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The individual Technical Memorandum contained in Volume 2 were developed and issued over the course of the project. Some of the figures and values contained in Volume 2 may differ slightly from the values presented in Volume 1 as a result of refinements made while finalizing the recommended 2007 Integrated Water Master Plan

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TECHNICAL MEMORANDUM NO. 1 – 1

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DEMAND ANALYSIS
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FACILITY INVENTORY
TECHNICAL MEMORANDUM NO. 1 – 1

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1.0 FACILITY INVENTORY ORGANIZATION

The purpose of TM1 is to serve as a reference for the development of the Base Year water, wastewater, and reclaimed water system models for the 2006 City of Goodyear (City) Infrastructure Master Plan. For each of the systems, TM1 will provide:

- Facility Inventory listing all key facilities such as pumping stations, reservoirs, treatment plants, etc.
- Facility Exhibit mapping the location of each facility within the North, Central and Southern Planning Areas.
- Facility Schematic showing the manner in which each facility connects to and interfaces with the distribution system or collection system models and a description of the main performance parameters, such as flow, pressure and volume so that each facility can be properly modeled.

In addition to serving as reference for construction and operation of the hydraulic models, the Technical Memorandum will also provide a valuable source of information for operations and engineering personnel.

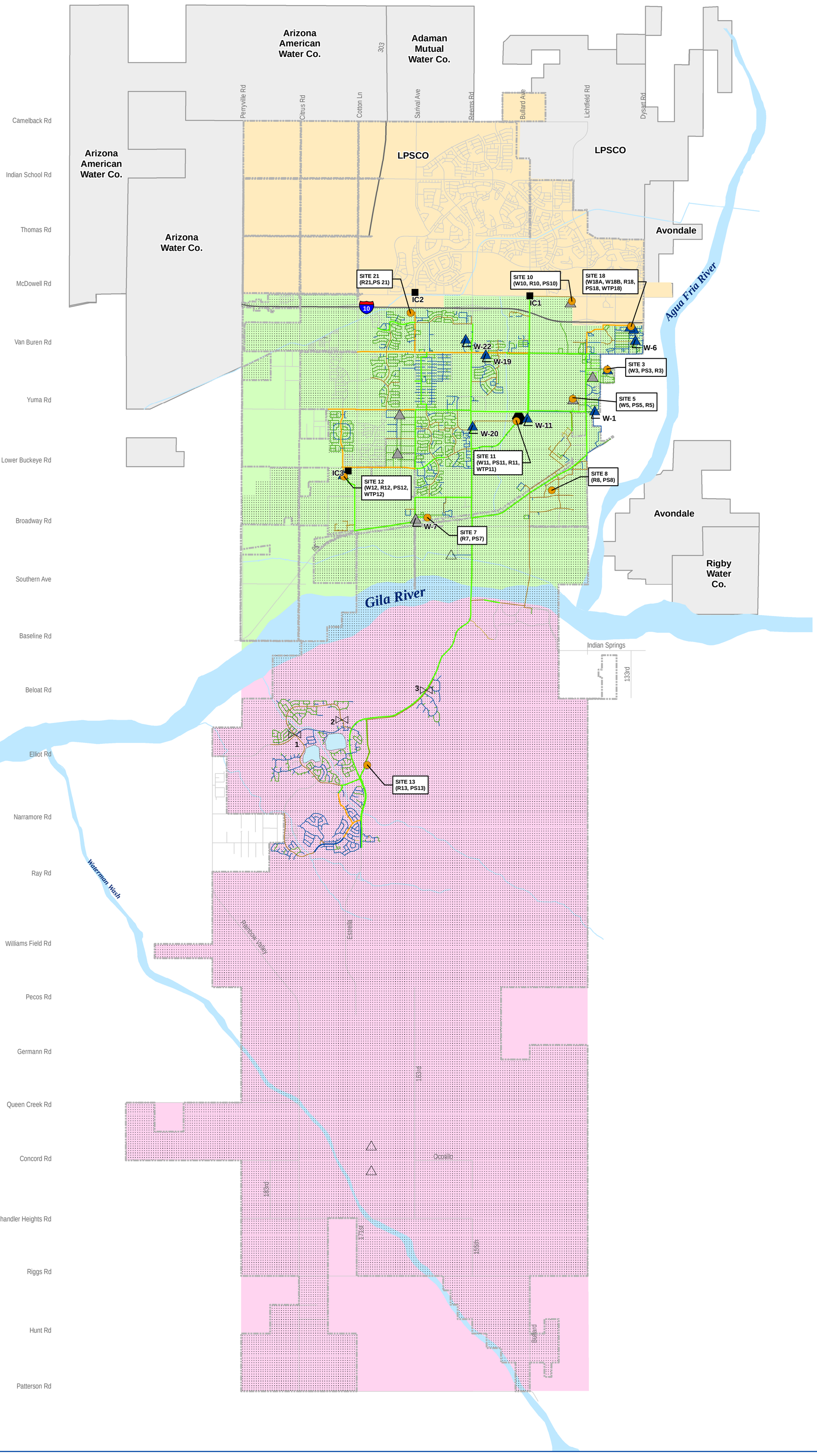
2.0 WATER SYSTEM FACILITIES

Existing water distribution system facilities are inventoried in Table 2-1 and their locations are shown on Figure 1. The Inventory includes the following major components:

- Inter – Agency Connections
- Water Treatment Facilities
- Wells
- Pressure Regulating Stations
- Pumping Stations
- Storage Reservoirs

Key information for each water distribution facility is summarized onto Facility Schematic sheets which provide:

- Facility Descriptions
- Equipment Capacity, Parameters and Settings
- Facility Schematic



LEGEND

- Well - Abandoned
- Well - Inactive
- Well - Operational
- Reservoir/Booster Facility
- Water Treatment Plant
- Inter-Agency Connection
- Pressure Reducing Valve (PRV)

Water Mains

- 4" and Smaller
- 6"
- 8"
- 10"
- 12"
- 16"
- 18"
- 20"
- 24"
- 36"

Study/Planning Area

- North
- Central
- South
- Goodyear Water Service Area Boundary
- Other service providers
- City Limits

N W E S

1 inch equals 5,000 feet

Data source:
City of Goodyear GIS

Figure 1
TM1 - Facility Inventory
Water Distribution System

Integrated Water Master Plan
City of Goodyear, AZ
2006

Goodyear ARIZONA

BLACK & VEATCH
building a world of difference™
ENERGY WATER INFORMATION GOVERNMENT

\\Projects\GoodYear\11GIS\01MapDocuments\ExistingWater.mxd Christina Hassell 11 Oct 2006

City of Goodyear

Water Distribution System Facility Inventory

WELLS								
ID #	FACILITY LOCATION	POINT OF CONNECTION	STATUS	WATER QUALITY		INSTALLED CAPACITY		OPERATING CAPACITY (MGD)
				CONSTRAINTS	TREATMENT	GPM	MGD	
W1	Central Zone	Site 11	Operational	Nitrate	Blended	500	0.7	0.7
W2	Central Zone	Distribution System	Inactive	TCE/Perchlorate	None	315	0.5	-
W3	Site 3	Site 3	Operational	-	None	500	0.7	0.8
W4	Central Zone	Distribution System	Abandoned	-	None	-	-	-
W5	Site 5	Site 5	Abandoned	TCE/Perchlorate	None	-	-	-
W6	Central Zone	Site 18	Operational	Nitrate	Blended	500	0.7	0.7
W7	Central Zone	Site 7	Inactive	Nitrate	None	30	0.0	-
W10	Site 10	Site 10	Inactive	TCE	None	400	0.6	-
W11	Bullard Ave/Site 11	Site 11	Operational	-	Blended	800	1.2	1.2
W12B	Site 12/Site 13	Site 12	Operational	High Temp/TDS/Flour/Ars	RO Treatment	800	1.2	1.2
W16	Central Zone	Site 17	Inactive	-	None	30	0.0	-
W17	Central Zone	Site 17	Inactive	-	None	70	0.1	-
W18A	Site 18	Site 18	Operational	Nitrate	Blended	1,000	1.4	1.3
W18B	Site 18	Site 18	Operational	Arsenic	Arsenic Treatment	500	0.7	0.7
W19	Central Zone	Site 11	Operational	Nitrate	RO Treatment	1,200	1.7	1.7
W20	Central Zone	Site 11	Operational	Nitrate	Blended	2,200	3.2	1.7
W22	Central Zone	Site 11	Operational	Nitrate	RO Treatment	1,800	2.6	2.6
						Totals =	15.3	12.7

BOOSTER PUMPING STATIONS			
ID #	FACILITY LOCATION	INSTALLLED CAPACITY (MGD)	FIRM CAPACITY
PS3	Site 3	1.4	0.7
PS5	Site 5	1.4	0.7
PS7	Site 7	2.2	1.4
PS8	Site 8	1.4	0.7
PS10	Site 10	1.4	0.7
PS11	Bullard Ave/Site 11	8.4	6.2
PS12	Site 12	3.6	1.4
PS13	Site 13	8.4	6.6
PS18	Site 18	2.9	1.4
PS21	Site 21	9.6	7.5
	Totals =	40.7	27.3

RESERVOIRS				
ID #	FACILITY LOCATION	BASE ELEVATION (FT)	DIAMETER (FT)	STORAGE VOLUME (MG)
R3	Site 3	976	45	0.18
R5	Site 5	984	36	0.18
R7	Site 7	910	76	0.75
R8	Site 8	958	74	0.75
R10	Site 10	992	76	0.75
R11	Bullard Ave/Site 11	960	158	2.00
R12	Site 12	929	158	2.00
R13	Site 13	1,026	130	1.50
R18	Site 18	986	120	1.00
R21	Site 21	997	176	2.00
			Total =	11.1

PRV FACILITIES						
ID #	FACILITY LOCATION	UPSTREAM GRADE	DOWNSTREAM SETTING	DIAMETER (IN)	FLOW CAPACITY (MGD)	TYPE
PRV1	South Zone	1240	1175	12	10.1	globe valve
PRV2	South Zone	1175	1070	8	4.5	globe valve
PRV3	South Zone	1175	1070	8	4.5	globe valve

WATER TREATMENT PLANTS					
ID #	FACILITY LOCATION	TYPE	FIRM CAPACITY		
			RAW WATER FEED (GPM)	% RECOVERY	FINISHED WATER PRODUCTION
WTP11	Bullard Ave/Site 11	7 RO skids @ 350 gpm each	2,100	85	1,785
WTP12	Site 12	2 RO skids @ 350 gpm each	350	80	280
WTP18	Site 18	Arsenic; absorbtive iron media	450	100	450

INTERCONNECTIONS				
ID #	POINT OF CONNECTION / ENTRY	CAPACITY (MGD)	METER SIZE (IN)	CONTROL VALVE SIZE (IN)
IC1	Bullard & McDowell / Site 10	0.3 to 1.3	none	none
IC2	Sarival & McDowell / Site 21	0.6 to 1.7	10	8

City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS10	**Site 10** Reservoir & Pumping Station 14149 W. McDowell	WPA 2

LOCATION MAP

DESCRIPTION

Site 10 is a reservoir and pumping station. It operates as a dump and repump facility with the distribution system as its source of water. Water from Site 10 provides fire protection for next door company. Well 10 is Inactive. Well 10 has chlorination. No Standby power.

PUMP INVENTORY

PUMP	TYPE	HEAD	FLOW		HP	SUCTION SCADA TAGS	
		FT	*GPM*	*MGD*		*FLOW*	*PSI*
1	Constant Speed	115	500	0.7	25		
2	Constant Speed	115	500	0.7	25	*PT EL =*	
3	Spare Can						
						DISCHARGE SCADA TAGS	
						FLOW	*PSI*
						PT EL =	
	INSTALLED CAPACITY		1000	1.4			
	FIRM CAPACITY		500	0.7			

WELL INVENTORY

ID #	PUMP TYPE	STATUS	HEAD	CAPACITY		HP	CONSTRAINTS	SCADA TAGS	
			FT	*GPM*	*MGD*			*FLOW*	*PSI*
W10	Vertical Turbine	Inactive		400	0.6		TCE/used for fire protection		
								PT EL =	

WELL DEPTH *ft*

STATIC DEPTH TO WATER *ft (1970)*

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME	DIAMETER	LENGTH	CENTERLINE
			GAL	FT	FT	EL
Cylindrical	Steel		10,000			

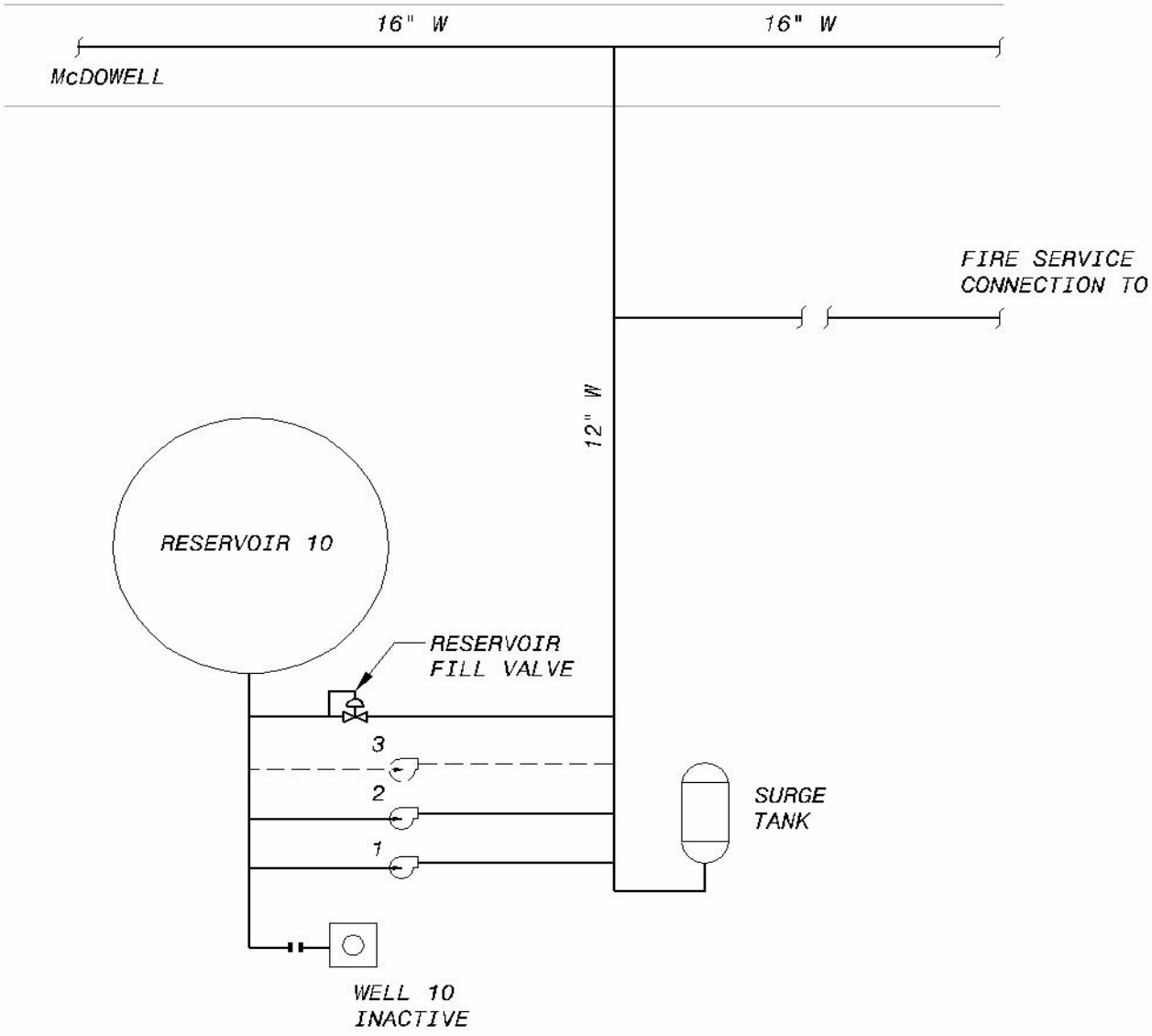
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY	DIAMETER	FLOOR	OVERFLOW
			MG	FT	Feet EL	Feet EL
Cylindrical	Steel		0.75	76	991.5	

LEVEL INST	
SCADA TAG	

SITE 10 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS11	**Site 11** Reservoir & Pumping Station 1600 S. Bullard Avenue	WPA 2

DESCRIPTION

Site 11 is a reservoir and pumping station. The site is fed by Wells 1, 11, 19, 20, and 22. W19 and W22 are treated with Reverse Osmosis treatment and then are blended with W1, W11, and W20. All Wells have Chlorination. No Standby power.

LOCATION MAP

PUMP INVENTORY

PUMP	TYPE	HEAD	FLOW		HP	SUCTION SCADA TAGS	
		FT	*GPM*	*MGD*		*FLOW*	*PSI*
1	Constant Speed	180	500	0.7	30		
2	Constant Speed	180	500	0.7	30	*PT EL =*	
3	Constant Speed	180	500	0.7	30		
4	Constant Speed	180	1500	2.2	100	**DISCHARGE SCADA TAGS**	
5	Constant Speed	180	1150	1.7	100	*FLOW*	*PSI*
6	Constant Speed	180	1650	2.4	100		
						PT EL =	
	INSTALLED CAPACITY		4150	8.4			
	FIRM CAPACITY		2650	6.2			

WELL INVENTORY

ID #	PUMP TYPE	STATUS	HEAD	CAPACITY		HP	CONSTRAINTS	SCADA TAGS	
			FT	*GPM*	*MGD*			*FLOW*	*PSI*
W1	Vertical Turbine	Operational		500	0.7		Nitrate - Blend w/11		
W11	Vertical Turbine	Operational		800	1.2		Potable		
W19	Vertical Turbine	Operational		1200	1.7		Nitrate - RO Treatment		
W20	Vertical Turbine	Operational		2200*	3.2		Nitrate - Blend w/11		
W22	Vertical Turbine	Operational		1800**	2.6		Nitrate - RO Treatment		
								PT EL =	

WELL DEPTH *ft*
STATIC DEPTH TO WATER *ft (1970)*

*Operating Range 1200 to 2200 gpm
**Operating Range 660 to 1800 gpm

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME	DIAMETER	LENGTH	CENTERLINE
			GAL	FT	FT	EL
Cylindrical	Steel		10,000	8	24	

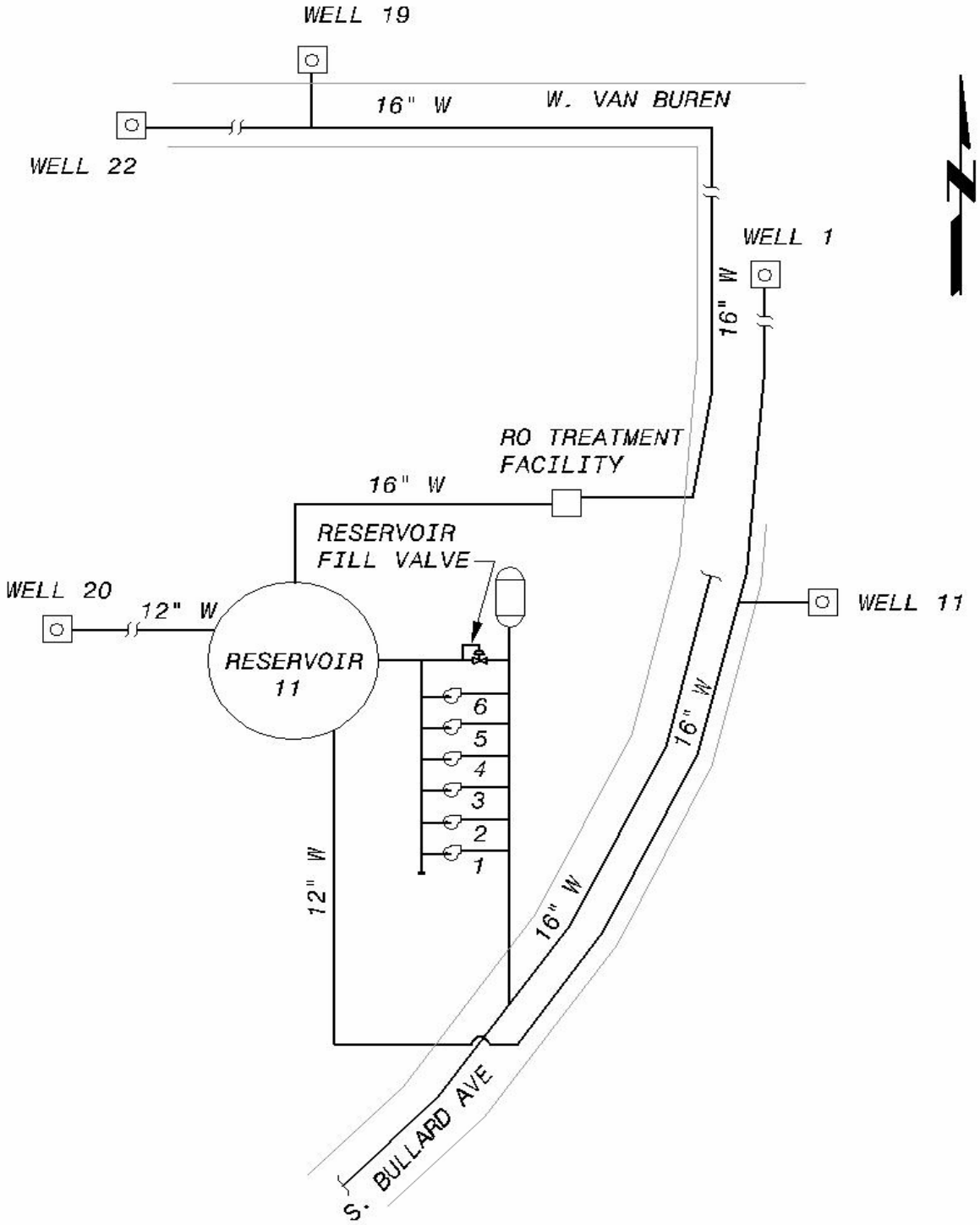
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY	DIAMETER	FLOOR	OVERFLOW
			MG	FT	Feet EL	Feet EL
Cylindrical	Steel		2.00	158	960	975.5

LEVEL INST	
SCADA TAG	

SITE 11 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS12	**Site 12** Reservoir and Pumping Station 3200 S. 173rd Ave	WPA 2

LOCATION MAP

DESCRIPTION

Site 12 is a reservoir and pumping station. It operates as a dump and repump facility with the distribution system and W12B as its source of water. Water from Site 12 is supplied to Site 13 due to the high temperature. Well 12B has chlorination. No Standby power.

