	0	40.11	0.46	0	FALSE	0	40.11		
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55	16067	25.8	<None>	<Collection: 1 item>	5.84	170.2	62.6	39161	P-1000	14	39156: J-678	39158: J-679	8	PVC	130	FALSE	0	39.31	0.25	0	FALSE	0	39.31		
56	16167	31.1	<None>	<Collection: 1 item>	5.84	172.2	61.2	39157	P-999	10	39155: J-677	39156: J-678	8	PVC	130	FALSE	0	39.31	0.25	0	FALSE	0	39.31		
143	13883	31.5	<None>	<Collection: 1 item>	5.84	173.9	61.8	39108	P-990	60	39101: J-658	39105: J-660	8	PVC	130	FALSE	0	137.60	0.88	0	FALSE	0	137.6		
151	13183	46.3	<None>	<Collection: 1 item>	5.84	174.6	55.6	39102	P-988	788	39099: J-657	39101: J-658	8	PVC	130	FALSE	0	137.60	0.88	0	FALSE	0	137.6		
192	15811	21.9	<None>	<Collection: 1 item>	5.84	170.5	64.4	39100	P-987	20	39096: J-656	39099: J-657	8	PVC	130	FALSE	0	137.6	0.88	0	FALSE	0	137.6		
194	15411	26.5	<None>	<Collection: 1 item>	5.84	170.3	62.3	39095	P-986	655	39090: J-654	39092: J-655	8	PVC	130	FALSE	0	188.14	1.2	0.001	FALSE	0	188.14		
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228	14841	26.6	<None>	<Collection: 1 item>	5.84	169.7	62.1	38937	P-937	346	15564: 15268	13739: 15264	4	PVC	130	FALSE	0	-17.22	0.44	0	FALSE	0	17.22		
229	14941	30.2	<None>	<Collection: 1 item>	5.84	170.9	61	38874	P-897	32	38870: J-575	38873: J-576	6	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0		
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259	14999	26.4	<None>	<Collection: 1 item>	5.84	170.6	62.5	38871	P-895	89	16443: 12766	38870: J-575	10	AC	130	FALSE	0	8.07	0.03	0	TRUE	95	8.07		
313	16135	25.2	<None>	<Collection: 1 item>	5.84	172.2	63.7	38848	P-881	165	4870: 16200	38845: J-566	8	PVC	130	FALSE	0	-49.82	0.32	0	FALSE	0	49.82		

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405	15641	26.5	<None>	<Collection: 1 item>	5.84	170.5	62.4		38846	P-879	812	14452: 15961	38845: J-566	6	AC	130	FALSE	0	45.95	0.52	0	TRUE	812	45.95
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413	14967	26.4	<None>	<Collection: 1 item>	5.84	172.9	63.5		38719	P-800	13	38714: J-517	38716: J-518	8	PVC	130	FALSE	0	332.93	2.13	0.002	FALSE	0	332.93
529	13311	45.7	<None>	<Collection: 1 item>	5.84	174.5	55.8		38718	P-799	17	38716: J-518	38698: J-512	8	PVC	130	FALSE	0	303.5	1.94	0.002	FALSE	0	303.5
538	16373	31.5	<None>	<Collection: 1 item>	5.84	170.3	60.2		38717	P-798	52	4132: 11678	38716: J-518	8	PVC	130	FALSE	0	-29.43	0.19	0	FALSE	0	29.43
577	16142	31.4	<None>	<Collection: 1 item>	5.84	170.4	60.3		38715	P-797	5	38711: J-516	38714: J-517	8	PVC	130	FALSE	0	332.93	2.13	0.002	FALSE	0	332.93
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715	14252	31.5	<None>	<Collection: 1 item>	5.84	173.5	61.5		38706	P-791	24	38704: J-514	8366: 11772	6	AC	130	FALSE	0	43.38	0.49	0	TRUE	23	43.38
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717	14612	30.2	<None>	<Collection: 1 item>	5.84	173.1	62		38702	P-789	23	5602: 12200	38681: J-505	6	PVC	130	FALSE	0	-102.32	1.16	0.001	FALSE	0	102.32
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745	13341	31.6	<None>	<Collection: 1 item>	5.84	174.6	62		38700	P-787	258	38698: J-512	14388: 11918	8	PVC	130	FALSE	0	404.15	2.58	0.003	FALSE	0	404.15
810	14639	31.5	<None>	<Collection: 1 item>	5.84	173	61.4		38689	P-780	2	38683: J-506	38686: J-508	12	PVC	130	FALSE	0	296.57	0.84	0	FALSE	0	296.57
811	14739	27.2	<None>	<Collection: 1 item>	5.84	170.6	62.2		38688	P-779	14	38686: J-508	12072: 12455	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	14	1.89
838	15587	28.5	<None>	<Collection: 1 item>	5.84	171.4	62		38687	P-778	357	12857: 12756	38686: J-508	8	AC	130	FALSE	0	-294.68	1.88	0.002	TRUE	357	294.68
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842	15187	11.2	<None>	<Collection: 1 item>	5.84	172.7	70		38682	P-776	182	38679: J-504	38681: J-505	12	PVC	130	FALSE	0	398.89	1.13	0	FALSE	0	398.89
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915	14142	31.5	<None>	<Collection: 1 item>	5.84	173.5	61.6		38677	P-773	62	38675: J-503	38671: J-502	12	PVC	130	FALSE	0	115.47	0.33	0	FALSE	0	115.47
916	14242	31.7	<None>	<Collection: 1 item>	5.84	173.4	61.4		38676	P-772	223	38669: J-501	38675: J-503	12	PVC	130	FALSE	0	120.76	0.34	0	FALSE	0	120.76
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1504	16319	31.8	<None>	<Collection: 1 item>	5.84	170.3	60		38362	P-584	362	38360: J-387	38350: J-385	12	PVC	130	FALSE	0	13.37	0.04	0	FALSE	0	13.37
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1514	15763	31.5	<None>	<Collection: 1 item>	5.84	171.8	60.8		38356	P-580	626	9963: 15554	16957: 15863	6	AC	130	FALSE	0	29.93	0.34	0	FALSE	0	29.93
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1641	15729	21.9	<None>	<Collection: 1 item>	5.84	170.5	64.4		38349	P-574	35	38344: J-383	38346: J-384	12	DI	130	FALSE	0	-76.83	0.22	0	FALSE	0	76.83
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1677	16134	26.5	<None>	<Collection: 1 item>	5.84	170.2	62.3		38347	P-572	41	1101: 15842	38346: J-384	12	AC	130	FALSE	0	123.78	0.35	0	TRUE	41	123.78
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1816	13345	41.6	<None>	<Collection: 1 item>	5.84	174.5	57.6		37164	P-112	40	37158: J-144	37161: J-145	12	PVC	130	FALSE	0	-1,298.45	3.68	0.004	FALSE	0	1298.45
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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
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2601	15584	30	<None>	<Collection: 1 item>	5.84	171	61.1		29131	190323	38	14594: 13031	6025: 13070	16		130	TRUE	0	0	0	0	TRUE	38	0
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2605	15184	26.5	<None>	<Collection: 1 item>	5.84	172.6	63.4		29944	17878	370	16362: 15693	9317: 15844	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	370	3.28
2620	15413	26.5	<None>	<Collection: 1 item>	5.84	170.3	62.3		23637	17870	14	16362: 15693	14534: 15692	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	14	1.64
2661	14243	31.5	<None>	<Collection: 1 item>	5.84	173.4	61.5		28545	17844	94	2621: 15513	15107: 15517	6	AC	130	FALSE	0	2.44	0.03	0	TRUE	94	2.44
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2664	14989	26.4	<None>	<Collection: 1 item>	5.84	170.6	62.5		20254	17809	79	10704: 15247	5171: 15286	8	AC	130	FALSE	0	59.37	0.38	0	TRUE	79	59.37
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2893	15849	33.9	<None>	<Collection: 1 item>	5.84	172.3	60		25907	17777	30	15436: 14996	8236: 14975	6	AC	130	FALSE	0	2.44	0.03	0	TRUE	30	2.44
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3140	16417	30.5	<None>	<Collection: 1 item>	5.84	170.3	60.6		28604	17632	21	14804: 13761	16087: 13749	10	AC	130	FALSE	0	1.89	0.01	0	TRUE	21	1.89

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3178	14978	26.6	<None>	<Collection: 1 item>	5.84	169.7	62.1		22402	17612	243	8764: 13375	6832: 13504	10	AC	130	FALSE	0	183.68	0.75	0	TRUE	243	183.68					
3292	15081	26.5	<None>	<Collection: 1 item>	5.84	170	62.2		24835	17605	20	8764: 13375	7050: 13374	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	20	1.89					
3293	15181	27	<None>	<Collection: 1 item>	5.84	172.4	63		25096	17594	188	1219: 13287	8764: 13375	10	AC	130	FALSE	0	187.46	0.77	0	TRUE	188	187.46					
3350	13724	31.5	<None>	<Collection: 1 item>	5.84	173.9	61.7		17965	17593	53	1219: 13287	4448: 13282	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	53	1.89					
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16966	14344	31.6	<None>	<Collection: 1 item>	5.84	173.4	61.5		33061	15886	210	15230: 11392	14525: 11391	6	AC	130	FALSE	0	-2.64	0.03	0	TRUE	210	2.64					
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17023	16308	34.9	<None>	<Collection: 1 item>	5.84	172.2	59.5		29136	15881	12	12370: 11399	4286: 11403	6	AC	130	FALSE	0	4.29	0.05	0	TRUE	12	4.29					
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17229	14930	27.4	<None>	<Collection: 1 item>	5.84	172.9	63.1		23893	15868	26	11419: 12097	9893: 12098	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	26	1.89					
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17334	15828	31.5	<None>	<Collection: 1 item>	5.84	172.3	61		33326	15860	27	1072: 12012	2346: 12046	6	AC	130	FALSE	0	2.64	0.03	0	TRUE	27	2.64					
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17511	14511	31.5	<None>	<Collection: 1 item>	5.84	170.8	60.4		30190	15850	7	16773: 11940	12831: 11939	6	AC	130	FALSE	0	1.89	0.02	0	TRUE	7	1.89					
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4287	11503	64.2	<None>	<Collection: 1 item>	5.11	240.4	76.4		20649	15846	349	15847: 11817	14228: 12013	10	PVC	130	FALSE	0	-26.6	0.11	0	TRUE	349	26.6					
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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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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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14961	11543	61.4	<None>	<Collection: 1 item>	5.11	240.4	77.6		28314	15807	90	10853: 11693	1561: 11787	8	PVC	130	FALSE	0	75.3	0.48	0	TRUE	90	75.3					
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15588	11495	64	<None>	<Collection: 1 item>	5.11	240.4	76.5		21856	15805	279	10717: 11554	17250: 11686	21	STL	130	FALSE	0	2,463.87	2.28	0.001	TRUE	279	2463.87					
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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					
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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					
2751	12884	60.4	<None>	<Collection: 1 item>	4.02	239.9	77.8		27465	15795	32	11277: 11533	16051: 11535	6	AC	130	FALSE	0	0	0	0	TRUE	32	0					
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4042	11781	58	<None>	<Collection: 1 item>	3.8	240.4	79.1		27535	15783	349	5627: 11377	14444: 11364	6	AC	130	FALSE	0	48.11	0.55	0	TRUE	349	48.11					

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4815	J104	32	<None>	<Collection: 1 item>	2.73	170.9	60.2		23415	13990	410	2604: 15084	16662: 15046	6	AC	130	FALSE	0	-149.38	1.7	0.002	TRUE	410	149.38					
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6925	J94	35	<None>	<Collection: 1 item>	2.73	170.9	58.9		30674	13987	122	4864: 15025	6512: 14974	12	AC	130	FALSE	0	138.13	0.39	0	TRUE	122	138.13					
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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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2775	13572	33.5	<None>	<Collection: 1 item>	2.64	174.4	61.1		31829	13914	274	1863: 14417	15444: 14196	6	AC	130	FALSE	0	-32.74	0.37	0	TRUE	274	32.74					
2870	13959	31.5	<None>	<Collection: 1 item>	2.64	173.9	61.7		32769	13913	29	7239: 14271	9775: 14254	6	AC	130	FALSE	0	1.56	0.02	0	TRUE	29	1.56					
2928	13884	31.5	<None>	<Collection: 1 item>	2.64	173.9	61.8		35015	13912	38	8419: 14259	14476: 14236	6	AC	130	FALSE	0	1.56	0.02	0	TRUE	38	1.56					
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3346	12308	56.5	<None>	<Collection: 1 item>	2.64	176.5	52.1		27079	13906	148	4266: 14185	15519: 14249	8	AC	130	FALSE	0	-51.46	0.33	0	TRUE	148	51.46					
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3487	12981	46.2	<None>	<Collection: 1 item>	2.64	176.6	56.5		29630	13903	6	11305: 14152	10573: 14151	6	AC	130	FALSE	0	1.56	0.02	0	TRUE	6	1.56					
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4597	12185	51.3	<None>	<Collection: 1 item>	2.64	176.5	54.3		29000	13881	6	14586: 13831	10905: 13833	6	AC	130	FALSE	0	1.56	0.02	0	TRUE	6	1.56					
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13845	12818	43.3	<None>	<Collection: 1 item>	2.64	176.5	57.7		27341	13695	62	1560: 11687	14607: 11648	16	AC	130	FALSE	0	-496.07	0.79	0	TRUE	62	496.07					
13849	12618	55.5	<None>	<Collection: 1 item>	2.64	176.5	52.5		32129	13691	146	11120: 11368	2164: 11445	8	AC	130	FALSE	0	166.21	1.06	0.001	TRUE	146	166.21					
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17523	12928	58.5	<None>	<Collection: 1 item>	2.58	176.3	51.1		31497	12472	18	16661: 15746	9965: 15754	6	AC	130	FALSE	0	-5.84	0.07	0	TRUE	18	5.84					
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523	13511	41	<None>	<Collection: 1 item>	1.56	174.3	57.8		35635	10837	321	5030: 13007	15333: 12962	8	PVC	130	FALSE	0	8.7	0.06	0	TRUE	321	8.7					
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3427	13622	41	<None>	<Collection: 1 item>	1.56	174.4	57.8		32154	10787	13	12106: 12267	10167: 12254	6	PVC	130	FALSE	0	1.56	0.02	0	TRUE	13	1.56					
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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					
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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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390	11744	53.2	<None>	<Collection: 0 items>	0	178.6	54.4		34811	4591	17	16822: 14353	917: 14342	8	AC	130	FALSE	0	-289.71	1.85	0.002	TRUE	17	289.71					
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543	13923	37.7	<None>	<Collection: 0 items>	0	175.9	59.9		21413	4587	143	16966: 14344	15520: 14349	12	PVC	130	FALSE	0	-170.21	0.48	0	TRUE	143	170.21					
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1270	16257	31.5	<None>	<Collection: 0 items>	0	173.6	61.6		20740	4579	8	15445: 14296	14732: 14295	12	AC	130	FALSE	0	71.98	0.2	0	TRUE	8	71.98					
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1414	14380	26.8	<None>	<Collection: 0 items>	0	173.9	63.8		33556	4577	8	11319: 14273	625: 14277	10	AC	130	FALSE	0	289.13	1.18	0.001	TRUE	8	289.13					
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1793	11842	86	<None>	<Collection: 0 items>	0	239.8	66.7		30762	4570	223	11890: 14139	144: 13983	12	PVC	130	FALSE	0	-366.17	1.04	0	TRUE	223	366.17					
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16718	J260	33	<None>	<Collection: 0 items>	0	171.2	59.9		31973	3447	140	16956: 14944	14724: 14895	12	AC	130	FALSE	0	114.76	0.33	0	TRUE	140	114.76					
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37083	J-132	0	<None>	<Collection: 1 item>	0	171.3	74.2		27580	3436	86	4886: 15477	17487: 15543	8	AC	130	FALSE	0	-61.25	0.39	0	TRUE	86	61.25					
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38346	J-384	9.3	<None>	<Collection: 0 items>	0	172.4	70.7		34480	3424	310	2808: 14824	12952: 14994	8	AC	130	FALSE	0	140.49	0.9	0	TRUE	310	140.49					
38350	J-385	0	<None>	<Collection: 0 items>	0	172.4	74.7		24146	3423	30	8012: 14805	5076: 14779	6	AC	130	FALSE	0	2.82	0.03	0	TRUE	30	2.82					
38357	J-386	19.5	<None>	<Collection: 0 items>	0	172.4	66.3		24340	3422	261	6325: 14804	9436: 14803	6	AC	130	FALSE	0	-21.89	0.25	0	TRUE	261	21.89					
38360	J-387	13	<None>	<Collection: 0 items>	0	172.4	69.1		36432	3421	31	9436: 14803	7674: 14802	6	AC	130	FALSE	0	30.7	0.35	0	TRUE	31	30.7					
38363	J-388	25.7	<None>	<Collection: 0 items>	0	172.4	63.6		30755	3420	312	7674: 14802	11558: 14800	6	AC	130	FALSE	0	19.02	0.22	0	TRUE	312	19.02					