PUMP INVENTORY

PUMP	TYPE	HEAD	FLOW		HP	SUCTION SCADA TAGS	
		FT	*GPM*	*MGD*		*FLOW*	*PSI*
1	Constant Speed	160	500	0.7	30		
2	Constant Speed	160	500	0.7	30	*PT EL =*	
FP 3	Spare Can						
FP 4	Spare Can					DISCHARGE SCADA TAGS	
5	Fire Pump	160	1500	2.2	100	*FLOW*	*PSI*
FP 6	Spare Can						
						PT EL =	
	INSTALLED CAPACITY		2500	3.6			
	FIRM CAPACITY		1000	1.4			

WELL INVENTORY

ID #	PUMP TYPE	STATUS	HEAD	CAPACITY		HP	CONSTRAINTS	SCADA TAGS	
			FT	*GPM*	*MGD*			*FLOW*	*PSI*
W12B	Vertical Turbine	Operational		800	1.2		High Temp/ TDS/ Flour/		
							Ars - RO Treatment	*PT EL =*	
	WELL DEPTH		*ft*						
	STATIC DEPTH TO WATER		*ft (1970)*						

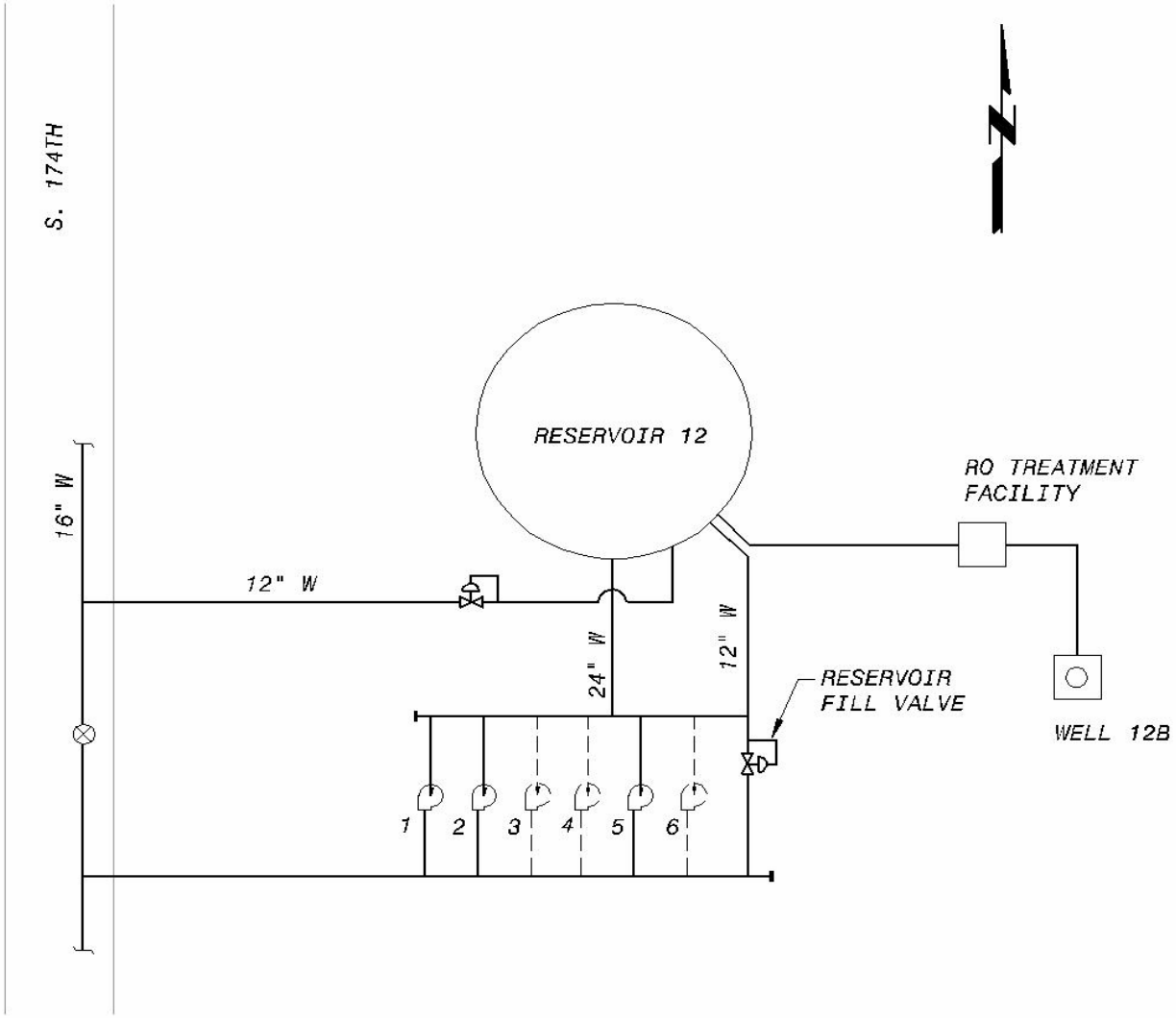
SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME	DIAMETER	LENGTH	CENTERLINE
			GAL	FT	FT	EL
Cylindrical	Steel	At Grade	10,000	8	24.00	
	LEVEL INST					
	SCADA TAG					

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY	DIAMETER	FLOOR	OVERFLOW
			MG	FT	Feet EL	Feet EL
Cylindrical	Steel	At Grade	2.0	158	929	994.5
	LEVEL INST					
	SCADA TAG					

SITE 12 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS13	**Site 13**	WPA 3
	Reservoir & Pumping Station	Zone 1
	11461 S. 171st. Ave.	Zone 2

LOCATION MAP

DESCRIPTION

Site 13 is a reservoir and pumping station. It operates as a dump and repump facility with the distribution system as its source of water. Water is delivered to Zones 1 and 2 in the Estrella Mountain Ranch Area. Site 13 has Standby power.

PUMP INVENTORY

PUMP	TYPE	HEAD	FLOW		HP
		FT	*GPM*	*MGD*	
1 (Zone 1)	Constant Speed	115	800	1.2	30
2 (Zone 1)	Constant Speed	115	800	1.2	30
3 (Zone 1)	Constant Speed	115	1000	1.4	50
4 (Zone 1)	Constant Speed	115	1200	1.7	60
1 (Zone 2)	Constant Speed	145	1000	1.4	40
2 (Zone 2)	Constant Speed	145	1000	1.4	40
3 (Zone 2)	Spare Can				
	INSTALLED CAPACITY		4800	8.4	
	FIRM CAPACITY		3600	6.6	

SUCTION SCADA TAGS	
FLOW	*PSI*
PT EL =	

DISCHARGE SCADA TAGS	
FLOW	*PSI*
PT EL =	

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME	DIAMETER	LENGTH	CENTERLINE
			GAL	*FT*	*FT*	*EL*
Cylindrical	Steel		10,000			
Cylindrical	Steel		10,000			

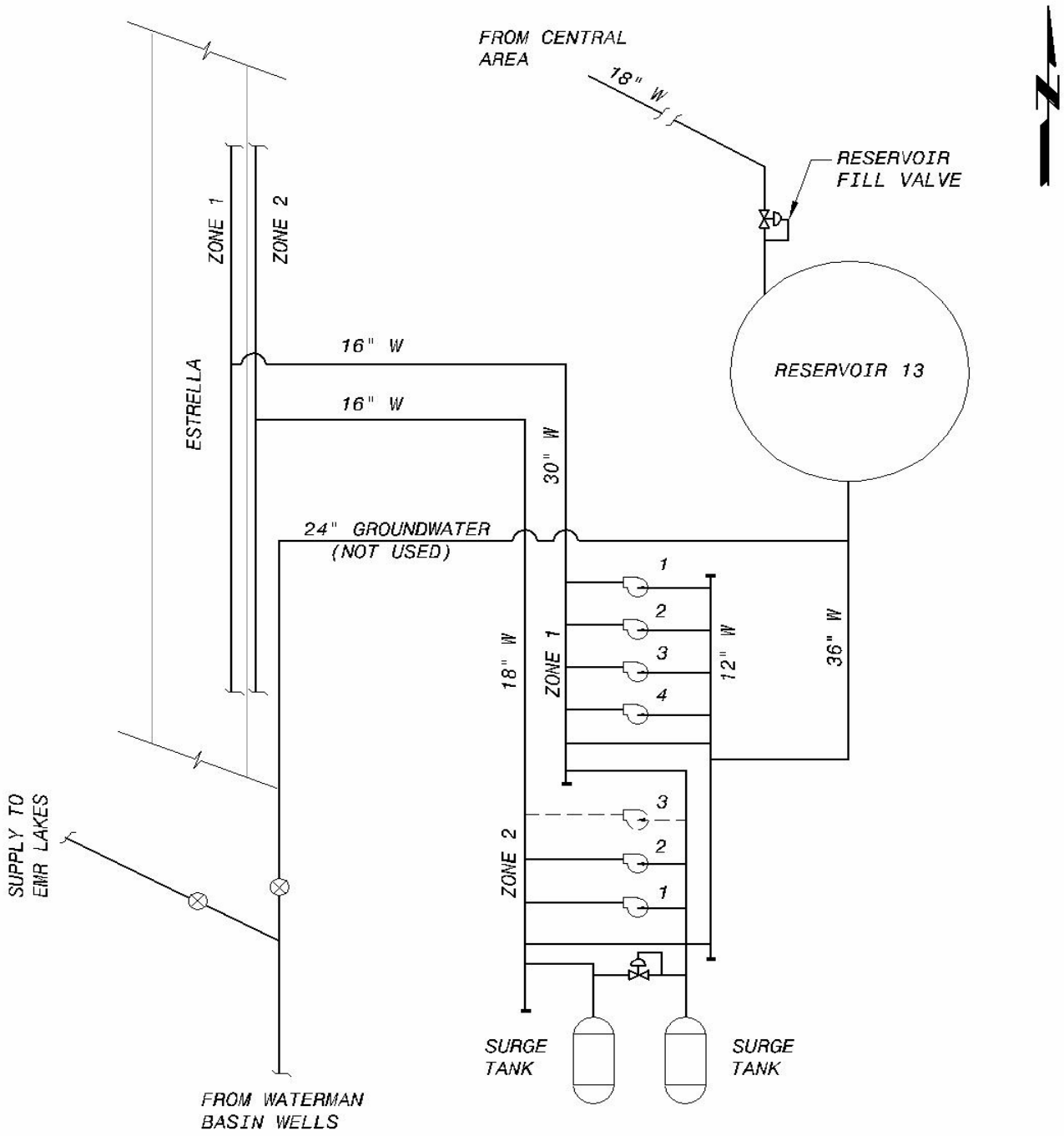
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY	DIAMETER	FLOOR	OVERFLOW
			MG	*FT*	*Feet EL*	*Feet EL*
Cylindrical	Steel		1.5	130	1026	1041.5

LEVEL INST	
SCADA TAG	

SITE 13 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS18	**Site 18** Reservoir & Pumping Station 1761 N. Palo Verde Dr.	WPA 2

LOCATION MAP

DESCRIPTION

Site 18 is a reservoir and pumping station. The site is fed by Wells 6, 18A, and 18B. W18B is treated for Arsenic and then blended with W18A and W6. W18B provides about 450 gpm after treatment. Wells 18A and 18B have chlorination. There is Standby power. The is room on this site for a future tank.

PUMP INVENTORY

PUMP	TYPE	HEAD	FLOW		HP	SUCTION SCADA TAGS	
		FT	*GPM*	*MGD*		*FLOW*	*PSI*
1	Constant Speed	140	1000	1.4	75		
2	Constant Speed	140	1000	1.4	75	*PT EL =*	
3	Spare Can						
4	Spare Can					DISCHARGE SCADA TAGS	
						FLOW	*PSI*
						PT EL =	
	INSTALLED CAPACITY		2000	2.9			
	FIRM CAPACITY		1000	1.4			

WELL INVENTORY

ID #	PUMP TYPE	STATUS	HEAD	CAPACITY		HP	CONSTRAINTS	SCADA TAGS	
			FT	*GPM*	*MGD*			*FLOW*	*PSI*
W6	Vertical Turbine	Operational		500	0.7		Nitrate - Blending		
W18A	Vertical Turbine	Operational		900	1.3		Nitrate - Blending		
W18B	Vertical Turbine	Operational		500	0.7		Arsenic - Treatment		
								PT EL =	

WELL DEPTH *ft*
STATIC DEPTH TO WATER *ft (1970)*

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME	DIAMETER	LENGTH	CENTERLINE
			GAL	FT	FT	EL
Cylindrical	Steel		10,000	8	24.00	1056

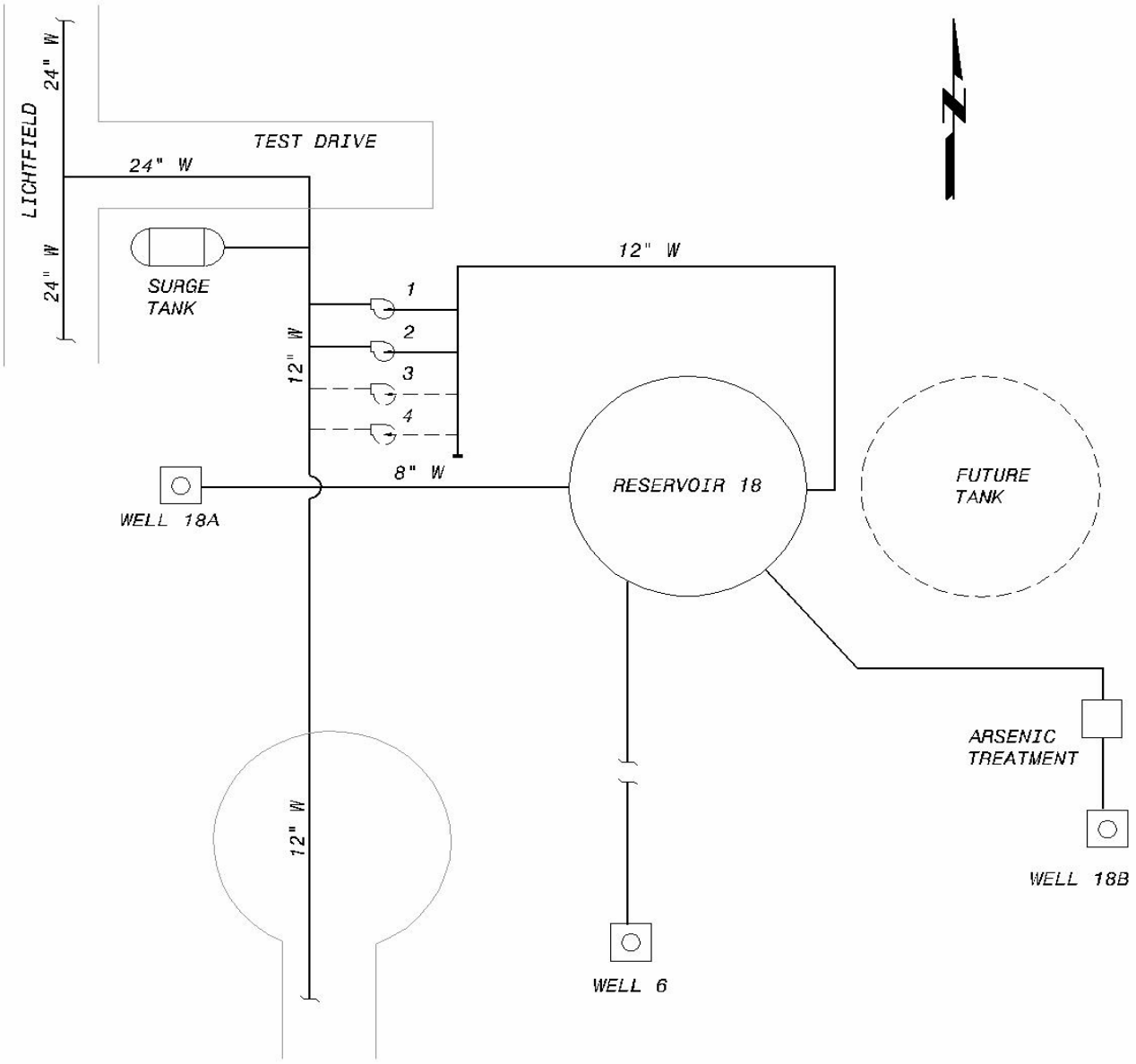
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY	DIAMETER	FLOOR	OVERFLOW
			MG	FT	Feet EL	Feet EL
Cylindrical	Steel		1.0	120	985.83	997.33

LEVEL INST	
SCADA TAG	

SITE 18 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS21	**Site 21** Reservoir & Pumping Station 1280 N. Sarival Ave	WPA 2

LOCATION MAP

DESCRIPTION

Site 21 is a reservoir and pumping station. It operates as a dump and repump facility that is fed by the interconnection with Western LPSCO. There is Standby power and chlorination at Site 21.

PUMP INVENTORY

PUMP	TYPE	HEAD	FLOW		HP	SUCTION SCADA TAGS	
		FT	*GPM*	*MGD*		*FLOW*	*PSI*
1	Variable Speed	115	700	1.0	40		
2	Variable Speed	115	1500	2.2	100	*PT EL =*	
3	Variable Speed	115	1500	2.2	100		
4	Variable Speed	115	1500	2.2	100	DISCHARGE SCADA TAGS	
5	Variable Speed	115	1500	2.2	100	*FLOW*	*PSI*
6	Spare Can						
						PT EL =	
			INSTALLED CAPACITY	6700	9.6		
			FIRM CAPACITY	5200	7.5		

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME GAL	DIAMETER FT	LENGTH FT	CENTERLINE EL
Cylindrical	Steel		10,000	8	26.50	

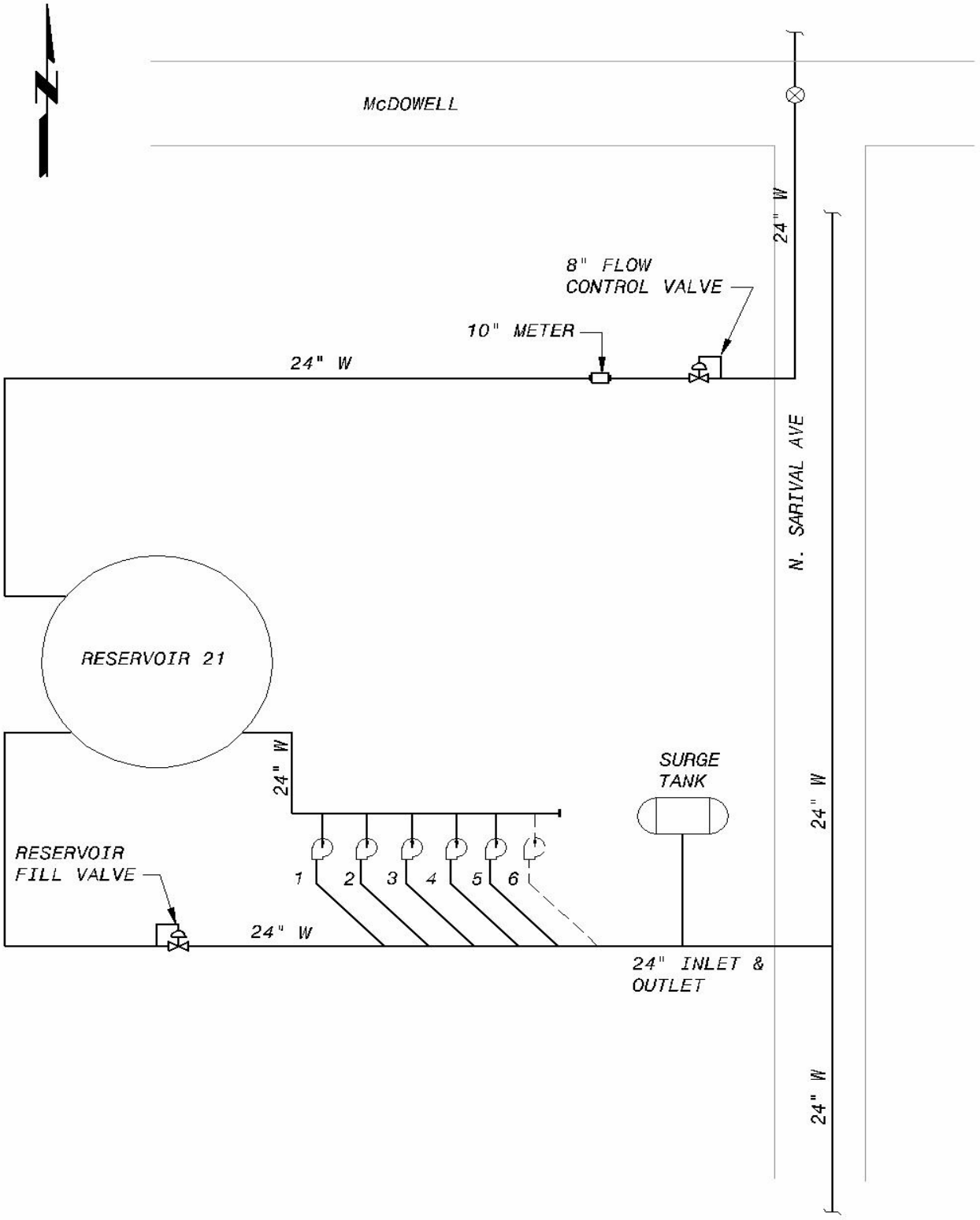
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY *MG*	DIAMETER FT	FLOOR Feet EL	OVERFLOW Feet EL
Cylindrical	Steel		2.0	176	996.5	

LEVEL INST	
SCADA TAG	

SITE 21 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS3	**Site 3** Reservoir & Pumping Station 441 La Canada	WPA 2

DESCRIPTION

Site 3 is a reservoir and pumping station. Its source of water is Well 3. The well requires no treatment or blending for water quality. No Standby power. Well 3 has chlorination.

LOCATION MAP

PUMP INVENTORY

PUMP	TYPE	HEAD FT	FLOW GPM	FLOW MGD	HP
1	Constant Speed	115	500	0.7	20
2	Constant Speed	115	500	0.7	25
	INSTALLED CAPACITY		1000	1.4	
	FIRM CAPACITY		500	0.7	

SUCTION SCADA TAGS FLOW	PSI
PT EL =	

DISCHARGE SCADA TAGS FLOW	PSI
PT EL =	

WELL INVENTORY

ID #	PUMP TYPE	STATUS	HEAD FT	CAPACITY GPM	CAPACITY MGD	HP	CONSTRAINTS	SCADA TAGS FLOW	SCADA TAGS PSI
W3	Vetical Turbine	Operational		500	0.7		Potable		
								PT EL =	

WELL DEPTH *ft*

STATIC DEPTH TO WATER *ft (1970)*

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME GAL	DIAMETER FT	LENGTH FT	CENTERLINE EL
Cylindrical	Steel	At Grade	5,000	8	12	981.9

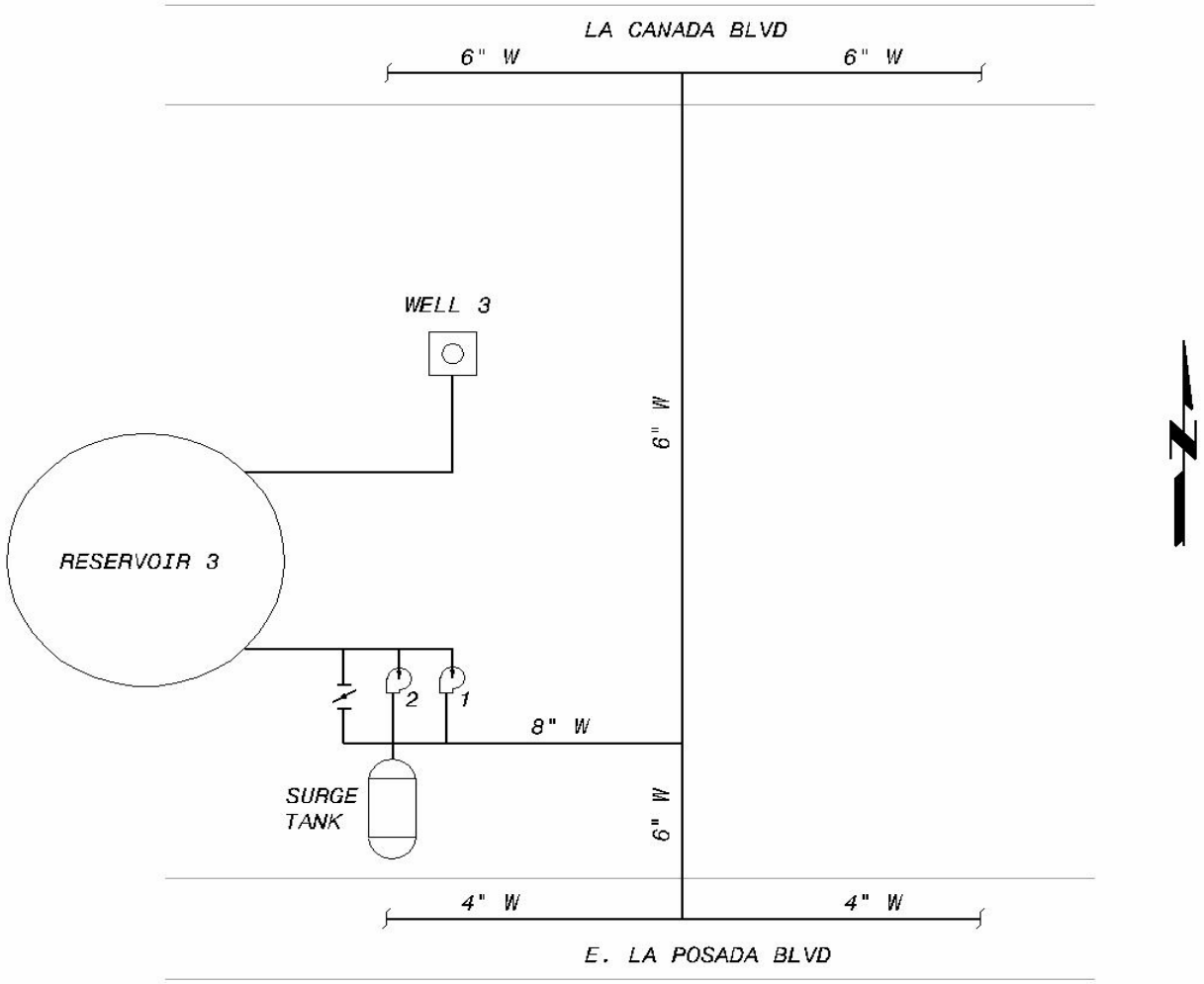
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY MG	DIAMETER FT	FLOOR Feet EL	OVERFLOW Feet EL
Cylindrical	Steel	At Grade	0.18	45	976.28	991.78

LEVEL INST	
SCADA TAG	

SITE 3 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS5	**Site 5** Reservoir & Pumping Station 980 S. Camino Oro	WPA 2

DESCRIPTION

Site 5 is a reservoir and pumping station. It operates as a dump and repump facility with the distribution system as its source for water. Well 5 is currently inactive. Well 5 does not have chlorination. No Standby power. The City of Goodyear wishes to abandon Site 5.