38367	J-389	26	<None>	<Collection: 0 items>	0	172.4	63.4		21766	3419	17	7018: 14801	11558: 14800	6	AC	130	FALSE	0	-14.71	0.17	0	TRUE	17	14.71					
38370	J-390	25.4	<None>	<Collection: 0 items>	0	172.3	63.7		36351	3418	285	13731: 14248	9445: 14103	12	CI	75	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	285	#VALUE!					
38390	J-396	38	<None>	<Collection: 0 items>	0	172.3	58.2		32485	3417	8	1926: 13580	6022: 13570	8	CI	75	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	8	#VALUE!					
38451	J-416	31.4	<None>	<Collection: 0 items>	0	173	61.4		27582	3416	51	6022: 13570	1249: 13512	8	CI	75	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	51	#VALUE!					
38457	J-418	0	<None>	<Collection: 0 items>	0	173.5	75.2		23157	3415	411	4663: 14625	1043: 14289	12	CI	75	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	411	#VALUE!					
38459	J-419	0	<None>	<Collection: 0 items>	0	173.9	75.4		21080	3414	237	11878: 13952	9445: 14103	12	CI	75	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	237	#VALUE!					
38461	J-420	0	<None>	<Collection: 0 items>	0	174.3	75.6		28767	3413	348	14404: 13713	14614: 13943	12	CI	75	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	348	#VALUE!					
38463	J-421	0	<None>	<Collection: 0 items>	0	174.3	75.6		23075	3412	186	2660: 14143	4266: 14185	12	CI	25	FALSE	0	114.14	0.32	0.001	TRUE	186	114.14					
38467	J-422	48.1	<None>	<Collection: 0 items>	0	177.9	56.3		36434	3411	461	17510: 14411	11695: 14655	12	CI	25	FALSE	0	80.45	0.23	0.001	TRUE	461	80.45					
38470	J-423	47.9	<None>	<Collection: 0 items>	0	177.8	56.3		30758	3410	45	12113: 14369	17510: 14411	12	CI	25	FALSE	0	160.92	0.46	0.002	TRUE	45	160.92					
38664	J-499	50.9	<None>	<Collection: 0 items>	0	176.8	54.6		21765	3409	296	4266: 14185	12113: 14369	12	AC	25	FALSE	0	164.04	0.47	0.002	TRUE	296	164.04					
38667	J-500	0	<None>	<Collection: 0 items>	0	176.8	76.6		36350	3408	272	7450: 14007	9297: 13854	12	CI	25	FALSE	0	-107.96	0.31	0.001	TRUE	272	107.96					
38669	J-501	0	<None>	<Collection: 0 items>	0	176.7	76.6		39098	3407(2)	22	39096: J-656	14620: 13743	12	CI	130	FALSE	0	114.19	0.32	0	TRUE	22	114.19					
38671	J-502	47.5	<None>	<Collection: 0 items>	0	176.7	56		39097	3407(1)	24	5845: 13717	39096: J-656	12	CI	130	FALSE	0	251.8	0.71	0	TRUE	24	251.8					
38675	J-503	37.1	<None>	<Collection: 0 items>	0	176.7	60.5		27581	3406	310	3427: 13622	5845: 13717	12	CI	25	FALSE	0	253.36	0.72	0.004	TRUE	310	253.36					
38679	J-504	0	<None>	<Collection: 0 items>	0	176.7	76.6		23156	3405	80	1250: 13612	3427: 13622	12	CI	25	FALSE	0	-98	0.28	0.001	TRUE	80	98					
38681	J-505	0	<None>	<Collection: 0 items>	0	176.6	76.6		34482	3404	99	16401: 13536	1250: 13612	12	CI	25	FALSE	0	-94.88	0.27	0.001	TRUE	99	94.88					
38683	J-506	0	<None>	<Collection: 0 items>	0	176.5	76.5		24148	3403	40	415: 14567	5074: 14579	8	AC	130	FALSE	0	-24.94	0.16	0	TRUE	40	24.94					
38686	J-508	51.5	<None>	<Collection: 0 items>	0	176.5	54.2		23074	3402	231	15348: 14465	415: 14567	8	AC	130	FALSE	0	-21.82	0.14	0	TRUE	231	21.82					
38698	J-512	51.5	<None>	<Collection: 0 items>	0	177.9	54.8		20276	3400	258	15876: 14331	13349: 14334	6	AC	60	FALSE	0	-17.09	0.19	0	TRUE	258	17.09					
38704	J-514	51.4	<None>	<Collection: 0 items>	0	178	54.9		25968	3399	51	12260: 14330	15876: 14331	6	AC	60	FALSE	0	-30.99	0.35	0	TRUE	51	30.99					
38708	J-515	0	<None>	<Collection: 0 items>	0	177.9	77.1		21630	3398	310	1247: 14327	12260: 14330	8	CI	60	FALSE	0	-27.87	0.18	0	TRUE	310	27.87					
38711	J-516	10.6	<None>	<Collection: 0 items>	0	177.9	72.5		19688	3397	51	2580: 14326	1247: 14327	8	CI	60	FALSE	0	-53.21	0.34	0	TRUE	51	53.21					
38714	J-517	0	<None>	<Collection: 0 items>	0	177.9	77.1		33002	3396	153	4668: 14325	2580: 14326	8	CI	60	FALSE	0	-50.09	0.32	0	TRUE	153	50.09					
38716	J-518	51.5	<None>	<Collection: 0 items>	0	177.9	54.8		39094	3395(2)	6	39092: J-655	4668: 14325	8	CI	60	FALSE	0	85.25	0.54	0.001	TRUE	6	85.25					
38845	J-566	31	<None>	<Collection: 0 items>	0	170.3	60.4		39093	3395(1)	147	2819: 14324	39092: J-655	8	CI	60	FALSE	0	-102.89	0.66	0.001	TRUE	147	102.89					
38870	J-575	64.3	<None>	<Collection: 0 items>	0	176.3	48.5		23017	3394	106	6180: 14323	2819: 14324	6	AC	60	FALSE	0	-99.77	1.13	0.004	TRUE	106	99.77					
38873	J-576	69	<None>	<Collection: 0 items>	0	176.3	46.5		29536	3393	269	1820: 14320	3856: 14182	6	AC	130	FALSE	0	75.79	0.86	0.001	TRUE	269	75.79					
39075	J-650	31.5	<None>	<Collection: 0 items>	0	171.9	60.9		25322	3392	20	8419: 14259	7239: 14271	8	AC	130	FALSE	0	-57.7	0.37	0	TRUE	20	57.7					
39078	J-651	31.5	<None>	<Collection: 0 items>	0	171.9	60.9		28863	3391	21	15519: 14249	8419: 14259	8	AC	130	FALSE	0	-54.58	0.35	0	TRUE	21	54.58					
39090	J-654	40	<None>	<Collection: 0 items>	0	173.7	58		39107	3390(2)	17	39105: J-660	11699: 14255	8	CI	130	FALSE	0	82.4	0.53	0	TRUE	17	82.4					
39092	J-655	33.4	<None>	<Collection: 0 items>	0	173.1	60.6		39106	3390(1)	163	5750: 14183	39105: J-660	8	CI	130	FALSE	0	-55.2	0.35	0	TRUE	163	55.2					
39096	J-656	38.9	<None>	<Collection: 0 items>	0	173.1	58.2		25967	3389	114	15444: 14196	14731: 14195	8	AC	130	FALSE	0	48.83	0.31	0	TRUE	114	48.83					
39099	J-657	0	<None>	<Collection: 0 items>	0	173.1	75		25351	3388	45	14731: 14195	14362: 14192	8	AC	130	FALSE	0	-41.69	0.27	0	TRUE	45	41.69					
39101	J-658	0	<None>	<Collection: 0 items>	0	172.7	74.9		19687	3387	282	10572: 14051	3856: 14182	8	AC	130	FALSE	0	8.9	0.06	0	TRUE	282	8.9					
39105	J-660	36.8	<None>	<Collection: 0 items>	0	172.7	58.9		33001	3386	209	2018: 14146	10572: 14051	6	AC	130	FALSE	0	-6.24	0.07	0	TRUE	209	6.24					
39155	J-677	0	<None>	<Collection: 0 items>	0	172.2	74.7		27437	3385	54	6852: 14057	5428: 14026	6	AC	130	FALSE	0	-1.56	0.02	0	TRUE	54	1.56					
39156	J-678	0	<None>	<Collection: 0 items>	0	172.2	74.7		18822	3384	47	5245: 13977	7026: 14001	8	AC	130	FALSE	0	24.5	0.16	0	TRUE	47	24.5					
39158	J-679	26	<None>	<Collection: 0 items>	0	172.2	63.4		18713	3383	6	14614: 13943	11878: 13952	12	CI	130	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	6	#VALUE!					
39163	J-681	25.1	<None>	<Collection: 0 items>	0	172.2	63.8		29265	3382	31	8540: 13805	4790: 13785	8	AC	130	FALSE	0	-38.53	0.25	0	TRUE	31	38.53					
39168	J-683	0	<None>	<Collection: 0 items>	0	172.2	74.7		28862	3381	16	5543: 13786	4790: 13785	6	AC	130	FALSE	0	41.65	0.47	0	TRUE	16	41.65					
39170	J-684	26.6	<None>	<Collection: 0 items>	0	172.2	63.1		17971	3380	281	12373: 13490	12251: 13655	8	AC	130	FALSE	0	63.98	0.41	0	TRUE	281	63.98					
39174	J-685	26.5	<None>	<Collection: 0 items>	0	172.3	63.2		22001	3379	7	8571: 13557	17535: 13544	6	AC	130	FALSE	0	-1.56	0.02	0	TRUE	7	1.56					
39177	J-686	0	<None>	<Collection: 0 items>	0	172.2	74.7		17943	3378	28	1810: 13545	523: 13511	12	PVC	130	FALSE	0	-156.74	0.44	0	TRUE	28	156.74					
39179	J-687	0	<None>	<Collection: 0 items>	0	172.2	74.7		33869	3377	31	14618: 13543	17535: 13544	8	AC	130	FALSE	0	-63.36	0.4	0	TRUE	31	63.36					
39181	J-688	0	<None>	<Collection: 0 items>	0	172.2	74.7		31866	3376	8	10414: 13542	14618: 13543	8	AC	130	FALSE	0	26.8	0.17	0	TRUE	8	26.8					
215	13228	56.4	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		27600	3375	184	8230: 12772	2143: 12616	20	STL	130	FALSE	0	-1,472.75	1.5	0	TRUE	184	1472.75					
1926	13580	39.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		24502	3374	307	5405: 13309	6021: 13470	12	CI	75	FALSE	0	213.05	0.6	0	TRUE	307	213.05					
2265	11680	50.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21431	3373	236	151: 13183	5405: 13309	12	CI	75	FALSE	0	224.73	0.64	0	TRUE	236	224.73					
3534	11706	51.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		18341	3372	193	16441: 12566	1286: 12642	10	AC	130	FALSE	0	-8.07	0.03	0	TRUE	193	8.07					
4041	11681	50.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		34254	3371	169	17347: 12544	1286: 12642	10	AC	130	FALSE	0	130.63	0.53	0	TRUE	169	130.63					
4122	13321	51.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		31100	3370	1	3336: 12908	11535: 12910	12	CI	130	FALSE	0	2.58	0.01	0	TRUE	1	2.58					
4443	13582	39.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		22000	3369	48	3487: 12981	14715: 12992	12	AC	130	FALSE	0	-200.05	0.57	0	TRUE	48	200.05					
4778	11782	51.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		17942	3368	21	3574: 12978	3487: 12981	12	AC	130	FALSE	0	-890.66	2.53	0.002	TRUE	21	890.66					
4855	13322	50.8	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		33868	3367	15	9274: 12976	3574: 12978	12	AC	130	FALSE	0	-316.91	0.9	0	TRUE	15	316.91					
5395	11707	51.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		31865	3366	233	13987: 12891	9274: 12976	12	AC	130	FALSE	0	-277.25	0.79	0	TRUE	233	277.25					
5545	13186	56.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		27599	3365	314	13987: 12891	5443: 12779	12	AC	130	FALSE	0	272.02	0.77	0	TRUE	314	272.02					
6016	11379	56.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		24501	3364	312	14617: 13443	12274: 13467	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	313	#VALUE!					
6022	13570	39.6	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21430	3363	241	9798: 13448	4855: 13322	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	241	#VALUE!					
7048	13174	57.1	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		18340	3362	210	14096: 13364	14617: 13443	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	210	#VALUE!					
8478	13449	46.1	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		34253	3361	188	14163: 13291	14096: 13364	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	188	#VALUE!					
8762	13175	56.8	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		31099	3360	264	4855: 13322	9466: 13176	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	264	#VALUE!					
9445	14103	33.1	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21047	3359	495	7048: 13174	14163: 13291	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	495	#VALUE!					
9466	13176	55.7	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		17945	3358	111	9466: 13176	8762: 13175	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	111	#VALUE!					
9798	13448	45.6	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		33871	3357	141	8762: 13175	7048: 13174	8	CI	60	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	141	#VALUE!					
10347	13454	46.4	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		30718	3356	287	15817: 12296	14448: 12343	6	PVC	130	FALSE	0	-34.34	0.39	0	TRUE	287	34.34					
11097	13951	34.9	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21433	3353	79	16258: 12336	15342: 12262	8	AC	130	FALSE	0	-135.49	0.86	0	TRUE	79	135.49					
11878	13952	35.3	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		28867	3351	26	10163: 12654	469: 12653	8	AC	130	FALSE	0	0	0	0	TRUE	26	0					
12006	12529	79	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		31102	3350	134	14590: 13431	9461: 13476	6	AC	130	FALSE	0	81.06	0.92	0.001	TRUE	134	81.06					
12274	13467	45.6	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21046	3349	231	1816: 13345	4142: 13473	8	PVC	130	FALSE	0	152.87	0.98	0.001	TRUE	231	152.87					
12499	14247	31.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		17944	3348	8	15905: 13465	9390: 13469	6	AC	130	FALSE	0	356.04	4.04	0.011	TRUE	8	356.04					
12578	13944	35.3	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		33870	3347	249	1994: 13329	15905: 13465	8	AC	130	FALSE	0	357.6	2.28	0.003	TRUE	249	357.6					
13731	14248	31.5	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		30717	3346	38	16400: 13436	10413: 13442	6	AC	130	FALSE	0	-9.28	0.11	0	TRUE	38	9.28					
14096	13364	48.3	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		27601	3345	206	10089: 13298	14590: 13431	6	AC	130	FALSE	0	87.3	0.99	0.001	TRUE	206	87.3					
14163	13291	51.8	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		24503	3344	187	10353: 13254	1816: 13345	8	PVC	130	FALSE	0	164.56	1.05	0.001	TRUE	187	164.56					
14174	13579	39.6	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21432	3343	283	4447: 13182	1994: 13329	12	PVC	130	FALSE	0	360.72	1.02	0	TRUE	283	360.72					
14404	13713	36.4	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		18342	3342	41	5546: 13286	10089: 13298	6	AC	130	FALSE	0	90.42	1.03	0.001	TRUE	41	90.42					
14614	13943	35.3	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		34255	3341	233	4147: 13173	5546: 13286	6	AC	130	FALSE	0	93.54	1.06	0.001	TRUE	233	93.54					
14617	13443	46.4	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		31101	3340	139	5631: 13179	10353: 13254	8	PVC	130	FALSE	0	176.24	1.12	0.001	TRUE	139	176.24					
14899	13292	51.9	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21041	3339	107	9271: 13150	4147: 13173	6	AC	130	FALSE	0	-115.43	1.31	0.001	TRUE	107	115.43					
15912	13365	48.2	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		21634	3338	225	14805: 13061	4147: 13173	6	AC	130	FALSE	0	210.53	2.39	0.004	TRUE	225	210.53					
16612	13466	44.4	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		33865	3337	30	2878: 13159	13032: 13160	12	PVC	130	FALSE	0	-135.08	0.38	0	TRUE	30	135.08					
16998	12569	75.5	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		31862	3336	715	5473: J34	2348: 12246	16	AC	130	FALSE	0	-84.95	0.14	0	TRUE	715	84.95					
17307	13714	36.4	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		27596	3335	320	3914: 12921	14805: 13061	6	AC	130	FALSE	0	213.65	2.42	0.004	TRUE	320	213.65					
17515	14111	32.7	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		24498	3334	140	12103: 12767	15697: 12765	12	AC	130	FALSE	0	373.85	1.06	0	TRUE	140	373.85					
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37593	J-SETM-b	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		18337	3332	44	10951: 12763	16443: 12766	12	AC	130	FALSE	0	358.36	1.02	0	TRUE	44	358.36					
									34250	3331	19	15697: 12765	13899: 12764	12	AC	130	FALSE	0	368.69	1.05	0	TRUE	19	368.69					
									31096	3330	58	13899: 12764	10951: 12763	12	AC	130	FALSE	0	363.52	1.03	0	TRUE	58	363.52					
									21040	3329	110	12885: 12760	191: 12759	12	AC	130	FALSE	0	342.54	0.97	0	TRUE	110	342.54					
									17939	3328	435	11683: 12652	12856: 12656	12	AC	130	FALSE	0	-116.08	0.33	0	TRUE	435	116.08					
									33864	3327	20	12856: 12656	12074: 12655	12	AC	130	FALSE	0	0	0	0	TRUE	20	0					
									33003	3326	379	558: 12641	4674: 12640	12	AC	130	FALSE	0	-116.08	0.33	0	TRUE	379	116.08					
									27595	3325	417	6420: 12639	7363: 12353	12	AC	130	FALSE	0	-146.17	0.41	0	TRUE	417	146.17					
									18339	3312	4	7363: 12353	15514: 12347	12	AC	130	TRUE	0	0	0	0	TRUE	4	0					
									30410	3310	32	15514: 12347	397: 12323	12	AC	130	FALSE	0	15.08	0.04	0	TRUE	32	15.08					
									17941	3308	9	5798: 12326	1469: 12327	10	AC	130	FALSE	0	2.69	0.01	0	TRUE	9	2.69					
									33866	3307	39	5047: 12325	5798: 12326	10	AC	130	FALSE	0	-160.59	0.66	0	TRUE	39	160.59					
									31863	3306	94	5047: 12325	3157: 12324	10	AC	130	FALSE	0	153.4	0.63	0	TRUE	94	153.4					
									27597	3305	353	14086: 12148	13307: 12294	10	AC	130	FALSE	0	80.8	0.33	0	TRUE	353	80.8					
									18338	3302	10	15342: 12262	10953: 12263	6	AC	130	FALSE	0	-37.46	0.43	0	TRUE	10	37.46					
									34251	3301	331	8588: 12175	15902: 12149	10	AC	130	FALSE	0	-172.16	0.7	0	TRUE	331	172.16					
									31097	3300	45	15902: 12149	14086: 12148	10	AC	130	FALSE	0	-177.45	0.72	0	TRUE	45	177.45					
									24953	3282	12	7324: 11875	8650: 11874	12	AC	130	FALSE	0	8.62	0.02	0	TRUE	12	8.62					
									21836	3281	11	7354: 11674	6011: 11679	12	AC	130	FALSE	0	258.38	0.73	0	TRUE	11	258.38					
									34454	3276	14	10851: 11493	4130: 11478	6	PVC	130	FALSE	0	-5.11	0.06	0	TRUE	14	5.11					
									30040	3275	53	5620: 11477	483: 11483	8	PVC	130	FALSE	0	25.54	0.16	0	TRUE	53	25.54					
									31177	3274	8	4130: 11478	5620: 11477	8	PVC	130	FALSE	0	35.76	0.23	0	TRUE	8	35.76					
									21273	3273	25	7352: 11474	4130: 11478	8	PVC	130	FALSE	0	45.97	0.29	0	TRUE	25	45.97					
									30686	3272	20	3741: 11476	7352: 11474	8	PVC	130	FALSE	0	56.19	0.36	0	TRUE	20	56.19					
									31508	3271	56	9093: 11475	3741: 11476	8	PVC	130	FALSE	0	66.41	0.42	0	TRUE	56	66.41					
									18776	3270	21	4514: 11473	4287: 11503	8	AC	130	FALSE	0	79.37	0.51	0	TRUE	21	79.37					
									30477	3269	75	2164: 11445	4514: 11473	8	AC	130	FALSE	0	161.11	1.03	0.001	TRUE	75	161.11					
									19828	3267	1	12652: 11355	10723: 11354	12	AC	130	FALSE	0	-5.11	0.01	0	TRUE	1	5.11					
									34453	3266	42	13147: 11330	11120: 11368	8	AC	130	FALSE	0	71.92	0.46	0	TRUE	42	71.92					
									19782	3262	244	5045: 12125	560: 12041	8	PVC	130	FALSE	0	-6.55	0.04	0	TRUE	244	6.55					
									31507	3261	439	177: 11814	10588: 12068	10	PVC	130	FALSE	0	262.27	1.07	0.001	TRUE	439	262.27					
									18775	3260	550	371: 12011	560: 12041	8	PVC	130	FALSE	0	11.83	0.08	0	TRUE	550	11.83					

									27679	3259	133	16058: 12010	371: 12011	8	PVC	130	FALSE	0	17.12	0.11	0	TRUE	133	17.12					
									24581	3258	448	16075: 11947	1588: 11812	8	PVC	130	FALSE	0	-133.18	0.85	0	TRUE	448	133.18					
									21502	3257	358	1915: 11689	7324: 11875	12	AC	130	FALSE	0	115.28	0.33	0	TRUE	358	115.28					
									18412	3256	46	14746: 11813	177: 11814	10	PVC	130	FALSE	0	-146.4	0.6	0	TRUE	46	146.4					
									34331	3255	5	6341: 11770	13357: 11760	12	AC	130	FALSE	0	-6.46	0.02	0	TRUE	5	6.46					
									28059	3253	5	13357: 11760	9257: 11759	12	AC	130	FALSE	0	-100.22	0.28	0	TRUE	5	100.22					
									24963	3252	95	9257: 11759	7520: 11758	8	AC	130	FALSE	0	-106.68	0.68	0	TRUE	95	106.68					
									31509	3251	292	7520: 11758	14247: 11746	8	AC	130	FALSE	0	-123.72	0.79	0	TRUE	292	123.72					
									18778	3250	22	7209: 11756	8924: 11757	12	AC	130	FALSE	0	-87.3	0.25	0	TRUE	22	87.3					
									27678	3249	619	7209: 11756	11473: 11751	12	AC	130	FALSE	0	181.48	0.51	0	TRUE	619	181.48					
									24580	3248	26	11473: 11751	9575: 11750	12	AC	130	FALSE	0	181.48	0.51	0	TRUE	26	181.48					
									21501	3247	34	14247: 11746	16081: 11747	12	AC	130	FALSE	0	-135.64	0.38	0	TRUE	34	135.64					
									31518	3246	1,558	16418: 11649	12835: 11739	42	STL	130	FALSE	0	2,261.11	0.52	0	TRUE	1,558	2261.11					
									18777	3240	216	16050: 11435	14961: 11543	8	AC	130	FALSE	0	74.58	0.48	0	TRUE	216	74.58					
									18215	3237	291	12435: 11437	10540: 11436	6	AC	130	FALSE	0	12.36	0.14	0	TRUE	291	12.36					
									34449	3236	158	1919: 11289	11283: 11333	8	AC	130	FALSE	0	82.95	0.53	0	TRUE	158	82.95					
									21626	3235	2	141: 11288	1919: 11289	8	AC	130	FALSE	0	120.85	0.77	0	TRUE	2	120.85					
									19270	2558	27	17020: 16008	1484: 16020	8	AC	130	FALSE	0	19.06	0.12	0	TRUE	27	19.06					
									35165	2557	7	6678: 16001	17020: 16008	8	AC	130	FALSE	0	30.74	0.2	0	TRUE	7	30.74					
									32037	2556	143	8052: 16259	15833: 16293	8	PVC	130	FALSE	0	31.08	0.2	0	TRUE	143	31.08					
									28898	2555	81	7914: 16175	16923: 16214	8	PVC	130	FALSE	0	-5.78	0.04	0	TRUE	81	5.78					
									22486	2554	87	15158: 16149	8604: 16176	8	PVC	130	FALSE	0	-32.29	0.21	0	TRUE	87	32.29					
									18150	2553	44	12297: 16158	7914: 16175	8	PVC	130	FALSE	0	0.07	0	0	TRUE	44	0.07					
									32743	2552	127	13715: 16131	8429: 16150	12	AC	130	FALSE	0	-139.72	0.4	0	TRUE	127	139.72					
									21167	2551	27	11495: 16139	15158: 16149	8	PVC	130	FALSE	0	-68.64	0.44	0	TRUE	27	68.64					
									34491	2550	134	5063: 16126	927: 16145	8	PVC	130	FALSE	0	-21.83	0.14	0	TRUE	134	21.83					
									22339	2549	92	1359: 16132	11495: 16139	8	PVC	130	FALSE	0	-62.8	0.4	0	TRUE	92	62.8					
									24675	2548	136	14959: 16119	6892: 16071	8	PVC	130	FALSE	0	-23.23	0.15	0	TRUE	136	23.23					
									35164	2547	22	13751: 16117	15317: 16110	8	AC	130	FALSE	0	5.84	0.04	0	TRUE	22	5.84					
									32036	2546	25	4512: 16009	13750: 16017	8	PVC	130	FALSE	0	-35.83	0.23	0	TRUE	25	35.83					
									28897	2545	9	13341: 15953	3755: 15954	6	CI	130	FALSE	0	12.44	0.14	0	TRUE	9	12.44					
									25795	2544	130	17335: 15928	13341: 15953	6	CI	130	FALSE	0	24.13	0.27	0	TRUE	130	24.13					
									22688	2543	3	1279: 15927	17335: 15928	6	CI	130	FALSE	0	-5.84	0.07	0	TRUE	3	5.84					
									19634	2542	136	14194: 15869	8072: 15920	12	PVC	130	FALSE	0	47.37	0.13	0	TRUE	136	47.37					
									35495	2541	4	1860: 14817	4310: 14822	20	STL	130	FALSE	0	1,403.46	1.43	0	TRUE	4	1403.46					
									32404	2540	110	4310: 14822	14266: 14861	20	STL	130	FALSE	0	1,391.78	1.42	0	TRUE	110	1391.78					
									22335	2539	424	8048: 15272	13686: 15418	8	PVC	130	FALSE	0	121.88	0.78	0	TRUE	424	121.88					
									22817	2538	421	13686: 15418	4862: 15625	8	PVC	130	FALSE	0	75.92	0.48	0	TRUE	421	75.92					
									35159	2537	6	5945: 15083	16902: 15088	12	PVC	130	FALSE	0	-155.26	0.44	0	TRUE	6	155.26					
									32031	2536	37	3178: 14978	6492: 15004	12	PVC	130	FALSE	0	-79.02	0.22	0	TRUE	37	79.02					
									28892	2535	37	12491: 14960	16729: 14988	12	PVC	130	FALSE	0	-29.21	0.08	0	TRUE	37	29.21					
									22481	2534	32	14266: 14861	7230: 14871	20	STL	130	FALSE	0	1,380.09	1.41	0	TRUE	32	1380.09					
									32492	2533	6	228: 14841	2009: 14846	6	AC	130	FALSE	0	5.84	0.07	0	TRUE	6	5.84					
									20952	2532	24	9300: 14797	7441: 14807	20	STL	130	FALSE	0	1,420.99	1.45	0	TRUE	24	1420.99					
									34489	2530	92	8908: 15806	1892: 15840	12	PVC	130	FALSE	0	-2.59	0.01	0	TRUE	92	2.59					
									21062	2528	2	9558: 15803	7855: 15802	6	AC	130	FALSE	0	0	0	0	TRUE	2	0					
									35158	2527	284	8356: 15709	1700: 15786	12	AC	130	FALSE	0	-189.78	0.54	0	TRUE	284	189.78					
									32030	2526	194	17341: 15728	1576: 15680	12	PVC	130	FALSE	0	-74.01	0.21	0	TRUE	194	74.01					
									28891	2525	34	6491: 15704	8356: 15709	6	AC	130	FALSE	0	41.23	0.47	0	TRUE	34	41.23					
									18143	2523	131	1576: 15680	10155: 15638	12	PVC	130	FALSE	0	-82.95	0.24	0	TRUE	131	82.95					
									26802	2522	188	10155: 15638	4454: 15585	12	PVC	130	FALSE	0	-94.63	0.27	0	TRUE	188	94.63					
									21164	2521	48	196: 15611	2529: 15630	6	AC	130	FALSE	0	15.85	0.18	0	TRUE	48	15.85					
									34488	2520	412	2620: 15413	3144: 15608	6	AC	130	FALSE	0	55.5	0.63	0	TRUE	412	55.5					
									22819	2518	12	14935: 15600	6490: 15604	6	AC	130	FALSE	0	27.53	0.31	0	TRUE	12	27.53					
									35655	2517	10	9710: 15598	14935: 15600	6	AC	130	FALSE	0	33.37	0.38	0	TRUE	10	33.37					
									32033	2516	93	2983: 15524	9710: 15598	6	AC	130	FALSE	0	39.22	0.44	0	TRUE	93	39.22					
									28894	2515	193	4454: 15585	1511: 15463	12	PVC	130	FALSE	0	-90.3	0.26	0	TRUE	193	90.3					
									22685	2513	12	1260: 15515	2983: 15524	6	AC	130	FALSE	0	45.06	0.51	0	TRUE	12	45.06					
									19631	2512	6	4504: 15422	4220: 15419	12	PVC	130	FALSE	0	-101.98	0.29	0	TRUE	6	101.98					
									35492	2511	162	15528: 15365	15106: 15417	6	AC	130	FALSE	0	53.96	0.61	0	TRUE	162	53.96					
									32401	2510	27	6704: 15374	11899: 15355	6	AC	130	FALSE	0	0.68	0.01	0	TRUE	27	0.68					
									22336	2509	415	14537: 15192	15528: 15365	6	AC	130	FALSE	0	65.64	0.74	0	TRUE	415	65.64					
									21064	2508	5	11899: 15355	12408: 15351	6	AC	130	FALSE	0	-31.6	0.36	0	TRUE	5	31.6					
									36168	2507	129	9969: 15354	5417: 15300	12	PVC	130	FALSE	0	-79.4	0.23	0	TRUE	129	79.4					
									32032	2506	181	5417: 15300	2187: 15246	12	PVC	130	FALSE	0	-85.24	0.24	0	TRUE	181	85.24					
									28893	2505	173	16366: 15293	9616: 15232	6	AC	130	FALSE	0	-69.72	0.79	0.001	TRUE	173	69.72					
									22482	2504	410	12692: 15060	8048: 15272	8	PVC	130	FALSE	0	133.56	0.85	0	TRUE	410	133.56					
									22684	2503	14	2187: 15246	10159: 15238	12	PVC	130	FALSE	0	-83.46	0.24	0	TRUE	14	83.46					
									20953	2502	284	10159: 15238	16862: 15108	12	PVC	130	FALSE	0	-95.14	0.27	0	TRUE	284	95.14					
									28323	2501	409	9616: 15232	9145: 15029	6	AC	130	FALSE	0	-69.72	0.79	0.001	TRUE	409	69.72					
									34490	2500	42	16862: 15108	14536: 15092	12	PVC	130	FALSE	0	-119.28	0.34	0	TRUE	42	119.28					
									28963	2499	284	14536: 15092	15872: 15010	12	PVC	130	FALSE	0	-130.96	0.37	0	TRUE	284	130.96					
									25873	2498	392	3558: 14921	3292: 15081	6	AC	130	FALSE	0	78.01	0.89	0.001	TRUE	392	78.01					
									19264	2497	25	14240: 15031	10702: 15047	6	AC	130	FALSE	0	86.5	0.98	0.001	TRUE	25	86.5					
									19714	2496	409	9145: 15029	5826: 14879	6	AC	130	FALSE	0	-81.4	0.92	0.001	TRUE	409	81.4					
									35571	2495	41	15872: 15010	2664: 14989	12	PVC	130	FALSE	0	-149.37	0.42	0	TRUE	41	149.37					
									32471	2494	309	2664: 14989	7895: 14872	12	PVC	130	FALSE	0	-161.05	0.46	0	TRUE	309	161.05					
									29358	2493	7	229: 14941	16589: 14933	6	AC	130	FALSE	0	5.84	0.07	0	TRUE	7	5.84					
									26240	2492	88	2972: 14808	10224: 14760	12	AC	130	FALSE	0	49.56	0.14	0	TRUE	88	49.56					
									23114	2491	45	11127: 13663	14252: 13648	6	AC	130	FALSE	0	6.32	0.07	0	TRUE	45	6.32					
									20086	2490	141	10751: 13668	525: 13711	8	AC	130	FALSE	0	-69.35	0.44	0	TRUE	141	69.35					
									28034	2489	59	11103: 13751	14160: 13791	6	AC	130	FALSE	0	-3.12	0.04	0	TRUE	59	3.12					
									19263	2487	24	15991: 13996	2978: 14008	20	STL	130	FALSE	0	1,464.95	1.5	0	TRUE	24	1464.95					
									33912	2486	141	543: 13923	15991: 13996	20	STL	130	FALSE	0	1,464.95	1.5	0	TRUE	141	1464.95					
									35570	2485	1,482	13728: 14748	2978: 14008	20	STL	130	FALSE	0	-1,432.67	1.46	0	TRUE	1,479	1432.67					
									25076	2484	230	148: 13683	2777: 13772	16	AC	130	FALSE	0	493.06	0.79	0	TRUE	230	493.06					
									20707	2483	50	13023: 13860	12839: 13830	6	AC	130	FALSE	0	-13.87	0.16	0	TRUE	70	13.87					
									35299	2482	1	1788: 14716	1866: 14717	6	-8	130	FALSE	0	5.84	0.07	0	TRUE	1	5.84					
									30900	2481	8	811: 14739	17323: 14740	6	AC	130	FALSE	0	113.06	1.28	0.001	TRUE	8	113.06					
									26524	2480	145	11303: 14752	11825: 14690	12	AC	130	FALSE	0	-10.89	0.03	0	TRUE	145	10.89					
									28043	2479	12	12495: 14647	13170: 14653	12	PVC	130	FALSE	0	55.64	0.16	0	TRUE	12	55.64					
									29446	2475	29	811: 14739	1788: 14716	12	PVC	130	FALSE	0	-288.66	0.82	0	TRUE	29	288.66					
									21874	2474	125	11825: 14690	10223: 14660	12	AC	130	FALSE	0	-66.94	0.19	0	TRUE	125	66.94					
									31011	2473	172	10223: 14660	2454: 14584	12	AC	130	FALSE	0	22	0.06	0	TRUE	172	22					
									35310	2472	32	2015: 14646	6850: 14657	6	AC	130	FALSE	0	76.45	0.87	0.001	TRUE	32	76.45					
									19680	2471	135	16109: 14566	1242: 14627	8	AC	130	FALSE	0	93.62	0.6	0	TRUE	135	93.62					
									32996	2470	322	2454: 14584	10892: 14450	12	AC	130	FALSE	0	-47.23	0.13	0	TRUE	322	47.23					
									28042	2469	192	13726: 14548	6689: 14458	8	AC	130	FALSE	0	7.8	0.05	0	TRUE	192	7.8					
									33640	2468	152	10892: 14450	12608: 14322	12	AC	130	FALSE	0	-93.28	0.26	0	TRUE	152	93.28					
									19273	2467	26	12608: 14322	13224: 14312	12	AC	130	FALSE	0	-96.4	0.27	0	TRUE	26	96.4					
									33919	2466	389	16771: 14314	8766: 14150	6	AC	130	FALSE	0	-68.13	0.77	0.001	TRUE	389	68.13					
									23298	2465	172	13224: 14312	17516: 14211	12	AC	130	FALSE	0	-135.75	0.39	0	TRUE	172	135.75					
									29252	2464	328	17516: 14211	3566: 14121	12	AC	130	FALSE	0	-209.27	0.59	0	TRUE	328	209.27					
									29364	2463	6	3566: 14121	15305: 14119	12	AC	130	FALSE	0	-226.43	0.64	0	TRUE	6	226.43					
									26249	2462	239	15305: 14119	6332: 14004	12	AC	130	FALSE	0	-306.24	0.87	0	TRUE	239	306.24					
									23121	2461	38	16769: 14114	6799: 14087	8	AC	130	FALSE	0	-47.93	0.31	0	TRUE	38	47.93					
									26532	2460	158	7451: 14107	8765: 14050	6	AC	130	FALSE	0	-14.04	0.16	0	TRUE	158	14.04					
									28973	2459	193	12797: 14027	7451: 14107	6	AC	130	FALSE	0	-7.8	0.09	0	TRUE	193	7.8					
									25883	2458	190	12372: 13990	6799: 14087	6	AC	130	FALSE	0	-7.8	0.09	0	TRUE	190	7.8					
									22765	2457	45	2929: 13984	6018: 13970	12	STL	130	FALSE	0	-800.13	2.27	0.002	TRUE	45	800.13					
									19723	2456	79	4440: 13982	9299: 13954	6	AC	130	FALSE	0	3.12	0.04	0	TRUE	79	3.12					
									23301	2455	167	14253: 13748	12437: 13839	8	AC	130	FALSE	0	60.4	0.39	0	TRUE	167	60.4					
									32483	2454	60	4851: 13722	8930: 13759	6	AC	130	FALSE	0	-4.68	0.05	0	TRUE	60	4.68					
									31013	2453	265	8930: 13759	1251: 13712	8	AC	130	FALSE	0	-57.13	0.36	0	TRUE	265	57.13					
									26252	2452	29	17537: 13744	12444: 13739	8	AC	130	FALSE	0	4.68	0.03	0	TRUE	29	4.68					
									23124	2451	68	13029: 13660	1566: 13689	6	AC	130	FALSE	0	-3.12	0.04	0	TRUE	68	3.12					
									20097	2450	213	3749: 13678	7214: 13658	8	AC	130	FALSE	0	-6.73	0.04	0	TRUE	213	6.73					
									28044	2449	145	2334: 13020	8636: 13127	8	PVC	130	FALSE	0	3.01	0.02	0	TRUE	145	3.01					