LOCATION MAP

PUMP INVENTORY

PUMP	TYPE	HEAD FT	FLOW GPM	FLOW MGD	HP	SUCTION SCADA TAGS FLOW	SUCTION SCADA TAGS PSI
1	Constant Speed	130	500	0.7	30		
2	Constant Speed	130	500	0.7	30	*PT EL =*	
						DISCHARGE SCADA TAGS	
						FLOW	*PSI*
						PT EL =	
	INSTALLED CAPACITY		1000	1.4			
	FIRM CAPACITY		500	0.7			

WELL INVENTORY

ID #	PUMP TYPE	STATUS	HEAD FT	CAPACITY GPM	CAPACITY MGD	HP	CONSTRAINTS	SCADA TAGS FLOW	SCADA TAGS PSI
W5	Vertical Turbine	Inactive					TCE/Perchlorate		
								PT EL =	

WELL DEPTH *ft*
STATIC DEPTH TO WATER *ft (1970)*

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME GAL	DIAMETER FT	LENGTH FT	CENTERLINE EL
Cylindrical	Steel		10,000			

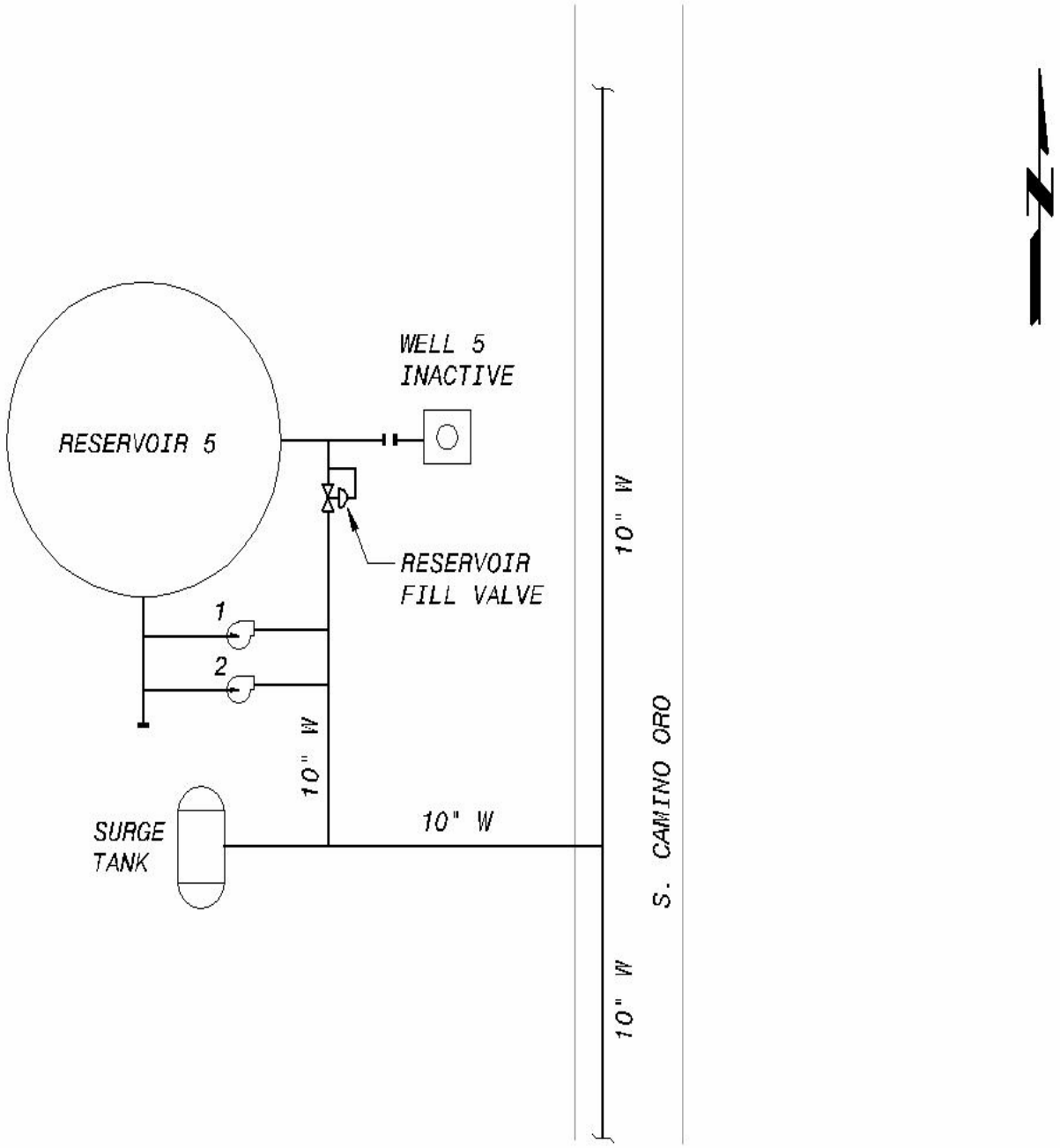
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY MG	DIAMETER FT	FLOOR Feet EL	OVERFLOW Feet EL
Cylindrical	Steel		0.18	36	984.5	

LEVEL INST	
SCADA TAG	

SITE 5 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS7	**Site 7** Reservoir & Pumping Station 16167 W. Eddie Albert Way	WPA 2

DESCRIPTION

Site 7 is a reservoir and pumping station. It operates as a dump and repump facility with the distribution system as its source for water. Well 7 is Inactive. Well 7 does not have chlorination. No Standby power.

LOCATION MAP

PUMP INVENTORY

PUMP	TYPE	HEAD FT	FLOW GPM	FLOW MGD	HP
1	Constant Speed	200	500	0.7	40
2	Constant Speed	200	500	0.7	40
3	Constant Speed	200	500	0.7	40
	INSTALLED CAPACITY		1500	2.2	
	FIRM CAPACITY		1000	1.4	

SUCTION SCADA TAGS FLOW	PSI
PT EL =	

DISCHARGE SCADA TAGS FLOW	PSI
PT EL =	

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME GAL	DIAMETER FT	LENGTH FT	CENTERLINE EL
Cylindrical	Steel	At Grade	10,000	8	24.00	914.42

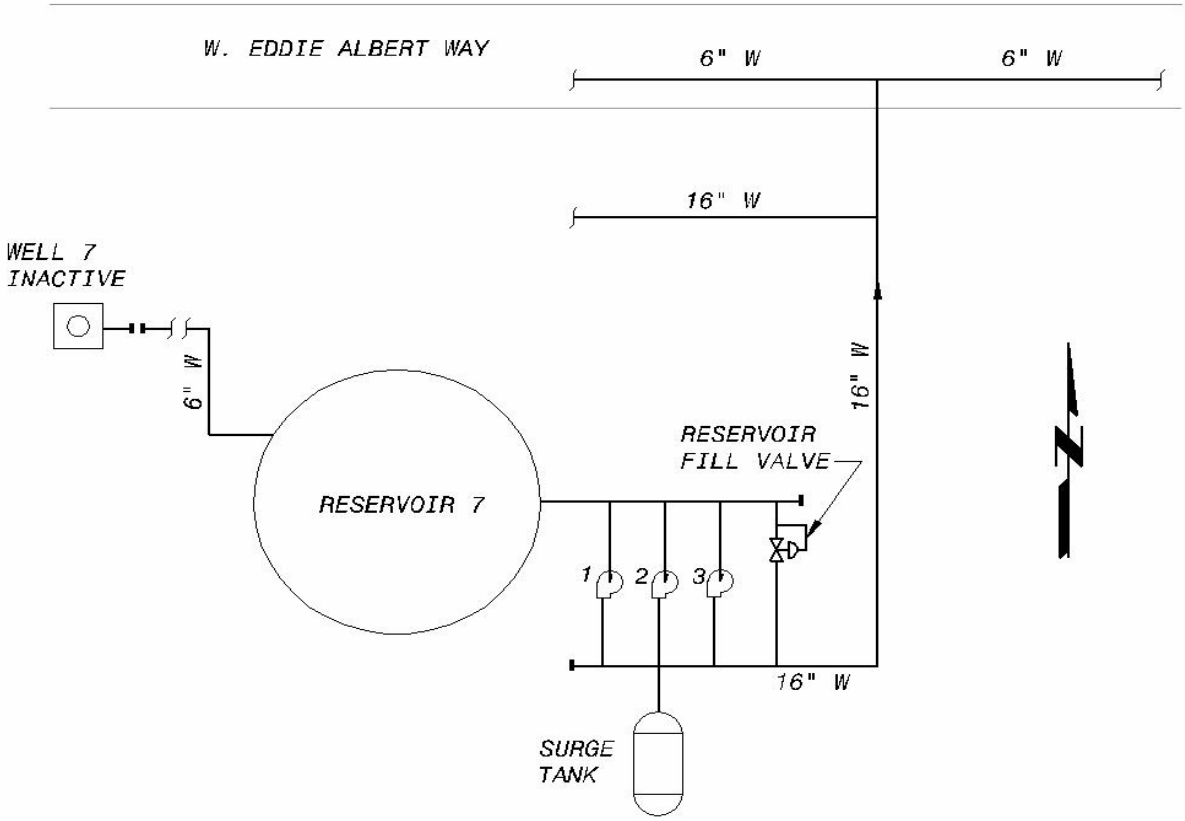
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY MG	DIAMETER FT	FLOOR Feet EL	OVERFLOW Feet EL
Cylindrical	Steel	At Grade	0.75	76	910.25	933.75

LEVEL INST	
SCADA TAG	

SITE 7 FACILITY SCHEMATIC



City of Goodyear

WATER DISTRIBUTION SYSTEM FACILITY INVENTORY

ID	NAME / ADDRESS	AREA
RPS8	**Site 8** Reservoir & Pumping Station 3240 S. 143rd Ave	WPA 2

DESCRIPTION

Site 8 is a reservoir and pumping station. It operates as a dump and repump facility with the distribution system as its source for water. Well 8 is Inactive. Well 8 does not have chlorination. No Standby power.

LOCATION MAP

PUMP INVENTORY

PUMP	TYPE	HEAD FT	FLOW GPM	FLOW MGD	HP
1	Constant Speed	150	500	0.7	40
2	Constant Speed	150	500	0.7	40
INSTALLED CAPACITY			1000	1.4	
FIRM CAPACITY			500	0.7	

SUCTION SCADA TAGS FLOW	PSI
PT EL =	

DISCHARGE SCADA TAGS FLOW	PSI
PT EL =	

SURGE TANK INVENTORY

TYPE	MATERIAL	PROFILE	VOLUME GAL	DIAMETER FT	LENGTH FT	CENTERLINE EL
Cylindrical	Steel		10,000			

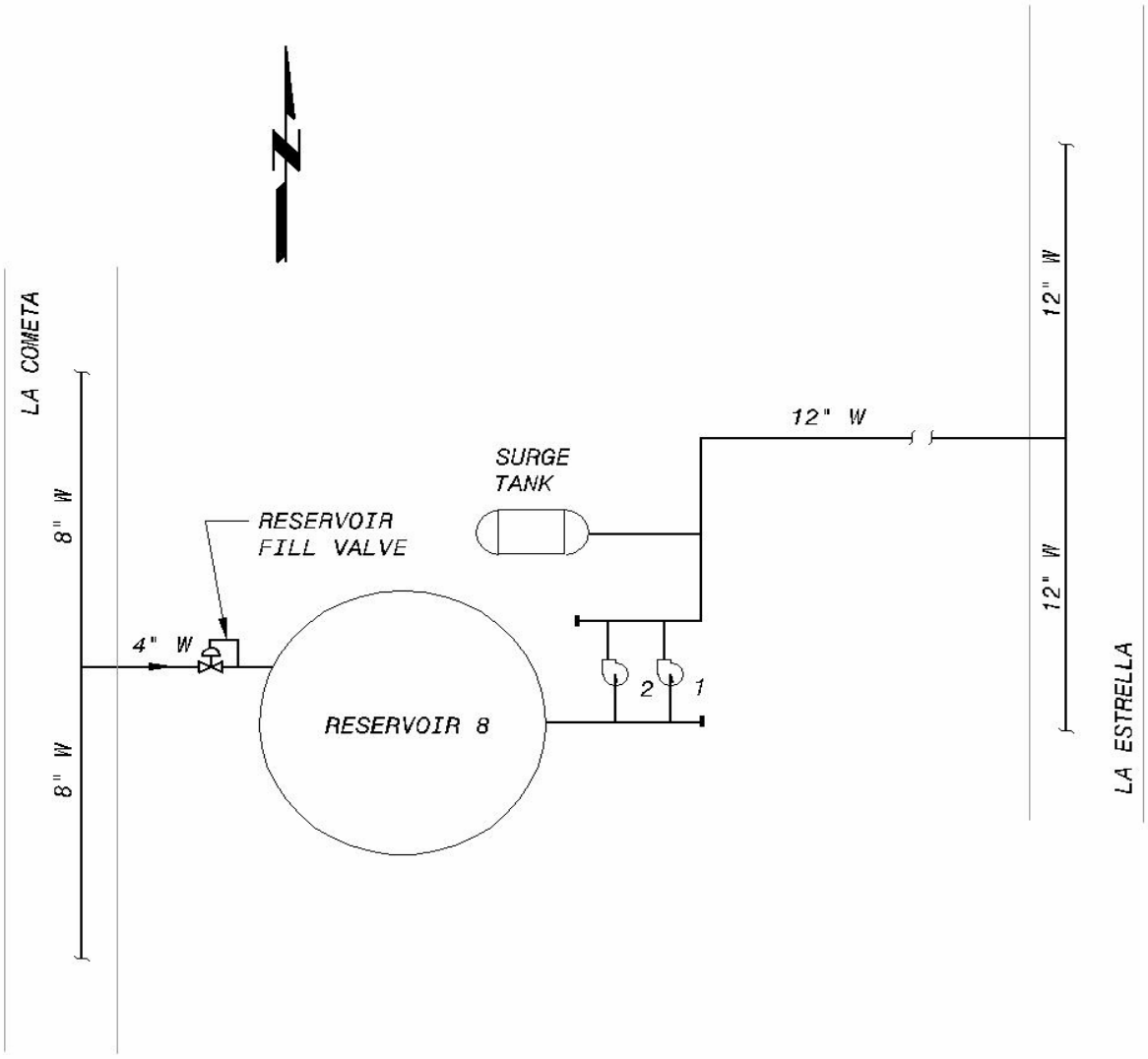
LEVEL INST	
SCADA TAG	

RESERVOIR INVENTORY

TYPE	MATERIAL	PROFILE	CAPACITY MG	DIAMETER FT	FLOOR Feet EL	OVERFLOW Feet EL
Cylindrical	Steel	At Grade	0.75	74	957.5	980.58

LEVEL INST	
SCADA TAG	

SITE 8 FACILITY SCHEMATIC



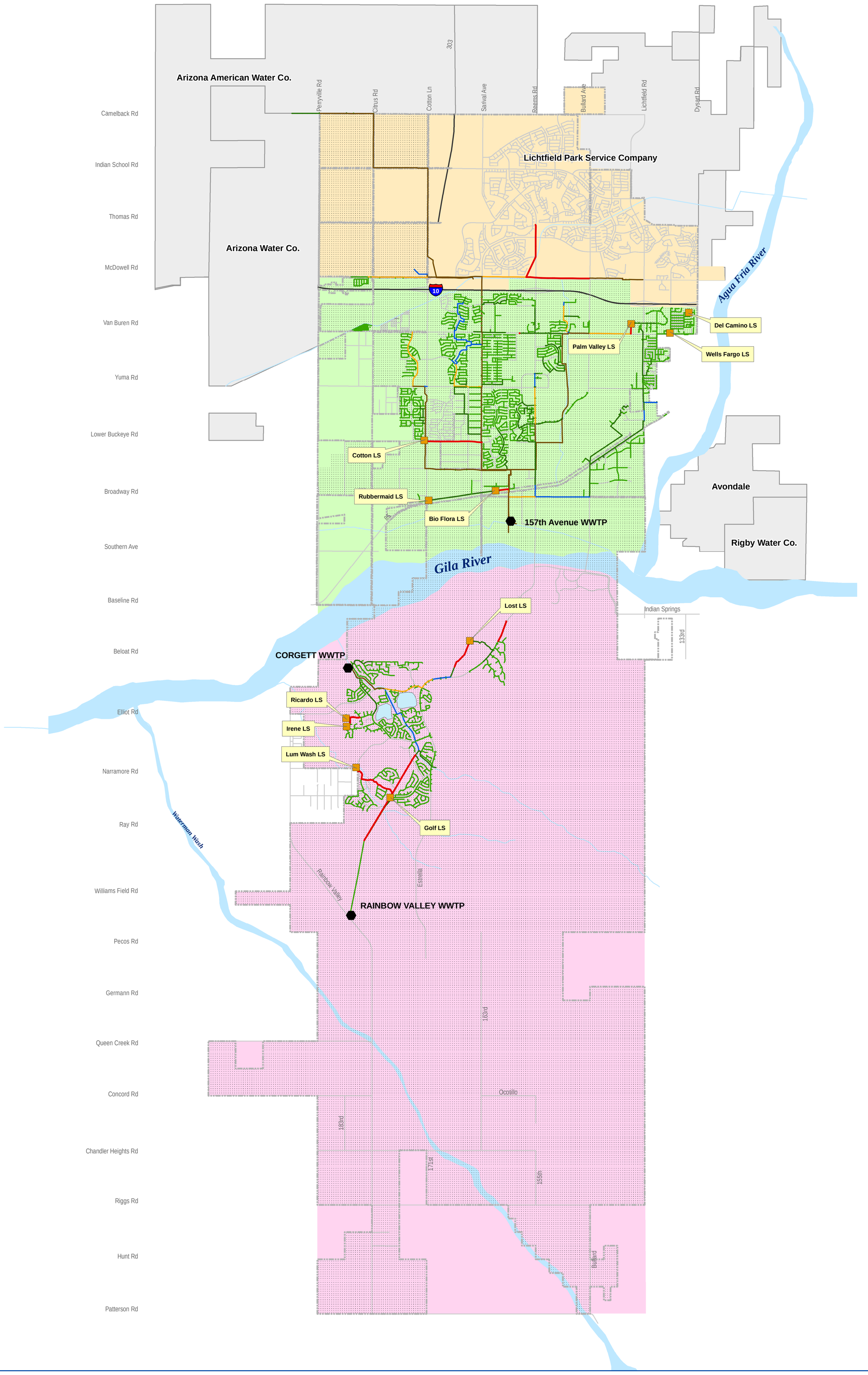
3.0 WASTEWATER COLLECTION SYSTEM

Existing wastewater collection system facilities are inventoried in Table 3-1 and their locations are shown on Figure 2. The Inventory includes the following major components:

- Wastewater Treatment Facilities
- Lift Stations

Key information for each wastewater collection facility is summarized onto Facility Schematic sheets which provide:

- Facility Descriptions
- Equipment Capacity, Parameters and Settings
- Facility Schematic



N
W E
S

1 inch equals 5,000 feet

Data source:
City of Goodyear GIS

LEGEND

- WWTP
- Lift Station
- Force Main

Gravity Main

- 8" and Smaller
- 10" - 12"
- 15" - 16"
- 18" - 20"
- 24" and Larger

Study/Planning Area

- North
- Central
- South
- City Limits
- Goodyear Water Service Area Boundary
- Other Service Providers

Figure 2
TM1 - Facility Inventory
Wastewater Collection System

Integrated Water Master Plan
City of Goodyear, AZ
2006

Goodyear ARIZONA

BLACK & VEATCH
building a world of difference™
ENERGY WATER INFORMATION GOVERNMENT

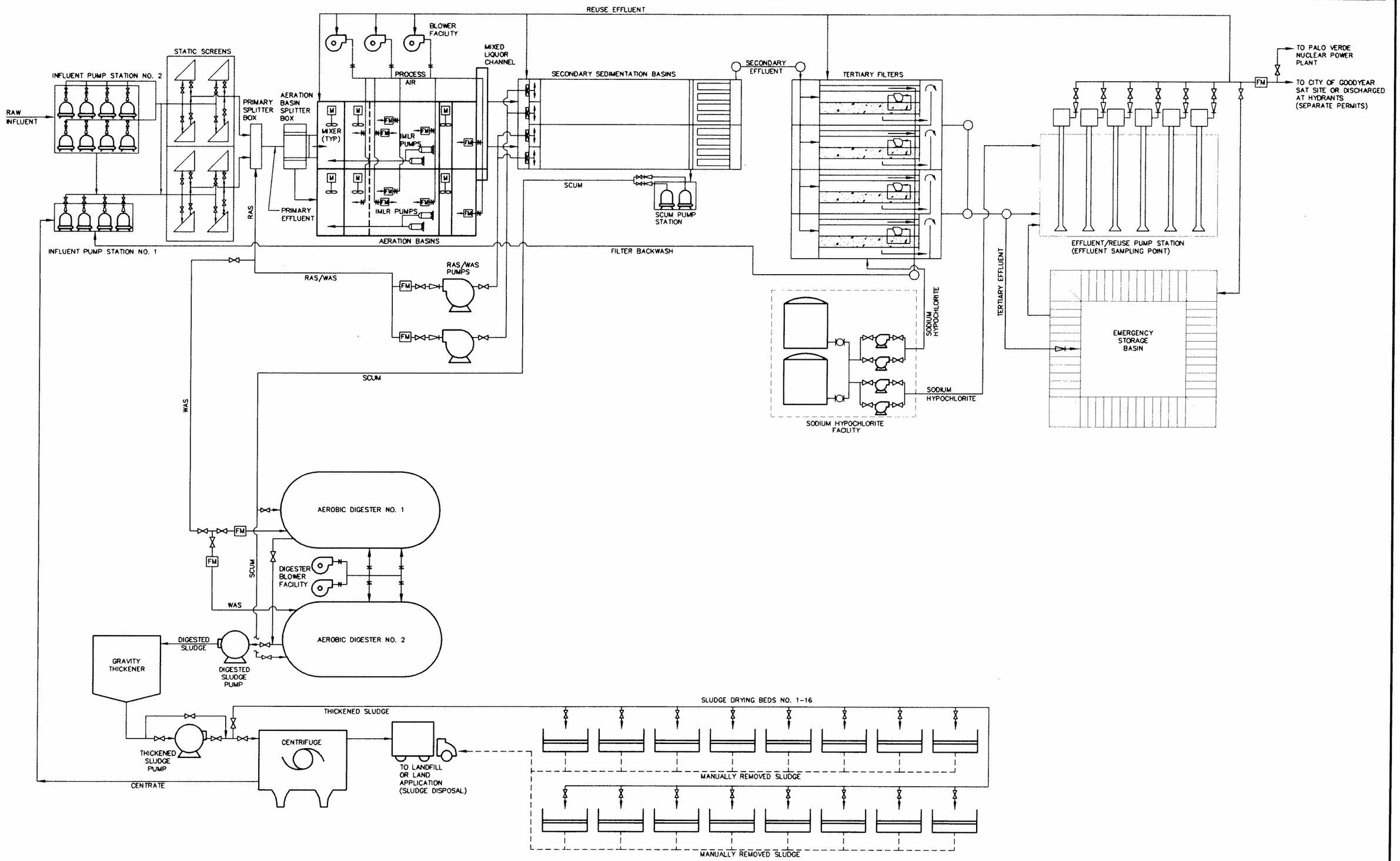
\\Projects\GoodYear\11GIS\01MapDocuments\ExistingSewer.mxd Christina Hassell 12 Oct 2006