									23595	2448	57	10987: 12999	2334: 13020	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	57	9.04					
									31178	2447	30	16091: 13349	15662: 13335	6	AC	130	FALSE	0	-3.04	0.03	0	TRUE	30	3.04					
									33921	2446	51	8001: 12902	1391: 12889	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	53	9.04					
									23300	2445	58	4651: 12622	17348: 12644	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	58	9.04					
									25086	2444	300	6718: 12533	12075: 12755	12	PVC	130	FALSE	0	39.02	0.11	0	TRUE	300	39.02					
									31012	2443	55	12075: 12755	794: 12709	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	55	9.04					
									35311	2442	63	6718: 12533	17104: 12514	8	PVC	130	FALSE	0	49.97	0.32	0	TRUE	63	49.97					
									30910	2441	63	12079: 12355	12189: 12390	12	PVC	130	FALSE	0	113.11	0.32	0	TRUE	63	113.11					
									32997	2440	46	10921: 12451	4592: 12485	12	PVC	130	FALSE	0	69.52	0.2	0	TRUE	46	69.52					
									28039	2439	33	12182: 12490	1115: 12503	8	PVC	130	FALSE	0	8.36	0.05	0	TRUE	33	8.36					
									23591	2438	65	5815: 12970	3907: 13003	8	PVC	130	FALSE	0	15.07	0.1	0	TRUE	65	15.07					
									22759	2437	258	10987: 12999	16241: 13010	12	PVC	130	FALSE	0	21.28	0.06	0	TRUE	258	21.28					
									33916	2436	278	5437: 12979	10987: 12999	12	PVC	130	FALSE	0	33.34	0.09	0	TRUE	278	33.34					
									35575	2435	50	16241: 13010	8635: 13027	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	51	9.04					
									29249	2434	170	13846: 12918	5437: 12979	12	PVC	130	FALSE	0	45.4	0.13	0	TRUE	170	45.4					
									31007	2433	51	13846: 12918	1643: 12945	8	PVC	130	FALSE	0	15.07	0.1	0	TRUE	51	15.07					
									26246	2432	228	1747: 12580	12485: 12769	6	AC	130	FALSE	0	-6.03	0.07	0	TRUE	228	6.03					
									30905	2431	50	10294: 12393	13308: 12394	8	AC	130	FALSE	0	-50.24	0.32	0	TRUE	50	50.24					
									32992	2430	263	11879: 12437	1753: 12380	8	PVC	130	FALSE	0	5.9	0.04	0	TRUE	263	5.9					
									28038	2429	99	12107: 12367	11879: 12437	8	PVC	130	FALSE	0	10.35	0.07	0	TRUE	99	10.35					
									23590	2428	3	12107: 12367	10591: 12368	8	AC	130	FALSE	0	-29.13	0.19	0	TRUE	3	29.13					
									19269	2427	377	10292: 12193	12107: 12367	8	AC	130	FALSE	0	-15.76	0.1	0	TRUE	377	15.76					
									33915	2426	97	1218: 13187	12279: 13167	12	STL	130	FALSE	0	-626.91	1.78	0.001	TRUE	97	626.91					
									29442	2425	55	14801: 13461	9013: 13452	8	AC	130	FALSE	0	-127.1	0.81	0	TRUE	55	127.1					
									17721	2424	61	3353: 13324	16000: 13296	8	AC	130	FALSE	0	3.12	0.02	0	TRUE	61	3.12					
									20711	2423	16	8551: 13305	16000: 13296	6	AC	130	FALSE	0	-1.56	0.02	0	TRUE	16	1.56					
									25348	2422	132	12279: 13167	17258: 13088	12	STL	130	FALSE	0	-628.47	1.78	0.001	TRUE	132	628.47					
									19677	2421	9	10417: 13142	12848: 13130	6	AC	130	FALSE	0	-112.31	1.27	0.001	TRUE	9	112.31					
									32991	2420	55	16404: 13036	9017: 13052	8	AC	130	FALSE	0	-80.92	0.52	0	TRUE	55	80.92					
									28041	2419	284	2139: 12916	16404: 13036	8	AC	130	FALSE	0	-76.9	0.49	0	TRUE	284	76.9					
									19146	2418	63	3486: 12881	2139: 12916	8	AC	130	FALSE	0	-64.83	0.41	0	TRUE	63	64.83					
									34716	2417	239	8412: 12157	17353: 12344	6	AC	130	FALSE	0	-6.03	0.07	0	TRUE	239	6.03					
									33918	2416	54	9279: 12176	10292: 12193	8	AC	130	FALSE	0	-3.7	0.02	0	TRUE	54	3.7					
									29444	2415	38	5072: 12177	10292: 12193	6	AC	130	FALSE	0	-9.04	0.1	0	TRUE	38	9.04					
									29251	2414	43	9579: 11350	11477: 11351	12	PVC	130	FALSE	0	154.39	0.44	0	TRUE	43	154.39					
									22306	2413	116	11884: 12137	13900: 12064	8	AC	130	FALSE	0	-5.34	0.03	0	TRUE	116	5.34					
									25350	2412	54	10952: 12063	13900: 12064	6	AC	130	FALSE	0	-6.03	0.07	0	TRUE	54	6.03					
									19679	2411	253	9596: 11865	13900: 12064	8	AC	130	FALSE	0	14.38	0.09	0	TRUE	253	14.38					
									32994	2410	54	14433: 11864	9596: 11865	6	AC	130	FALSE	0	-9.04	0.1	0	TRUE	54	9.04					
									28040	2409	57	3738: 11876	16412: 11849	8	AC	130	FALSE	0	-8.39	0.05	0	TRUE	57	8.39					
									34715	2407	40	13143: 11730	14038: 11716	12	AC	130	FALSE	0	207.46	0.59	0	TRUE	40	207.46					
									33917	2406	8	10543: 11736	13143: 11730	12	AC	130	FALSE	0	258.38	0.73	0	TRUE	8	258.38					
									29443	2405	33	1793: 11842	9568: 11850	8	AC	130	FALSE	0	50.92	0.33	0	TRUE	33	50.92					
									29250	2404	235	9568: 11850	16412: 11849	8	AC	130	FALSE	0	15.43	0.1	0	TRUE	235	15.43					
									25349	2402	40	10542: 11636	14392: 11618	12	PVC	130	FALSE	0	-143.99	0.41	0	TRUE	40	143.99					
									19678	2401	272	5207: 11822	10542: 11636	12	PVC	130	FALSE	0	-137.96	0.39	0	TRUE	272	137.96					
									26530	2400	40	12431: 11837	5207: 11822	12	PVC	130	FALSE	0	-131.93	0.37	0	TRUE	40	131.93					
									31327	2399	37	14634: 12061	1438: 12015	12	PVC	130	FALSE	0	-119.87	0.34	0	TRUE	37	119.87					
									27542	2398	96	15852: 11517	16565: 11510	12	PVC	130	FALSE	0	-150.02	0.43	0	TRUE	96	150.02					
									23465	2397	616	4045: 11281	10485: 11208	12	PVC	130	FALSE	0	-373.87	1.06	0	TRUE	616	373.87					
									19148	2396	306	8895: 11405	4775: 11482	8	PVC	130	FALSE	0	-18.66	0.12	0	TRUE	306	18.66					
									33769	2395	287	8033: 11371	8895: 11405	8	PVC	130	FALSE	0	-15.04	0.1	0	TRUE	287	15.04					
									31917	2394	175	5600: 12000	15299: 12117	8	PVC	130	FALSE	0	-91.86	0.59	0	TRUE	175	91.86					
									24962	2393	54	482: 11983	5600: 12000	8	PVC	130	FALSE	0	-85.83	0.55	0	TRUE	54	85.83					
									20572	2392	60	16224: 11819	2160: 11845	8	PVC	130	FALSE	0	-76.78	0.49	0	TRUE	60	76.78					
									25811	2391	51	16566: 11610	3717: 11624	8	PVC	130	FALSE	0	9.04	0.06	0	TRUE	51	9.04					
									30441	2383	17	12364: 11599	5152: 11585	6	PVC	130	FALSE	0	0	0	0	TRUE	17	0					
									30767	2380	20	14520: 11691	15225: 11692	6	AC	130	FALSE	0	-29.46	0.33	0	TRUE	20	29.46					
									27064	1895	3	4865: 15125	4509: 15122	12	AC	130	FALSE	0	32.28	0.09	0	TRUE	3	32.28					
									22635	1894	301	7529: 13653	8197: 13602	8	AC	130	FALSE	0	159.13	1.02	0.001	TRUE	301	159.13					
									27271	1893	9	8197: 13602	7505: 13601	8	AC	130	FALSE	0	113.67	0.73	0	TRUE	9	113.67					
									32924	1892	5	7505: 13601	15995: 13596	8	AC	130	FALSE	0	22.73	0.15	0	TRUE	5	22.73					
									22092	1891	150	7702: 13671	12845: 13630	12	AC	130	FALSE	0	-49.23	0.14	0	TRUE	150	49.23					
									24113	1890	541	13006: 13356	5544: 13086	12	AC	130	FALSE	0	-229.19	0.65	0	TRUE	541	229.19					
									27947	1889	262	4121: 13221	152: 13283	8	PVC	130	FALSE	0	-3.11	0.02	0	TRUE	262	3.11					
									24844	1888	34	5229: 13225	15661: 13235	8	AC	130	FALSE	0	32.69	0.21	0	TRUE	34	32.69					
									21748	1887	281	1568: 13089	4121: 13221	8	PVC	130	FALSE	0	1.87	0.01	0	TRUE	281	1.87					
									18660	1886	210	7047: 13074	14406: 13113	10	PVC	130	FALSE	0	-19.15	0.08	0	TRUE	210	19.15					
									27063	1885	21	5544: 13086	2877: 13059	12	AC	130	FALSE	0	-290.33	0.82	0	TRUE	21	290.33					
									22634	1884	331	13892: 12864	17538: 13044	8	AC	130	FALSE	0	82.52	0.53	0	TRUE	331	82.52					
									28302	1883	31	17029: 13037	12847: 13030	10	PVC	130	FALSE	0	4.83	0.02	0	TRUE	31	4.83					
									32923	1882	20	11414: 12997	5030: 13007	8	PVC	130	FALSE	0	-12.75	0.08	0	TRUE	20	12.75					
									22091	1881	374	13303: 12694	11414: 12997	8	PVC	130	FALSE	0	-7.78	0.05	0	TRUE	374	7.78					
									24112	1880	280	15332: 12862	15333: 12962	8	PVC	130	FALSE	0	2.13	0.01	0	TRUE	280	2.13					
									25613	1879	293	1465: 12727	10919: 12951	8	PVC	130	FALSE	0	-3.37	0.02	0	TRUE	293	3.37					
									21244	1878	27	3941: 12873	17467: 12883	10	PVC	130	FALSE	0	10.1	0.04	0	TRUE	27	10.1					
									21758	1877	245	5043: 12725	8223: 12872	8	PVC	130	FALSE	0	-9.35	0.06	0	TRUE	245	9.35					
									18667	1876	326	8006: 12602	13892: 12864	8	AC	130	FALSE	0	87.5	0.56	0	TRUE	326	87.5					
									27073	1875	381	4673: 12540	15332: 12862	8	PVC	130	FALSE	0	4.62	0.03	0	TRUE	381	4.62					
									31438	1874	81	6660: 12604	10949: 12563	10	PVC	130	FALSE	0	-61.22	0.25	0	TRUE	81	61.22					
									28311	1873	42	10949: 12563	10162: 12554	10	PVC	130	FALSE	0	-66.2	0.27	0	TRUE	42	66.2					
									25234	1872	140	12719: 12519	7036: 12558	8	PVC	130	FALSE	0	1.3	0.01	0	TRUE	140	1.3					
									22100	1871	7	10162: 12554	11682: 12552	10	PVC	130	FALSE	0	-71.18	0.29	0	TRUE	7	71.18					
									19028	1870	89	11682: 12552	8380: 12505	10	PVC	130	FALSE	0	-97.95	0.4	0	TRUE	89	97.95					
									21243	1868	14	4650: 12522	3151: 12524	8	PVC	130	FALSE	0	20.86	0.13	0	TRUE	14	20.86					
									21757	1867	22	17471: 12483	15077: 12495	8	PVC	130	FALSE	0	146.34	0.93	0.001	TRUE	22	146.34					
									18666	1866	258	11669: 12413	1068: 12412	8	PVC	130	FALSE	0	-103.86	0.66	0	TRUE	258	103.86					
									27072	1865	43	1068: 12412	8004: 12402	8	PVC	130	FALSE	0	-171.24	1.09	0.001	TRUE	43	171.24					
									22099	1861	144	6152: 11300	5599: 11325	8	PVC	130	FALSE	0	-20.8	0.13	0	TRUE	144	20.8					
									25615	1859	154	14418: 12131	15698: 12065	10	AC	130	FALSE	0	-302.68	1.24	0.001	TRUE	154	302.68					
									21246	1858	41	1399: 12089	2146: 12116	10	PVC	130	FALSE	0	9.04	0.04	0	TRUE	41	9.04					
									21760	1857	7	12076: 12055	15901: 12049	10	AC	130	FALSE	0	-310.53	1.27	0.001	TRUE	7	310.53					
									18669	1856	450	16053: 11735	8383: 12005	8	AC	130	FALSE	0	245.03	1.56	0.001	TRUE	450	245.03					
									34550	1855	15	1911: 11989	14517: 11991	10	AC	130	FALSE	0	246.49	1.01	0	TRUE	15	246.49					
									31440	1854	56	15129: 11961	135: 11988	10	PVC	130	FALSE	0	16.88	0.07	0	TRUE	56	16.88					
									28313	1853	45	5617: 11977	5955: 11944	10	PVC	130	FALSE	0	0.04	0	0	TRUE	45	0.04					
									25236	1852	9	9569: 11950	12234: 11952	10	AC	130	FALSE	0	262.18	1.07	0.001	TRUE	9	262.18					
									22102	1851	20	14243: 11946	1754: 11945	10	AC	130	FALSE	0	357.58	1.46	0.001	TRUE	20	357.58					
									19030	1850	265	14601: 11848	14031: 11816	8	PVC	130	FALSE	0	-77.11	0.49	0	TRUE	265	77.11					
									25614	1849	41	200: 11826	14956: 11843	10	PVC	130	FALSE	0	20.17	0.08	0	TRUE	41	20.17					
									21245	1848	44	9275: 11824	16209: 11838	10	PVC	130	FALSE	0	11.2	0.05	0	TRUE	44	11.2					
									21759	1847	201	3743: 11676	200: 11826	10	PVC	130	FALSE	0	14.84	0.06	0	TRUE	201	14.84					
									18668	1846	30	14031: 11816	14387: 11818	8	PVC	130	FALSE	0	-82.34	0.53	0	TRUE	30	82.34					
									34549	1845	49	10718: 11654	3743: 11676	10	PVC	130	FALSE	0	17.96	0.07	0	TRUE	49	17.96					
									31439	1844	342	2757: 11642	10852: 11593	12	AC	130	FALSE	0	-724.6	2.06	0.001	TRUE	342	724.6					
									28312	1843	36	16052: 11635	1093: 11641	10	PVC	130	FALSE	0	28.83	0.12	0	TRUE	36	28.83					
									25235	1842	371	10852: 11593	182: 11514	12	AC	130	FALSE	0	-679.08	1.93	0.001	TRUE	371	679.08					
									22101	1841	36	8364: 11572	4776: 11582	10	PVC	130	FALSE	0	-4	0.02	0	TRUE	36	4					
									19029	1840	28	8027: 11571	3742: 11576	10	PVC	130	FALSE	0	60.23	0.25	0	TRUE	28	60.23					
									27952	1839	28	8364: 11572	16276: 11565	10	PVC	130	FALSE	0	-324.71	1.33	0.001	TRUE	28	324.71					
									24850	1838	485	16276: 11565	8027: 11571	10	PVC	130	FALSE	0	63.43	0.26	0	TRUE	485	63.43					
									21754	1837	77	182: 11514	12505: 11498	12	AC	130	FALSE	0	-682.2	1.94	0.001	TRUE	77	682.2					
									23434	1231	8	8756: 12359	11688: 12352	8	PVC	130	FALSE	0	16.87	0.11	0	TRUE	8	16.87					
									20384	1230	36	12188: 12290	9280: 12276	8	PVC	130	FALSE	0	15.03	0.1	0	TRUE	36	15.03					
									29287	1229	4	9280: 12276	8589: 12275	8	PVC	130	FALSE	0	14.11	0.09	0	TRUE	4	14.11					
									26184	1228	114	1290: 12242	13996: 12191	8	PVC	130	FALSE	0	0.46	0	0	TRUE	114	0.46					
									23055	1227	37	15341: 12162	561: 12141	8	PVC	130	FALSE	0	-0.46	0	0	TRUE	37	0.46					
									32811	1224	16	10589: 12168	12859: 12156	8	PVC	130	FALSE	0	4.91	0.03	0	TRUE	16	4.91					