City of Goodyear

Wastewater Infrastructure

WASTEWATER TREATMENT FACILITIES		
NAME	**CAPACITY (MGD)**	**EFFLUENT CLASS**
157th Ave WWTP	4.0	A+
Corgett WRF	0.8	A+
Rainbow Valley WRF	0.8	A+

LIFT STATIONS			
NAME	**INSTALLED CAPACITY (MGD)**	**TYPE**	**STANDBY POWER**
Wells Fargo	0.7	duplex-submersible	yes
Del Camino	0.9	duplex-submersible	yes
Palm Valley	1.0	duplex-submersible	no
Rubbermaid	0.6	duplex-submersible	no
Bio Flora	0.7	duplex-submersible	no
Lost	2.0	duplex-submersible	no
Ricardo	0.3	duplex-submersible	no
Irene	0.4	duplex-submersible	no
Cotton	1.4	duplex-submersible	no
Golf	0.9	duplex-submersible	no
Lum Wash	0.2	duplex-submersible	no
Rainbow Valley	4.6	triplex-submersible	yes
Las Brisas*	-	duplex-submersible	yes
Kings Ranch*	-	duplex-submersible	no
Northwest Territory*	-	duplex-submersible	yes
McDowell*	-	duplex-submersible	no



MALCOLM PIRNIE

17706 JAMES P. ALBU

REVISIONS		
DATE	REMARKS	

DES JAD
DWN DRB
CKD

CITY OF GOODYEAR
GOODYEAR, ARIZONA

157TH AVENUE WATER RECLAMATION FACILITY
PHASE IIA EXPANSION

4MGD FACILITY (DESIGN CAPACITY)

PROCESS FLOW SCHEMATIC

NOT TO SCALE

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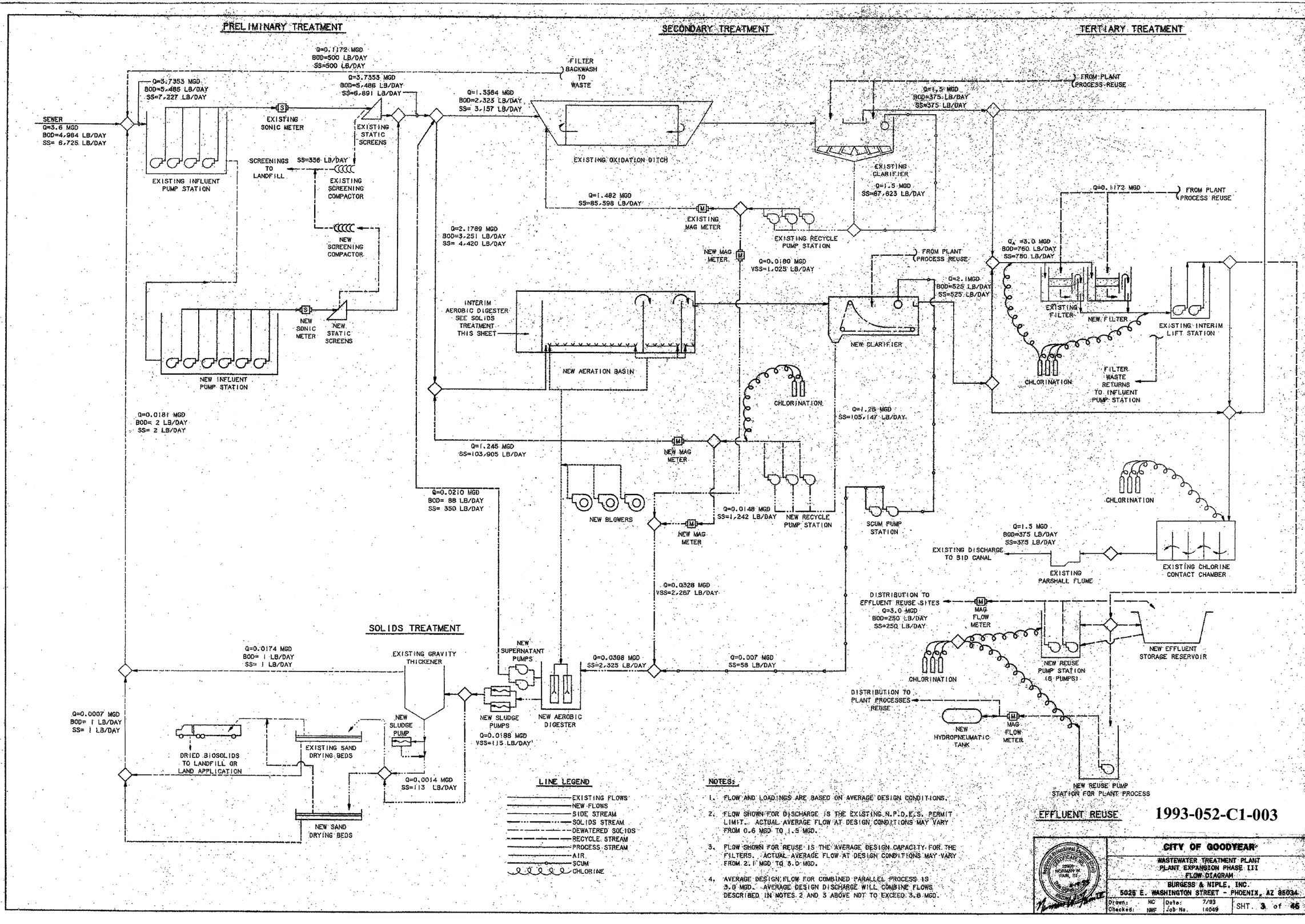
DATE JANUARY 2006

G SHEET 1 OF 1

CAD REF. NO. 41250200

CITY SHEET NO.


PRELIMINARY TREATMENT
SECONDARY TREATMENT
TERTIARY TREATMENT
SOLIDS TREATMENT
SEWER
Q=3.6 MGD
BOD=4,984 LB/DAY
SS= 6,725 LB/DAY
EXISTING INFLUENT PUMP STATION
Q=3.7353 MGD
BOD=5,486 LB/DAY
SS=7,227 LB/DAY
EXISTING SONIC METER
EXISTING STATIC SCREENS
Q=3.7353 MGD
BOD=5,486 LB/DAY
SS=6,891 LB/DAY
SCREENINGS TO LANDFILL
SS=336 LB/DAY
EXISTING SCREENING COMPACTOR
NEW SCREENING COMPACTOR
NEW SONIC METER
NEW STATIC SCREENS
NEW INFLUENT PUMP STATION
Q=0.0181 MGD
BOD= 2 LB/DAY
SS= 2 LB/DAY
Q=0.172 MGD
BOD=500 LB/DAY
SS=500 LB/DAY
FILTER BACKWASH TO WASTE
Q=1.5584 MGD
BOD=2,323 LB/DAY
SS= 3,157 LB/DAY
EXISTING OXIDATION DITCH
Q=1.482 MGD
SS=85,598 LB/DAY
EXISTING MAG METER
EXISTING RECYCLE PUMP STATION
Q=2.1789 MGD
BOD=3,251 LB/DAY
SS= 4,420 LB/DAY
NEW MAG METER
Q=0.0180 MGD
VSS=1,025 LB/DAY
INTERIM AEROBIC DIGESTER SEE SOLIDS TREATMENT THIS SHEET
NEW AERATION BASIN
Q=1.245 MGD
SS=103,905 LB/DAY
NEW MAG METER
Q=0.0210 MGD
BOD= 88 LB/DAY
SS= 350 LB/DAY
NEW BLOWERS
Q=0.0148 MGD
SS=1,242 LB/DAY
NEW RECYCLE PUMP STATION
NEW MAG METER
Q=0.0328 MGD
VSS=2,267 LB/DAY
Q=1.5 MGD
BOD=375 LB/DAY
SS=375 LB/DAY
FROM PLANT PROCESS REUSE
EXISTING CLARIFIER
Q=1.5 MGD
SS=87,623 LB/DAY
FROM PLANT PROCESS REUSE
NEW CLARIFIER
Q=1.28 MGD
SS=105,147 LB/DAY
CHLORINATION
Q=2.1MGD
BOD=525 LB/DAY
SS=525 LB/DAY
Q=0.172 MGD
FROM PLANT PROCESS REUSE
Q_A =3.0 MGD
BOD=750 LB/DAY
SS=750 LB/DAY
EXISTING FILTER
NEW FILTER
EXISTING INTERIM LIFT STATION
CHLORINATION
FILTER WASTE RETURNS TO INFLUENT PUMP STATION
CHLORINATION
Q=1.5 MGD
BOD=375 LB/DAY
SS=375 LB/DAY
EXISTING DISCHARGE TO BID CANAL
EXISTING PARSHALL FLUME
EXISTING CHLORINE CONTACT CHAMBER
DISTRIBUTION TO EFFLUENT REUSE SITES
Q=3.0 MGD
BOD=250 LB/DAY
SS=250 LB/DAY
MAG FLOW METER
NEW REUSE PUMP STATION (6 PUMPS)
NEW EFFLUENT STORAGE RESERVOIR
CHLORINATION
DISTRIBUTION TO PLANT PROCESSES REUSE
NEW HYDROPNEUMATIC TANK
MAG FLOW METER
NEW REUSE PUMP STATION FOR PLANT PROCESS
Q=0.0174 MGD
BOD= 1 LB/DAY
SS= 1 LB/DAY
EXISTING GRAVITY THICKENER
NEW SUPERNATANT PUMPS
Q=0.0398 MGD
SS=2,325 LB/DAY
Q=0.007 MGD
SS=58 LB/DAY
Q=0.0007 MGD
BOD= 1 LB/DAY
SS= 1 LB/DAY
DRIED BIOSOLIDS TO LANDFILL OR LAND APPLICATION
EXISTING SAND DRYING BEDS
NEW SLUDGE PUMP
NEW SLUDGE PUMPS
Q=0.0188 MGD
VSS=115 LB/DAY
NEW AEROBIC DIGESTER
Q=0.0014 MGD
SS=113 LB/DAY
NEW SAND DRYING BEDS
LINE LEGEND
EXISTING FLOWS
NEW FLOWS
SIDE STREAM
SOLIDS STREAM
DEWATERED SOLIDS
RECYCLE STREAM
PROCESS STREAM
AIR
SCUM
CHLORINE
NOTES:
1. FLOW AND LOADINGS ARE BASED ON AVERAGE DESIGN CONDITIONS.
2. FLOW SHOWN FOR DISCHARGE IS THE EXISTING N.P.D.E.S. PERMIT LIMIT. ACTUAL AVERAGE FLOW AT DESIGN CONDITIONS MAY VARY FROM 0.6 MGD TO 1.5 MGD.
3. FLOW SHOWN FOR REUSE IS THE AVERAGE DESIGN CAPACITY FOR THE FILTERS. ACTUAL AVERAGE FLOW AT DESIGN CONDITIONS MAY VARY FROM 2.1 MGD TO 3.0 MGD.
4. AVERAGE DESIGN FLOW FOR COMBINED PARALLEL PROCESS IS 3.0 MGD. AVERAGE DESIGN DISCHARGE WILL COMBINE FLOWS DESCRIBED IN NOTES 2 AND 3 ABOVE NOT TO EXCEED 3.0 MGD.
EFFLUENT REUSE
1993-052-C1-003
CITY OF GOODYEAR
WASTEWATER TREATMENT PLANT
PLANT EXPANSION PHASE III
FLOW DIAGRAM
BURGESS & NIPLE, INC.
5025 E. WASHINGTON STREET - PHOENIX, AZ 85034
Drawn: MC
Checked: MMF
Date: 7/93
Job No. 14049
SHT. 3 of 45

City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Bio Flora 15901 W. Eddie Albert Way	WPA 2

DESCRIPTION

Bio Flora Lift Station is a duplex, submersible lift station. Standby power is not provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	30	250	0.4	5	6.5	1.5	
2	Flight	30	250	0.4	5	7	1.5	
INSTALLED CAPACITY			500	0.7				

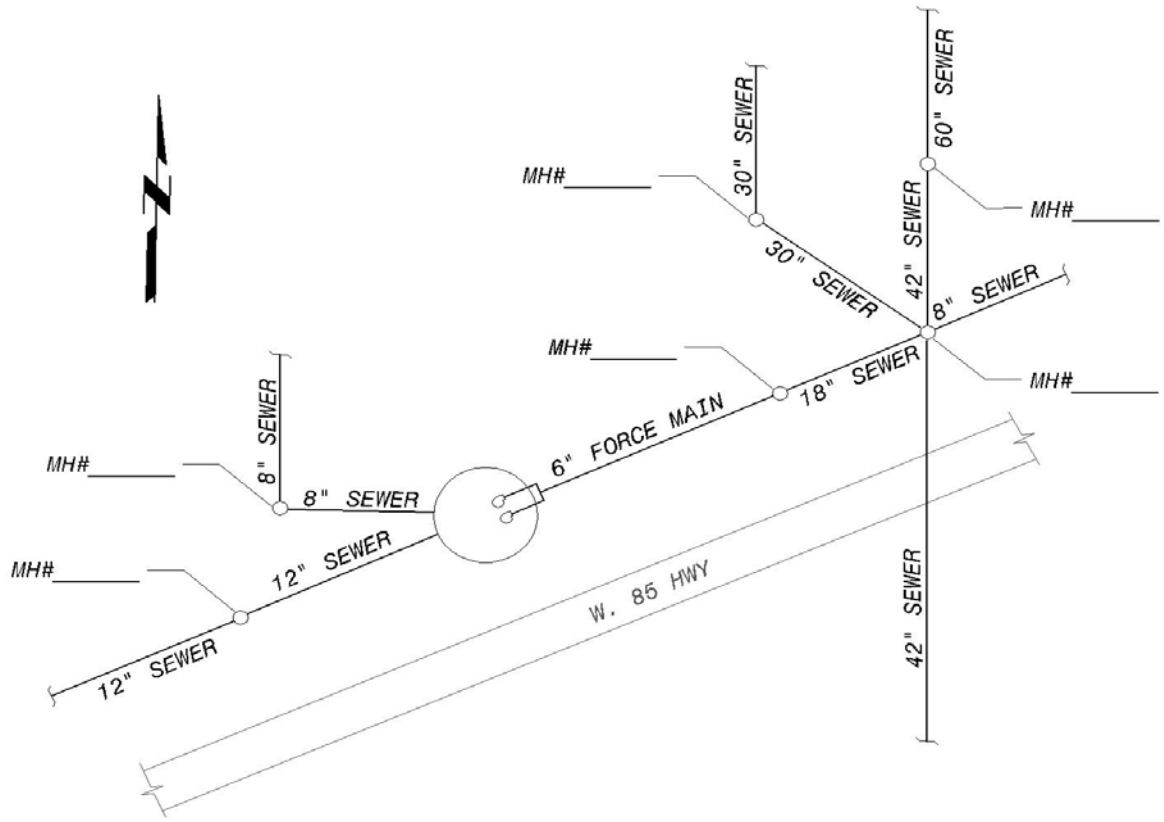
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
22.88	885.62	8	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
904	6	1197.4

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Cotton 17138 W. Lower Buckeye Road	WPA 2

DESCRIPTION

Cotton Lift Station is a duplex, submersible temporary lift station. Standby power is provided. Flow will be sent by 30" pipe on Cotton to Ellwood, currently under construction.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	35	480	0.7		13.92	1.42	
2	Flight	35	480	0.7		14.92	1.42	
	INSTALLED CAPACITY		960	1.4				

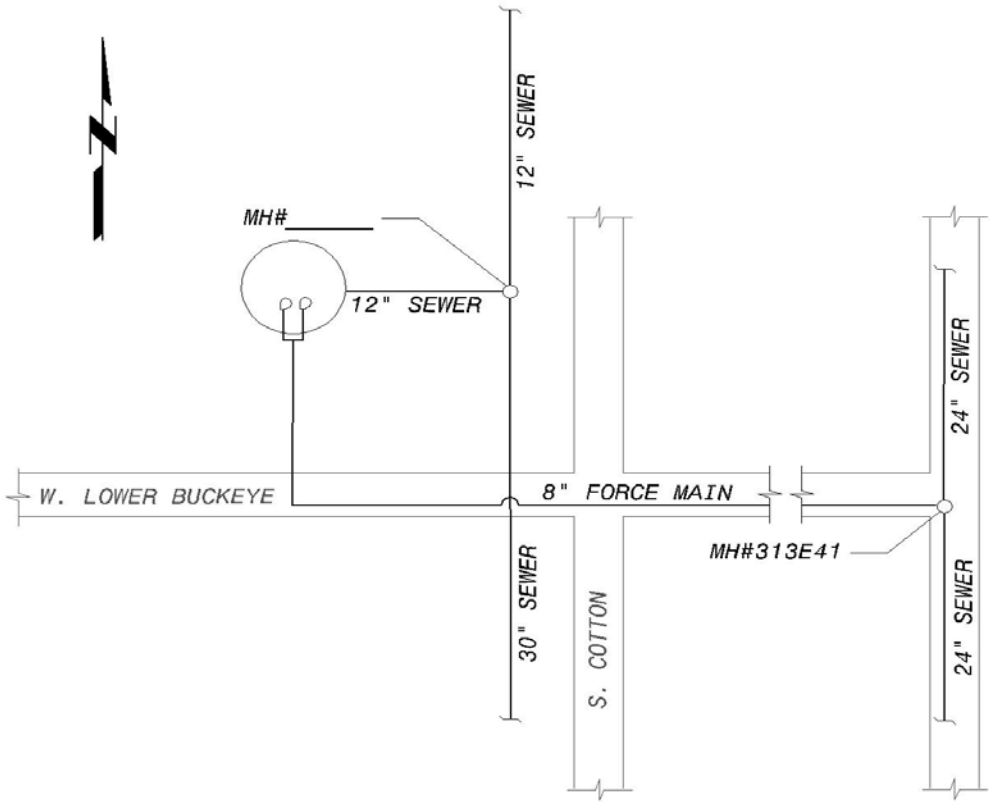
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
28	912.18	6	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
936.0	8	5678.2

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Del Camino 1770 N. Dysart Road	WPA 2

DESCRIPTION

Del Camino Lift Station is a duplex, submersible lift station. Standby power is provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	9.8	300	0.4	3	4.66	1.5	
2	Flight	9.8	300	0.4	3	5.16	1.5	
INSTALLED CAPACITY			600	0.9				

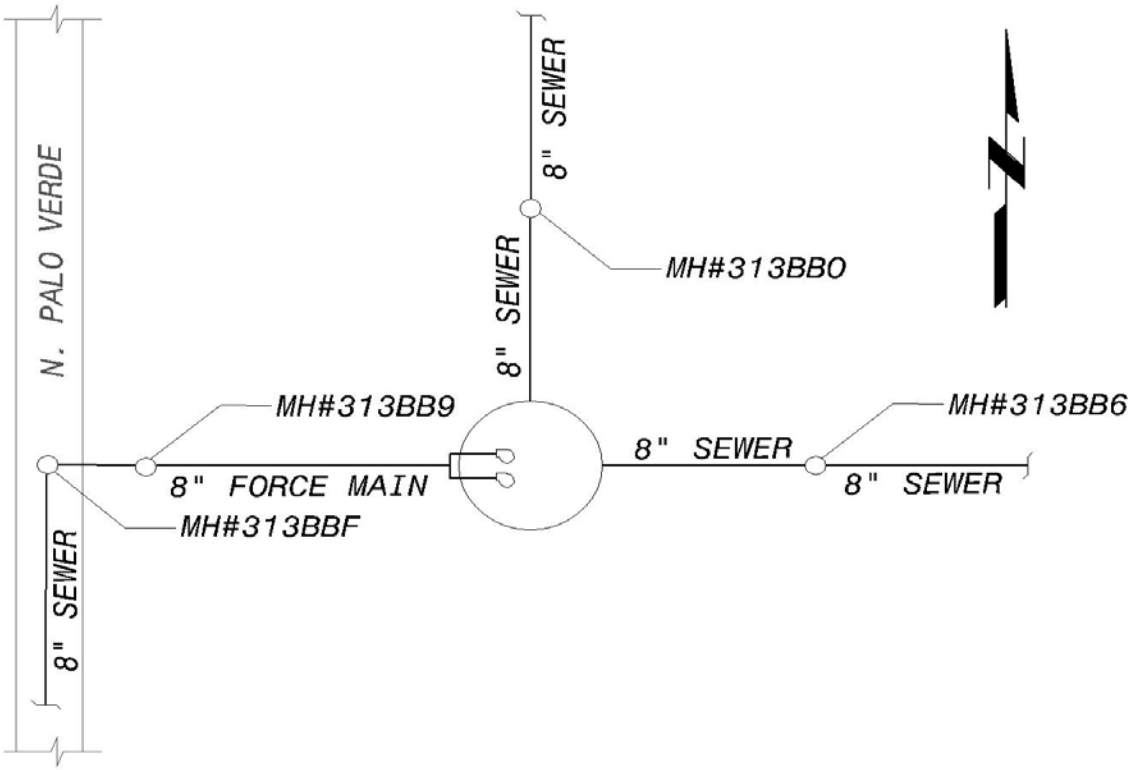
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
17.66	967.34	5	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
980.4	8	7.7

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Golf 18010 W. Westar Dr.	WPA 3

DESCRIPTION

Golf Lift Station is a duplex, submersible portable lift station. Standby power is provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD FT	FLOW GPM	FLOW MGD	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS FLOW
1	Flight	25	320	0.5		6	1.5	
2	Flight	25	320	0.5		7	1.5	
	INSTALLED CAPACITY		640	0.9				

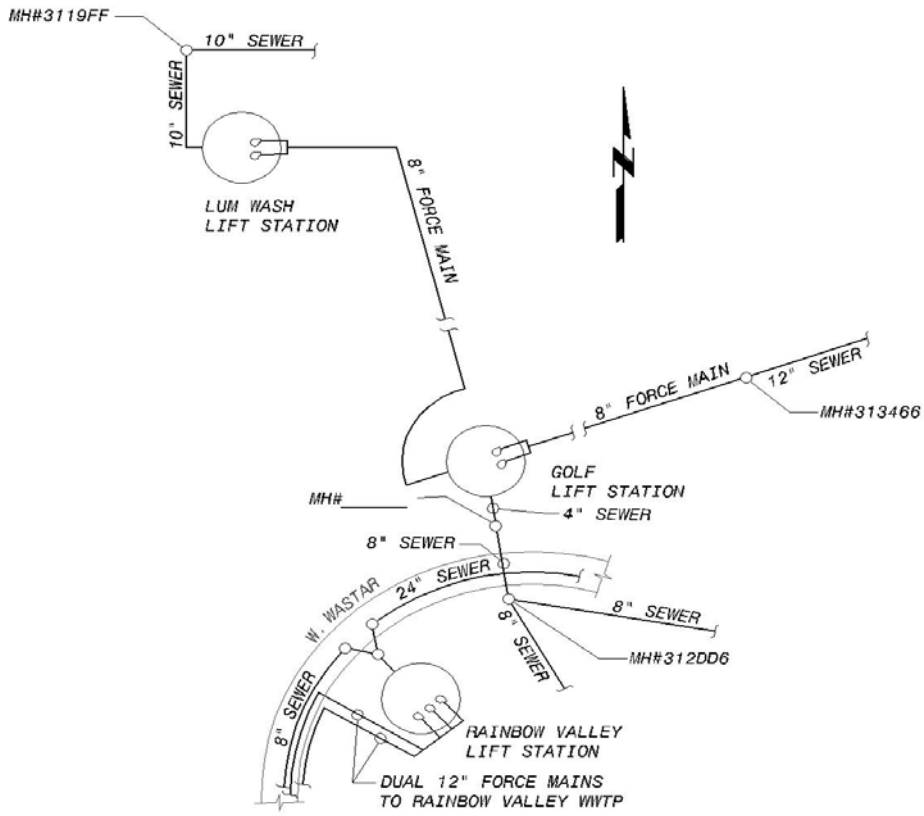
WETWELL

DEPTH FT	BASE EL. FT	DIAMETER FT	SCADA TAGS LEVEL
28	978	6	

FORCE MAIN

DISCHARGE INVERT FT	DIAMETER IN	LENGTH FT
999.0	8	4779.6

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Irene 18259 W. Santa Irene Dr.	WPA 3

DESCRIPTION

Irene Lift Station is a duplex, submersible lift station. Standby power is not provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	44	122	0.2	5	4	1	
2	Flight	44	122	0.2	5	4.5	1	
	INSTALLED CAPACITY		244	0.4				

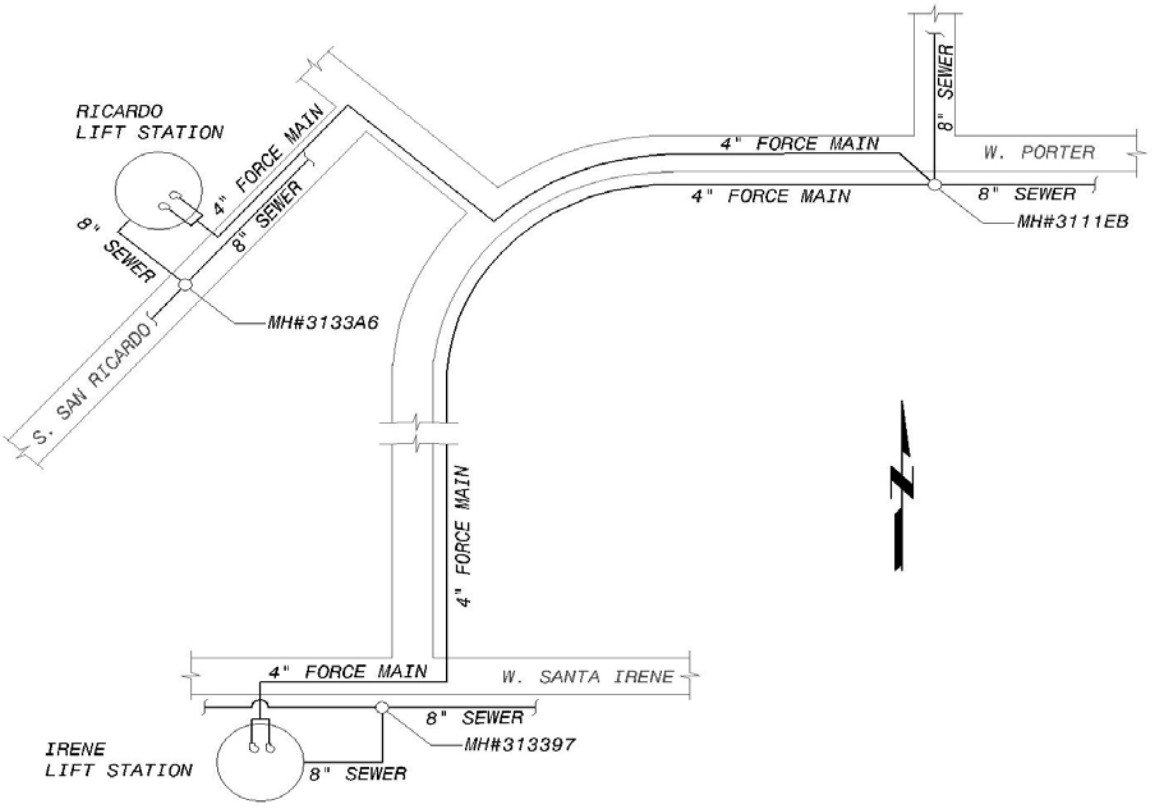
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
16	950.5	5	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
961.0	4	1973.8

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Kings Ranch	Central

LOCATION MAP

DESCRIPTION

Kings Ranch Lift Station is a duplex, submersible lift station. Standby power is not provided.

PUMPS

PUMP	MAKE	HEAD *FT*	FLOW *GPM*	FLOW *MGD*	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS *FLOW*
1				0.0				
2				0.0				
3								
INSTALLED CAPACITY			0	0.0				

WETWELL

DEPTH *FT*	BASE EL. *FT*	DIAMETER *FT*	SCADA TAGS *LEVEL*

FORCE MAIN

DISCHARGE INVERT *FT*	DIAMETER *IN*	LENGTH *FT*

FACILITY SCHEMATIC

City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Las Brisas	Central

LOCATION MAP

DESCRIPTION

Las Brisas Lift Station is a duplex, submersible lift station. Standby power is provided.

PUMPS

PUMP	MAKE	HEAD *FT*	FLOW *GPM*	FLOW *MGD*	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS *FLOW*
1				0.0				
2				0.0				
3								
INSTALLED CAPACITY			0	0.0				

WETWELL

DEPTH *FT*	BASE EL. *FT*	DIAMETER *FT*	SCADA TAGS *LEVEL*

FORCE MAIN

DISCHARGE INVERT *FT*	DIAMETER *IN*	LENGTH *FT*

FACILITY SCHEMATIC

City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Lost 8800 S. 165th Ave	WPA 3

LOCATION MAP

DESCRIPTION

Lost Lift Station is a duplex, submersible lift station. Standby power is not provided.

PUMPS

PUMP	MAKE	HEAD FT	FLOW GPM	FLOW MGD	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS FLOW
1	Flight	116	710	1.0		5.33	1.33	
2	Flight	116	710	1.0		6.33	1.33	
	INSTALLED CAPACITY		1420	2.0				

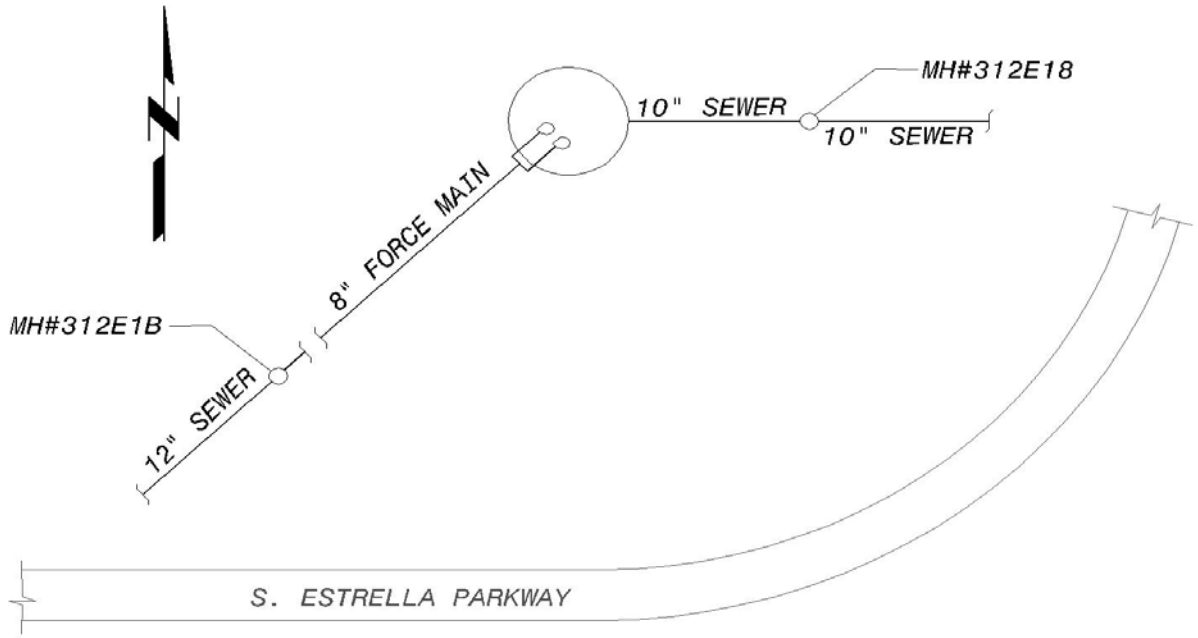
WETWELL

DEPTH FT	BASE EL. FT	DIAMETER FT	SCADA TAGS LEVEL
26.83	940.17	7	

FORCE MAIN

DISCHARGE INVERT FT	DIAMETER IN	LENGTH FT
955.4	8	2975.4

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Lum Wash 18495 W. Westar Drive	WPA 3

DESCRIPTION

Lum Wash Lift Station is a duplex, submersible lift station. Standby power is provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD FT	FLOW GPM	FLOW MGD	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS FLOW
1	Flight	50	60	0.1		6	1.5	
2	Flight	50	60	0.1		7	1.5	
	INSTALLED CAPACITY		120	0.2				

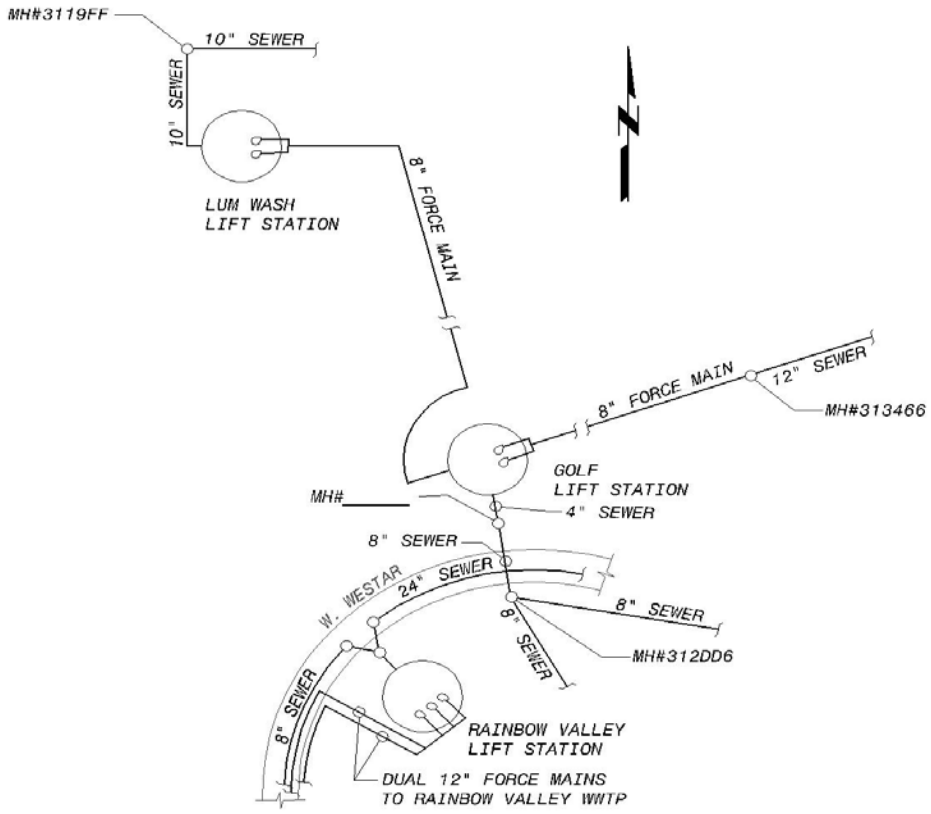
WETWELL

DEPTH FT	BASE EL. FT	DIAMETER FT	SCADA TAGS LEVEL
20	947	5	

FORCE MAIN

DISCHARGE INVERT FT	DIAMETER IN	LENGTH FT
967.1	8	5594.1

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
McDowell	Central

LOCATION MAP

DESCRIPTION

McDowell Lift Station is a duplex, submersible lift station. Standby power is not provided.

PUMPS

PUMP	MAKE	HEAD *FT*	FLOW *GPM*	FLOW *MGD*	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS *FLOW*
1				0.0				
2				0.0				
INSTALLED CAPACITY			0	0.0				

WETWELL

DEPTH *FT*	BASE EL. *FT*	DIAMETER *FT*	SCADA TAGS *LEVEL*

FORCE MAIN

DISCHARGE INVERT *FT*	DIAMETER *IN*	LENGTH *FT*

FACILITY SCHEMATIC

City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Northwest Territory	Northern

LOCATION MAP

DESCRIPTION

Northwest Territory Lift Station is a duplex, submersible lift station. Standby power is provided.

PUMPS

PUMP	MAKE	HEAD *FT*	FLOW *GPM*	FLOW *MGD*	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS *FLOW*
1				0.0				
2				0.0				
INSTALLED CAPACITY			0	0.0				

WETWELL

DEPTH *FT*	BASE EL. *FT*	DIAMETER *FT*	SCADA TAGS *LEVEL*

FORCE MAIN

DISCHARGE INVERT *FT*	DIAMETER *IN*	LENGTH *FT*

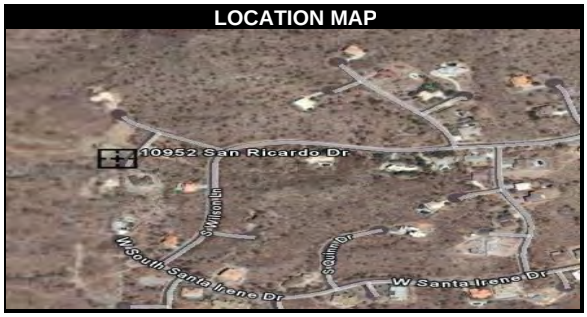
FACILITY SCHEMATIC

City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Ricardo 10952 San Ricardo Dr.	WPA 3

LOCATION MAP



DESCRIPTION

Ricardo Lift Station is a duplex, submersible lift station. Standby power is not provided.

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	45	120	0.2		2.5	1	
2	Flight	45	120	0.2		3	1	
INSTALLED CAPACITY			240	0.3				

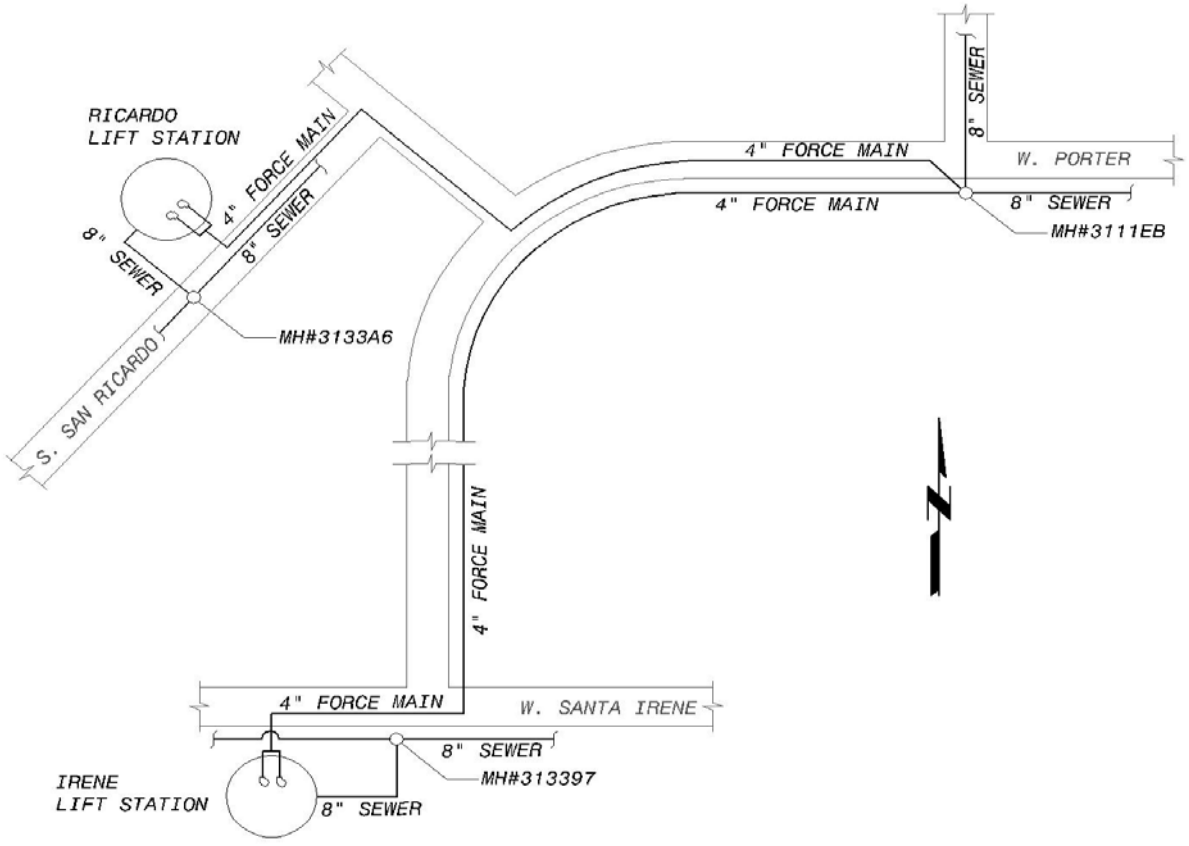
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
12	949.5	5	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
956.8	4	1502.5

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Palm Valley 14083 W. Filmore St	WPA 2

DESCRIPTION

Palm Valley Lift Station is a duplex, submersible lift station. Standby power is not provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD FT	FLOW GPM	FLOW MGD	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS FLOW
1	Flight	40	330	0.5		8.85	1.28	
2	Flight	40	330	0.5		9.85	1.28	
	INSTALLED CAPACITY		660	1.0				

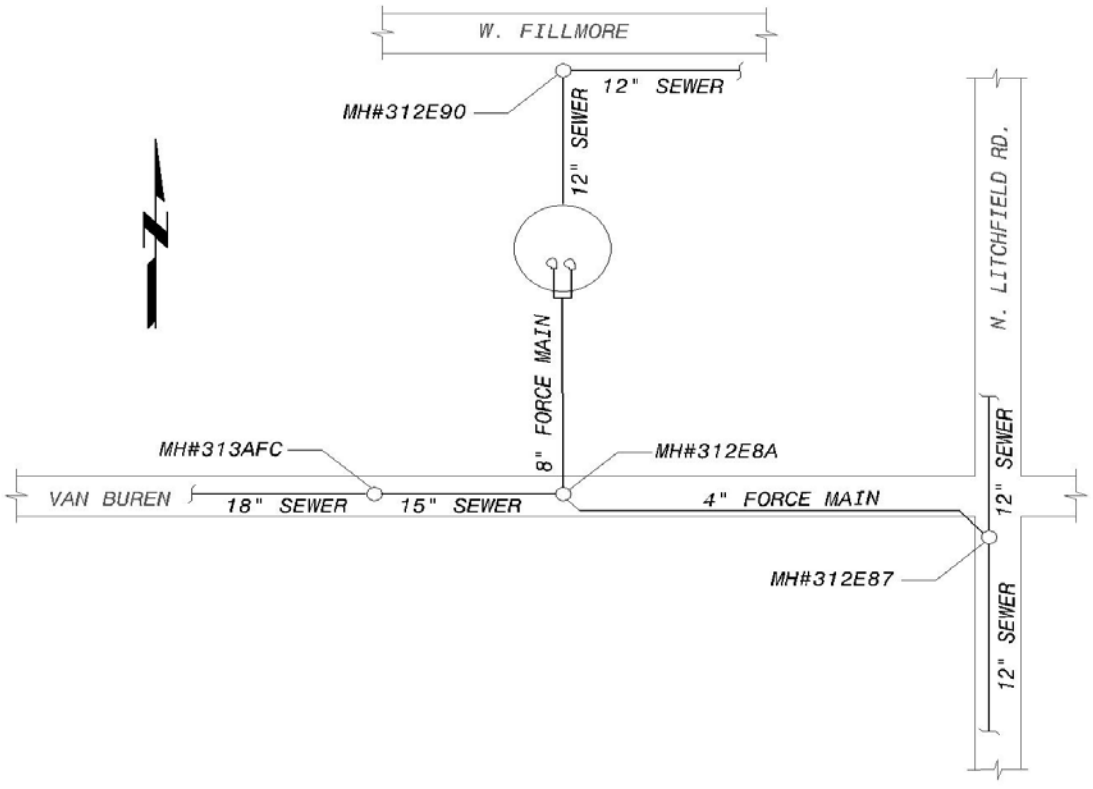
WETWELL

DEPTH FT	BASE EL. FT	DIAMETER FT	SCADA TAGS LEVEL
37	950.2	7	

FORCE MAIN

DISCHARGE INVERT FT	DIAMETER IN	LENGTH FT
982	8	979.8

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Rainbow Valley	WPA 3

LOCATION MAP

DESCRIPTION

Rainbow Valley Lift Station is a triplex, submersible lift station. Water is pumped to Rainbow Valley WWTP. Dual built forcemains for redundancy. Standby power is provided.

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Fairbanks Morse	109	1200	1.7	60			
2	Fairbanks Morse	136	2000	2.9	125			
3	Fairbanks Morse	136	2000	2.9	125			
INSTALLED CAPACITY			3200	4.6				

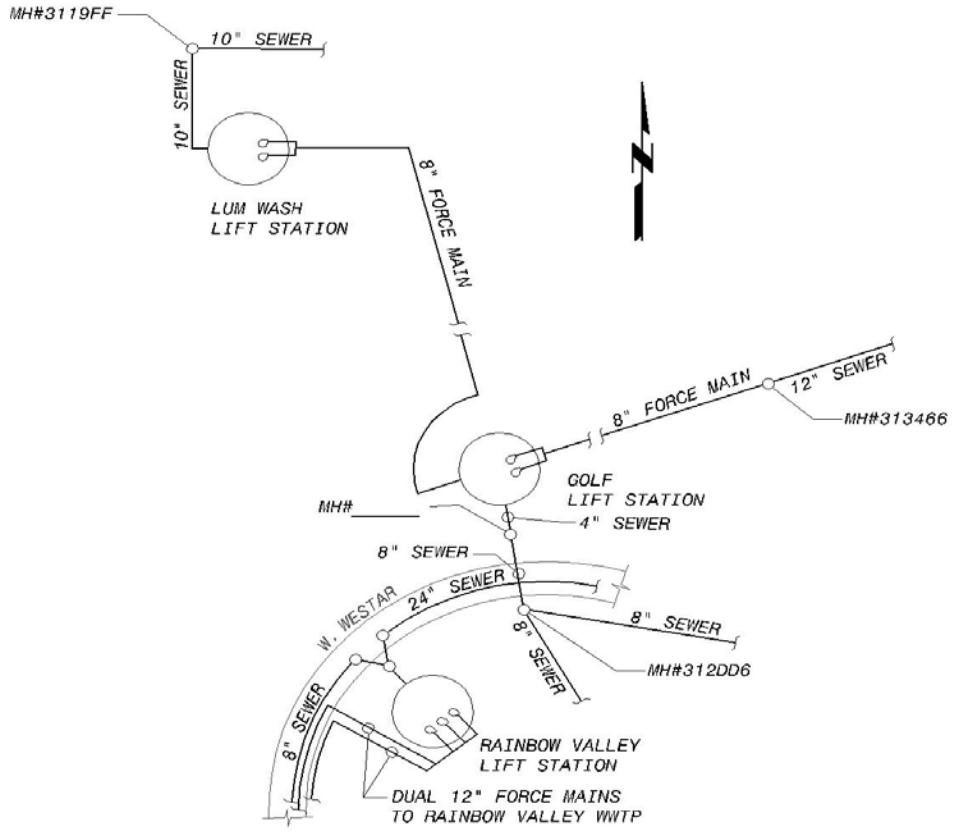
WETWELL

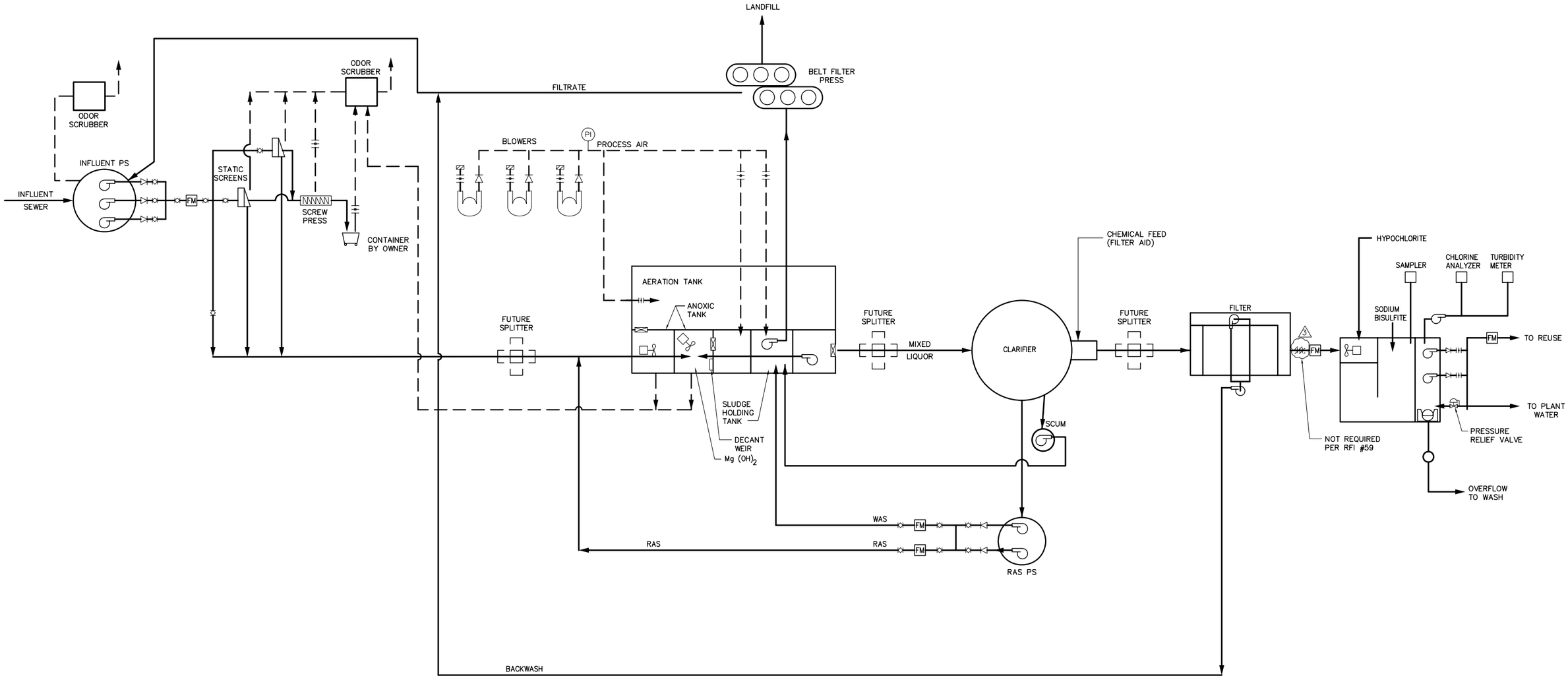
DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*

FACILITY SCHEMATIC





LEGEND

LIQUID/SOLIDS STREAM

GASEOUS STREAM

REVISIONS			
NO	DATE	BY	DESCRIPTION
1	01/04	PGH	SHEET RE-ISSUE
2	04/04	RLC	SHEET RE-ISSUE
3	10/04	AO	RECORD DRAWING CHANGES

File Name: RV1-G6-REC.dwg

Designed By: RRM

Drawn By: SAR, RLC

Checked By: JJG/RRM

DSWA
DAMON S. WILLIAMS ASSOCIATES, LLC

THIS DRAWING WAS ORIGINALLY SEALED AND SIGNED BY ROBERT R. McCANDLESS AZ PE (CIVIL) CERTIFICATE NO. 27301 ON 4/15/2004

RECORD DRAWING

This drawing reflects changes from the original contract drawing that were made during construction and has been prepared from information provided to the Engineer by the construction contractor(s). The Engineer does not warrant this drawing to be complete and accurate in all respects.