									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
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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		
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967	3604	4.2	<None>	<Collection: 1 item>	5.91	171	72.3	38608	P-730	217	38607: J-479	12598: 190820	4	PVC	130	FALSE	0	7.35	0.19	0	FALSE	0	7.35		
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2591	2806	6.6	<None>	<Collection: 1 item>	5.01	173.2	72.2	38325	P-559	57	38323: J-375	38320: J-374	14	AC	130	FALSE	0	-288.22	0.6	0	TRUE	54	288.22		
2867	2444	6.5	<None>	<Collection: 1 item>	5.01	173.5	72.4	38324	P-558	39	38250: J-353	38323: J-375	14	AC	130	FALSE	0	-288.22	0.6	0	TRUE	19	288.22		
7548	2965	6.5	<None>	<Collection: 1 item>	5.01	173.3	72.3	38310	P-549	124	38308: J-371	38296: J-367	3	AC	100	FALSE	0	(N/A)	(N/A)	(N/A)	FALSE	0	#VALUE!		
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38162	J-325	4.6	<None>	<Collection: 1 item>	4.68	178.6	75.4	38302	P-543	27	15016: 5403	38301: J-369	8	AC	130	FALSE	0	4.15	0.03	0	TRUE	40	4.15		
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8660	190582	31.5	<None>	<Collection: 1 item>	4.29	174.8	62.1	38287	P-534	187	38285: J-363	1844: 6638	10	AC	130	FALSE	0	134.41	0.55	0	TRUE	184	134.41		
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2211	7357	43.7	<None>	<Collection: 1 item>	4.09	175	56.9		38255	P-511	31	10138: 5969	38254: J-354	6	AC	130	FALSE	0	3.74	0.04	0	TRUE	110	3.74					
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2385	5727	24.5	<None>	<Collection: 1 item>	4.09	174.8	65.2		38243	P-502	176	2102: 4917	38242: J-351	14	AC	130	FALSE	0	-175.59	0.37	0	TRUE	171	175.59					
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3222	4626	5.6	<None>	<Collection: 1 item>	4.09	173.1	72.6		38226	P-489	1,194	1314: 4731	38225: J-347	8	AC	130	FALSE	0	57.51	0.37	0	TRUE	1,211	57.51					
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3648	6187	31.6	<None>	<Collection: 1 item>	4.09	174.6	62		38188	P-467	265	38185: J-335	38164: J-326	8	PVC	130	FALSE	0	-11.67	0.07	0	FALSE	0	11.67					
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3652	6147	30.3	<None>	<Collection: 1 item>	4.09	174.8	62.6		38184	P-465	325	38182: J-334	38162: J-325	8	PVC	130	FALSE	0	-28.75	0.18	0	FALSE	0	28.75					
3787	7143	38.9	<None>	<Collection: 1 item>	4.09	175.1	59		38183	P-464	358	38179: J-333	38182: J-334	8	PVC	130	FALSE	0	-26.23	0.17	0	FALSE	0	26.23					
4050	7146	33.4	<None>	<Collection: 1 item>	4.09	175.2	61.5		38180	P-462	76	38135: J-312	38179: J-333	8	PVC	130	FALSE	0	-26.23	0.17	0	FALSE	0	26.23					
4335	6192	31.4	<None>	<Collection: 1 item>	4.09	175.1	62.3		38178	P-461	182	38176: J-332	38151: J-320	8	PVC	130	FALSE	0	-60.59	0.39	0	FALSE	0	60.59					
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4786	6388	33.2	<None>	<Collection: 1 item>	4.09	174.8	61.4		38173	P-458	195	38170: J-329	38172: J-330	8	PVC	130	FALSE	0	-57.12	0.36	0	FALSE	0	57.12					
4926	5409	7.2	<None>	<Collection: 1 item>	4.09	175.2	72.8		38171	P-457	58	38168: J-328	38170: J-329	8	PVC	130	FALSE	0	-57.12	0.36	0	FALSE	0	57.12					
4961	6191	31.4	<None>	<Collection: 1 item>	4.09	175.1	62.3		38169	P-456	195	38166: J-327	38168: J-328	8	PVC	130	FALSE	0	-51.94	0.33	0	FALSE	0	51.94					
4982	6839	38.4	<None>	<Collection: 1 item>	4.09	174.7	59.1		38167	P-455	58	38164: J-326	38166: J-327	8	PVC	130	FALSE	0	-51.94	0.33	0	FALSE	0	51.94					
5010	4611	5.5	<None>	<Collection: 1 item>	4.09	173.1	72.7		38165	P-454	253	38162: J-325	38164: J-326	8	PVC	130	FALSE	0	-37.03	0.24	0	FALSE	0	37.03					
5057	6963	34.6	<None>	<Collection: 1 item>	4.09	175.2	61		38163	P-453	33	38160: J-324	38162: J-325	8	PVC	130	FALSE	0	-3.6	0.02	0	FALSE	0	3.6					
5103	5911	24.2	<None>	<Collection: 1 item>	4.09	174.4	65.1		38161	P-452	384	38158: J-323	38160: J-324	8	PVC	130	FALSE	0	-3.6	0.02	0	FALSE	0	3.6					
5112	5639	24.3	<None>	<Collection: 1 item>	4.09	175.2	65.4		38159	P-451	128	38157: J-322	38158: J-323	8	PVC	130	FALSE	0	-3.6	0.02	0	FALSE	0	3.6					
5125	5655	24.7	<None>	<Collection: 1 item>	4.09	175.2	65.2		38156	P-450	171	38151: J-320	38153: J-321	8	PVC	130	FALSE	0	-126.38	0.81	0	FALSE	0	126.38					
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5320	6315	32.1	<None>	<Collection: 1 item>	4.09	175.2	62		38152	P-447	104	38149: J-319	38151: J-320	8	PVC	130	FALSE	0	-65.79	0.42	0	FALSE	0	65.79					
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5957	6029	26.3	<None>	<Collection: 1 item>	4.09	174.6	64.3		38146	P-444	215	38143: J-316	38145: J-317	8	PVC	130	FALSE	0	-58.1	0.37	0	FALSE	0	58.1					
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6130	5739	23.4	<None>	<Collection: 1 item>	4.09	174.4	65.5		38142	P-442	214	38139: J-314	38141: J-315	8	PVC	130	FALSE	0	-55.72	0.36	0	FALSE	0	55.72					
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6565	6770	36.6	<None>	<Collection: 1 item>	4.09	174.7	59.9		38138	P-440	215	38135: J-312	38137: J-313	8	PVC	130	FALSE	0	-61.27	0.39	0	FALSE	0	61.27					
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8097	4354	11.6	<None>	<Collection: 1 item>	4.09	176.6	71.5		37408	P-217	244	37406: J-213	3529: 3865	6	AC	130	FALSE	0	12.47	0.14	0	TRUE	256	12.47					
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9831	7255	36.8	<None>	<Collection: 1 item>	4.09	175.2	60		36800	BWPipe_revised-55	239	36771: J-55	12913: J516	8	Ductile Iron	130	FALSE	0	143.89	0.92	0.001	FALSE	0	143.89					
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					
10563	6993	16.2	<None>	<Collection: 1 item>	4.09	175.3	68.9		36839	BWPipe_revised-48	451	36760: J-48	36753: J-43	8	Ductile Iron	130	FALSE	0	13.09	0.08	0	FALSE	0	13.09					
10677	5583	23.3	<None>	<Collection: 1 item>	4.09	175.2	65.9		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	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					
11570	6838	40.8	<None>	<Collection: 1 item>	4.09	174.7	58		36758	BWPipe_revised-38	113	36759: J-47	36760: J-48	8	Ductile Iron	130	FALSE	0	28.64	0.18	0	FALSE	0	28.64					
11583	5664	25.7	<None>	<Collection: 1 item>	4.09	174.6	64.6		36822	BWPipe_revised-37	341	36774: J-57	36759: J-47	8	Ductile Iron	130	FALSE	0	-44.69	0.29	0	FALSE	0	44.69					
11873	6537	32.9	<None>	<Collection: 1 item>	4.09	174.8	61.5		36820	BWPipe_revised-36	311	36783: J-62	36774: J-57	8	Ductile Iron	130	FALSE	0	-73.33	0.47	0	FALSE	0	73.33					
12098	6206	29.6	<None>	<Collection: 1 item>	4.09	174.5	62.8		36842	BWPipe_revised-35	482	36807: J-76	36782: J-61	8	Ductile Iron	130	FALSE	0	18.08	0.12	0	FALSE	0	18.08					
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					
12539	6189	31.7	<None>	<Collection: 1 item>	4.09	174.5	61.9		36830	BWPipe_revised-32	421	36796: J-70	36806: J-75	8	Ductile Iron	130	FALSE	0	-10.27	0.07	0	FALSE	0	10.27					
12540	6199	32.1	<None>	<Collection: 1 item>	4.09	175	62		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	174.7	62.1		36835	BWPipe_revised-30	418	36832: J-82	36791: J-67	8	Ductile Iron	130	FALSE	0	-22.65	0.14	0	FALSE	0	22.65					
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					
13194	6860	35.8	<None>	<Collection: 1 item>	4.09	174.4	60.1		36837	BWPipe_revised-23	456	36766: J-52	36838: J-83	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13197	6800	36	<None>	<Collection: 1 item>	4.09	174.8	60.2		36846	BWPipe_revised-22	527	36756: J-45	36766: J-52	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13296	6281	31.2	<None>	<Collection: 1 item>	4.09	174.7	62.2		36755	BWPipe_revised-21	72	36756: J-45	36757: J-46	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13297	6291	31.3	<None>	<Collection: 1 item>	4.09	174.6	62.1		36775	BWPipe_revised-20	181	36762: J-49	36756: J-45	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13414	6144	30.9	<None>	<Collection: 1 item>	4.09	174.6	62.3		36761	BWPipe_revised-19	123	36762: J-49	36763: J-50	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13550	6774	35.7	<None>	<Collection: 1 item>	4.09	174.8	60.3		36847	BWPipe_revised-18	527	36777: J-58	36762: J-49	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13837	5660	25.8	<None>	<Collection: 1 item>	4.09	175.2	64.7		36776	BWPipe_revised-17	182	36766: J-52	36777: J-58	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13871	4290	6.5	<None>	<Collection: 1 item>	4.09	174.6	72.9		36764	BWPipe_revised-16	128	36765: J-51	36766: J-52	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
13976	6361	33.9	<None>	<Collection: 1 item>	4.09	174.9	61.1		36813	BWPipe_revised-15	255	36765: J-51	36768: J-53	8	Ductile Iron	130	FALSE	0	69.68	0.44	0	FALSE	0	69.68					
14332	6162	30.9	<None>	<Collection: 1 item>	4.09	175.1	62.5		36848	BWPipe_revised-14	750	36783: J-62	36765: J-51	8	Ductile Iron	130	FALSE	0	69.68	0.44	0	FALSE	0	69.68					

14514	6802	35.9	<None>	<Collection: 1 item>	4.09	174.8	60.2		36781	BWPipe_revised-13	183	36782: J-61	36783: J-62	8	Ductile Iron	130	FALSE	0	-3.65	0.02	0	FALSE	0	3.65					
15018	5423	21.6	<None>	<Collection: 1 item>	4.09	175.6	66.8		36826	BWPipe_revised-12	341	36795: J-69	36782: J-61	8	Ductile Iron	130	FALSE	0	-21.72	0.14	0	FALSE	0	21.72					
15025	7080	37.3	<None>	<Collection: 1 item>	4.09	175.2	59.8		36814	BWPipe_revised-11	260	36799: J-72	36795: J-69	8	Ductile Iron	130	FALSE	0	-64.94	0.41	0	FALSE	0	64.94					
15035	7000	24.4	<None>	<Collection: 1 item>	4.09	175.2	65.4		36809	BWPipe_revised-10	239	36810: J-77	36799: J-72	8	Ductile Iron	130	FALSE	0	-23.72	0.15	0	FALSE	0	23.72					
15147	6289	31.4	<None>	<Collection: 1 item>	4.09	174.8	62.2		36821	BWPipe_revised-9	372	36798: J-71	36810: J-77	8	Ductile Iron	130	FALSE	0	-23.72	0.15	0	FALSE	0	23.72					
15179	7003	30.2	<None>	<Collection: 1 item>	4.09	175.2	62.9		36797	BWPipe_revised-8	219	36798: J-71	36799: J-72	8	Ductile Iron	130	FALSE	0	-41.22	0.26	0	FALSE	0	41.22					
15533	6977	24.3	<None>	<Collection: 1 item>	4.09	175.2	65.4		36812	BWPipe_revised-7	255	36787: J-64	36798: J-71	8	Ductile Iron	130	FALSE	0	-64.94	0.41	0	FALSE	0	64.94					
15665	4635	3.1	<None>	<Collection: 1 item>	4.09	173.1	73.7		36786	BWPipe_revised-6	191	36787: J-64	36788: J-65	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
16250	6193	31.1	<None>	<Collection: 1 item>	4.09	174.8	62.3		36823	BWPipe_revised-5	342	36769: J-54	36787: J-64	8	Ductile Iron	130	FALSE	0	-64.94	0.41	0	FALSE	0	64.94					
16507	6278	32.5	<None>	<Collection: 1 item>	4.09	175.1	61.8		36844	BWPipe_revised-4	513	36769: J-54	36845: J-84	8	Ductile Iron	130	FALSE	0	0	0	0	FALSE	0	0					
16907	6272	31.3	<None>	<Collection: 1 item>	4.09	174.7	62.2		36767	BWPipe_revised-3	147	36768: J-53	36769: J-54	8	Ductile Iron	130	FALSE	0	-64.94	0.41	0	FALSE	0	64.94					
16984	6285	31.4	<None>	<Collection: 1 item>	4.09	174.8	62.2		36843	BWPipe_revised-2	505	36771: J-55	36768: J-53	8	Ductile Iron	130	FALSE	0	-134.62	0.86	0	FALSE	0	134.62					
17161	5851	25.8	<None>	<Collection: 1 item>	4.09	174.8	64.6		36770	BWPipe_revised-1	157	5100: J410	36771: J-55	8	Ductile Iron	130	FALSE	0	9.27	0.06	0	FALSE	0	9.27					
17164	5801	26.3	<None>	<Collection: 1 item>	4.09	174.8	64.4		28821	190883	359	8379: 7083	5711: 7060	6		130	FALSE	0	37.37	0.42	0	TRUE	356	37.37					
17165	5811	27.6	<None>	<Collection: 1 item>	4.09	175.2	64		34574	190881	345	7288: 6209	9150: 6203	16		130	FALSE	0	684.2	1.09	0	TRUE	345	684.2					
17544	6556	34	<None>	<Collection: 1 item>	4.09	174.8	61		30937	190879	279	16908: 6202	9150: 6203	16		130	FALSE	0	-693.71	1.11	0	TRUE	279	693.71					
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1197	4629	12.7	<None>	<Collection: 1 item>	3.98	178.3	71.8		35261	190875	214	15849: 4313	8335: 4308	12		130	FALSE	0	424.61	1.2	0.001	TRUE	214	424.61					
3881	4615	12.6	<None>	<Collection: 1 item>	3.98	178.3	71.8		30079	190873	6	7381: 4733	10972: 4734	6		130	FALSE	0	-27.87	0.32	0	TRUE	6	27.87					
2404	3082	5.1	<None>	<Collection: 1 item>	3.81	170.8	71.9		35269	190871	105	5833: 5915	10054: 6009	12		130	FALSE	0	72.68	0.21	0	TRUE	105	72.68					
6474	3079	1.5	<None>	<Collection: 1 item>	3.81	171.1	73.5		23739	190707	79	12402: 3909	12598: 190820	4	AC	130	FALSE	0	-7.35	0.19	0	TRUE	77	7.35					
8440	2960	6.6	<None>	<Collection: 1 item>	3.81	174	72.6		19431	190703	185	2228: 4181	9488: 190818	10		130	FALSE	0	19.41	0.08	0	TRUE	217	19.41					
11376	2808	6.5	<None>	<Collection: 1 item>	3.81	173.2	72.3		20691	190607	268	12356: 190666	921: 190658	8		145	FALSE	0	-162.95	1.04	0.001	TRUE	268	162.95					
38157	J-322	6.9	<None>	<Collection: 1 item>	3.6	178.6	74.4		21629	190579	294	6727: 190680	6246: 190696	8		145	FALSE	0	3.51	0.02	0	TRUE	294	3.51					
38176	J-332	5.5	<None>	<Collection: 1 item>	3.6	178.7	75.1		27261	190577	326	760: 190664	289: 190652	12		145	FALSE	0	-159.77	0.45	0	TRUE	326	159.77					
38185	J-335	4.5	<None>	<Collection: 1 item>	3.6	178.6	75.5		33618	190575	51	4225: 190726	3693: 190728	8		145	FALSE	0	5.04	0.03	0	TRUE	51	5.04					
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7429	2125	11.5	<None>	<Collection: 1 item>	3.41	181.3	73.6		25928	190571	291	1445: 190732	72: 190730	8		145	FALSE	0	-3	0.02	0	TRUE	291	3					
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629	2981	1.5	<None>	<Collection: 1 item>	3.35	171.1	73.5		33565	190567	48	11912: 190734	15195: 190736	8		145	FALSE	0	2.48	0.02	0	TRUE	48	2.48					
2295	3633	5	<None>	<Collection: 1 item>	3.35	170.9	71.9		24897	190565	278	9982: 190724	15195: 190736	8		145	FALSE	0	0.57	0	0	TRUE	278	0.57					
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10929	2993	6.5	<None>	<Collection: 1 item>	3.35	173.1	72.2		28169	190561	234	4225: 190726	72: 190730	8		145	FALSE	0	5.49	0.04	0	TRUE	234	5.49					
13566	3568	2.8	<None>	<Collection: 1 item>	3.35	171	72.9		34252	190559	157	3611: 190710	4225: 190726	8		145	FALSE	0	10.52	0.07	0	TRUE	157	10.52					
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3481	5546	1.5	<None>	<Collection: 1 item>	3.3	171.4	73.6		32810	190553	188	17057: 190712	9982: 190724	8		145	FALSE	0	9.74	0.06	0	TRUE	188	9.74					
3664	5838	3.4	<None>	<Collection: 1 item>	3.3	173	73.5		19522	190551	46	1722: 190706	760: 190664	8		145	FALSE	0	-22.85	0.15	0	TRUE	46	22.85					
6978	5114	1.5	<None>	<Collection: 1 item>	3.3	171.1	73.5		25502	190549	319	59: 190708	1722: 190706	8		145	FALSE	0	-19.8	0.13	0	TRUE	319	19.8					
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9134	5371	4.9	<None>	<Collection: 1 item>	3.3	172.9	72.9		18475	190545	192	10017: 190718	3611: 190710	8		145	FALSE	0	-6.22	0.04	0	TRUE	192	6.22					
9188	5116	8	<None>	<Collection: 1 item>	3.3	172.9	71.5		20083	190543	306	7944: 190716	10017: 190718	8		145	FALSE	0	-3.16	0.02	0	TRUE	306	3.16					
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13477	6254	16.4	<None>	<Collection: 1 item>	3.3	173.6	68.2		26418	190539	106	17057: 190712	14757: 190714	8		145	FALSE	0	2.95	0.02	0	TRUE	106	2.95					
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3958	4925	14.7	<None>	<Collection: 1 item>	2.55	175.2	69.6		26928	8947	12	11004: 2126	2542: 2129	6	AC	130	FALSE	0	1.86	0.02	0	TRUE	12	1.86					
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473	3649	6.7	<None>	<Collection: 1 item>	1.77	176.8	73.8		27145	7653	17	514: 4287	2839: 4276	6	AC	130	FALSE	0	-5.6	0.06	0	TRUE	17	5.6					
475	3669	1.4	<None>	<Collection: 1 item>	1.77	171	73.5		33513	7652	32	6934: 4279	2839: 4276	6	AC	130	FALSE	0	-1.77	0.02	0	TRUE	32	1.77					

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963	2304	9.3	<None>	<Collection: 1 item>	1.77	181.1	74.5		29079	7640	14	12084: 3479	12519: 3493	6	AC	130	FALSE	0	2.96	0.03	0	TRUE	14	2.96					
975	7276	-3.6	<None>	<Collection: 1 item>	1.77	178.60	79		26025	7638	94	12424: 3534	5479: 3460	6	AC	130	FALSE	0	-7.33	0.08	0	TRUE	94	7.33					
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1744	4536	4.7	<None>	<Collection: 1 item>	1.77	172.9	72.9		21796	7618	340	1783: 2825	11795: 2698	8	AC	130	FALSE	0	-3.49	0.02	0	TRUE	340	3.49					
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6913	3766	4	<None>	<Collection: 1 item>	1.77	172.9	73.2		26099	7490	28	15320: 6459	15325: 6429	6	AC	130	FALSE	0	2.38	0.03	0	TRUE	28	2.38					
6915	3706	6.5	<None>	<Collection: 1 item>	1.77	177	73.9		31341	7489	290	15320: 6459	10527: 6130	6	AC	130	FALSE	0	-10.61	0.12	0	TRUE	290	10.61					
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6934	4279	2.7	<None>	<Collection: 1 item>	1.77	174.6	74.5		22546	7487	407	6981: 6837	10427: 6616	8	AC	130	FALSE	0	84	0.54	0	TRUE	407	84					
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7582	5153	5.4	<None>	<Collection: 1 item>	1.77	172.9	72.6		19645	7472	47	14501: 6570	7624: 6554	8	AC	130	FALSE	0	28.41	0.18	0	TRUE	47	28.41					
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7670	6844	-3.6	<None>	<Collection: 1 item>	1.77	176.9	78.3		22186	7466	114	564: 6340	9929: 6226	8	AC	130	FALSE	0	77.78	0.5	0	TRUE	114	77.78					
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7745	2984	1.6	<None>	<Collection: 1 item>	1.77	171.1	73.5		19644	7462	276	8504: 6043	9929: 6226	8	AC	130	FALSE	0	-24.88	0.16	0	TRUE	276	24.88					
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7782	6901	-3.7	<None>	<Collection: 1 item>	1.77	176.9	78.3		23460	7459	175	8190: 6090	270: 6044	6	AC	130	FALSE	0	-2.74	0.03	0	TRUE	175	2.74					
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7799	4130	1.3	<None>	<Collection: 1 item>	1.77	171	73.6		30073	7455	258	13083: 5930	9194: 5875	6	AC	130	FALSE	0	-12.12	0.14	0	TRUE	258	12.12					
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7964	4141	5.6	<None>	<Collection: 1 item>	1.77	171	71.7		17700	7451	194	9194: 5875	3664: 5838	6	AC	130	FALSE	0	-20.67	0.23	0	TRUE	194	20.67					
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8459	2571	3.8	<None>	<Collection: 1 item>	1.77	171.2	72.6		22548	7437	585	7582: 5153	8109: 5487	6	AC	130	FALSE	0	-6.39	0.07	0	TRUE	585	6.39					
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36783	J-62	0	<None>	<Collection: 1 item>	0	174.6	75.7		26722	396	156	16843: 5510	9883: 5628	6	AC	130	FALSE	0	21.79	0.25	0	TRUE	156	21.79					
36785	J-63	0	<None>	<Collection: 1 item>	0	174.7	75.7		26725	395	318	10330: 5612	7938: 5410	6	AC	130	FALSE	0	46.02	0.52	0	TRUE	318	46.02					
36787	J-64	57	<None>	<Collection: 1 item>	0	174.5	50.9		26724	394	269	4927: 5419	11412: 5609	6	AC	130	FALSE	0	3.82	0.04	0	TRUE	269	3.82					
36788	J-65	0	<None>	<Collection: 1 item>	0	174.5	75.7		29689	393	58	2374: 5541	3484: 5576	6	AC	130	FALSE	0	4.24	0.05	0	TRUE	58	4.24					
36790	J-66	0	<None>	<Collection: 1 item>	0	174.7	75.7		26718	392	265	17447: 5555	4048: 5388	6	AC	130	FALSE	0	34.67	0.39	0	TRUE	265	34.67					
36791	J-67	0	<None>	<Collection: 1 item>	0	174.7	75.7		26721	391	170	3255: 5553	2374: 5541	8	AC	130	FALSE	0	-38.38	0.24	0	TRUE	170	38.38					
36793	J-68	0	<None>	<Collection: 1 item>	0	174.7	75.7		26720	390	259	2374: 5541	8114: 5477	8	AC	130	FALSE	0	-44.39	0.28	0	TRUE	259	44.39					
36795	J-69	0	<None>	<Collection: 1 item>	0	174.6	75.7		33419	389	59	17452: 5535	8114: 5477	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	59	2.38					
36796	J-70	0	<None>	<Collection: 1 item>	0	174.6	75.7		33418	388	452	12594: 5211	6958: 5534	6	AC	130	FALSE	0	30.64	0.35	0	TRUE	452	30.64					
36798	J-71	0	<None>	<Collection: 1 item>	0	174.6	75.7		32256	387	121	4558: 5432	16843: 5510	6	AC	130	FALSE	0	26.89	0.31	0	TRUE	121	26.89					
36799	J-72	0	<None>	<Collection: 1 item>	0	174.6	75.7		33427	386	64	7935: 5460	3647: 5504	8	AC	130	FALSE	0	-18.88	0.12	0	TRUE	64	18.88					
36802	J-73	0	<None>	<Collection: 1 item>	0	174.7	75.7		33430	385	20	1152: 5494	4140: 5478	12	AC	130	FALSE	0	26.04	0.07	0	TRUE	20	26.04					
36804	J-74	0	<None>	<Collection: 1 item>	0	174.7	75.7		32257	384	60	4140: 5478	15201: 5446	12	AC	130	FALSE	0	23.5	0.07	0	TRUE	60	23.5					
36806	J-75	0	<None>	<Collection: 1 item>	0	174.6	75.7		33424	383	244	8395: 5303	7935: 5460	8	AC	130	FALSE	0	-16.5	0.11	0	TRUE	244	16.5					
36807	J-76	0	<None>	<Collection: 1 item>	0	174.6	75.7		33423	382	59	7934: 5450	7939: 5420	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	59	2.38					
36810	J-77	0	<None>	<Collection: 1 item>	0	174.6	75.7		31179	381	59	15201: 5446	1160: 5414	12	AC	130	FALSE	0	19.67	0.06	0	TRUE	59	19.67					
36816	J-78	0	<None>	<Collection: 1 item>	0	174.6	75.7		33425	380	194	14849: 5300	4558: 5432	6	AC	130	FALSE	0	31.99	0.36	0	TRUE	194	31.99					
36819	J-79	0	<None>	<Collection: 1 item>	0	174.8	75.8		33205	379	219	7939: 5420	4053: 5358	8	AC	130	FALSE	0	-53.39	0.34	0	TRUE	219	53.39					
36825	J-80	0	<None>	<Collection: 1 item>	0	174.7	75.7		33204	378	66	1160: 5414	2883: 5383	12	AC	130	FALSE	0	-98.51	0.28	0	TRUE	66	98.51					
36828	J-81	0	<None>	<Collection: 1 item>	0	174.6	75.7		24802	377	129	7938: 5410	5706: 5338	6	AC	130	FALSE	0	111.69	1.27	0.001	TRUE	129	111.69					
36832	J-82	0	<None>	<Collection: 1 item>	0	174.7	75.7		33210	376	13	8115: 5407	15392: 5408	6	AC	130	FALSE	0	-91.82	1.04	0.001	TRUE	13	91.82					
36838	J-83	0	<None>	<Collection: 1 item>	0	174.5	75.6		20365	375	125	7937: 5400	8115: 5407	6	AC	130	FALSE	0	-85.22	0.97	0.001	TRUE	125	85.22					
36845	J-84	0	<None>	<Collection: 1 item>	0	174.5	75.6		33211	374	259	4555: 5402	7937: 5400	6	AC	130	FALSE	0	-75.56	0.86	0.001	TRUE	259	75.56					
37367	J-204	0	<None>	<Collection: 0 items>	0	171	74.1		33207	373	98	4048: 5388	11943: 5306	6	AC	130	FALSE	0	51.83	0.59	0	TRUE	98	51.83					
37375	J-207	9	<None>	<Collection: 0 items>	0	171.2	70.3		33206	372	392	13559: 5386	12722: 5322	8	AC	130	FALSE	0	-21.08	0.13	0	TRUE	392	21.08					
37380	J-209	0	<None>	<Collection: 0 items>	0	172.9	75		33209	371	73	2883: 5383	7494: 5330	12	AC	130	FALSE	0	-104.36	0.3	0	TRUE	73	104.36					
37388	J-210	0	<None>	<Collection: 0 items>	0	172.9	75		33208	370	262	5706: 5338	6973: 5144	6	AC	130	FALSE	0	55.01	0.62	0	TRUE	262	55.01					
37403	J-212	8	<None>	<Collection: 0 items>	0	171	70.7		35752	369	373	12722: 5322	7584: 5173	8	AC	130	FALSE	0	-22.85	0.15	0	TRUE	373	22.85					
37406	J-213	8	<None>	<Collection: 0 items>	0	171	70.7		35751	368	90	12821: 5244	14849: 5300	6	AC	130	FALSE	0	37.09	0.42	0	TRUE	90	37.09					
37460	J-222	8	<None>	<Collection: 0 items>	0	171	70.7		31473	367	21	12822: 5254	5764: 5235	8	AC	130	FALSE	0	13.19	0.08	0	TRUE	21	13.19					
38137	J-313	4.7	<None>	<Collection: 0 items>	0	178.6	75.4		31472	366	55	8595: 5179	6824: 5238	8	AC	130	FALSE	0	-46.23	0.3	0	TRUE	55	46.23					
38141	J-315	4.8	<None>	<Collection: 0 items>	0	178.6	75.4		31475	365	209	5764: 5235	6974: 5154	6	AC	130	FALSE	0	9.89	0.11	0	TRUE	209	9.89					
38145	J-317	4.8	<None>	<Collection: 0 items>	0	178.6	75.4		31474	364	16	11183: 5216	14681: 5198	12	AC	130	FALSE	0	-117.55	0.33	0	TRUE	16	117.55					
38151	J-320	5.5	<None>	<Collection: 0 items>	0	178.7	75.1		31469	363	11	12594: 5211	7988: J374	6	AC	130	FALSE	0	-35.74	0.41	0	TRUE	11	35.74					
38153	J-321	5.8	<None>	<Collection: 0 items>	0	178.8	75		31468	362	21	2251: 5197	16680: 5199	6	AC	130	FALSE	0	-92.33	1.05	0.001	TRUE	21	92.33					
38158	J-323	6.4	<None>	<Collection: 0 items>	0	178.6	74.7		31471	361	95	8991: 5193	7988: J374	6	AC	130	FALSE	0	-48.94	0.56	0	TRUE	95	48.94					
38160	J-324	4.8	<None>	<Collection: 0 items>	0	178.6	75.3		31470	360	143	3205: 5191	8991: 5193	6	AC	130	FALSE	0	-43.84	0.5	0	TRUE	143	43.84					
38166	J-327	4.9	<None>	<Collection: 0 items>	0	178.6	75.3		19140	359	513	4729: 4887	5663: 4766	8	AC	130	FALSE	0	26.73	0.17	0	TRUE	513	26.73					
38170	J-329	4.8	<None>	<Collection: 0 items>	0	178.6	75.4		19139	358	78	14683: 4063	9649: 4064	6	AC	130	FALSE	0	28.33	0.32	0	TRUE	78	28.33					
38174	J-331	5	<None>	<Collection: 0 items>	0	178.6	75.3		19149	357	75	5674: 4062	14683: 4063	6	AC	130	FALSE	0	32.63	0.37	0	TRUE	75	32.63					
38179	J-333	4.2	<None>	<Collection: 0 items>	0	178.6	75.6		19374	356	38	6311: 4061	5674: 4062	6	AC	130	FALSE	0	37.38	0.42	0	TRUE	38	37.38					
38219	J-345	-3.5	<None>	<Collection: 0 items>	0	171	75.6		19150	354	366	6930: 4299	15665: 4635	6	AC	130	FALSE	0	-25.04	0.28	0	TRUE	366	25.04					
38225	J-347	3.5	<None>	<Collection: 0 items>	0	171	72.6		19145	353	18	3223: 4636	610: 4647	8	AC	130	FALSE	0	-92.73	0.59	0	TRUE	18	92.73					
38229	J-348	-3.5	<None>	<Collection: 0 items>	0	171	75.6		19144	352	286	4429: 4145	2551: 4355	8	AC	130	FALSE	0	-53.16	0.34	0	TRUE	286	53.16					
38233	J-349	-3.5	<None>	<Collection: 0 items>	0	171	75.7		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	171.1	75.7		19372	350	22	8596: 5109	2035: 5110	8	AC	130	FALSE	0	25.48	0.16	0	TRUE	22	25.48					
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38250	J-353	1.5	<None>	<Collection: 0 items>	0	171.2	73.5		25756	347	200	10830: 5052	2368: 4934	8	AC	130	FALSE	0	57.92	0.37	0	TRUE	200	57.92					
38254	J-354	5.9	<None>	<Collection: 0 items>	0	171.2	71.6		25755	346	513	13921: 5047	8273: 4935	8	AC	130	FALSE	0	-12.29	0.08	0	TRUE	513	12.29					
38263	J-356	8	<None>	<Collection: 0 items>	0	171.2	70.8		25758	345	74	10835: 5022	2676: 4972	12	AC	130	FALSE	0	-120.78	0.34	0	TRUE	74	120.78					
38267	J-357	3.2	<None>	<Collection: 0 items>	0	171.3	72.9		25757	344	55	14024: 4968	17177: 5000	8	AC	130	FALSE	0	-42.68	0.27	0	TRUE	55	42.68					
38277	J-360	7.9	<None>	<Collection: 0 items>	0	171.3	70.8		25752	343	114	8890: 4980	10964: 4924	6	AC	130	FALSE	0	51.1	0.58	0	TRUE	114	51.1					
38280	J-361	6.2	<None>	<Collection: 0 items>	0	171.3	71.6		25751	342	134	2676: 4972	13405: 4894	12	AC	130	FALSE	0	-126.62	0.36	0	TRUE	134	126.62					
38285	J-363	8	<None>	<Collection: 0 items>	0	171.3	70.8		25754	341	132	5385: 4886	14024: 4968	8	AC	130	FALSE	0	-39.38	0.25	0	TRUE	132	39.38					
38301	J-369	1.4	<None>	<Collection: 0 items>	0	171.2	73.6		25753	340	244	10964: 4924	3961: 4765	6	AC	130	FALSE	0	37.04	0.42	0	TRUE	244	37.04					
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38320	J-374	1.6	<None>	<Collection: 0 items>	0	171.2	73.5		28098	338	114	13405: 4894	12030: 4840	12	AC	130	FALSE	0	-213.83	0.61	0	TRUE	114	213.83					
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38330	J-377	7	<None>	<Collection: 0 items>	0	171.2	71.2		20504	335	209	6991: 4759	5385: 4886	8	AC	130	FALSE	0	-68.79	0.44	0	TRUE	209	68.79					
38400	J-398	11	<None>	<Collection: 0 items>	0	171.2	69.5		28110	334	43	8138: 4848	2273: 4847	6	AC	130	FALSE	0	129.42	1.47	0.002	TRUE	43	129.42					
38474	J-424	57	<None>	<Collection: 0 items>	0	174.5	50.9		28105	333	199	2273: 4847	8869: 4846	6	AC	130	FALSE	0	125.03	1.42	0.002	TRUE	199	125.03					
38569	J-467	7.9	<None>	<Collection: 0 items>	0	171.3	70.8		28104	332	69	8869: 4846	6078: 4845	6	AC	130	FALSE	0	122.72	1.39	0.002	TRUE	69	122.72					
38574	J-468	0	<None>	<Collection: 0 items>	0	171.2	74.2		28107	331	43	5485: 4843	433: 4842	6	AC	130	FALSE	0	115.41	1.31	0.001	TRUE	43	115.41					
38576	J-469	2.8	<None>	<Collection: 0 items>	0	171.3	73.1		28106	330	639	8062: 4382	433: 4842	6	AC	130	FALSE	0	-55.58	0.63	0	TRUE	639	55.58					
38580	J-470	0	<None>	<Collection: 0 items>	0	171.2	74.2		34774	329	26	12030: 4840	5915: 4809	12	AC	130	FALSE	0	-274.38	0.78	0	TRUE	26	274.38					
38582	J-471	0	<None>	<Collection: 0 items>	0	171.2	74.2		34773	328	91	5915: 4809	5661: 4746	12	AC	130	FALSE	0	-276.93	0.79	0	TRUE	91	276.93					
38584	J-472	6.3	<None>	<Collection: 0 items>	0	171.2	71.5		28762	327	254	3961: 4765	3882: 4625	6	AC	130	FALSE	0	58.49	0.66	0	TRUE	254	58.49					
38588	J-473	0	<None>	<Collection: 0 items>	0	171.2	74.2		22775	326	273	5661: 4746	1331: 4596	12	AC	130	FALSE	0	-284.1	0.81	0	TRUE	273	284.1					
38599	J-476	5	<None>	<Collection: 0 items>	0	171	72		34786	325	595	610: 4647	10970: 4714	8	AC	130	FALSE	0	-58.58	0.37	0	TRUE	595	58.58					
38602	J-477	3	<None>	<Collection: 0 items>	0	171	72.8		34785	324	98	10055: 4653	8142: 4698	6	AC	130	FALSE	0	15.28	0.17	0	TRUE	98	15.28					
38605	J-478	0	<None>	<Collection: 0 items>	0	171	74.1		28757	323	255	13227: 4463	10055: 4653	6	AC	130	FALSE	0	24.2	0.27	0	TRUE	255	24.2					
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38617	J-482	17	<None>	<Collection: 0 items>	0	176.5	69.2		22389	319	152	10858: 4344	12465: 4347	6	AC	130	FALSE	0	1.77	0.02	0	TRUE	152	1.77					
38619	J-483	1.9	<None>	<Collection: 0 items>	0	171.3	73.4		22388	318	264	13784: 4337	10858: 4344	6	AC	130	FALSE	0	-40.92	0.46	0	TRUE	264	40.92					
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38815	J-552	8	<None>	<Collection: 0 items>	0	171.5	70.9		18170	309	539	6938: 4239	12399: 3959	8	AC	130	FALSE	0	4.2	0.03	0	TRUE	539	4.2					
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38878	J-578	3	<None>	<Collection: 0 items>	0	171.2	72.9		18178	307	98	4232: 4026	7182: 4059	6	AC	130	FALSE	0	-31.09	0.35	0	TRUE	98	31.09					
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39375	J-754	10	<None>	<Collection: 0 items>	0	172.9	70.6		18176	301	24	16818: 2493	13395: 2495	8	AC	130	FALSE	0	26.8	0.17	0	TRUE	24	26.8					
39377	J-755	10	<None>	<Collection: 0 items>	0	172.9	70.6		18175	300	265	9834: 2487	16817: 2483	8	AC	130	FALSE	0	14.65	0.09	0	TRUE	265	14.65					
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39381	J-757	8	<None>	<Collection: 0 items>	0	172.9	71.5		18084	298	2	13394: 2485	17012: 2486	8	AC	130	FALSE	0	2.32	0.01	0	TRUE	2	2.32					