DAMON S. WILLIAMS ASSOCIATES
By: Sheba Hafiz, P.E.
April 2006

Goodyear
CITY OF GOODYEAR ARIZONA

RAINBOW VALLEY
WATER RECLAMATION FACILITY
PHASE ONE

GENERAL

PROCESS FLOW DIAGRAM

DSWA Project No 030210

Date APRIL 2004

RECORD DRAWING

Dwg No G-6

Sht No 6 of 94

Dwg File: U:\CADD\030210\DWG\RV1-G6-REC.dwg Modified: Apr 12, 2006 - 10:28am Plotted: Apr 13, 2006 - 10:42am

City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Wells Fargo 606 E. Van Buren	WPA 2

LOCATION MAP

DESCRIPTION

Wells Fargo Lift Station is a duplex, submersible lift station. Standby power is provided.

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	20	250	0.4		8	2	
2	Flight	20	250	0.4		9	2	
INSTALLED CAPACITY			500	0.7				

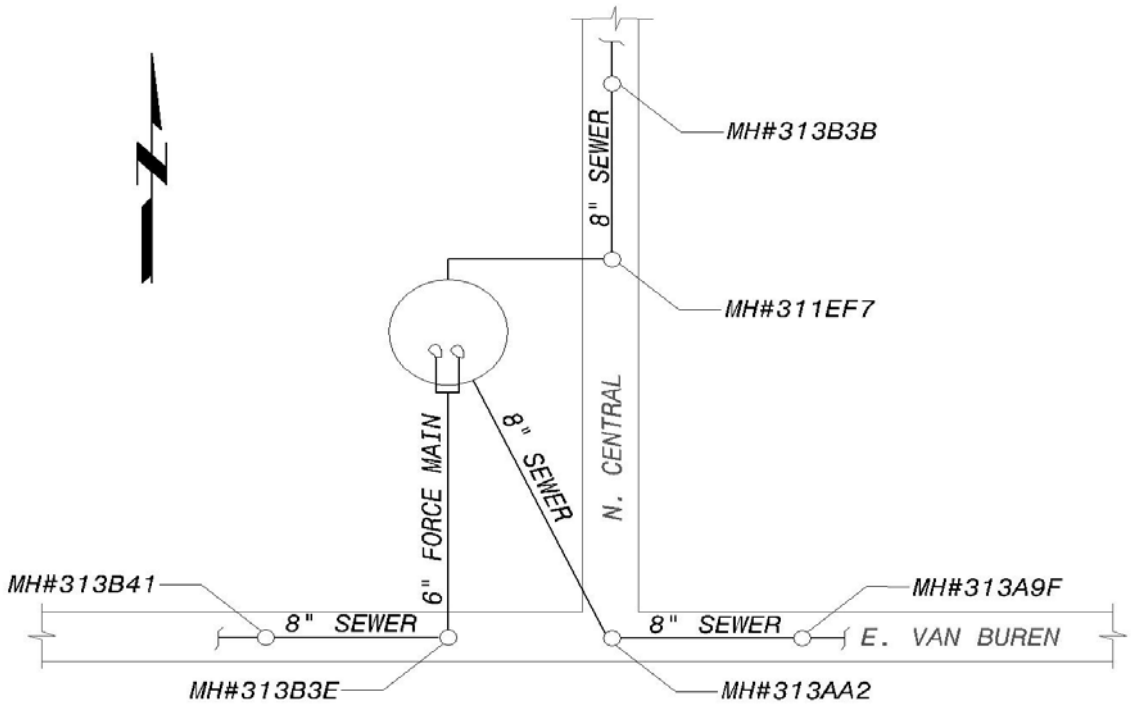
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
28.00	954.5	8	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
968.4	6	83.1

FACILITY SCHEMATIC



City of Goodyear

WASTE WATER SYSTEM FACILITY INVENTORY

NAME / ADDRESS	AREA
Rubbermaid 4559 S. Cotton Lane	WPA 2

DESCRIPTION

Rubbermaid Lift Station is a duplex, submersible lift station. Standby power is not provided.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Flight	20	220	0.3	3	6.5	1.5	
2	Flight	20	220	0.3	3	7	1.5	
	INSTALLED CAPACITY		440	0.6				

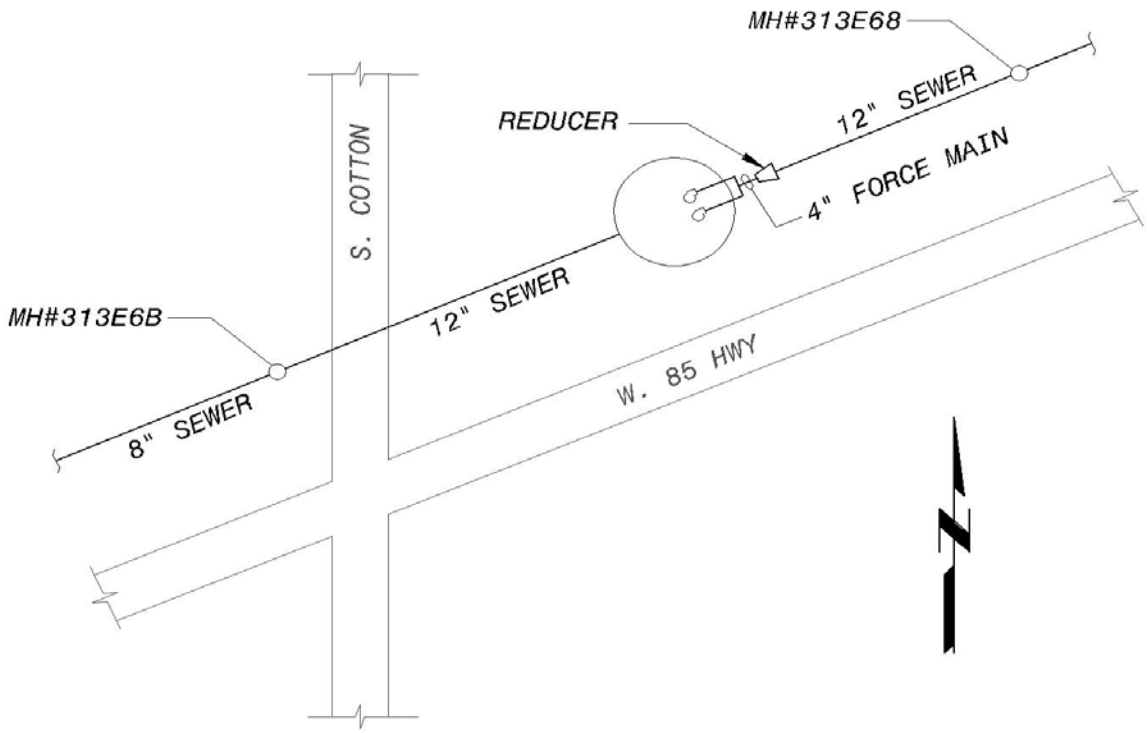
WETWELL

DEPTH	BASE EL.	DIAMETER	SCADA TAGS
FT	*FT*	*FT*	*LEVEL*
25	885.5	6	

FORCE MAIN

DISCHARGE INVERT	DIAMETER	LENGTH
FT	*IN*	*FT*
906	4	1.0

FACILITY SCHEMATIC



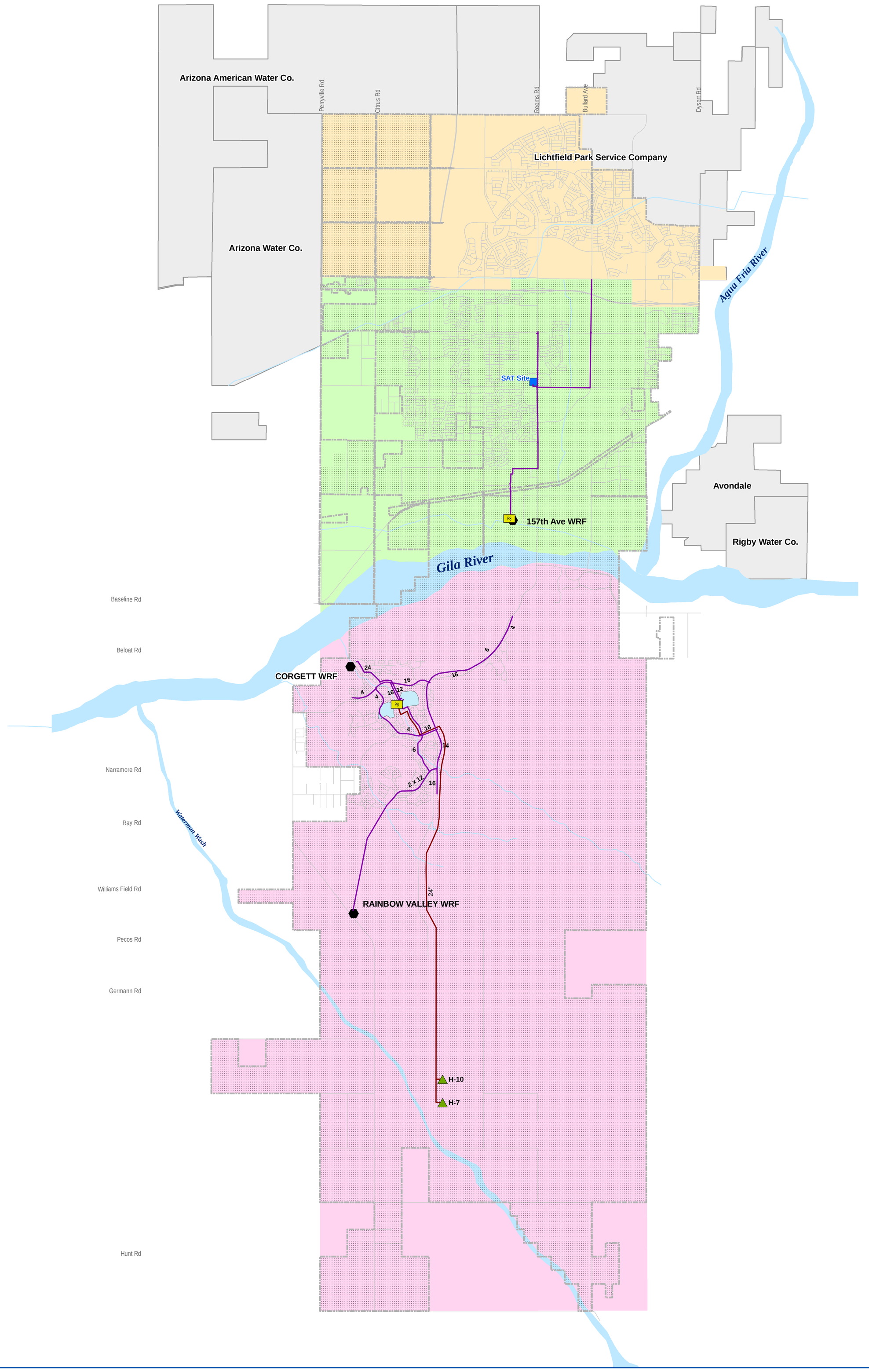
4.0 RECLAIMED WATER FACILITIES

Existing reclaimed water system facilities are inventoried in Table 4-1 and their locations are shown on Figure 3. The Inventory includes the following major components:

- Reclaimed Water Reservoirs
- Recharge/Recovery Facilities

Key information for each reclaimed water facility is summarized onto Facility Schematic sheets which provide:

- Facility Descriptions
- Equipment Capacity, Parameters and Settings
- Facility Schematic



LEGEND

- WRF
- SAT Site
- Wells
- Reclaimed Water Pumping Station
- Non-Potable System Main
- Ground Water Pipeline

1 inch equals 5,000 feet

Study/Planning Area

- North
- Central
- South
- City Limits
- Goodyear Water Service Area Boundary
- Other Service Providers (outside corporate limits)

Data source:
City of Goodyear GIS

Figure 3
TM1 - Facility Inventory
Reclaimed Water System

Integrated Water Master Plan
City of Goodyear, AZ
2006

Goodyear ARIZONA

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City of Goodyear

Reclaimed Water Infrastructure

RECLAIMED WATER PUMP STATIONS					
FACILITY LOCATION	**# OF PUMPS**	**HEAD**	**INSTALLED CAPACITY (MGD)**	**FIRM CAPACITY (MGD)**	**HP**
157TH Ave WWTP	6	180	5.0	4.2	40
Corget WRF	2	300	2.4	1.2	100
Rainbow Valley WRF	2	202	3.0	1.5	75
EMR Lakes	4	207	4.3	2.1	15-100

RECLAIMED WATER RESERVOIRS			
FACILITY LOCATION	**SURFACE AREA (ACRES)**	**ELEVATION**	**STORAGE VOLUME (AF)**
EMR Lakes	72.0	964	72

RECHARGE / RECOVERY			
FACILITY LOCATION	**TYPE**	**SURFACE AREA (ACRES)**	**RECHARGE CAPACITY (AF/YR)**
SAT Site	Percolation Bed	12.28	4,482

City of Goodyear

RECLAIMED WATER PUMP STATION FACILITY INVENTORY

NAME / ADDRESS	AREA
157th Ave WWTP	WPA 2

DESCRIPTION

Effluent wet well

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD *FT*	FLOW *GPM*	FLOW *MGD*	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS *FLOW*
1	Pearless	180	580	0.8	40			
2	Pearless	180	580	0.8	40			
3	Pearless	180	580	0.8	40			
4	Pearless	180	580	0.8	40			
5	Pearless	180	580	0.8	40			
6	Pearless	180	580	0.8	40			
	INSTALLED CAPACITY		3480	5.0				
	FIRM CAPACITY		2900	4.2				

FACILITY SCHEMATIC

City of Goodyear

RECLAIMED WATER PUMP STATION FACILITY INVENTORY

NAME / ADDRESS	AREA
Corget WRF	WPA 3

DESCRIPTION

Effluent wet well

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1	Floway	300	833	1.2	100			
2	Floway	300	833	1.2	100			
	INSTALLED CAPACITY		1666	2.4				
	FIRM CAPACITY		833	1.2				

FACILITY SCHEMATIC

City of Goodyear

RECLAIMED WATER PUMP STATION FACILITY INVENTORY

NAME / ADDRESS	AREA
Estrella Mountain Ranch Lakes Pump Station	WPA 3

DESCRIPTION

Pumps water from the EMR lakes into the irrigation system.

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD	FLOW		HP	ON	OFF	DISCHARGE SCADA TAGS
		FT	*GPM*	*MGD*		LEVEL (FT)	LEVEL (FT)	*FLOW*
1		207	237	0.3	15			
2		207	395	0.6	25			
3		207	790	1.1	50			
4		207	1579	2.3	100			
	INSTALLED CAPACITY		3000	4.3				
	FIRM CAPACITY		1422	2.0				

FACILITY SCHEMATIC

City of Goodyear

RECLAIMED WATER PUMP STATION FACILITY INVENTORY

NAME / ADDRESS	AREA
Rainbow Valley WRF	WPA 3

DESCRIPTION

Effluent wet well

LOCATION MAP

PUMPS

PUMP	MAKE	HEAD *FT*	FLOW *GPM*	FLOW *MGD*	HP	ON LEVEL (FT)	OFF LEVEL (FT)	DISCHARGE SCADA TAGS *FLOW*
1	Fairbanks Morse	202	1050	1.5	75			
2	Fairbanks Morse	202	1050	1.5	75			
	INSTALLED CAPACITY		2100	3.0				
	FIRM CAPACITY		1050	1.5				

FACILITY SCHEMATIC

DEMAND ANALYSIS
TECHNICAL MEMORANDUM NO. 1-2

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1.0 INTRODUCTION

The purpose of this memorandum (TM) is to develop water demand projections for the 2007 City of Goodyear Integrated Master Plan. Water demand projections consider the Study Area definition, the selected design period, historical and projected population, build-out land uses and an evaluation of water production, metered sales, and water demand records. Figure 1 presents the City Goodyear Vicinity Map.

1.1 STUDY AREA

The Study Area for this Master Plan is based upon the City of Goodyear's municipal planning area (MPA) as defined by the Maricopa County Association of Governments (MAG). To this, Black & Veatch has been directed to add surrounding areas that are currently pending and / or anticipated to be annexed by the City of Goodyear. Figure 2 presents the Study Area as well as other City of Goodyear related boundaries which include:

MAG Municipal Planning Area (MPA): The Municipal Planning Area (MPA) is established by Maricopa Association of Governments (MAG) and includes all of the existing corporate limits of the City and other adjacent areas that are anticipated to eventually fall within the corporate limits. MAG develops MPA projections of population, housing and employment for their member agencies.

City of Goodyear Municipal Planning Area: The Municipal Planning Area as defined by the City of Goodyear is similar to the MAG MPA and is subdivided into four Water Planning Areas (WPA 1 thru WPA 4). This concept of sub-division into smaller, WPAs will be applied to the Study Are for the master planning project.

Corporate Boundary: The City of Goodyear's corporate boundary as shown on Figure TM2-2 currently falls within the MPA and Study Area boundaries, leaving pocket of unincorporated land. For the purpose of this study it is assumed that these lands will be annexed into the City by buildout.

Water Service Area: The area within the certificated City of Goodyear Water Service Area. For the purposes of this study, the water service area will continue to be subdivided into smaller WPAs to include or cover the entire Study Area.

Luke Air Force Base
Glendale
Litchfield Park
Glendale
Paradise Valley
Salt River Indian Reservation
Scottsdale
Buckeye-National Guard Target Range
Tolleson
Buckeye
Phoenix
Mesa
Tempe
Gila River
Guadalupe
Gilbert
Avondale
Goodyear
Chandler
Williams Air Force Base (Closed)
Buckeye
Queen Creek
Sierra Estrella Wilderness
Sun Lakes
Hohokam Pima National Monument
Gila River Indian Reservation
Woolsey Peak Wilderness
Santan
North Maricopa Mountains Wilderness
Maricopa
Blackwater
Maricopa Indian Reservation
Ak-Chin Village
Gila Bend Indian Reservation
Casa Grande Ruins National Monument
Gila Bend
Gila Bend
South Maricopa Mountains Wilderness
Casa Grande
Stanfield
Table Top Wilderness

/

1 inch equals 31,250 feet

Data Sources:
City of Goodyear GIS

Legend

- Master Plan Study Area
- Pending Sonoran Valley Annexation Phase1
- Pending Sonran Valley Annexation Phase2

Major Roads

- Limited Access
- Highways
- Secondary Roads
- Other
- Highway Ramp
- City of Goodyear

Places

- Ak-Chin Village
- Arizona City
- Avondale
- Blackwater
- Buckeye
- Casa Grande
- Chandler
- Chuichu
- El Mirage
- Fountain Hills
- Gila Bend
- Gilbert
- Glendale
- Goodyear
- Guadalupe
- Litchfield Park
- Maricopa
- Mesa
- Paradise Valley
- Peoria
- Phoenix
- Queen Creek
- Sacaton
- Santan
- Scottsdale
- Stanfield
- Sun City
- Sun Lakes
- Surprise
- Tempe
- Tolleson
- Youngtown

Federal Lands

- BIA
- BLM
- DOD
- NPS

Figure 1
Vicinity Map

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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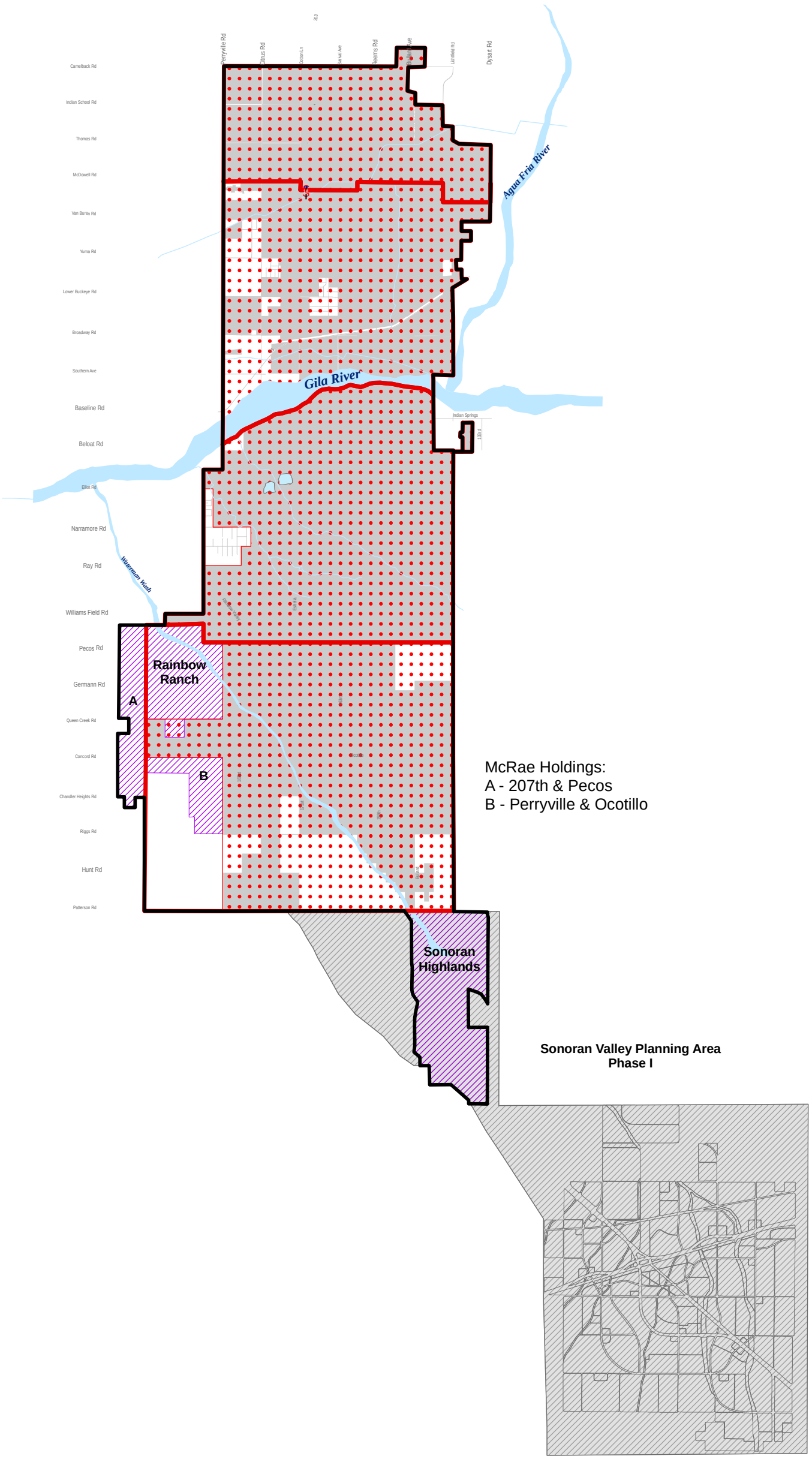

Legend

- Master Plan Study Area
- Municipal Planning Area (MAG)
- Municipal Planning Area (COG)
- Planning Area Extensions (COG)
- City Limits
- Pending Sonoran Valley Annexation

1 inch equals 15,833 feet

Data sources:
City of Goodyear GIS
RBF Consulting

Figure 2
Study Area

Integrated Water Master Plan
City of Goodyear, AZ
2007

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Sonoran Valley Planning Area: In 2006 the City proposed the annexation of the 60,000 acres south of the existing Goodyear Planning Area, commonly referred to as the Sonoran Valley Planning Area. The Sonoran Valley Planning Area consists of Arizona State Land (5,310 acres), private ownership (24,236 acres), and BLM Lands (31,358 acres). At this time Black & Veatch has been directed to only include the Arizona State Land portion, commonly referred to as the "South 5,300" in the planning efforts associated with this Master Plan.