39383	J-758	9	<None>	<Collection: 0 items>	0	172.9	71.1		35963	297	59	16817: 2483	2864: 2484	8	AC	130	FALSE	0	12.33	0.08	0	TRUE	59	12.33					
39385	J-759	9	<None>	<Collection: 0 items>	0	172.9	71.1		18092	296	39	15789: 2851	15622: 2880	8	AC	130	FALSE	0	2.32	0.01	0	TRUE	39	2.32					
39387	J-760	8	<None>	<Collection: 0 items>	0	172.9	71.5		35965	295	139	3453: 2745	15789: 2851	8	AC	130	FALSE	0	4.28	0.03	0	TRUE	139	4.28					
39389	J-761	3	<None>	<Collection: 0 items>	0	172.9	73.7		35964	294	75	9627: 2703	3453: 2745	8	AC	130	FALSE	0	6.05	0.04	0	TRUE	75	6.05					
39392	J-762	2.3	<None>	<Collection: 0 items>	0	172.9	74		18089	293	34	13330: 3778	6305: 3779	8	AC	130	FALSE	0	-62.52	0.4	0	TRUE	34	62.52					
9665	4405	11.8	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		18088	292	198	17387: 3777	13330: 3778	8	AC	130	FALSE	0	-58.51	0.37	0	TRUE	198	58.51					
13418	4406	11.7	<None>	<Collection: 1 item>	(N/A)	(N/A)	(N/A)		33812	291	232	10126: 3771	17387: 3777	8	AC	130	FALSE	0	-27.26	0.17	0	TRUE	232	27.26					
15779	4417	11.8	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		39394	290(2)(2)	92	39392: J-762	10126: 3771	8	AC	130	FALSE	0	-44.23	0.28	0	TRUE	92	44.23					
37348	J-200	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		39393	290(2)(1)	245	39389: J-761	39392: J-762	8	AC	130	FALSE	0	-44.23	0.28	0	TRUE	245	44.23					
37350	J-201	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		39390	290(1)	116	17386: 3767	39389: J-761	8	AC	130	FALSE	0	-44.23	0.28	0	TRUE	116	44.23					
37352	J-202	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		24701	289	59	869: 3683	4274: 3681	6	AC	130	FALSE	0	71.95	0.82	0.001	TRUE	59	71.95					
37458	J-221	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		24700	288	261	4274: 3681	6542: 3529	8	AC	130	FALSE	0	231.69	1.48	0.001	TRUE	261	231.69					
38292	J-365	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		19546	287	425	479: 3629	11272: 3630	8	AC	130	FALSE	0	-57.04	0.36	0	TRUE	425	57.04					
38294	J-366	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		24708	286	182	13564: 3548	479: 3629	10	AC	130	FALSE	0	-49.3	0.2	0	TRUE	182	49.3					
38296	J-367	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		19548	285	5	3469: 3545	13564: 3548	10	AC	130	FALSE	0	-1.77	0.01	0	TRUE	5	1.77					
38299	J-368	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		19547	284	58	12565: 3530	6542: 3529	8	AC	130	FALSE	0	-62.16	0.4	0	TRUE	58	62.16					
38308	J-371	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		24705	283	260	6542: 3529	3033: 3315	8	AC	130	FALSE	0	167.76	1.07	0.001	TRUE	260	167.76					
38807	J-548	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		24704	282	110	16148: 3494	14151: 3395	8	AC	130	FALSE	0	-60.42	0.39	0	TRUE	110	60.42					
38809	J-549	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		19545	281	57	14151: 3395	5880: 3342	8	AC	130	FALSE	0	-62.74	0.4	0	TRUE	57	62.74					
38817	J-553	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		24706	280	580	5880: 3342	10929: 2993	8	AC	130	FALSE	0	-64.63	0.41	0	TRUE	580	64.63					
38821	J-555	10	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		27039	279	54	2794: 3316	3033: 3315	6	AC	130	FALSE	0	-29.6	0.34	0	TRUE	54	29.6					
38824	J-556	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		23761	278	99	16141: 3145	16378: 3214	8	AC	130	FALSE	0	-128.15	0.82	0	TRUE	99	128.15					
38826	J-557	11	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		23771	277	509	12926: 3146	16750: 3150	6	AC	130	FALSE	0	-13.29	0.15	0	TRUE	509	13.29					
38832	J-560	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		20573	276	57	12926: 3146	16141: 3145	6	AC	130	FALSE	0	11.4	0.13	0	TRUE	57	11.4					
38834	J-561	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		23773	275	488	7548: 2965	11148: 2966	6	AC	130	FALSE	0	31.73	0.36	0	TRUE	488	31.73					
38836	J-562	12	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		23772	274	58	10929: 2993	4166: 2937	8	AC	130	FALSE	0	-67.98	0.43	0	TRUE	58	67.98					
38839	J-563	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		20570	273	161	4166: 2937	2591: 2806	8	AC	130	FALSE	0	-69.88	0.45	0	TRUE	161	69.88					
38841	J-564	0	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		20569	272	271	8442: 2910	9756: 2908	6	AC	130	FALSE	0	38.08	0.43	0	TRUE	271	38.08					
38843	J-565	12	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		33080	271	58	15791: 2871	8442: 2910	6	AC	130	FALSE	0	-15.72	0.18	0	TRUE	58	15.72					
38849	J-567	10	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		33079	270	56	9519: 2870	9756: 2908	6	AC	130	FALSE	0	-37.19	0.42	0	TRUE	56	37.19					
38855	J-570	10	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		33739	269	57	16831: 2907	11150: 2906	6	AC	130	FALSE	0	-3.31	0.04	0	TRUE	57	3.31					
38858	J-571	10	<None>	<Collection: 0 items>	(N/A)	(N/A)	(N/A)		33738	268	38	13159: 2807	11376: 2808	6	AC	130	FALSE	0	-71.48	0.81	0.001	TRUE	38	71.48					
									26361	267	44	11741: 2528	5130: 2593	6	AC	130	FALSE	0	40.48	0.46	0	TRUE	44	40.48					
									26360	266	44	9837: 2447	15575: 2520	8	AC	130	FALSE	0	-129.84	0.83	0	TRUE	44	129.84					
									26363	265	86	13396: 2445	16818: 2493	8	AC	130	FALSE	0	30.88	0.2	0	TRUE	86	30.88					
									26362	264	262	2868: 2454	6385: 2452	12	AC	130	FALSE	0	378.6	1.07	0	TRUE	262	378.6					
									33743	263	137	2867: 2444	9837: 2447	12	AC	130	FALSE	0	-539.1	1.53	0.001	TRUE	137	539.1					
									33742	262	463	2684: 2441	2867: 2444	12	AC	130	FALSE	0	-444.25	1.26	0.001	TRUE	463	444.25					
									33745	261	51	9644: 2440	2684: 2441	12	AC	130	FALSE	0	-442.48	1.26	0.001	TRUE	51	442.48					
									33744	260	17	9518: 7072	16484: 7057	6	AC	130	FALSE	0	-37.37	0.42	0	TRUE	17	37.37					
									29408	259	293	1208: J378	3995: 7283	14	AC	130	FALSE	0	589.32	1.23	0	TRUE	293	589.32					
									29407	258	13	4591: 7250	11202: 7249	6	AC	130	FALSE	0	-37.37	0.42	0	TRUE	13	37.37					
									21818	256	5	5711: 7060	5387: 7059	6	AC	130	FALSE	0	37.37	0.42	0	TRUE	5	37.37					
									29418	255	168	9802: 6942	16557: 6928	8	AC	130	FALSE	0	93.33	0.6	0	TRUE	174	93.33					
									25612	254	33	5480: 7296	16645: 7295	12	AC	130	FALSE	0	187.72	0.53	0	TRUE	33	187.72					
									29412	253	178	11209: 7239	3995: 7283	14	AC	130	FALSE	0	-586.66	1.22	0	TRUE	178	586.66					
									29411	252	39	15076: 7251	1208: J378	8	AC	130	FALSE	0	-109.76	0.7	0	TRUE	39	109.76					
									21817	251	219	6613: 7122	15076: 7251	8	AC	130	FALSE	0	-107.1	0.68	0	TRUE	219	107.1					
									29413	250	86	8161: 7212	11209: 7239	14	AC	130	FALSE	0	-341.48	0.71	0	TRUE	86	341.48					
									36081	249	354	4824: 7217	16488: 7037	10	AC	130	FALSE	0	169.14	0.69	0	TRUE	354	169.14					
									36080	248	94	271: 7166	8161: 7212	14	AC	130	FALSE	0	-338.82	0.71	0	TRUE	94	338.82					
									36090	247	207	3666: 7056	271: 7166	14	AC	130	FALSE	0	-333.51	0.7	0	TRUE	207	333.51					
									36089	246	267	11780: 7136	9398: 6969	6	AC	130	FALSE	0	43.76	0.5	0	TRUE	268	43.76					
									36092	245	256	16488: 7037	7581: 6892	10	AC	130	FALSE	0	162.95	0.67	0	TRUE	256	162.95					
									36091	244	319	11862: 7004	7580: 6882	6	AC	130	FALSE	0	15.56	0.18	0	TRUE	339	15.56					
									36086	243	158	16557: 6928	6981: 6837	8	AC	130	FALSE	0	87.11	0.56	0	TRUE	158	87.11					
									36087	240	29	5387: 7059	16484: 7057	6	AC	130	FALSE	0	37.37	0.42	0	TRUE	29	37.37					
									32458	239	247	14501: 6570	13208: 6693	14	AC	130	FALSE	0	-329.07	0.69	0	TRUE	247	329.07					
									19421	238	301	13478: 6264	14501: 6570	14	AC	130	FALSE	0	-297.55	0.62	0	TRUE	301	297.55					
									19432	237	160	9283: 6149	13478: 6264	14	AC	130	FALSE	0	-294.44	0.61	0	TRUE	160	294.44					
									26522	236	341	10535: 6058	11351: 5879	8	AC	130	FALSE	0	10.44	0.07	0	TRUE	341	10.44					
									19434	235	261	7017: 5684	9824: 5528	8	AC	130	FALSE	0	45.99	0.29	0	TRUE	261	45.99					
									19433	234	429	9824: 5528	13120: 5256	8	AC	130	FALSE	0	45.99	0.29	0	TRUE	429	45.99					
									26520	233	433	4907: 6607	15320: 6459	6	AC	130	FALSE	0	-5.48	0.06	0	TRUE	433	5.48					
									26519	232	81	13551: 6704	10423: 6656	6	AC	130	FALSE	0	41.34	0.47	0	TRUE	81	41.34					
									19430	231	308	11082: 6622	8505: 6283	6	AC	130	FALSE	0	-8.62	0.1	0	TRUE	308	8.62					
									26521	230	305	10427: 6616	564: 6340	8	AC	130	FALSE	0	80.89	0.52	0	TRUE	305	80.89					
									35069	228	318	7624: 6554	9722: 6233	8	AC	130	FALSE	0	25.3	0.16	0	TRUE	318	25.3					
									35079	227	213	8505: 6283	14660: 6087	6	AC	130	FALSE	0	-11.37	0.13	0	TRUE	213	11.37					
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									26035	225	54	14660: 6087	270: 6044	6	AC	130	FALSE	0	-14.67	0.17	0	TRUE	54	14.67					
									35080	224	340	8504: 6043	9197: 5825	8	AC	130	FALSE	0	21.77	0.14	0	TRUE	342	21.77					
									35075	223	59	737: 5977	13083: 5930	6	AC	130	FALSE	0	1.7	0.02	0	TRUE	59	1.7					
									25038	222	37	8693: 5789	3664: 5838	8	AC	130	FALSE	0	43.23	0.28	0	TRUE	37	43.23					
									35077	221	35	9197: 5825	13087: 5793	8	AC	130	FALSE	0	15.55	0.1	0	TRUE	35	15.55					
									35076	220	62	8796: 5740	8693: 5789	8	AC	130	FALSE	0	45.63	0.29	0	TRUE	62	45.63					
									18673	217	57	8109: 5487	13982: 5547	6	AC	130	FALSE	0	-4.23	0.05	0	TRUE	57	4.23					
									18675	215	111	16527: 5085	6978: 5114	6	AC	130	FALSE	0	35.12	0.4	0	TRUE	111	35.12					
									18674	214	133	10826: 4929	2097: 4997	6	AC	130	FALSE	0	-10.04	0.11	0	TRUE	133	10.04					
									32751	213	156	15976: 4849	10826: 4929	6	AC	130	FALSE	0	-1.77	0.02	0	TRUE	156	1.77					
									18672	211	241	16457: 3924	10411: 4024	8	AC	130	FALSE	0	-5.14	0.03	0	TRUE	241	5.14					
									32752	210	293	13660: 5118	6030: 4971	8	AC	130	FALSE	0	26.06	0.17	0	TRUE	293	26.06					
									21214	209	348	10826: 4929	16527: 5085	6	AC	130	FALSE	0	6.49	0.07	0	TRUE	348	6.49					
									21213	208	16	3727: 5051	5302: 5043	6	AC	130	FALSE	0	23.71	0.27	0	TRUE	16	23.71					
									20409	207	643	5302: 5043	14834: 4708	6	AC	130	FALSE	0	8.61	0.1	0	TRUE	643	8.61					
									20408	206	109	6030: 4971	6032: 4921	8	AC	130	FALSE	0	23.68	0.15	0	TRUE	109	23.68					
									20411	205	218	1138: 4559	1192: 4649	8	AC	130	FALSE	0	-5.11	0.03	0	TRUE	218	5.11					
									20410	204	39	1744: 4536	1138: 4559	8	AC	130	FALSE	0	-2.73	0.02	0	TRUE	39	2.73					
									21220	203	355	13261: 4255	1744: 4536	8	AC	130	FALSE	0	0.82	0.01	0	TRUE	355	0.82					
									21219	202	415	2710: 4472	13230: 4413	8	AC	130	FALSE	0	-3.97	0.03	0	TRUE	415	3.97					
									20407	201	53	2710: 4472	11061: 4439	8	AC	130	FALSE	0	3.16	0.02	0	TRUE	53	3.16					
									20406	200	41	13260: 4245	13261: 4255	8	AC	130	FALSE	0	2.59	0.02	0	TRUE	41	2.59					
									23168	199	228	2239: 4197	2837: 4246	8	AC	130	FALSE	0	1.77	0.01	0	TRUE	228	1.77					
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									28371	197	43	2440: 4237	343: 4220	8	AC	130	FALSE	0	-0.39	0	0	TRUE	43	0.39					
									23179	195	328	13070: 4078	2239: 4197	8	AC	130	FALSE	0	12.94	0.08	0	TRUE	328	12.94					
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									28366	192	43	7403: 4069	10386: 4050	8	AC	130	FALSE	0	-4.38	0.03	0	TRUE	43	4.38					
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									25776	180	319	1165: 3782	10236: 3571	6	AC	130	FALSE	0	-4.09	0.05	0	TRUE	319	4.09					
									18399	179	41	13104: 3750	10208: 3734	8	AC	130	FALSE	0	-11.01	0.07	0	TRUE	41	11.01					
									30055	178	296	5912: 3582	12901: 3625	8	AC	130	FALSE	0	41.29	0.26	0	TRUE	296	41.29					
									18408	177	38	967: 3604	12901: 3625	8	AC	130	FALSE	0	-19.26	0.12	0	TRUE	38	19.26					
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									25025	169	93	4218: 3134	5904: 3137	8	AC	130	FALSE	0	4.21	0.03	0	TRUE	93	4.21					
									25024	168	152	11446: 3060	13483: 3088	8	AC	130	FALSE	0	24.48	0.16	0	TRUE	152	24.48					
									25033	167	257	4754: 2899	14414: 3090	8	AC	130	FALSE	0	76.23	0.49	0	TRUE	257	76.23					
									25032	166	108	13483: 3088	6474: 3079	8	AC	130	FALSE	0	22.17	0.14	0	TRUE	108	22.17					
									25035	165	190	13765: 3065	629: 2981	8	AC	130	FALSE	0	16.47	0.11	0	TRUE	190	16.47					
									25034	164	61	14422: 3010	11446: 3060	8	AC	130	FALSE	0	26.25	0.17	0	TRUE	61	26.25					
									25029	163	45	6258: 2980	11448: 3030	6	AC	130	FALSE	0	3.74	0.04	0	TRUE	45	3.74					
									25028	162	152	5187: 2883	14423: 3020	8	AC	130	FALSE	0	11.73	0.07	0	TRUE	152	11.73					
									25031	161	288	8809: 2884	6258: 2980	6	AC	130	FALSE	0	5.51	0.06	0	TRUE	288	5.51					
									25030	160	431	5351: 2536	4754: 2899	8	AC	130	FALSE	0	115.54	0.74	0	TRUE	431	115.54					
									31670	159	394	5529: 2547	5187: 2883	8	AC	130	FALSE	0	21.87	0.14	0	TRUE	394	21.87					
									31669	158	176	4699: 2599	4312: 2740	6	AC	130	FALSE	0	2.46	0.03	0	TRUE	176	2.46					
									31680	157	69	8666: 2504	4699: 2599	6	AC	130	FALSE	0	6.12	0.07	0	TRUE	69	6.12					
									31679	156	40	263: 2482	5529: 2547	8	AC	130	FALSE	0	25.8	0.16	0	TRUE	40	25.8					
									31682	155	313	8460: 2501	5133: 2543	8	AC	130	FALSE	0	-32.8	0.21	0	TRUE	313	32.8					
									31681	154	1	8463: 2531	5351: 2536	8	AC	130	FALSE	0	153.4	0.98	0.001	TRUE	1	153.4					
									31676	153	46	267: 2462	8463: 2531	8	AC	130	FALSE	0	155.72	0.99	0.001	TRUE	46	155.72					
									31675	152	328	4704: 2509	8666: 2504	6	AC	130	FALSE	0	-2.32	0.03	0	TRUE	328	2.32					
									31678	151	32	17014: 2446	8666: 2504	6	AC	130	FALSE	0	10.75	0.12	0	TRUE	32	10.75					
									31677	150	224	15573: 2500	8460: 2501	8	AC	130	FALSE	0	-31.4	0.2	0	TRUE	224	31.4					
									19338	149	42	13403: 2435	15573: 2500	6	AC	130	FALSE	0	26.18	0.3	0	TRUE	42	26.18					
									19337	148	37	14008: 2438	8307: 2499	6	AC	130	FALSE	0	4.63	0.05	0	TRUE	37	4.63					
									19348	147	15	9651: 2430	17014: 2446	6	AC	130	FALSE	0	12.52	0.14	0	TRUE	15	12.52					
									19347	146	519	11396: 2424	13402: 2425	12	AC	130	FALSE	0	-360.51	1.02	0	TRUE	519	360.51					
									19349	144	30	2105: 6030	10138: 5969	6	AC	130	FALSE	0	9.93	0.11	0	TRUE	87	9.93					
									19344	143	87	13533: 6115	8609: 6038	6	AC	130	FALSE	0	22.32	0.25	0	TRUE	131	22.32					
									19343	142	452	7761: 5963	13932: 5674	10	AC	130	FALSE	0	67.84	0.28	0	TRUE	453	67.84					
									19346	141	146	5113: 5842	5842: 5735	6	AC	130	FALSE	0	18.12	0.21	0	TRUE	143	18.12					
									19345	140	251	5127: 5675	9820: 5568	6	AC	130	FALSE	0	5.74	0.07	0	TRUE	250	5.74					
									29735	138	244	8117: 5427	14193: 5315	6	AC	130	FALSE	0	40.05	0.45	0	TRUE	248	40.05					
									29748	135	145	8609: 6038	2105: 6030	6	AC	130	FALSE	0	16.12	0.18	0	TRUE	9	16.12					
									29747	134	11	16505: 6258	16988: 6245	6	AC	130	FALSE	0	34.7	0.39	0	TRUE	11	34.7					
									19765	133	103	5842: 5735	5127: 5675	6	AC	130	FALSE	0	11.93	0.14	0	TRUE	105	11.93					
									29744	131	72	8112: 5457	8117: 5427	6	AC	130	FALSE	0	46.24	0.52	0	TRUE	69	46.24					
									19766	130	113	14193: 5315	8643: 5259	6	AC	130	FALSE	0	33.86	0.38	0	TRUE	113	33.86					
									36373	129	119	5758: 5245	7583: 5163	6	AC	130	FALSE	0	21.48	0.24	0	TRUE	116	21.48					
									36372	128	131	4876: 6418	16505: 6258	6	AC	130	FALSE	0	40.89	0.46	0	TRUE	134	40.89					
									36378	122	334	1314: 4731	5914: 4879	14	AC	130	FALSE	0	-170.57	0.36	0	TRUE	312	170.57					
									36381	121	41	8102: 4324	12468: 4377	6	AC	130	FALSE	0	-0.67	0.01	0	TRUE	41	0.67					
									36380	120	37	2843: 4000	17430: 4021	8	AC	130	FALSE	0	1.69	0.01	0	TRUE	37	1.69					
									24033	119	39	4204: 3975	2843: 4000	8	AC	130	FALSE	0	12.97	0.08	0	TRUE	39	12.97					
									24032	118	23	6040: 3957	2354: 3952	6	AC	130	FALSE	0	0	0	0	TRUE	23	0					
									24042	116	395	15781: 4437	8863: 4665	6	AC	130	FALSE	0	-13.15	0.15	0	TRUE	395	13.15					
									24922	115	414	17420: 4081	5874: 3953	6	AC	130	FALSE	0	16.82	0.19	0	TRUE	414	16.82					
									24921	114	27	766: 4067	5535: 4070	6	AC	130	FALSE	0	22.75	0.26	0	TRUE	27	22.75					
									24039	113	92	4884: 4045	766: 4067	6	AC	130	FALSE	0	-18.43	0.21	0	TRUE	92	18.43					
									24038	112	58	13074: 4038	5672: 4042	6	AC	130	FALSE	0	-23.27	0.26	0	TRUE	58	23.27					
									24041	111	21	6321: 4035	13074: 4038	6	AC	130	FALSE	0	-21.5	0.24	0	TRUE	21	21.5					
									24040	110	32	1372: 5105	13255: 5112	8	AC	130	FALSE	0	5.09	0.03	0	TRUE	32	5.09					
									27459	109	342	7565: 4946	1372: 5105	8	AC	130	FALSE	0	7.39	0.05	0	TRUE	342	7.39					
									27458	108	131	13919: 5087	5308: 5023	6	AC	130	FALSE	0	9.09	0.1	0	TRUE	153	9.09					
									30714	106	460	5308: 5023	17266: 4827	6	AC	130	FALSE	0	2.9	0.03	0	TRUE	467	2.9					
									30716	105	344	1309: 4751	2679: 4922	8	AC	130	FALSE	0	11.17	0.07	0	TRUE	344	11.17					
									30715	104	211	11751: 4699	17267: 4837	6	AC	130	FALSE	0	-9.24	0.1	0	TRUE	211	9.24					
									30711	103	19	17266: 4827	17264: 4807	6	AC	130	FALSE	0	26.03	0.3	0	TRUE	17	26.03					
									30710	102	239	17264: 4807	9527: 4695	6	AC	130	FALSE	0	19.84	0.23	0	TRUE	242	19.84					
									30713	101	420	657: 4762	5144: 4584	10	AC	130	FALSE	0	56.95	0.23	0	TRUE	427	56.95					
									30712	100	58	16128: 4719	1309: 4751	8	AC	130	FALSE	0	12.94	0.08	0	TRUE	58	12.94					
									21810	99	213	9527: 4695	8148: 4608	6	AC	130	FALSE	0	13.65	0.15	0	TRUE	209	13.65					
									25824	98	48	5006: 4651	10057: 4673	10	AC	130	FALSE	0	-113.06	0.46	0	TRUE	48	113.06					
									28172	97	42	10267: 4641	5006: 4651	10	AC	130	FALSE	0	-55.77	0.23	0	TRUE	42	55.77					
									34873	96	5	12037: 4640	10267: 4641	10	AC	130	FALSE	0	-49.84	0.2	0	TRUE	5	49.84					
									22062	95	165	8148: 4608	7098: 4577	6	AC	130	FALSE	0	7.45	0.08	0	TRUE	85	7.45					
									24698	94	659	3880: 4605	7964: 4141	6	AC	130	FALSE	0	18.58	0.21	0	TRUE	659	18.58					
									20927	92	177	7098: 4577	14200: 4404	6	AC	130	FALSE	0	12.9	0.15	0	TRUE	259	12.9					
									32064	91	19	6396: 4477	13666: 4498	6	AC	130	FALSE	0	22.37	0.25	0	TRUE	19	22.37					
									21561	90	230	14200: 4404	10670: 4241	6	AC	130	FALSE	0	6.71	0.08	0	TRUE	238	6.71					
									26631	89	167	2040: 4243	2228: 4181	10	AC	130	FALSE	0	25.6	0.1	0	TRUE	188	25.6					
									19524	87	161	13600: 4146	767: 4077	6	AC	130	FALSE	0	12.71	0.14	0	TRUE	153	12.71					
									24585	83	70	4207: 3935	16743: 3911	12	AC	130	FALSE	0	-73.12	0.21	0	TRUE	70	73.12					
									27168	82	258	3530: 3875	15796: 3780	8	AC	130	FALSE	0	48.15	0.31	0	TRUE	258	48.15					
									34358	81	18	3529: 3865	4913: 3851	6	AC	130	FALSE	0	10.59	0.12	0	TRUE	18	10.59					
									32312	80	419	4913: 3851	9967: 3751	6	AC	130	FALSE	0	8.82	0.1	0	TRUE	419	8.82					
									24607	79	29	13252: 3822	13133: 3847	6	AC	130	FALSE	0	-15.28	0.17	0	TRUE	29	15.28					
									23076	78	83	5352: 3792	13252: 3822	6	AC	130	FALSE	0	-6.87	0.08	0	TRUE	83	6.87					
									29836	77	96	9922: 3818	10215: 3791	12	AC	130	FALSE	0	-77.32	0.22	0	TRUE	96	77.32					
									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					
									20412	41	302	8732: 2824	10515: 2789	6	AC	130	FALSE	0	-8.23	0.09	0	TRUE	302	8.23					
									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					
									19408	32	292	12229: 2612	14004: 2478	6	AC	130	FALSE	0	20.36	0.23	0	TRUE	292	20.36					
									18411	30	55	14004: 2478	11737: 2568	8	AC	130	FALSE	0	69.78	0.45	0	TRUE	55	69.78					
									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					
									35508	24	150	4911: 3891	6997: 3813	6	AC	130	FALSE	0	0	0	0	TRUE	150	0					
									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		
3285	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		
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16593	14533	1.4	<None>	<Collection: 1 item>	1.64	173.6	74.6		36588	6227	39	15681: 13547	2508: 13546	8	AC	130	FALSE	0	-100.82	0.64	0	TRUE	39	100.82					
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16600	14840	1.5	<None>	<Collection: 1 item>	1.64	173.5	74.6		17993	6211	58	17031: 13237	16406: 13236	6	AC	130	FALSE	0	22.3	0.25	0	TRUE	58	22.3					
16601	14940	3.1	<None>	<Collection: 1 item>	1.64	173.5	73.9		24162	6203	499	8200: 13102	5785: 13100	6	AC	130	FALSE	0	46.5	0.53	0	TRUE	499	46.5					
16614	13666	1.5	<None>	<Collection: 1 item>	1.64	175.1	75.3		17992	6201	57	11994: 13099	10087: 13098	6	AC	130	FALSE	0	42.06	0.48	0	TRUE	57	42.06					
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16736	14188	4	<None>	<Collection: 1 item>	1.64	174.4	73.9		29570	6193	468	6416: 12839	1280: 12842	12	AC	130	FALSE	0	-4.44	0.01	0	TRUE	468	4.44					
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17138	15444	1.3	<None>	<Collection: 1 item>	1.64	173	74.4		22924	5988	65	16292: 15466	5941: 15483	6	AC	130	FALSE	0	-3.14	0.04	0	TRUE	65	3.14					
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17216	12600	6.5	<None>	<Collection: 1 item>	1.64	177.9	74.3		32682	5985	241	16292: 15466	10705: 15347	6	AC	130	FALSE	0	-23.58	0.27	0	TRUE	241	23.58					
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17311	13314	6.5	<None>	<Collection: 1 item>	1.64	176.8	73.8		27818	5977	297	4888: 15677	8423: 15775	8	AC	130	FALSE	0	21.95	0.14	0	TRUE	297	21.95					
17340	15628	1.3	<None>	<Collection: 1 item>	1.64	172.8	74.4		19481	5976	339	5455: 14770	9766: 14954	8	AC	130	FALSE	0	-19.71	0.13	0	TRUE	339	19.71					
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17536	13644	4	<None>	<Collection: 1 item>	1.64	175	74.1		24301	5971	252	10193: 14768	16111: 14766	8	AC	130	FALSE	0	9.24	0.06	0	TRUE	252	9.24					
4989	14286	3.5	<None>	<Collection: 1 item>	1.64	174.2	74		36133	5970	195	16111: 14766	15351: 14765	8	AC	130	FALSE	0	5.96	0.04	0	TRUE	195	5.96					
12463	14956	1.5	<None>	<Collection: 1 item>	1.64	173.8	74.7		26707	5969	688	1109: 15042	5038: 15209	8	AC	130	FALSE	0	93.95	0.6	0	TRUE	688	93.95					
193	15911	1.5	<None>	<Collection: 1 item>	1.48	173.2	74.5		22933	5968	308	4653: 15207	3148: 15208	8	AC	130	FALSE	0	31.81	0.2	0	TRUE	308	31.81					
465	12853	6.7	<None>	<Collection: 1 item>	1.48	178	74.3		27817	5967	211	3569: 15039	407: 15041	8	AC	130	FALSE	0	-47.27	0.3	0	TRUE	211	47.27					
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1571	13389	4.2	<None>	<Collection: 1 item>	1.48	176.6	74.8		19483	5956	20	15464: 15509	12000: 15490	12	AC	130	FALSE	0	-474	1.34	0.001	TRUE	20	474					
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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1785	14416	3.6	<None>	<Collection: 1 item>	1.48	175	74.3		21803	5953	58	14532: 15492	17292: 15536	8	AC	130	FALSE	0	102.19	0.65	0	TRUE	58	102.19					
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2308	13116	6.5	<None>	<Collection: 1 item>	1.48	177	73.9		26708	5949	34	1697: 15486	837: 15487	8	AC	130	FALSE	0	-92.07	0.59	0	TRUE	34	92.07					
2406	13925	4	<None>	<Collection: 1 item>	1.48	175.5	74.3		28222	5948	211	6773: 15421	4867: 15325	8	AC	130	FALSE	0	-105.2	0.67	0	TRUE	211	105.2					
2508	13546	5.6	<None>	<Collection: 1 item>	1.48	176.1	73.9		27819	5947	55	7859: 15402	7196: 15401	6	AC	130	FALSE	0	-4.93	0.06	0	TRUE	55	4.93					
2602	15684	2.2	<None>	<Collection: 1 item>	1.48	173.8	74.4		19482	5946	53	4867: 15325	16342: 15290	8	AC	130	FALSE	0	-89.77	0.57	0	TRUE	53	89.77					
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3143	15508	4.1	<None>	<Collection: 1 item>	1.48	173.9	73.6		25319	5943	67	8426: 15275	6703: 15274	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	67	3.28					
3152	12624	1.5	<None>	<Collection: 1 item>	1.48	176.9	76		18496	5942	257	6703: 15274	11463: 15096	8	AC	130	FALSE	0	-135.68	0.87	0	TRUE	257	135.68					
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6871	12574	5.5	<None>	<Collection: 1 item>	1.48	177.7	74.6		26706	5919	261	5080: 14379	626: 14377	12	AC	130	FALSE	0	270.66	0.77	0	TRUE	261	270.66					
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									23511	5541	487	7376: 15271	7864: 15102	8	AC	130	FALSE	0	-94.26	0.6	0	TRUE	487	94.26				
									25630	5539	30	15155: 15262	13511: 15234	8	AC	130	FALSE	0	-68.61	0.44	0	TRUE	30	68.61				
									26262	5538	39	12694: 15260	409: 15241	6	AC	130	FALSE	0	-35.49	0.4	0	TRUE	39	35.49				
									26665	5532	450	2988: 15224	3602: 14947	6	AC	130	FALSE	0	-55.74	0.63	0	TRUE	450	55.74				
									24139	5530	76	6779: 15221	4060: 15182	6	AC	130	FALSE	0	7.33	0.08	0	TRUE	76	7.33				
									35224	5528	279	9714: 15198	3737: 15121	8	AC	130	FALSE	0	-4.93	0.03	0	TRUE	279	4.93				
									31490	5526	215	13816: 15191	14458: 15061	8	AC	130	FALSE	0	-83.28	0.53	0	TRUE	215	83.28				
									18235	5525	138	5415: 15100	12285: 15169	6	AC	130	FALSE	0	48.4	0.55	0	TRUE	138	48.4				
									18048	5523	340	2625: 15113	5869: 15107	8	AC	130	FALSE	0	-4.93	0.03	0	TRUE	340	4.93				
									26664	5522	217	6493: 15104	9567: 15103	8	AC	130	FALSE	0	62.28	0.4	0	TRUE	217	62.28				
									23507	5521	65	9567: 15103	7864: 15102	8	AC	130	FALSE	0	53.18	0.34	0	TRUE	65	53.18				
									20461	5520	34	1701: 15086	5415: 15100	6	AC	130	FALSE	0	50.85	0.58	0	TRUE	34	50.85				
									29530	5517	74	13509: 15034	8424: 15075	8	AC	130	FALSE	0	148.79	0.95	0.001	TRUE	74	148.79				
									35986	5515	64	8580: 15059	11922: 15067	8	AC	130	FALSE	0	-90.61	0.58	0	TRUE	64	90.61				
									32895	5514	138	14458: 15061	8580: 15059	8	AC	130	FALSE	0	-85.73	0.55	0	TRUE	138	85.73				
									26666	5512	4	301: 14981	6793: 14987	12	AC	130	FALSE	0	455.48	1.29	0.001	TRUE	4	455.48				
									23509	5511	264	805: 14839	4259: 14985	8	AC	130	FALSE	0	66.64	0.43	0	TRUE	264	66.64				
									24140	5510	29	4259: 14985	2451: 14984	8	AC	130	FALSE	0	-7.12	0.05	0	TRUE	29	7.12				
									25631	5509	458	2451: 14984	1404: 14980	8	AC	130	FALSE	0	-10.41	0.07	0	TRUE	458	10.41				
									35225	5508	91	3848: 14982	5742: 14983	8	AC	130	FALSE	0	-19.53	0.12	0	TRUE	91	19.53				
									29529	5507	62	11298: 14952	9951: 14938	8	AC	130	FALSE	0	-125.99	0.8	0	TRUE	62	125.99				
									20105	5506	69	2298: 14949	10565: 14951	6	AC	130	FALSE	0	32.58	0.37	0	TRUE	69	32.58				
									35985	5505	154	13723: 14948	2298: 14949	6	AC	130	FALSE	0	35.02	0.4	0	TRUE	154	35.02				
									29777	5503	243	11336: 14869	13723: 14948	6	AC	130	FALSE	0	37.47	0.43	0	TRUE	243	37.47				
									23508	5501	254	1237: 14827	3602: 14947	6	AC	130	FALSE	0	59.02	0.67	0	TRUE	254	59.02				
									36050	5499	196	908: 14942	13722: 14848	8	AC	130	FALSE	0	-79.22	0.51	0	TRUE	196	79.22				
									32957	5498	96	9951: 14938	2484: 14913	8	AC	130	FALSE	0	-128.44	0.82	0	TRUE	96	128.44				
									26717	5496	61	2484: 14913	6326: 14904	8	AC	130	FALSE	0	-130.88	0.84	0	TRUE	61	130.88				
									25298	5494	37	11689: 14855	11336: 14869	6	AC	130	FALSE	0	39.91	0.45	0	TRUE	37	39.91				
									27815	5493	297	2651: 14843	3601: 14847	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	297	3.28				
									35475	5492	333	907: 14842	16600: 14840	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	333	3.28				
									30215	5491	78	6425: 14829	7901: 14772	6	AC	130	FALSE	0	-35.21	0.4	0	TRUE	78	35.21				
									32956	5488	70	7237: 14771	17506: 14811	8	AC	130	FALSE	0	103.84	0.66	0	TRUE	70	103.84				
									26716	5486	4	16402: 13636	15657: 13635	8	AC	130	FALSE	0	-322.03	2.06	0.002	TRUE	4	322.03				
									29655	5485	57	16402: 13636	17027: 13637	8	AC	130	FALSE	0	-54.34	0.35	0	TRUE	57	54.34				
									25297	5484	232	15363: 13632	15364: 13732	8	AC	130	FALSE	0	30	0.19	0	TRUE	232	30				
									24334	5483	394	10548: 13638	547: 13623	8	AC	130	FALSE	0	86.21	0.55	0	TRUE	394	86.21				
									18718	5482	108	17027: 13637	10548: 13638	8	AC	130	FALSE	0	-57.62	0.37	0	TRUE	108	57.62				
									31129	5481	709	10497: 13838	13547: 14264	8	AC	130	FALSE	0	220.42	1.41	0.001	TRUE	709	220.42				
									25565	5480	525	11697: 14055	9302: 14197	8	AC	130	FALSE	0	-26.65	0.17	0	TRUE	525	26.65				
									36057	5479	39	4987: 14086	11304: 14052	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	39	3.28				
									23815	5478	259	13172: 14053	11304: 14052	6	AC	130	FALSE	0	-64.15	0.73	0	TRUE	259	64.15				
									28065	5477	261	7525: 13853	4665: 14025	6	AC	130	FALSE	0	75.64	0.86	0.001	TRUE	261	75.64				
									22365	5476	250	9016: 13752	5778: 13900	8	AC	130	FALSE	0	44.71	0.29	0	TRUE	250	44.71				
									23587	5475	90	7525: 13853	12575: 13844	6	AC	130	FALSE	0	-121.53	1.38	0.001	TRUE	90	121.53				
									20543	5474	11	13030: 13760	7530: 13753	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	11	1.64				
									36411	5473	43	12846: 13730	15364: 13732	8	AC	130	FALSE	0	-1.64	0.01	0	TRUE	43	1.64				
									33369	5472	214	14593: 13731	1990: 13729	8	AC	130	FALSE	0	-1.64	0.01	0	TRUE	214	1.64				
									30224	5471	303	2333: 13720	1990: 13729	8	AC	130	FALSE	0	-68.61	0.44	0	TRUE	303	68.61				
									36056	5469	105	10570: 14651	13644: 14691	6	AC	130	FALSE	0	49.69	0.56	0	TRUE	105	49.69				
									19454	5467	256	5747: 14683	16960: 14544	8	AC	130	FALSE	0	-95.64	0.61	0	TRUE	256	95.64				
									22364	5466	297	3096: 14681	3853: 14682	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	297	3.28				
									23586	5465	333	1409: 14680	3183: 14678	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	333	3.28				
									20542	5464	256	621: 14677	14780: 14532	8	AC	130	FALSE	0	-83.06	0.53	0	TRUE	256	83.06				
									36410	5463	37	7236: 14671	8953: 14676	8	AC	130	FALSE	0	111.17	0.71	0	TRUE	37	111.17				
									30223	5461	134	8241: 14675	9442: 14603	6	AC	130	FALSE	0	-38.5	0.44	0	TRUE	134	38.5				
									27110	5460	26	416: 14667	7236: 14671	8	AC	130	FALSE	0	116.06	0.74	0	TRUE	26	116.06				
									31597	5459	98	3563: 14621	416: 14667	8	AC	130	FALSE	0	118.51	0.76	0	TRUE	98	118.51				
									29852	5457	63	6051: 14610	10570: 14651	6	AC	130	FALSE	0	54.58	0.62	0	TRUE	63	54.58				
									20544	5454	27	17512: 14611	3563: 14621	8	AC	130	FALSE	0	120.95	0.77	0	TRUE	27	120.95				
									33371	5452	24	12956: 14594	17512: 14611	8	AC	130	FALSE	0	123.4	0.79	0	TRUE	24	123.4				

									30226	5451	123	4662: 14525	6051: 14610	6	AC	130	FALSE	0	57.02	0.65	0	TRUE	123	57.02					
									27111	5450	24	9442: 14603	2666: 14589	6	AC	130	FALSE	0	-41.78	0.47	0	TRUE	24	41.78					
									31596	5449	112	13343: 14534	12956: 14594	8	AC	130	FALSE	0	128.29	0.82	0	TRUE	112	128.29					
									29851	5447	79	2666: 14589	1297: 14545	6	AC	130	FALSE	0	-43.42	0.49	0	TRUE	79	43.42					
									36412	5443	405	1297: 14545	16202: 14463	6	AC	130	FALSE	0	-45.07	0.51	0	TRUE	405	45.07					
									33370	5442	296	809: 14539	2656: 14543	6	AC	130	FALSE	0	-3.28	0.04	0	TRUE	296	3.28					
									36053	5439	336	16593: 14533	5930: 14535	6	AC	130	FALSE	0	4.93	0.06	0	TRUE	336	4.93					
									32959	5438	62	17231: 14530	14066: 14531	8	AC	130	FALSE	0	96.2	0.61	0	TRUE	62	96.2					
									29846	5437	218	1241: 14527	17231: 14530	8	AC	130	FALSE	0	143.85	0.92	0.001	TRUE	218	143.85					
									18059	5436	62	5425: 14526	1241: 14527	8	AC	130	FALSE	0	147.13	0.94	0.001	TRUE	62	147.13					
									20539	5434	198	9296: 14497	4662: 14525	6	AC	130	FALSE	0	59.47	0.67	0	TRUE	198	59.47					
									36052	5429	43	14598: 14499	9296: 14497	6	AC	130	FALSE	0	64.36	0.73	0	TRUE	43	64.36					
									32958	5428	191	16202: 14463	12955: 14494	6	AC	130	FALSE	0	-47.51	0.54	0	TRUE	191	47.51					
									29707	5426	70	5459: 14370	13168: 14453	12	AC	130	FALSE	0	528.62	1.5	0.001	TRUE	70	528.62					
									23583	5425	1,018	12741: 14409	6429: 14429	8	AC	130	FALSE	0	-52.88	0.34	0	TRUE	1,018	52.88					
									20538	5424	4	12741: 14409	2974: 14408	8	AC	130	FALSE	0	-159.84	1.02	0.001	TRUE	4	159.84					
									36406	5423	126	8734: 14406	2974: 14408	12	AC	130	FALSE	0	14.5	0.04	0	TRUE	126	14.5					
									33364	5422	35	16200: 14393	1044: 14389	12	AC	130	FALSE	0	187.68	0.53	0	TRUE	35	187.68					
									30219	5421	500	14800: 13961	236: 14241	12	AC	130	FALSE	0	371.44	1.05	0	TRUE	500	371.44					
									33773	5418	252	519: 13911	12959: 14094	8	AC	130	FALSE	0	59.51	0.38	0	TRUE	252	59.51					
									20541	5414	4	10689: 13757	13002: 13756	6	AC	130	FALSE	0	24.65	0.28	0	TRUE	4	24.65					
									36409	5413	59	13002: 13756	12252: 13755	6	AC	130	FALSE	0	23	0.26	0	TRUE	59	23					
									33367	5412	254	12252: 13755	12443: 13639	6	AC	130	FALSE	0	-50.81	0.58	0	TRUE	254	50.81					
									30222	5411	82	12443: 13639	13857: 13634	6	AC	130	FALSE	0	31.26	0.35	0	TRUE	82	31.26					
									27109	5410	87	13857: 13634	15657: 13635	6	AC	130	FALSE	0	27.98	0.32	0	TRUE	87	27.98					
									23585	5405	476	14597: 13331	11125: 13463	6	AC	130	FALSE	0	22.62	0.26	0	TRUE	476	22.62					
									20540	5404	31	8570: 13457	7527: 13453	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	31	1.64					
									27822	5403	444	9266: 13450	528: 13211	12	AC	130	FALSE	0	-298.98	0.85	0	TRUE	444	298.98					
									33366	5402	197	8202: 13302	16836: 13418	10	AC	130	FALSE	0	146.88	0.6	0	TRUE	197	146.88					
									30221	5401	212	551: 13223	14597: 13331	6	AC	130	FALSE	0	173.01	1.96	0.003	TRUE	212	173.01					
									27108	5400	237	14596: 13231	5230: 13325	8	AC	130	FALSE	0	222.16	1.42	0.001	TRUE	237	222.16					
									29098	5399	158	2310: 13316	14048: 13318	8	AC	130	FALSE	0	138.31	0.88	0	TRUE	158	138.31					
									21251	5397	14	1611: 13315	2310: 13316	8	AC	130	FALSE	0	141.6	0.9	0	TRUE	14	141.6					
									18172	5396	46	1611: 13315	17311: 13314	8	AC	130	FALSE	0	-143.24	0.91	0	TRUE	46	143.24					
									34071	5395	477	11104: 13051	17311: 13314	6	AC	130	FALSE	0	71.04	0.81	0.001	TRUE	477	71.04					
									30933	5394	213	1569: 13189	11359: 13307	6	AC	130	FALSE	0	134.2	1.52	0.002	TRUE	213	134.2					
									27821	5393	196	10088: 13198	8202: 13302	10	AC	130	FALSE	0	161.83	0.66	0	TRUE	196	161.83					
									24720	5392	251	10691: 13157	14596: 13231	8	AC	130	FALSE	0	167.22	1.07	0.001	TRUE	251	167.22					
									18544	5390	382	14407: 13213	1254: 13212	6	AC	130	FALSE	0	80.9	0.92	0.001	TRUE	382	80.9					
									32497	5389	257	9120: 13039	1254: 13212	6	AC	130	FALSE	0	95.4	1.08	0.001	TRUE	257	95.4					
									25540	5388	2	528: 13211	16243: 13210	6	AC	130	FALSE	0	-384.8	4.37	0.013	TRUE	2	384.8					
									21250	5387	257	14621: 13043	16243: 13210	12	AC	130	FALSE	0	464.72	1.32	0.001	TRUE	257	464.72					
									18171	5386	87	5404: 13209	3543: 13208	8	AC	130	FALSE	0	74.99	0.48	0	TRUE	87	74.99					
									30932	5384	360	11130: 13163	12852: 12956	6	AC	130	FALSE	0	-63.87	0.72	0	TRUE	360	63.87					
									27820	5383	269	4955: 13008	10691: 13157	8	AC	130	FALSE	0	201.87	1.29	0.001	TRUE	269	201.87					
									24719	5382	336	9270: 13050	15808: 12896	6	AC	130	FALSE	0	-79.74	0.9	0.001	TRUE	336	79.74					
									18543	5380	251	17062: 12888	14621: 13043	12	AC	130	FALSE	0	541.09	1.53	0.001	TRUE	251	541.09					
									27444	5379	373	16432: 13040	742: 13041	6	AC	130	FALSE	0	-73.08	0.83	0.001	TRUE	373	73.08					
									24339	5378	157	1608: 13015	13859: 13034	6	AC	130	FALSE	0	35.83	0.41	0	TRUE	157	35.83					
									21257	5377	473	5349: 12886	13859: 13034	6	AC	130	FALSE	0	70.29	0.8	0.001	TRUE	473	70.29					
									32834	5376	125	4955: 13008	555: 12941	8	AC	130	FALSE	0	-244.63	1.56	0.001	TRUE	125	244.63					
									34079	5375	109	12852: 12956	1111: 12903	6	AC	130	FALSE	0	-71.17	0.81	0.001	TRUE	109	71.17					
									21487	5374	185	555: 12941	15104: 12832	8	AC	130	FALSE	0	-332.04	2.12	0.002	TRUE	185	332.04					
									27828	5373	106	10918: 12851	11413: 12897	8	AC	130	FALSE	0	223.35	1.43	0.001	TRUE	106	223.35					
									24726	5372	195	15484: 12735	17062: 12888	12	AC	130	FALSE	0	645.19	1.83	0.001	TRUE	195	645.19					
									21631	5371	362	12185: 12790	1035: 12787	12	AC	130	FALSE	0	4.93	0.01	0	TRUE	362	4.93					
									18550	5370	49	16582: 12750	10924: 12751	6	PVC	130	FALSE	0	-12.77	0.14	0	TRUE	49	12.77					
									24338	5368	436	13697: 12734	5795: 12726	12	AC	130	FALSE	0	128.29	0.36	0	TRUE	436	128.29					
									21256	5367	24	3153: 12724	12323: 12723	12	AC	130	FALSE	0	-148.74	0.42	0	TRUE	24	148.74					
									32833	5366	50	12323: 12723	3920: 12721	12	AC	130	FALSE	0	-114.88	0.33	0	TRUE	50	114.88					
									34078	5365	280	370: 12711	8007: 12702	12	AC	130	FALSE	0	-126.74	0.36	0	TRUE	280	126.74					
									26171	5364	269	8007: 12702	17217: 12700	12	AC	130	FALSE	0	-132.03	0.37	0	TRUE	269	132.03					
									27827	5363	25	17217: 12700	11815: 12699	12	AC	130	FALSE	0	-121.79	0.35	0	TRUE	25	121.79					
									24725	5362	206	10878: 12520	6465: 12650	6	AC	130	FALSE	0	64.86	0.74	0	TRUE	206	64.86					
									23387	5361	92	13897: 12564	16253: 12636	8	AC	130	FALSE	0	15.17	0.1	0	TRUE	92	15.17					
									18549	5360	451	4593: 12585	1033: 12587	6	AC	130	FALSE	0	42.89	0.49	0	TRUE	451	42.89					
									27446	5359	185	4593: 12585	14770: 12584	6	AC	130	FALSE	0	-46.18	0.52	0	TRUE	185	46.18					