Black & Veatch has been directed by the City to include several proposed developments in the Study Area that are currently located outside of the existing City of Goodyear Planning Area, which are also shown on Figure 2. It is anticipated that there will be additional General Plan Amendments which will continually modify the existing General Land Use Plan, however those changes will be addressed in future studies.

For the purposes of this Master Plan the Study Area is divided into five main Water Planning Areas (WPAs), WPA-1 through WPA-5, which are shown in Figure 3 and can be generally described as follows:

- WPA-1 is often referred to as the Northern Planning Area. It is outside of the City's certificated water service area and is served by utilities other than the City of Goodyear for water services.

- WPA-2 is often referred as the Central Planning Area and is bounded by Interstate 10 in the North, and the Gila River to the South.

- WPA-3 and WPA-4 are often referred to as the South Planning Area which extends South of the Gila River to North of Patterson Road. WPA-4 is also commonly referred to as Rainbow Valley or Hidden Valley.

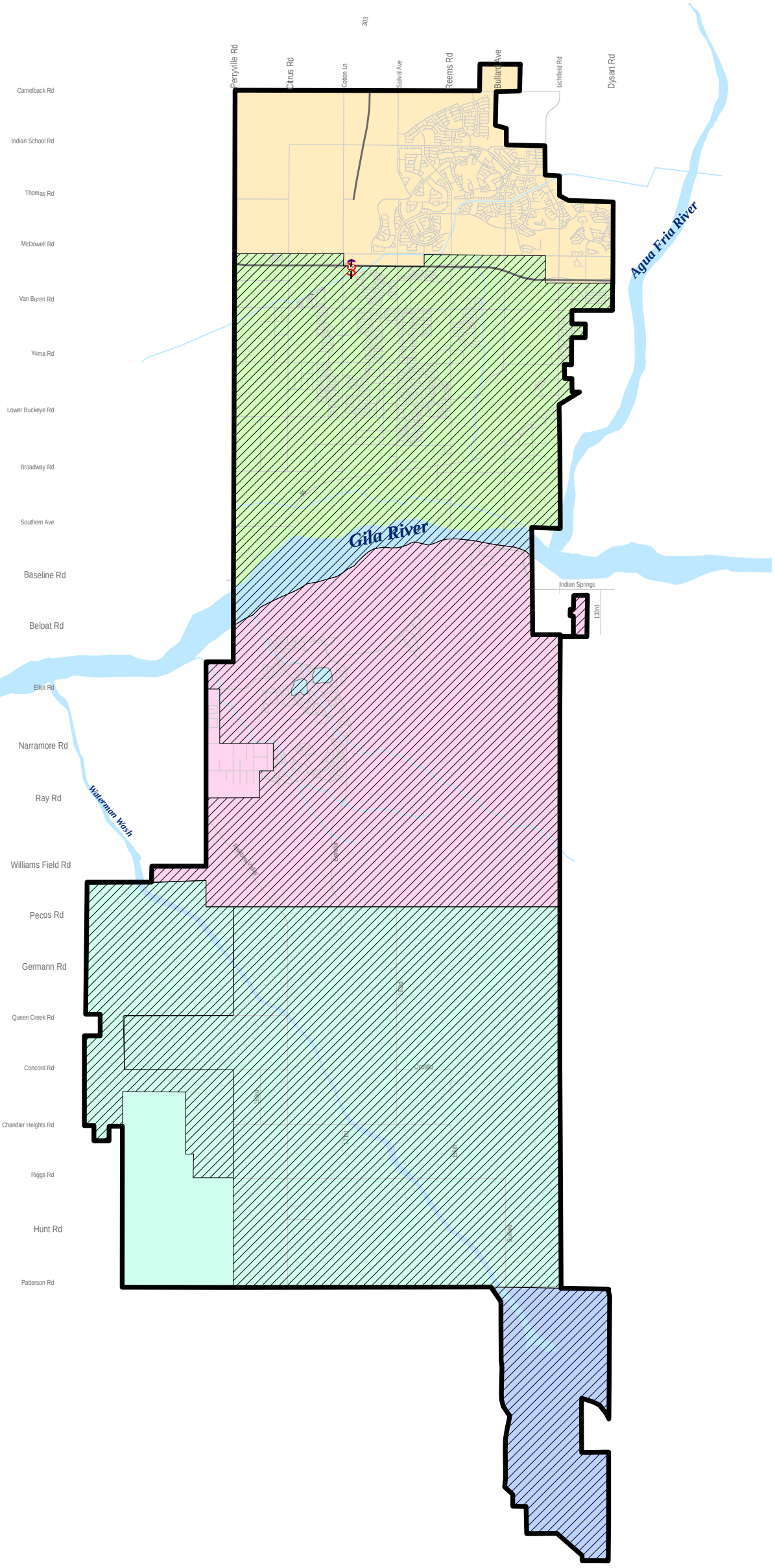
- WPA-5 is a new WPA created to address the northern portion of the Sonoran Valley Planning Area.

1.2 DESIGN YEARS AND METHODOLOGY

Projected water demands were developed for this study for the base year (2007) and intermediate years of 2012 and 2017 with buildout projected to occur in 2045. Year 2007 annual average day (AAD) water demands are referred to as the "base year" and represent the current level of water demand. Base year AAD demands are calculated from the production records for the period of

January 2006 through December 2006, and are then projected forward at the current rate of growth to establish the base year demands.

Buildout AAD water demands are based on the revised General Land Use Plan. Design unit rates are multiplied by the projected acres for each land use type, plus a design allowance for unaccounted-for water to calculate the build-out average day water demands. Year 2012 and 2017 (intermediate years) were projected by an interpolation between base year and buildout projections.



Legend

Water Planning Area

- WPA 1
- WPA 2
- WPA 3
- WPA 4
- WPA 5

- Master Plan Study Area
- Build Out Water Service Area

1 inch equals 12,092 feet

Data sources:
City of Goodyear GIS
RBF Consulting

Figure 3
Water Planning Areas & Build Out Water Service Area

Integrated Water Master Plan
City of Goodyear, AZ
2007

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2.0 POPULATION AND LAND USE

The City's historical population data and the City's General Land Use Plan were analyzed in order to establish current growth rates and then project build-out population and dwelling units.

Base Year Projections (2007) – Base year projections were developed from an analysis of historical data. Historical data was obtained from Maricopa Association of Governments (MAG) for historical years 1990 and 2000 through 2005 which are presented in Table 1.

Table 1: Historical City of Goodyear Population

Year	Population	Dwelling Units	Incremental DU/year	Occupancy (Per./DU)	Growth Rate (Annual Percent)
1990	6,300	2,371		2.66	
2000	19,605	7,056	469	2.78	**12.02%**
2001	22,820	8,372	1,316	2.73	16.40%
2002	26,715	10,002	1,630	2.67	17.07%
2003	30,290	11,555	1,553	2.62	13.38%
2004	35,810	13,564	2,009	2.64	18.22%
2005	41,240	15,706	2,142	2.63	15.16%
			2000-2005 Average	**2.68**	**16.05%**
			Planning Values	**2.65**	**16.00%**

It can be seen from Table 1 that the City experienced a 12% annual growth rate between 1990 and 2000 which has since increased to 16% from 2000 to 2005.

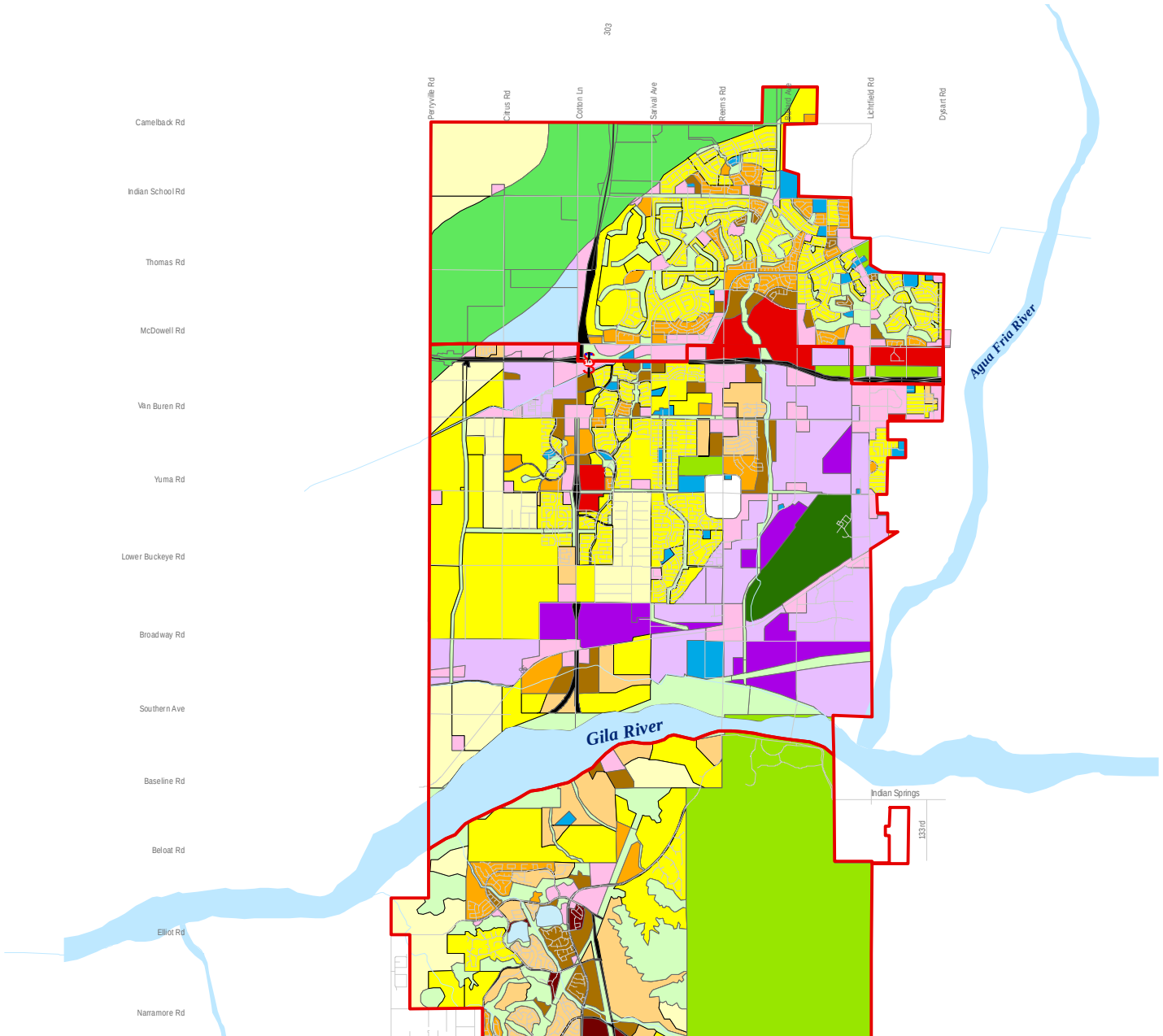
The City's Economic Development Department is anticipating that the City will continue to experience a growth rate of 16% and has directed Black & Veatch to use this through 2015. The City has also directed Black & Veatch to use an occupancy factor of 2.65.

Buildout Projections - The City provided Black and Veatch with GIS shapefiles of the approved *2003 General Land Use Plan* which provided buildout land uses and acreages for the City's incorporated area. The *2003 General Land Use Plan* is shown on Figure 4 and the corresponding land use acreages are summarized in Table 2. The total Dwelling Units at buildout are projected by assuming that the Target Density achieved for each class of residential land use is the average density of the allowable range.

Table 2: 2003 General Plan Build-out Land Use

LAND USE CATEGORY	Target Density	2003 General Plan Land Use[1]	Dwelling Units
	(du/ac)	(Acres)	(D.U.)
RESIDENTIAL			
Single-Family Residential			
Agricultural Preservation (1 du/ac)	1	929	929
Rural (0-2 du/ac)	1	19,756	19,756
Low Density (2-4 du/ac)	3	17,052	51,156
Low-Medium Density (4-6 du/ac)	5	7,072	35,360
Multi-Family Residential			
Medium Density (6-10 du/ac)	8	2,492	19,936
Medium-High Density (10-20 du/ac)	15	2,042	30,630
High Density Residential (20+ du/ac)	25	712	17,800
NON RESIDENTIAL			
Employment			
Community Commercial		3,911	
Regional Commercial		686	
Luke Compatible Land Use Area		2,787	
City Center / Village Center		173	
Light Industrial		5,181	
General Industrial		1,305	
Support			
Public / Quasi Public		570	
Prison		427	
Airport		796	
Parks		10,356	
Roads		1,501	
Open Space		8,652	
Total Acreage		**86,400**	**175,567**

Notes:
1. Area summary by land use found in the gy_landuse gis files for the 2003 General Plan check this with Christina.



Legend

LANDUSE

- Rural Residential (0-2.0 DU/AC)
- Low Density Residential (2.0-4.0 DU/AC)
- Low - Medium Density Residentail (4.0 - 6.0 DU/AC)
- Medium Density Residential (6.0-10.0 DU/AC)
- Medium - High Density Residential (10-20 DU/AC)
- High Density Residential
- Airport
- Agricultural Preserve
- Community Commercial
- City Center
- General Industrial
- Luke Compatible Land Use Area
- Light Industrial
- Open Space
- Park
- Public/Quasi Public
- Prison
- Regional Commercial
- Road
- VCO
- Municipal Planning Boundary

1 inch equals 11,166 feet

Data source:
Carollo 2006 Hydraulic Model
City of Goodyear GIS

Figure 4
Landuse Map 2003
General Plan

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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2003 General Plan Land Use Modifications - The City's Land Use Plan, as contained in the *2003 General Plan* will be the basis for the demographics and buildout projections that are to be used within this Master Plan. However, changes brought about by recent and pending General Plan amendments and / or anticipated annexations were incorporated in the master planning process to better represent the City's planned course of development. Modifications to the General Plan Land Use Plan are described in the following sections:

Approved General Plan Amendments. General Plan Amendments include those developments that are located within the City's Municipal Planning Area but have modified the *2003 General Land Use Plan* to reflect current development plans. Those developments include:

- Kings Ranch
- WESTPAC
- Rainbow Ranch

Pending Land Use Plan General Plan Amendments. The City provided Black and Veatch with information regarding several proposed developments in the Southern Planning Areas which differ significantly from the current zoning and for which General Plan Amendments are pending or anticipated. These developments include:

- Rainbow Valley
- McRae Holdings (South Goodyear and Perryville & Ocotillo)
- Madeira

Planning Area Extensions. The City has directed Black & Veatch to incorporate proposed development plans for the following areas which are currently outside of the City Current Municipal Planning Area:

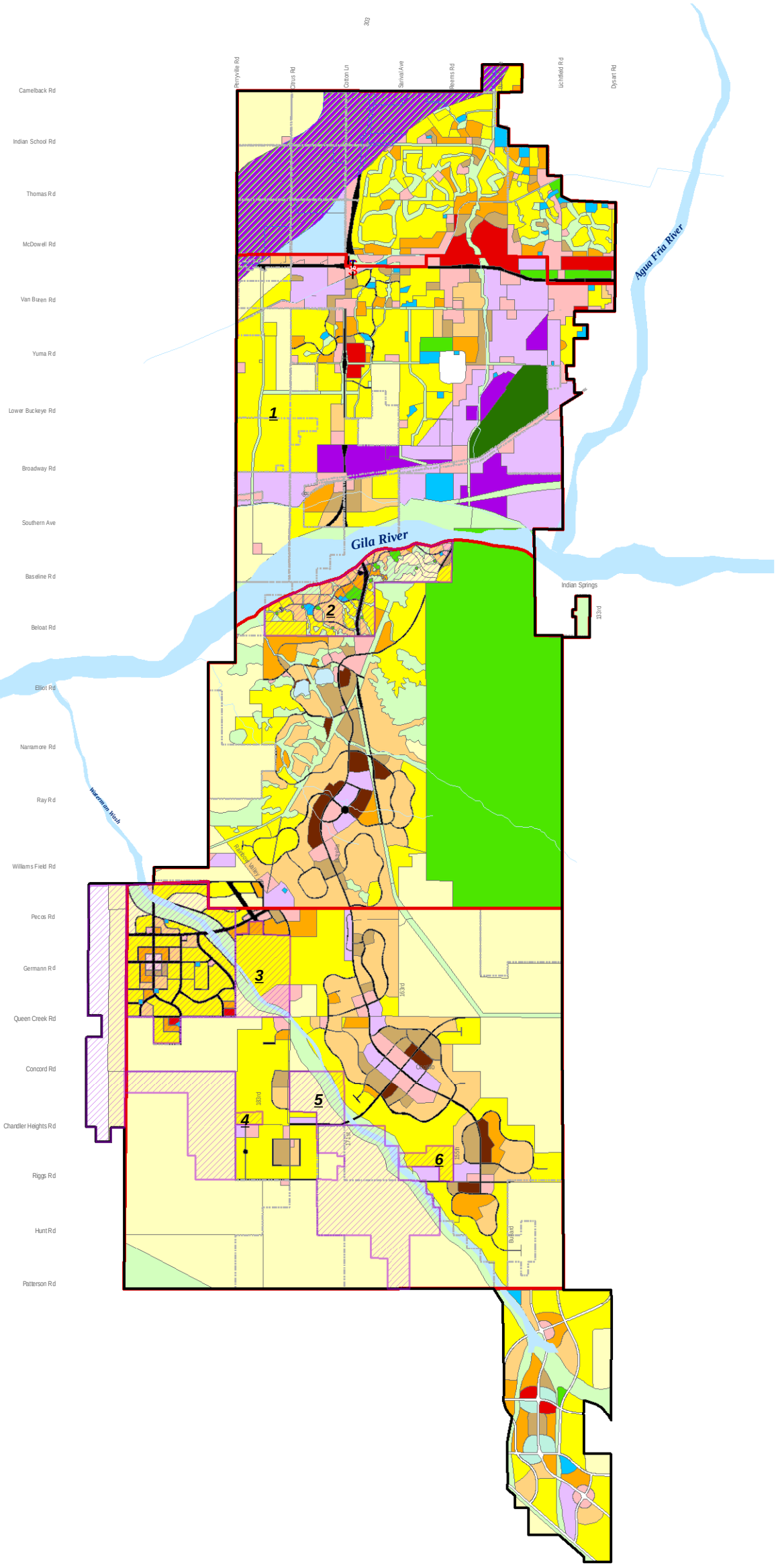
- Sonoran Highlands (South 5,300)
- McRae Holdings (207th & Pecos)

Luke Compatible Land Use. The City has directed Black & Veatch to assume the Luke Compatible Land Use located within WPA-1 will be Low-Medium Density Residential Dwelling Units.

Projected Turf Acreages. Based on an analysis of the typical number and sizes of parks and golf courses for a City at buildout, the buildout land use acreages were adjusted to account for turf related land uses that were not previously accounted for in un-developed areas, specifically WPA 3-WPA 5. These modifications were only completed to the tables and were not incorporated into the land use shapefiles and / or figures. The following adjustments were made:

- In WPA 3, 388 acres for parks and 95 acres for golf course were added. 483 acres was then subtracted from rural residential.
- In WPA 4, 956 acres for parks and 1,126 acres for golf course were added. 2,082 acres was then subtracted from rural residential.
- In WPA 5, 137 acres for parks and 175 acres for golf course were added. 312 acres was then subtracted from rural residential.

The revised Land Use Plan used in this Master Plan is shown on Figure 5 and the corresponding land use acreages and buildout dwelling units are summarized in Table 3. Based on observed development trends, the large parcels of land located in the southern portions of the Study Area are anticipated to have higher unit densities than the average of 1 DU / acre therefore; a target density of 2 dwelling units per acre was assumed for all Rural Residential land uses in WPA 4.



Developments:
1 - Westpac
2 - King's Ranch
3 - Rainbow Valley
4-6 - McRae Holdings

/

1 inch equals 12,504 feet

Data source:
Carollo 2006 Hydraulic Model
City of Goodyear GIS

LANDUSE

- Rural Residential (0-2.0 DU/AC)
- Low Density Residential (2.0-4.0 DU/AC)
- Low - Medium Density Residentail (4.0 - 6.0 DU/AC)
- Medium Density Residential (6.0-10.0 DU/AC)
- Medium - High Density Residential (10-20 DU/AC)
- High Density Residential
- Airport
- Agricultural Preserve
- Community Commercial
- City Center
- General Industrial
- Luke Compatible Land Use Area
- Light Industrial
- Open Space
- Park
- Public/Quasi Public
- Prison
- Regional Commercial
- Road
- VCO

DEVELOPMENTS

- NewDevelopments 2007

Figure 5
Landuse Map 2007
Revised General Plan

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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Table 3: Revised Study Land Use

LAND USE CATEGORY	Target Density	Revised Study Area Land Use	Dwelling Units
	(du/ac)	(Acres)	(DU)
RESIDENTIAL			
Single-Family Residential			
Agricultural Preservation (1 du/ac)	1	0	0
Rural (0-2 du/ac) (WPA1-WPA3 , WPA5)	1	5,337	5,337
Rural (0-2 du/ac) (WPA4)	2	16,979	33,958
Low Density (2-4 du/ac)	3	26,758	80,273
Low-Medium Density (4-6 du/ac)	5	8,012	40,062
Multi-Family Residential			
Medium Density (6-10 du/ac)	8	4,450	35,601
Medium-High Density (10-20 du/ac)	15	1,447	21,706
High Density Residential (20+ du/ac)	25	908	22,699
NON RESIDENTIAL			
Employment			
Community Commercial		4,393	
Regional Commercial		914	
Luke Compatible Land Use Area		0	
City Center / Village Center		305	
Light Industrial		4,429	
General Industrial		1,339	
Support			
Public / Quasi Public		1,565	
Prison		427	
Airport		796	
Parks		12,967	
Roads		3,484	
Open Space		13,506	
Total Acreage		**108,232**	**239,636**

Notes:
1. Area summary by land use from projected land use as modified in land use GIS file Landuse.