Updated	6,700 GPM

Junction Properties

ID	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
3603	6549	22	<None>	<Collection: 1 item>	14.77	182.5	69.6
4014	6553	23.7	<None>	<Collection: 1 item>	14.77	182.5	68.8
6713	6440	23.6	<None>	<Collection: 1 item>	14.77	182.6	68.9
7431	6551	21.9	<None>	<Collection: 1 item>	14.77	182.5	69.6
8683	6425	23.7	<None>	<Collection: 1 item>	14.77	182.6	68.9
8835	6437	23.1	<None>	<Collection: 1 item>	14.77	182.6	69.1
11006	6552	23.7	<None>	<Collection: 1 item>	14.77	182.5	68.8
67	3007	-5.6	<None>	<Collection: 1 item>	5.91	183.3	81.9
1710	3016	24.1	<None>	<Collection: 1 item>	5.91	183.3	69
1777	2845	21.8	<None>	<Collection: 1 item>	5.91	183.3	70
6537	3559	11.5	<None>	<Collection: 1 item>	5.91	184.8	75.1
6610	3015	24.3	<None>	<Collection: 1 item>	5.91	183.3	68.9
7634	3348	22.4	<None>	<Collection: 1 item>	5.91	184.8	70.4
9410	3132	23.2	<None>	<Collection: 1 item>	5.91	184.8	70.1
10235	3561	21.5	<None>	<Collection: 1 item>	5.91	184.8	70.8
10523	2709	25.1	<None>	<Collection: 1 item>	5.91	183.4	68.6
11377	2838	23.5	<None>	<Collection: 1 item>	5.91	183.3	69.3
12713	3320	23.1	<None>	<Collection: 1 item>	5.91	184.8	70.1
12899	3605	21.6	<None>	<Collection: 1 item>	5.91	184.8	70.8
13964	3562	16.4	<None>	<Collection: 1 item>	5.91	184.8	73
14500	2837	23.9	<None>	<Collection: 1 item>	5.91	183.3	69.1
17423	3560	21.6	<None>	<Collection: 1 item>	5.91	184.8	70.7
4560	6443	24	<None>	<Collection: 1 item>	4.77	182.6	68.8
6064	6121	22.3	<None>	<Collection: 1 item>	4.77	182.9	69.6
6498	6448	24	<None>	<Collection: 1 item>	4.77	182.6	68.8
7414	6353	24.4	<None>	<Collection: 1 item>	4.77	182.6	68.6
7418	6128	22.6	<None>	<Collection: 1 item>	4.77	182.9	69.5
8682	6120	22.4	<None>	<Collection: 1 item>	4.77	182.9	69.6
12548	6119	22.6	<None>	<Collection: 1 item>	4.77	182.9	69.5
15561	6104	23.7	<None>	<Collection: 1 item>	4.77	182.7	68.9
17163	5871	22	<None>	<Collection: 1 item>	4.77	182.7	69.7
17186	6352	25.4	<None>	<Collection: 1 item>	4.77	182.6	68.2
17503	5855	21.9	<None>	<Collection: 1 item>	4.77	182.7	69.7
662	6575	21	<None>	<Collection: 1 item>	3.38	182.4	70
2247	6743	22	<None>	<Collection: 1 item>	3.38	182.5	69.6
4078	6665	23.6	<None>	<Collection: 1 item>	3.38	182.4	68.8
5551	6652	22.1	<None>	<Collection: 1 item>	3.38	182.4	69.5
7154	6784	23.3	<None>	<Collection: 1 item>	3.38	181.8	68.7
7155	6744	22	<None>	<Collection: 1 item>	3.38	182.5	69.6
11522	6769	21.7	<None>	<Collection: 1 item>	3.38	182.5	69.7
16560	6768	22.1	<None>	<Collection: 1 item>	3.38	182.5	69.5
16782	6654	23.4	<None>	<Collection: 1 item>	3.38	182.4	68.9
6579	3607	21.5	<None>	<Collection: 1 item>	3.35	184.8	70.8
9314	5926	26.5	<None>	<Collection: 1 item>	3.3	185.6	69
10422	6646	-5.8	<None>	<Collection: 1 item>	3.3	182.2	81.5
13076	5718	19.8	<None>	<Collection: 1 item>	3.3	185.6	71.9
14848	5370	21.5	<None>	<Collection: 1 item>	3.3	182.8	69.9
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15014	5463	22.8	<None>	<Collection: 1 item>	3.3	182.9	69.4
16685	5129	21.4	<None>	<Collection: 1 item>	3.3	182.9	70
10821	4959	26.7	<None>	<Collection: 1 item>	2.96	185.2	68.7
12554	4558	-3.5	<None>	<Collection: 1 item>	2.96	183.1	80.9
13866	4644	26.7	<None>	<Collection: 1 item>	2.96	185.2	68.7
652	4792	26.7	<None>	<Collection: 1 item>	2.92	185.2	68.7
91	5321	21	<None>	<Collection: 1 item>	2.74	182.8	70.2
1841	6678	-3.5	<None>	<Collection: 1 item>	2.74	182.2	80.5
6459	6205	27.4	<None>	<Collection: 1 item>	2.74	185.7	68.6
9825	5538	26.5	<None>	<Collection: 1 item>	2.74	186	69.1
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10538	6008	22	<None>	<Collection: 1 item>	2.74	183.1	69.9
14192	5305	21	<None>	<Collection: 1 item>	2.74	182.8	70.2
16483	7047	6.5	<None>	<Collection: 1 item>	2.74	182.1	76.1
17433	5711	26.5	<None>	<Collection: 1 item>	2.74	185.6	69
17449	5575	25.1	<None>	<Collection: 1 item>	2.74	185.1	69.4
17059	3304	23.3	<None>	<Collection: 1 item>	2.67	184.8	70
1859	6599	21.6	<None>	<Collection: 1 item>	2.58	182.8	69.9
14571	6600	21.6	<None>	<Collection: 1 item>	2.58	182.8	69.9
3644	5544	28.3	<None>	<Collection: 1 item>	2.46	185.5	68.2
6499	6458	23.9	<None>	<Collection: 1 item>	2.46	183.4	69.2
13278	5607	11.1	<None>	<Collection: 1 item>	2.46	182.8	74.4
4280	3601	21.6	<None>	<Collection: 1 item>	2.43	184.8	70.8
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13960	3592	21.5	<None>	<Collection: 1 item>	2.43	184.8	70.8
2847	5509	29.1	<None>	<Collection: 1 item>	2.39	186.1	68.1
6360	5976	26.5	<None>	<Collection: 1 item>	2.39	186.4	69.3
8781	5991	26.5	<None>	<Collection: 1 item>	2.39	186.4	69.3
9229	5945	26.5	<None>	<Collection: 1 item>	2.39	186.4	69.3
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9880	5678	26.1	<None>	<Collection: 1 item>	2.39	186.2	69.4
11704	5939	26.5	<None>	<Collection: 1 item>	2.39	186.4	69.3
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13517	5677	26.1	<None>	<Collection: 1 item>	2.39	186.2	69.4
16520	5862	27.4	<None>	<Collection: 1 item>	2.39	186.4	69
17162	5861	26.8	<None>	<Collection: 1 item>	2.39	186.4	69.2
92	5331	22.5	<None>	<Collection: 1 item>	2.38	182.9	69.5
436	4802	-5.6	<None>	<Collection: 1 item>	2.38	183	81.8
647	6198	24.5	<None>	<Collection: 1 item>	2.38	185.7	69.9
651	4782	26.6	<None>	<Collection: 1 item>	2.38	185.2	68.8
938	5642	19	<None>	<Collection: 1 item>	2.38	182.8	71
953	5451	21.6	<None>	<Collection: 1 item>	2.38	182.9	70
954	5461	22.9	<None>	<Collection: 1 item>	2.38	182.8	69.3
1057	4831	24	<None>	<Collection: 1 item>	2.38	182.9	68.9
1190	4819	21.5	<None>	<Collection: 1 item>	2.38	182.9	70
1366	5195	23.7	<None>	<Collection: 1 item>	2.38	182.9	69
1509	5329	21.5	<None>	<Collection: 1 item>	2.38	182.9	69.9
1540	4563	21.5	<None>	<Collection: 1 item>	2.38	182.9	70
1689	5585	-3.5	<None>	<Collection: 1 item>	2.38	182.8	80.8
2034	5100	25.7	<None>	<Collection: 1 item>	2.38	185.2	69.1
2068	5335	25.5	<None>	<Collection: 1 item>	2.38	185.2	69.2
2257	5127	21	<None>	<Collection: 1 item>	2.38	182.9	70.2
2323	5314	21.4	<None>	<Collection: 1 item>	2.38	182.9	70
2554	5645	22.2	<None>	<Collection: 1 item>	2.38	182.9	69.7
2613	4808	21.5	<None>	<Collection: 1 item>	2.38	183	70
3284	5128	21	<None>	<Collection: 1 item>	2.38	182.9	70.2
3326	5653	22.2	<None>	<Collection: 1 item>	2.38	182.9	69.7
3330	5613	25.2	<None>	<Collection: 1 item>	2.38	185.1	69.4
3416	5096	24.1	<None>	<Collection: 1 item>	2.38	182.9	68.9
3423	5006	21.5	<None>	<Collection: 1 item>	2.38	182.9	70
3479	5586	-3.5	<None>	<Collection: 1 item>	2.38	182.8	80.8
3488	5536	28.3	<None>	<Collection: 1 item>	2.38	185.5	68.1
3649	6197	27.8	<None>	<Collection: 1 item>	2.38	185.7	68.4
3957	4915	24.8	<None>	<Collection: 1 item>	2.38	182.9	68.5
4234	5706	20	<None>	<Collection: 1 item>	2.38	185.6	71.8

Pipeline Properties

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)	
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
17825	P519	104	6064: 6121	2781: J370	12		130	FALSE	0	-118.68	0.34	0	TRUE	101	118.68
35545	P517	16	2718: J366	1207: J368	12		130	FALSE	0	94.97	0.27	0	TRUE	13	94.97
27514	P511	132	2781: J370	1207: J368	12		130	FALSE	0	-79.7	0.23	0	TRUE	141	79.7
17824	P509	180	8134: J362	6064: 6121	12		130	FALSE	0	-63.5	0.18	0	TRUE	178	63.5
31357	P507	369	10326: 5652	8134: J362	12		130	FALSE	0	-114.32	0.32	0	TRUE	371	114.32
31293	P505	33	2780: J360	4552: 5452	12	AC	130	FALSE	0	-54.73	0.16	0	TRUE	34	54.73
33786	P503	61	6970: 5184	4233: J358	12	AC	130	FALSE	0	-45.62	0.13	0	TRUE	61	45.62
32820	P501	190	2717: J356	6970: 5184	12	AC	130	FALSE	0	-41.47	0.12	0	TRUE	191	41.47
20363	P499	142	15653: 4865	6143: J354	12	AC	130	FALSE	0	-31.75	0.09	0	TRUE	140	31.75
20907	P497	54	438: 4832	1624: J352	12	AC	130	FALSE	0	6.66	0.02	0	TRUE	58	6.66
35027	P495	77	679: J350	7091: 4587	12	AC	130	FALSE	0	5.53	0.02	0	TRUE	74	5.53
23608	P493	20	2993: J20	1205: J348	8		130	FALSE	0	-1.55	0.01	0	TRUE	9	1.55
29843	P333	1,095	1872: 6434	8835: 6437	12		130	FALSE	0	-142.82	0.41	0	TRUE	1,095	142.82
38756	P-826	6	38754: J-529	38733: J-523	8	AC	130	FALSE	0	506.11	3.23	0.005	FALSE	0	506.11
38755	P-825	48	8831: WELL No. 9	38754: J-529	16	AC	130	FALSE	0	506.11	0.81	0	FALSE	0	506.11
38753	P-824	5	38748: J-527	38750: J-528	8	PVC	130	FALSE	0	-1.34	0.01	0	FALSE	0	1.34
38752	P-823	13	38750: J-528	10326: 5652	8	AC	130	FALSE	0	-21.07	0.13	0	TRUE	13	21.07
38751	P-822	74	2554: 5645	38750: J-528	8	AC	130	FALSE	0	-19.72	0.13	0	TRUE	76	19.72
38749	P-821	4	38745: J-526	38748: J-527	8	PVC	130	FALSE	0	-1.34	0.01	0	FALSE	0	1.34
38747	P-820	15	38745: J-526	10326: 5652	12	AC	130	FALSE	0	-57.83	0.16	0	TRUE	15	57.83
38746	P-819	271	4552: 5452	38745: J-526	12	AC	130	FALSE	0	-59.18	0.17	0	TRUE	272	59.18
38744	P-818	21	38742: J-525	553: 2686	12	PVC	130	FALSE	0	-420.59	1.19	0.001	FALSE	0	420.59
38743	P-817	63	3458: 2715	38742: J-525	12	PVC	130	FALSE	0	-420.59	1.19	0.001	FALSE	0	420.59
38741	P-816	80	2803: 2716	6940: 190516	24	SS	130	FALSE	0	0.00	0	0	FALSE	0	0
38740	P-815	68	15746: 6453	38737: J-524	8	AC	130	FALSE	0	196.56	1.25	0.001	FALSE	0	196.56
38739	P-814	44	38737: J-524	6144: J364	12		130	FALSE	0	211.82	0.6	0	TRUE	44	211.82
38738	P-813	28	1207: J368	38737: J-524	12		130	FALSE	0	15.26	0.04	0	TRUE	23	15.26
38735	P-811	26	38733: J-523	14504: 6520	8	AC	130	FALSE	0	386.28	2.47	0.003	TRUE	26	386.28
38734	P-810	5	7981: 6464	38733: J-523	8	AC	130	FALSE	0	-119.83	0.76	0	TRUE	5	119.83
38730	P-808	27	8831: WELL No. 9	38727: J-521	8	PVC	130	FALSE	0	0.00	0	0	FALSE	0	0
38729	P-807	27	38727: J-521	8831: WELL No. 9	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	8	#VALUE!
38728	P-806	7	37977: Well 9 FCV	38727: J-521	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	2	#VALUE!
38071	P-423	55	38069: OC-9 FCV	9361: MWD OC-9	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	10	#VALUE!
38070	P-422	54	38068: OC-9 Reservoir	38069: OC-9 FCV	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	10	#VALUE!
37978	P-387	37	37976: Well 9 Reservoir	37977: Well 9 FCV	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	10	#VALUE!
37975	P-386	927	37973: J-297	8830: 6467	12	AC	130	FALSE	0	2,000.00	5.67	0.009	TRUE	927	2000
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
37972	P-384	65	37970: Well 5 FCV	8808: WELL No. 5	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	10	#VALUE!
37971	P-383	60	37969: Well 5 Reservoir	37970: Well 5 FCV	12	Steel	140	FALSE	0	(N/A)	(N/A)	(N/A)	TRUE	10	#VALUE!
37265	P-168	25	37252: J-181	2718: J366	20	Ductile Iron	130	FALSE	0	-317.6	0.32	0	FALSE	0	317.6
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
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
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
37259	P-164	3	37257: J-183	37250: J-180	16	Ductile Iron	130	FALSE	0	1,793.90	2.86	0.002	FALSE	0	1793.9
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
37256	P-162	8	2496: 6442	37255: J-182	16	Ductile Iron	130	FALSE	0	1,793.90	2.86	0.002	FALSE	0	1793.9
37253	P-161	19	37250: J-180	37252: J-181	30	Ductile Iron	130	FALSE	0	-317.6	0.14	0	FALSE	0	317.6
37251	P-160	4	37248: J-179	37250: J-180	30	Ductile Iron	130	FALSE	0	-2,111.50	0.96	0	FALSE	0	2111.5
37249	P-159	32	37244: J-178	37248: J-179	30	Ductile Iron	130	FALSE	0	-4,111.50	1.87	0	FALSE	0	4111.5
37247	P-158	5	37242: J-177	37244: J-178	24	Ductile Iron	130	FALSE	0	-2,587.79	1.84	0.001	FALSE	0	2587.79
37245	P-156	484	11872: 6527	37244: J-178	21	SS	130	FALSE	0	-1,523.71	1.41	0	TRUE	484	1523.71
37243	P-155	54	37240: J-176	37242: J-177	24	Ductile Iron	130	FALSE	0	-2,587.79	1.84	0.001	FALSE	0	2587.79
37241	P-154	425	37238: J-175	37240: J-176	24	Ductile Iron	130	FALSE	0	-2,587.79	1.84	0.001	FALSE	0	2587.79
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
33847	MWD OC-9 Outflow	56	6940: 190516	9361: MWD OC-9	24		130	FALSE	0	0	0	0	TRUE	56	0
26930	190823	2	16879: 7669	2041: 190836	6		130	FALSE	0	0	0	0	TRUE	2	0
26914	190821	189	14232: 7675	2041: 190836	8		130	FALSE	0	13.94	0.09	0	TRUE	189	13.94
29277	190819	128	9183: 7672	2041: 190836	8		130	FALSE	0	-7.21	0.05	0	TRUE	128	7.21
24629	190817	41	11849: 7693	2041: 190836	6		180	FALSE	0	-6.73	0.08	0	TRUE	41	6.73
21429	190759	9	2205: 7387	11214: 7385	6		130	FALSE	0	-20.41	0.23	0	TRUE	9	20.41
32138	190713	110	5924: 6051	9657: 6016	8		130	FALSE	0	112.55	0.72	0	TRUE	110	112.55
19955	190711	149	11946: 5336	2068: 5335	8		130	FALSE	0	99.07	0.63	0	TRUE	149	99.07
36508	190709	113	6711: 5337	11946: 5336	8		130	FALSE	0	-42.66	0.27	0	TRUE	113	42.66
19587	18285	35	5292: 6472	7628: 6524	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	35	1.82
29886	18284	32	1683: 6471	4018: 6523	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	32	1.82
22137	18282	208	4715: 6516	647: 6198	8	AC	130	FALSE	0	79.25	0.51	0	TRUE	210	79.25
24366	18281	517	4715: 6516	16479: 6470	8	AC	130	FALSE	0	253.57	1.62	0.001	TRUE	518	253.57
34717	18280	9	10061: 6462	7981: 6464	6	AC	130	FALSE	0	-1.82	0.02	0	TRUE	9	1.82
20966	18279	11	15319: 6449	15821: 6465	6	AC	130	FALSE	0	0	0	0	TRUE	11	0
22206	18278	258	9813: 6195	7628: 6524	8	AC	130	FALSE	0	-44.37	0.28	0	TRUE	258	44.37
22853	18277	227	9861: 6166	16479: 6470	8	AC	130	FALSE	0	76.92	0.49	0	TRUE	227	76.92
32592	18276	12	3649: 6197	6459: 6205	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	12	2.74
35442	18275	527	9421: 5919	3649: 6197	8	AC	130	FALSE	0	-69	0.44	0	TRUE	527	69
26775	18274	205	9813: 6195	4396: 6200	6	AC	130	FALSE	0	1.82	0.02	0	TRUE	205	1.82
27708	18273	176	647: 6198	9863: 6106	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	176	2.74
19069	18272	13	4189: 6066	2049: 6072	8	AC	130	FALSE	0	1.82	0.01	0	TRUE	13	1.82
21286	18271	12	5924: 6051	4188: 6056	6	AC	130	FALSE	0	1.82	0.02	0	TRUE	12	1.82
35859	18269	10	2600: 6041	7603: 6035	6	AC	130	FALSE	0	0.00	0	0	TRUE	10	0
19130	18268	32	7603: 6035	762: 6037	8	AC	130	FALSE	0	-40.73	0.26	0	TRUE	32	40.73
19050	18266	106	13273: 6034	11704: 5939	8	AC	130	FALSE	0	11.94	0.08	0	TRUE	106	11.94
24615	18263	7	4193: 6026	2053: 6032	6	AC	130	FALSE	0	0	0	0	TRUE	7	0
34969	18262	12	1022: 5990	9068: 5992	6	AC	130	FALSE	0	0	0	0	TRUE	12	0
18208	18261	9	6360: 5976	8781: 5991	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	9	2.39
28486	18260	234	6125: 5769	2373: 5947	8	AC	130	FALSE	0	1.35	0.01	0	TRUE	234	1.35
32784	18259	7	12127: 5944	9229: 5945	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	7	2.39
35028	18258	18	11704: 5939	13239: 5943	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	18	2.39
35684	18257	109	11704: 5939	16520: 5862	8	AC	130	FALSE	0	7.16	0.05	0	TRUE	109	7.16
33684	18256	101	9314: 5926	14903: 5927	6	AC	130	FALSE	0	1.35	0.02	0	TRUE	101	1.35
29234	18255	15	9314: 5926	14904: 5937	6	AC	130	FALSE	0	3.3	0.04	0	TRUE	15	3.3
21472	18254	14	13082: 5920	7765: 5933	6	AC	130	FALSE	0	2.38	0.03	0	TRUE	14	2.38
21534	18253	356	13082: 5920	9314: 5926	6	AC	130	FALSE	0	7.95	0.09	0	TRUE	356	7.95
31838	18252	251	5839: 5705	9421: 5919	8	AC	130	FALSE	0	-53.91	0.34	0	TRUE	251	53.91
34112	18251	15	17162: 5861	16520: 5862	6	AC	130	FALSE	0	-2.39	0.03	0	TRUE	15	2.39
29643	18249	9	6125: 5769	8799: 5770	6	AC	130	FALSE	0	1.35	0.02	0	TRUE	9	1.35
31901	18248	257	3330: 5613	8347: 5803	8	AC	130	FALSE	0	76.92	0.49	0	TRUE	257	76.92
32600	18247	259	16520: 5862	12905: 5714	8	AC	130	FALSE	0	2.39	0.02	0	TRUE	259	2.39
23922	18246	15	4234: 5706	13076: 5718	6	AC	130	FALSE	0	3.3	0.04	0	TRUE	15	3.3
26122	18245	386	4234: 5706	17433: 5711	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	386	2.74
36468	18244	12	13517: 5677	9880: 5678	6	AC	130	FALSE	0	2.39	0.03	0	TRUE	12	2.39
18447	18243	246	13517: 5677	9822: 5508	8	AC	130	FALSE	0	127.03	0.81	0	TRUE	246	127.03
29433	18241	13	5922: 5574	17449: 5575	6	AC	130	FALSE	0	2.74	0.03	0	TRUE	13	2.74
22271	18240	342	2850: 5539	6125: 5769	8	AC	130	FALSE	0	4.04	0.03	0	TRUE	342	4.04
26561	18239	16	9825: 5538	12965: 5549	6	AC	130	FALSE	0	1.86	0.02	0	TRUE	16	1.86
28763	18238	12	3488: 5536	3644: 5544	6	AC	130	FALSE	0	2.46	0.03	0	TRUE	12	2.46
29471	18237	321	3488: 5536	5839: 5705	6	AC	130	FALSE	0	-43.11	0.49	0	TRUE	321	43.11
20851	18236	64	3485: 5506	2850: 5539	8	AC	130	FALSE	0	118.21	0.75	0	TRUE	64	118.21
22999	18235	457	13986: 5507	7020: 5824	8	AC	130	FALSE	0	1.35	0.01	0	TRUE	457	1.35
33408	18234	10	3485: 5506	2848: 5519	6	AC	130	FALSE	0	1.35	0.02	0	TRUE	10	1.35
34360	18233	43	9822: 5508	2847: 5509	8	AC	130	FALSE	0	2.39	0.02	0	TRUE	43	2.39
25604	18232	42	13986: 5507	9822: 5508	8	AC	130	FALSE	0	-122.25	0.78	0	TRUE	42	122.25
19187	18230	158	2068: 5335	12908: 5434	8	AC	130	FALSE	0	86.49	0.55	0	TRUE	158	86.49
25678	18228	523	11946: 5336	9928: 5537	8	AC	130	FALSE	0	-144.12	0.92	0.001	TRUE	523	144.12
19978	18225	12	3822: 5292	9231: 5286	8	AC	130	FALSE	0	38.59	0.25	0	TRUE	12	38.59
30280	18224	12	5755: 5285	9231: 5286	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	12	2.38

Pressure	
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Minimum	59.9
Maximum	81.9
Velocity	
Average	0.34896
Minimum	0
Maximum	5.67
Flow	
Average	#VALUE!
Minimum	#VALUE!
Maximum	#VALUE!

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5705	5328	21.4	<None>	<Collection: 1 item>	2.38	182.9	70		21655	18211	13	12543: 4783	652: 4792	6	AC	130	FALSE	0	2.92	0.03	0	TRUE	13	2.92					
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5839	5705	17.7	<None>	<Collection: 1 item>	2.38	185.6	72.8		36214	18209	259	13866: 4644	14025: 4788	8	AC	130	FALSE	0	6.87	0.04	0	TRUE	259	6.87					
5922	5574	25.2	<None>	<Collection: 1 item>	2.38	185.1	69.3		20204	18207	12	5149: 4574	9351: 4576	6	AC	130	FALSE	0	1.77	0.02	0	TRUE	12	1.77					
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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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4715	6516	25	<None>	<Collection: 0 items>	0	185.7	69.7		30589	5781	200	12908: 5434	5922: 5574	8	AC	130	FALSE	0	84.42	0.54	0	TRUE	200	84.42					
4766	2679	24.9	<None>	<Collection: 0 items>	0	183.5	68.7		18989	5780	100	9825: 5538	2850: 5539	6	AC	130	FALSE	0	-112.83	1.28	0.001	TRUE	100	112.83					
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12557	4528	-3.3	<None>	<Collection: 0 items>	0	183.1	80.8		19509	5000	70	10567: 6953	15037: 7020	8	AC	130	FALSE	0	203.16	1.3	0.001	TRUE	70	203.16					
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13273	6034	26.7	<None>	<Collection: 0 items>	0	186.4	69.2		25241	4998	38	12012: 6990	10502: 6991	8	AC	130	FALSE	0	-10.14	0.06	0	TRUE	38	10.14					
13407	6010	26.6	<None>	<Collection: 0 items>	0	186.4	69.3		22111	4997	15	953: 5451	4552: 5452	6	AC	130	FALSE	0	-2.38	0.03	0	TRUE	11	2.38					
13986	5507	27.4	<None>	<Collection: 0 items>	0	186.1	68.8		19037	4996	276	4233: J358	2780: J360	12	AC	130	FALSE	0	-49.45	0.14	0	TRUE	276	49.45					
14334	6122	22.2	<None>	<Collection: 0 items>	0	183	69.7		34942	4995	300	13836: 5650	10326: 5652	6	AC	130	FALSE	0	-33.04	0.37	0	TRUE	295	33.04					
14503	6510	21	<None>	<Collection: 0 items>	0	182.3	69.9		31816	4994	59	8105: 5614	13836: 5650	6	AC	130	FALSE	0	-13.95	0.16	0	TRUE	59	13.95					
14530	5359	19.6	<None>	<Collection: 0 items>	0	182.8	70.7		28680	4993	404	13515: 5647	13836: 5650	6	AC	130	FALSE	0	-16.7	0.19	0	TRUE	404	16.7					
14847	5360	19.2	<None>	<Collection: 0 items>	0	182.8	70.9		25587	4992	30	7016: 5864	6061: 5880	8	AC	130	FALSE	0	97.08	0.62	0	TRUE	30	97.08					
15319	6449	25.2	<None>	<Collection: 0 items>	0	184.9	69.2		22477	4991	739	16560: 6768	7155: 6744	6	AC	130	FALSE	0	-19.7	0.22	0	TRUE	523	19.7					
15583	4545	24	<None>	<Collection: 0 items>	0	182.9	68.9		19401	4990	336	4244: 6576	11567: 6808	8	AC	130	FALSE	0	182.52	1.17	0.001	TRUE	336	182.52					
15821	6465	25.2	<None>	<Collection: 0 items>	0	184.9	69.2		23194	4989	162	11068: 6655	7154: 6784	8	AC	130	FALSE	0	0	0	0	TRUE	162	0					
15963	6476	37.5	<None>	<Collection: 0 items>	0	186.6	64.6		25240	4988	299	11006: 6552	16560: 6768	6	AC	130	FALSE	0	-12.95	0.15	0	TRUE	299	12.95					
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					
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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					
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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					
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									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					

									36177	4895	25	12409: 3366	7636: 3368	8	PVC	130	FALSE	0	1.77	0.01	0	TRUE	25	1.77					
									30542	4894	138	12409: 3366	3473: 3505	8	PVC	130	FALSE	0	-8.56	0.05	0	TRUE	138	8.56					
									34585	4893	18	133: 3527	7150: 3506	8	PVC	130	FALSE	0	1.87	0.01	0	TRUE	18	1.87					
									19186	4892	38	133: 3527	13570: 3528	8	PVC	130	FALSE	0	-20.43	0.13	0	TRUE	38	20.43					
									34957	4891	161	7634: 3348	2789: 3346	8	AC	130	FALSE	0	-20.06	0.13	0	TRUE	161	20.06					
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									22469	4889	466	7467: 3618	7609: 3609	8	AC	130	FALSE	0	-4.44	0.03	0	TRUE	466	4.44					
									20987	4888	9	7609: 3609	4280: 3601	8	AC	130	FALSE	0	-12.12	0.08	0	TRUE	9	12.12					
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									24062	4879	289	12713: 3320	9410: 3132	6	AC	130	FALSE	0	-8.21	0.09	0	TRUE	289	8.21					
									20993	4878	312	7512: 3139	12330: 3279	8	AC	130	FALSE	0	13.57	0.09	0	TRUE	312	13.57					
									17908	4877	313	7085: 3046	12979: 3276	8	AC	130	FALSE	0	24.24	0.15	0	TRUE	313	24.24					
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									19542	4874	157	9410: 3132	16827: 2997	6	AC	130	FALSE	0	-16.43	0.19	0	TRUE	157	16.43					
									34212	4873	307	16041: 2781	7085: 3046	8	AC	130	FALSE	0	28.1	0.18	0	TRUE	307	28.1					
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									21010	4870	20	16827: 2997	4157: 2987	8	AC	130	FALSE	0	-35.26	0.23	0	TRUE	20	35.26					
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									20992	4868	510	8815: 2874	16045: 2741	10	AC	130	FALSE	0	-67.72	0.28	0	TRUE	510	67.72					
									17907	4867	157	5875: 2839	15623: 2840	6	AC	130	FALSE	0	28.23	0.32	0	TRUE	157	28.23					
									22831	4866	188	11377: 2838	5875: 2839	6	AC	130	FALSE	0	35.31	0.4	0	TRUE	188	35.31					
									30648	4865	171	10523: 2709	14500: 2837	6	AC	130	FALSE	0	79.33	0.9	0.001	TRUE	171	79.33					
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									34211	4863	509	4766: 2679	553: 2686	12	AC	130	FALSE	0	402.62	1.14	0	TRUE	509	402.62					
									35354	3946	14	15550: 6975	7053: 6976	8	AC	130	FALSE	0	-169.31	1.08	0.001	TRUE	14	169.31					

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					
4097	6673	6.6	<None>	<Collection: 1 item>	4.09	180.5	75.4		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	180.6	77.6		36035	13196	42	3645: 6889	9401: 6919	8	AC	130	FALSE	0	145.17	0.93	0.001	TRUE	42	145.17					
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4395	6270	1.5	<None>	<Collection: 1 item>	4.09	180.5	77.6		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	180.5	77.6		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	180.5	77.6		28996	13179	327	11174: 7806	7158: 7924	6	AC	130	FALSE	0	-9.84	0.11	0	TRUE	327	9.84					
5664	7036	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		35305	13178	577	16876: 7699	14838: 7950	12	AC	130	FALSE	0	3.17	0.01	0	TRUE	577	3.17					
5709	7040	6.9	<None>	<Collection: 1 item>	4.09	180.6	75.3		27558	13177	13	6362: 7854	11847: 7855	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	13	1.64					
5921	6091	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		30904	13168	12	11174: 7806	7891: 7814	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
6060	6454	3.4	<None>	<Collection: 1 item>	4.09	180.5	76.8		24463	13167	187	5643: 7773	6362: 7854	6	AC	130	FALSE	0	13.25	0.15	0	TRUE	187	13.25					
6207	6691	6.8	<None>	<Collection: 1 item>	4.09	180.6	75.3		26700	13166	254	8807: 7772	5643: 7773	8	AC	130	FALSE	0	-27.67	0.18	0	TRUE	254	27.67					
6214	6671	1.7	<None>	<Collection: 1 item>	4.09	180.5	77.5		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	180.6	75.5		20274	13159	12	13094: 7745	16309: 7747	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
6292	7005	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		32380	13158	17	16316: 7737	13883: 7743	6	AC	130	FALSE	0	-1.72	0.02	0	TRUE	17	1.72					
6295	7035	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		21396	13157	85	6423: 7698	13094: 7745	8	AC	130	FALSE	0	45.85	0.29	0	TRUE	85	45.85					
6566	6710	6.8	<None>	<Collection: 1 item>	4.09	180.6	75.3		33980	13155	600	15959: 7684	3209: 7951	12	PVC	130	FALSE	0	253.14	0.72	0	TRUE	600	253.14					
6714	6460	5.4	<None>	<Collection: 1 item>	4.09	180.7	76		28421	13152	57	6075: 7685	15959: 7684	8	AC	130	FALSE	0	6.51	0.04	0	TRUE	57	6.51					
6975	6857	6.7	<None>	<Collection: 1 item>	4.09	180.6	75.4		19760	13151	13	5879: 7683	6075: 7685	6	AC	130	FALSE	0	-1.64	0.02	0	TRUE	13	1.64					
7781	6971	1.4	<None>	<Collection: 1 item>	4.09	180.5	77.7		30038	13150	805	6728: 7400	16876: 7699	12	AC	130	FALSE	0	60.48	0.17	0	TRUE	805	60.48					
8343	5843	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		18306	13147	12	6668: 7657	2963: 7658	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
8344	5853	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		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	180.7	77.7		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	180.6	79.8		35852	13123	339	290: 7486	13589: 7555	8	AC	130	FALSE	0	-4.81	0.03	0	TRUE	339	4.81					
8904	6871	6.7	<None>	<Collection: 1 item>	4.09	180.6	75.4		19122	13122	12	73: 7473	3617: 7474	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	12	1.64					
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9799	6982	1.5	<None>	<Collection: 1 item>	4.09	180.4	77.6		30201	13116	56	5111: 7458	10618: 7457	6	AC	130	FALSE	0	-15.83	0.18	0	TRUE	56	15.83					
9872	5868	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		21529	13115	314	10618: 7457	8155: 7292	12	AC	130	FALSE	0	-265.74	0.75	0	TRUE	314	265.74					
10008	6736	6.7	<None>	<Collection: 1 item>	4.09	180.6	75.4		35020	13112	14	17049: 7399	296: 7406	6	AC	130	FALSE	0	1.64	0.02	0	TRUE	14	1.64					
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11276	6924	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		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	180.4	77.6		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	180.6	75.4		32127	13091	114	11309: 6923	3261: 7006	8	AC	130	FALSE	0	11.53	0.07	0	TRUE	114	11.53					
13300	6251	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		23419	13090	6	3018: 6927	15552: 6925	8	AC	130	FALSE	0	1.73	0.01	0	TRUE	6	1.73					
14059	5867	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		33466	13089	8	3017: 6917	11276: 6924	6	AC	130	FALSE	0	-4.09	0.05	0	TRUE	8	4.09					
14661	6097	1.5	<None>	<Collection: 1 item>	4.09	180.7	77.7		30679	13087	14	9393: 6888	3645: 6889	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	14	1.73					
14972	7029	6.5	<None>	<Collection: 1 item>	4.09	180.6	75.5		35454	13083	94	9147: 6263	464: 6379	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	94	1.73					
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15038	7030	6.4	<None>	<Collection: 1 item>	4.09	180.6	75.5		29007	13081	42	14573: 6620	10428: 6626	12	PVC	130	FALSE	0	-1.73	0	0	TRUE	42	1.73					
15175	7043	6.4	<None>	<Collection: 1 item>	4.09	180.6	75.5		20368	13080	23	14114: 6780	8432: 6781	6	AC	130	FALSE	0	1.73	0.02	0	TRUE	23	1.73					
15321	6469	1.5	<None>	<Collection: 1 item>	4.09	180.5	77.6		28995	13079	212	14114: 6780	3018: 6927	12	AC	130	FALSE	0	289.93	0.82	0	TRUE	212	289.93					
15820	6455	3.9	<None>	<Collection: 1 item>	4.09	180.5	76.6		35304	13078	44	7810: 6752	14114: 6780	12	AC	130	FALSE	0	293.39	0.83	0	TRUE	44	293.39					
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16468	7038	6.9	<None>	<Collection: 1 item>	4.09	180.6	75.3		36235	13070	315	3023: 6707	10005: 6706	8	AC	130	FALSE	0	23.56	0.15	0	TRUE	315	23.56					
16487	7027	6.9	<None>	<Collection: 1 item>	4.09	180.6	75.3		24638	13069	7	10650: 6698	3023: 6707	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	7	1.73					
16524	5822	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		30903	13068	13	11745: 6682	7673: 6684	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	13	1.73					
16706	6807	1.5	<None>	<Collection: 1 item>	4.09	180.4	77.6		28343	13064	271	8826: 6487	7673: 6684	8	AC	130	FALSE	0	131.98	0.84	0	TRUE	271	131.98					
17166	5821	1.5	<None>	<Collection: 1 item>	4.09	180.6	77.6		31523	13062	53	8826: 6487	9554: 6488	8	AC	130	FALSE	0	-239.14	1.53	0.001	TRUE	53	239.14					
17371	6674	6.7	<None>	<Collection: 1 item>	4.09	180.5	75.4		22792	13061	10	1862: 6484	4714: 6506	8	AC	130	FALSE	0	1.73	0.01	0	TRUE	10	1.73					
17421	3540	11.5	<None>	<Collection: 1 item>	3.35	182.2	74		33167	13060	10	9555: 6498	3478: 6478	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	10	1.73					
3194	3765	11.1	<None>	<Collection: 1 item>	2.96	182.5	74.3		34896	13049	58	4153: 6378	9554: 6488	12	AC	130	FALSE	0	541.17	1.54	0.001	TRUE	58	541.17					
16653	4471	7.9	<None>	<Collection: 1 item>	2.96	181.9	75.4		18305	13047	78	4394: 6260	1936: 6375	12	AC	130	FALSE	0	345.04	0.98	0	TRUE	78	345.04					
4739	7167	6.5	<None>	<Collection: 1 item>	2.74	180.3	75.4		22131	13044	22	4394: 6260	9925: 6266	6	AC	130	FALSE	0	1.73	0.02	0	TRUE	22	1.73					
6033	4931	5.6	<None>	<Collection: 1 item>	2.74	181	76		24610	13025	45	14666: 6007	8785: 5971	6	AC	130	FALSE	0	-1.73	0.02	0	TRUE	45	1.73					
7101	7342	1.5	<None>	<Collection: 1 item>	2.74	180.3	77.5		19121	13022	81	8785: 5971	12351: 5974	8	AC	130	FALSE	0	99.63	0.64	0	TRUE	81	99.63					
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16884	7639	1.5	<None>	<Collection: 1 item>	1.64	180.3	77.5		24204	2845	39	11593: 4814	12035: 4810	8	AC	130	FALSE	0	-22.8	0.15	0	TRUE	39	22.8					
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17049	7399	4.1	<None>	<Collection: 1 item>	1.64	180.4	76.4		22234	2831	41	9377: 4469	16839: 4424	12	AC	130	FALSE	0	-638.56	1.81	0.001	TRUE	41	638.56					
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									36289	2235	421	2609: 7721	9176: 7551	6	AC	130	FALSE	0	-11.88	0.13	0	TRUE	421	11.88					
									22461	2234	252	2427: 7545	3121: 7631	8	AC	130	FALSE	0	22.54	0.14	0	TRUE	252	22.54					
									19383	2233	92	6116: 7536	10421: 7537	8	AC	130	FALSE	0	7.16	0.05	0	TRUE	92	7.16					
									35272	2232	258	298: 7426	6116: 7536	8	AC	130	FALSE	0	10.44	0.07	0	TRUE	258	10.44					
									32139	2231	115	3612: 7484	14737: 7485	6	AC	130	FALSE	0	-18.59	0.21	0	TRUE	115	18.59					
									29016	2230	297	66: 7483	14739: 7455	6	AC	130	FALSE	0	3.28	0.04	0	TRUE	297	3.28					
									34901	2229	467	13184: 7184	10619: 7467	6	AC	130	FALSE	0	6.43	0.07	0	TRUE	467	6.43					
									26019	2228	252	16467: 7341	292: 7446	8	AC	130	FALSE	0	34.03	0.22	0	TRUE	252	34.03					
									36288	2225	218	3789: 7173	16467: 7341	8	AC	130	FALSE	0	42.80	0.27	0	TRUE	218	42.8					
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									28597	2219	416	6609: 7162	620: 7163	8	AC	130	FALSE	0	21.9	0.14	0	TRUE	416	21.9					
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										35948	2120	260	13955: 4258	7796: 4100	6	AC	130	FALSE	0	-47.77	0.54	0	TRUE	260	47.77											
										22520	2118	152	3229: 4119	287: 4122	6	AC	130	FALSE	0	-5.03	0.06	0	TRUE	152	5.03											
										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	4.61	0.05	0	TRUE	40	4.61											
										34523	2114	43	2969: 3970	7185: 4009	8	AC	130	FALSE	0	49.08	0.31	0	TRUE	43	49.08											
										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	-18.33	0.21	0	TRUE	453	18.33											
										22822	2111	38	2355: 3962	16351: 3963	6	AC	130	FALSE	0	47.24	0.54	0	TRUE	38	47.24											
										36172	2110	21	3912: 3960	16741: 3961	6	AC	130	FALSE	0	54.17	0.61	0	TRUE	21	54.17											
										22519	2108	60	13962: 3542	17421: 3540	8	AC	130	FALSE	0	105.4	0.67	0	TRUE	60	105.4											
										19444	2107	59	16841: 3486	127: 3547	6	AC	130	FALSE	0	41.22	0.47	0	TRUE	59	41.22											
										34522	2104	578	7474: 3834	17483: 3840	6	AC	130	FALSE	0	-10.32	0.12	0	TRUE	578	10.32											
										30123	2103	264	6999: 3833	1612: 3687	8	AC	130	FALSE	0	-56.4	0.36	0	TRUE	264	56.4											
										21058	2099	59	15931: 3481	7147: 3546	6	AC	130	FALSE	0	13.51	0.15	0	TRUE	59	13.51											