It can be seen that the Study Area acreage has increased by 21,832 acres to 108,232 and buildout dwelling units have increased by 64,069 units to 239,636 DU. The revised Land Use Acreages and target densities presented in Table 3 then formed the basis for the development of the Study Area buildout dwelling unit projections. Buildout population projections were calculated by applying the design occupancy rate of 2.65 people per

dwelling unit to the residential land use. The resulting population at buildout is projected to reach 635,035 units by 2045.

Projected Growth Curve. In order to develop intermediate year projections, a curve was developed showing the anticipated path that growth would follow from Base Year to Buildout. Table 4 and Figure 6 show the projected growth curve for the City of Goodyear based upon applying a typical "S" curve pattern for municipal growth which consists of the following segments:

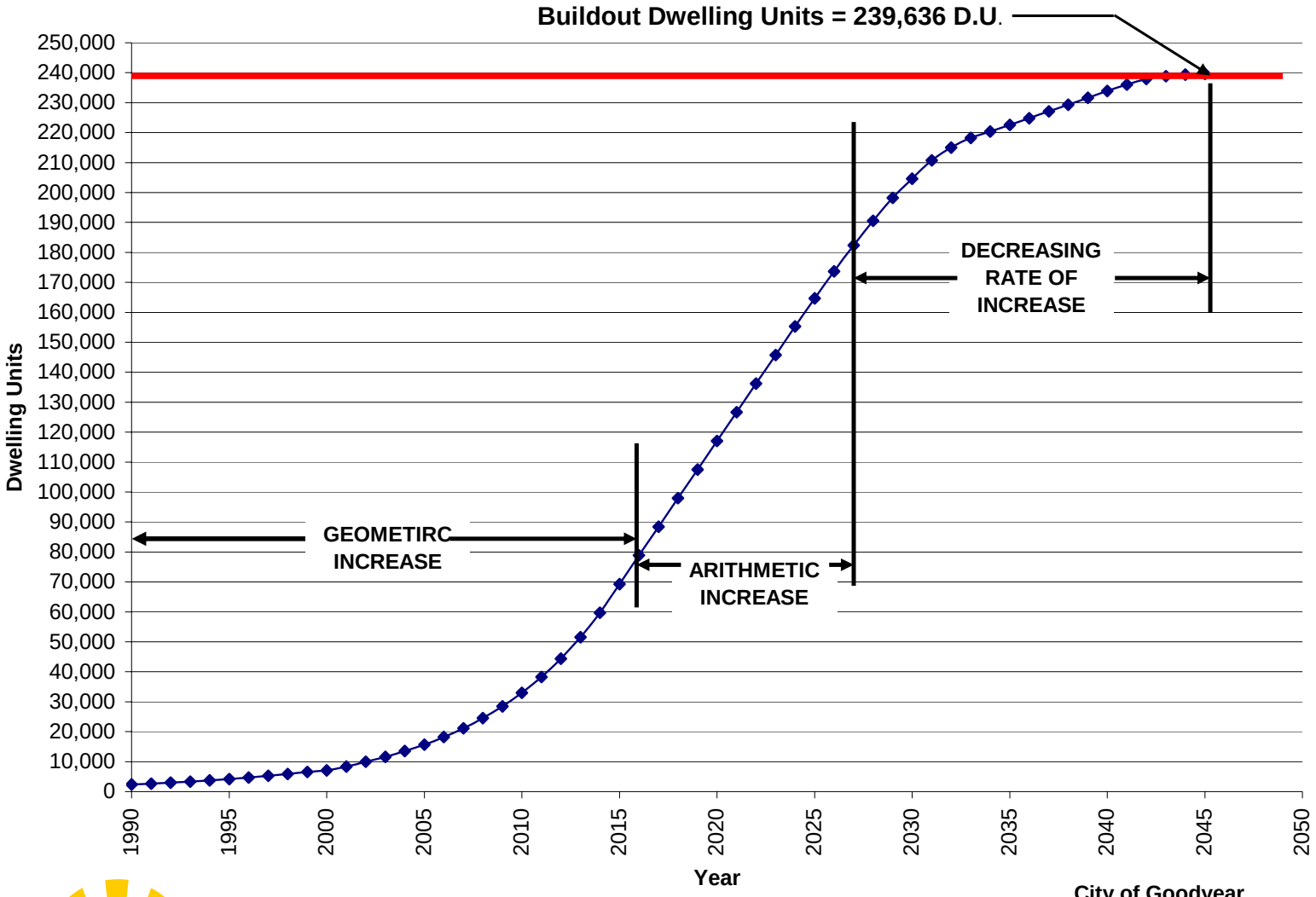
- Geometric Increase: This upward curving portion of the curve is characterized by geometric growth where each year grows by a given percent over the previous year. Analysis of the recent historical record (from 2005 to 2015) shows the City to be growing at a rate of 16 percent per year. The City has directed Black & Veatch to assume that this rate will continue for another ten years, through 2015. As shown in Table 4, the City will be adding 9,557 du/yr by the end of the geometric growth period, up from the current 2,513 du/yr.
- Arithmetic Growth: Throughout the middle years, growth is typically characterized by a constant increment of growth instead of a constant rate. The resulting straight-line portion of the curve was generated by applying the incremental growth of 9,557 du/yr; reached at the end of the geometric increase period, for a 10-year period until 2025.
- Decreasing Rate of Increase: As a city approaches buildout, the growth curve typically tapers off and can be characterized by a decreasing rate of increase. Table 4 shows the increment of growth declining steadily from the nearly 10,000 du/yr to a few hundred per year as buildout is reached. After 20 years, this reverse portion of the "S" curve can be seen to reach the projected buildout level in 2045, which is assumed to be the buildout year for the purposes of this master plan.

For planning purposes it is assumed that commercial development growth will develop at the same rate as residential development. In actuality commercial development typically lags residential by a small percentage.

WPA Buildout Projections – It is assumed that development will not occur evenly over the Study Area with some of the WPA achieving buildout sooner than others. Based on current development trends within the City, buildout projections for each of the five WPAs were developed which are presented on Figure 7.

Table 4: City of Goodyear Study Area Projections (2007-2045)

Year	Source	Population	Dwelling Units	Incremental DU/year	Occupany (Per./DU)	Growth Rate
1990	MAG	6,300	2,371		2.66	
2000	MAG	19,605	7,056	469	2.78	12.02%
2001	MAG	22,820	8,372	1,316	2.73	16.40%
2002	MAG	26,715	10,002	1,630	2.67	17.07%
2003	MAG	30,290	11,555	1,553	2.62	13.38%
2004	MAG	35,810	13,564	2,009	2.64	18.22%
2005	MAG	41,240	15,706	2,142	2.63	15.16%
2000-2005 Average					**2.68**	**16.05%**
PROJECTED						
2006		48,280	18,219	2,513	2.65	16.00%
2007		56,005	21,134	2,915	2.65	16.00%
2008		64,966	24,515	3,381	2.65	16.00%
2009		75,360	28,438	3,922	2.65	16.00%
2010		87,418	32,988	4,550	2.65	16.00%
2011		101,405	38,266	5,278	2.65	16.00%
2012		117,630	44,389	6,123	2.65	16.00%
2013		136,451	51,491	7,102	2.65	16.00%
2014		158,283	59,729	8,239	2.65	16.00%
2015		183,608	69,286	9,557	2.65	16.00%
2016		208,933	78,843	9,557	2.65	13.79%
2017		234,258	88,399	9,557	2.65	12.12%
2018		259,584	97,956	9,557	2.65	10.81%
2019		284,909	107,513	9,557	2.65	9.76%
2020		310,234	117,069	9,557	2.65	8.89%
2021		335,559	126,626	9,557	2.65	8.16%
2022		360,884	136,183	9,557	2.65	7.55%
2023		386,210	145,740	9,557	2.65	7.02%
2024		411,535	155,296	9,557	2.65	6.56%
2025		436,227	164,614	9,318	2.65	6.00%
2026		460,220	173,668	9,054	2.65	5.50%
2027		483,231	182,351	8,683	2.65	5.00%
2028		504,976	190,557	8,206	2.65	4.50%
2029		525,175	198,179	7,622	2.65	4.00%
2030		542,243	204,620	6,441	2.65	3.25%
2031		558,510	210,759	6,139	2.65	3.00%
2032		569,681	214,974	4,215	2.65	2.00%
2033		578,226	218,198	3,225	2.65	1.50%
2034		584,008	220,380	2,182	2.65	1.00%
2035		589,848	222,584	2,204	2.65	1.00%
2036		595,747	224,810	2,226	2.65	1.00%
2037		601,704	227,058	2,248	2.65	1.00%
2038		607,721	229,329	2,271	2.65	1.00%
2039		613,798	231,622	2,293	2.65	1.00%
2040		619,936	233,938	2,316	2.65	1.00%
2041		625,516	236,044	2,105	2.65	0.90%
2042		630,520	237,932	1,888	2.65	0.80%
2043		633,042	238,884	952	2.65	0.40%
2044		634,308	239,362	478	2.65	0.20%
2045		635,035	239,636	274	2.65	0.11%

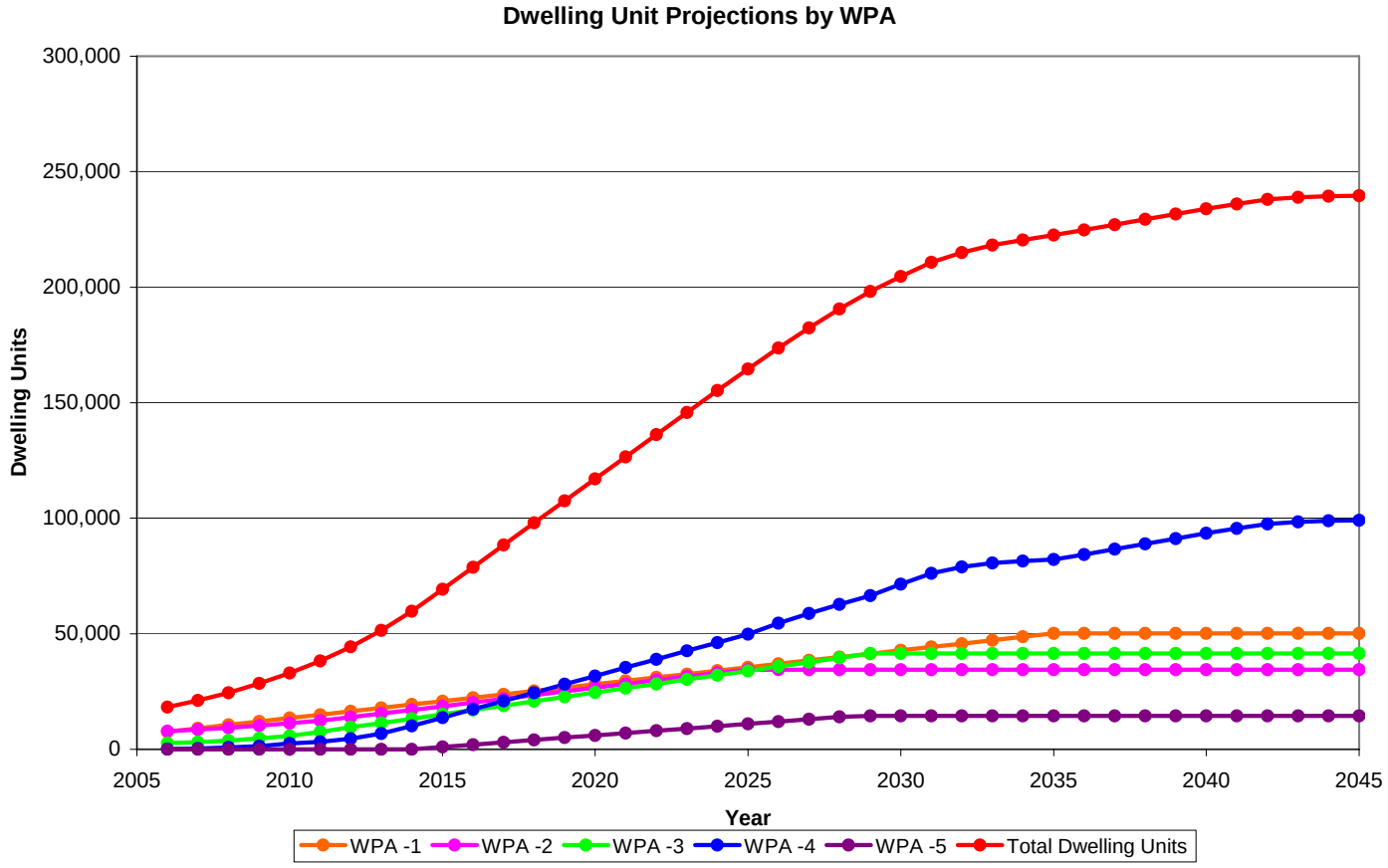


City of Goodyear
2007 Integrated Master Plan

Figure 6
IWMP Buildout Dwelling Unit Projections

Figure 7: City of Goodyear - IWMP
Dwelling Unit Projection Curves for Water Planning Areas (WPAs)

WPA	2006	2007	2010	2012	2015	2017	2020	2025	2030	2035	2040	2045
1	7,634	9,100	13,498	16,430	20,828	23,760	28,158	35,488	42,818	50,151	50,151	50,151
2	7,852	8,552	11,252	13,852	18,652	21,852	26,652	34,412	34,412	34,412	34,412	34,412
3	2,642	3,142	5,737	9,495	15,132	18,890	24,527	33,922	41,452	41,452	41,452	41,452
4	91	340	2,501	4,612	13,674	20,898	31,733	49,792	71,486	82,116	93,471	99,168
5	0	0	0	0	1,000	3,000	6,000	11,000	14,452	14,452	14,452	14,452
Total	**18,219**	**21,134**	**32,988**	**44,389**	**69,286**	**88,399**	**117,069**	**164,614**	**204,620**	**222,584**	**233,938**	**239,636**



3.0 HISTORICAL WATER USE

A water utility must be able to supply water in response to demands that fluctuate over a wide range. Yearly, monthly, daily, and hourly variations in water use occur, with higher use during dry years and in hot months. Also, water use typically follows a diurnal pattern, being low at night and peaking in the early morning and late afternoon hours. The rates most important to the hydraulic design and operation of a water production infrastructure and distribution system are annual average day (AAD), maximum day (MD), and maximum hour (MH). Analysis of historical water production pattern also provides seasonal peaking factors used to properly size water production infrastructure to meet seasonal variations in demands.

3.1 DATA SOURCES

The City provided the following historical water use data:

- Production 2001 through Production 2006.xls - MS Excel spreadsheet showing total annual production broken out by source for 2001 through 2006.
- SUMMARY2001 thru SUMMARY2005 – MS Excel spreadsheet showing annual summaries of consumption broken down by user class (residential, commercial etc)
- volumebyyearclassJANTHRUJUN04.xls – MS Excel spreadsheet showing residential meter water sales by class from 01/04 through 06/04.
- volumebyyearclassJULYTODEC04.xls – MS Excel spreadsheet showing residential meter water sales by class from 07/04 through 12/04.
- volumebyyear04commercial.xls – MS Excel spreadsheet showing commercial meter water sales by class from 01/04 through 12/04.

3.2 HISTORICAL WATER REQUIREMENTS

Historical water production by source was available in the annual Water Production Reports for years 2001 through 2006. Detailed yearly water production data is provided in Appendix A. Historical annual average day (AAD) water production for the City was calculated from this data, and is summarized in Table 5.

Table 5: Historical Annual Finished Water Production

Year	City Wells (ac-ft)	LPSCO (ac-ft)	Total Finished Water Production (AAD) (ac-ft)	City Wells (mgd)	LPSCO (mgd)	Total Finished Water Production (AAD) (mgd)
2001	3,289	0	3,289	2.94	0	2.94
2002	3,629	0	3,629	3.24	0	3.24
2003	3,730	526	4,256	3.33	0.47	3.80
2004	4,525	627	5,148	4.04	0.56	4.60
2005	5,790	594	6,389	5.17	0.53	5.70
2006	6,619	728	7,352	5.91	0.65	6.56

Maximum day demand is the maximum quantity of water used on any one day of the year. The maximum day rate is used to size water production facilities (Wells and Treatment Plants) which must have sufficient capacity to refill water storage reservoirs following a maximum day. The raw water facilities must be adequate to supply water at the maximum day rate, and the treatment facilities must be capable of processing this quantity of water. Historical maximum day production was extrapolated from the annual Water Production Reports provided by the City and are summarized in Table 6.

Table 6: Historical Maximum Day Water Demands

Year	Demand Ratios		
	AD (mgd)	MD (mgd)	MD/AD
2001	2.94	5.00	1.70
2002	3.24	4.95	1.53
2003	3.80	6.58	1.73
2004	4.60	7.68	1.67
2005	5.70	9.93	1.74
2006	6.56	10.77	1.64
		Average	**1.67**
		Design	**1.70**

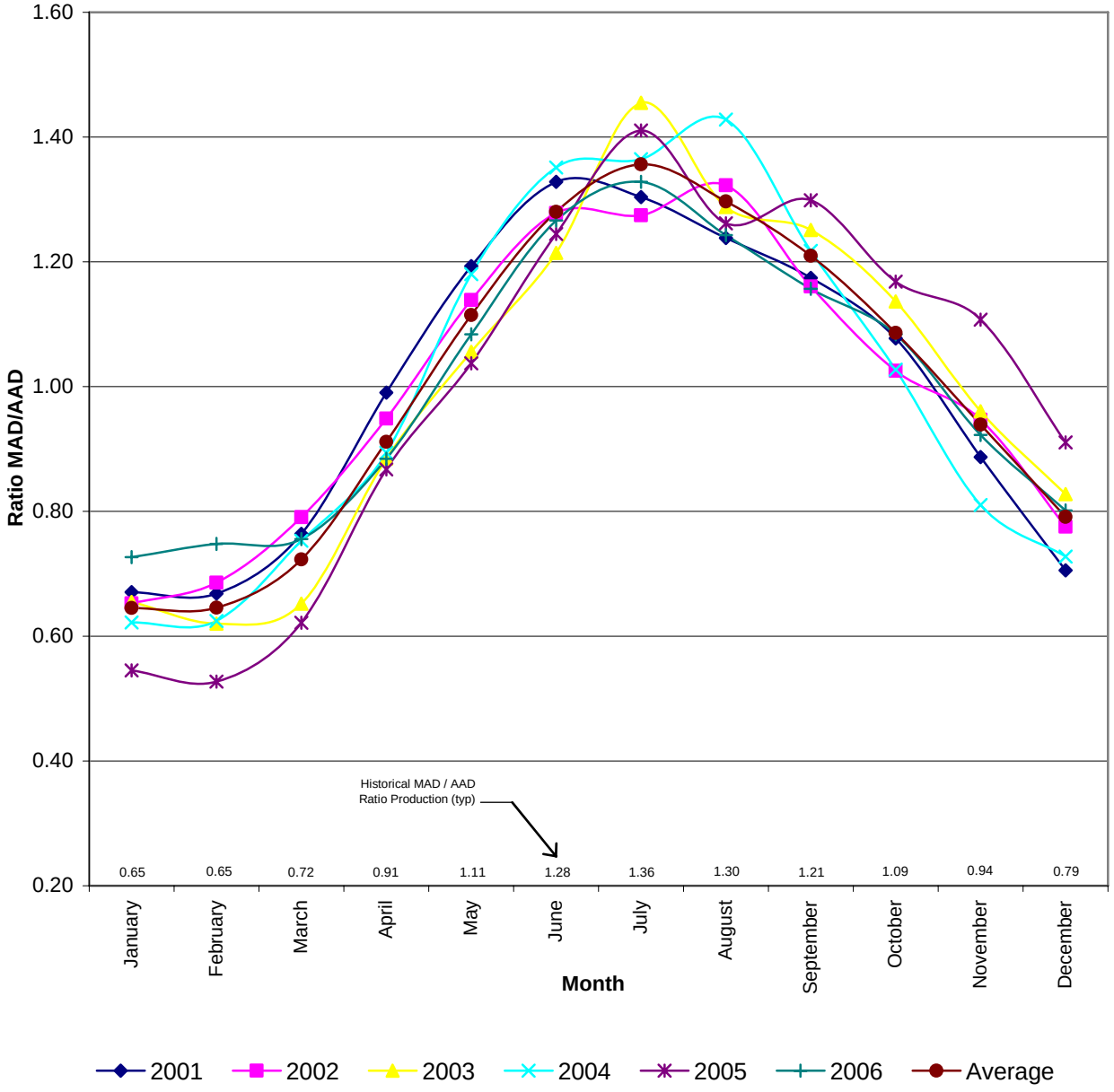
Maximum hour use is the peak rate at which water is required during any one hour of the year. Since minimum distribution system pressures are usually experienced during maximum hour, the sizes and capacity of distribution system pipelines and booster stations are generally determined on the basis of this condition. Maximum hour water requirements are partially met through the use of strategically located system storage. The use of system storage minimizes the required capacity of transmission mains and permits a more uniform and economical operation of the water supply, treatment, and pumping facilities. Historical maximum hour information was not available therefore a typical maximum hour peaking factor of 1.7 times a maximum day is recommended.

Table 7 compares the peaking factors applied by the City in the past with those recommended in this Master Plan and it can be seen that the factors recommended in this master plan are significantly lower. This will translate into significant savings in terms of required water production, storage pumping and distribution infrastructure.

Table 7: Comparison of Peaking Factors

Water Master Plan	Maximum Day / Annual Average	Maximum Hour / Annual Average
Current Goodyear Standard	2.00	4.00
2007 Master Plan Recommendation	1.70	2.89

Historical monthly average day (MAD) demands were evaluated in this master plan in order to understand the impact of seasonal variation in demand on water infrastructure. It can be seen that July is traditionally the highest demand month. Figure 8 and Table 8 present the Monthly Average Day Production to Annual Average Day Production.



City of Goodyear
2007 Integrated Master Plan

Figure 8
MAD / AAD Projection Ratio

Table 8: Historical Monthly Finished Water Production

Month	2001		2002		2003		2004		2005		2006		Average Monthly Ratio
	Production (mgd)	MAD/AD (ratio)	Production (mgd)	MAD/AD (ratio)	Production (mgd)	MAD/AD (ratio)	Production (mgd)	MAD/AD (ratio)	Production (mgd)	MAD/AD (ratio)	Production (mgd)	MAD/AD (ratio)	
January	1.96	0.67	2.11	0.65	2.48	0.65	2.85	0.62	3.10	0.55	4.76	0.73	0.63
February	1.96	0.67	2.22	0.69	2.35	0.62	2.86	0.62	3.00	0.53	4.90	0.75	0.63
March	2.24	0.76	2.56	0.79	2.47	0.65	3.45	0.75	3.54	0.62	4.95	0.76	0.72
April	2.90	0.99	3.07	0.95	3.35	0.88	4.09	0.89	4.93	0.87	5.80	0.88	0.92
May	3.50	1.19	3.69	1.14	4.00	1.06	5.40	1.18	5.90	1.04	7.10	1.08	1.12
June	3.89	1.33	4.14	1.28	4.60	1.21	6.19	1.35	7.08	1.24	8.30	1.27	1.28
July	3.82	**1.30**	4.13	1.27	5.52	**1.46**	6.25	1.36	8.03	**1.41**	8.71	**1.33**	**1.36**
August	3.63	1.24	4.28	**1.32**	4.88	1.29	6.54	**1.43**	7.18	1.26	8.15	1.24	1.31
September	3.44	1.17	3.76	1.16	4.74	1.25	5.57	1.22	7.39	1.30	7.58	1.16	1.22
October	3.16	1.08	3.32	1.03	4.31	1.14	4.70	1.03	6.65	1.17	7.11	1.08	1.09
November	2.60	0.89	3.07	0.95	3.64	0.96	3.71	0.81	6.30	1.11	6.05	0.92	0.94
December	2.07	0.71	2.51	0.78	3.14	0.83	3.33	0.73	5.18	0.91	5.25	0.80	0.79
Average	2.93	1.00	3.24	1.00	3.79	1.00	4.58	1.00	5.69	1.00	6.56	1.00	1.00

3.3 HISTORICAL METERED SALES AND UN-METERED WATER

Historical Retail Sales - AAD water produced for the City of Goodyear use, and metered sales by billing user class for years 2001 through 2005 were provided in the end of the year Summary reports. This data was used to evaluate historical water use by user class and to evaluate geographical variations in water use. Summaries of metered sales broken down by user class (residential, commercial etc.) are summarized in Table 9.

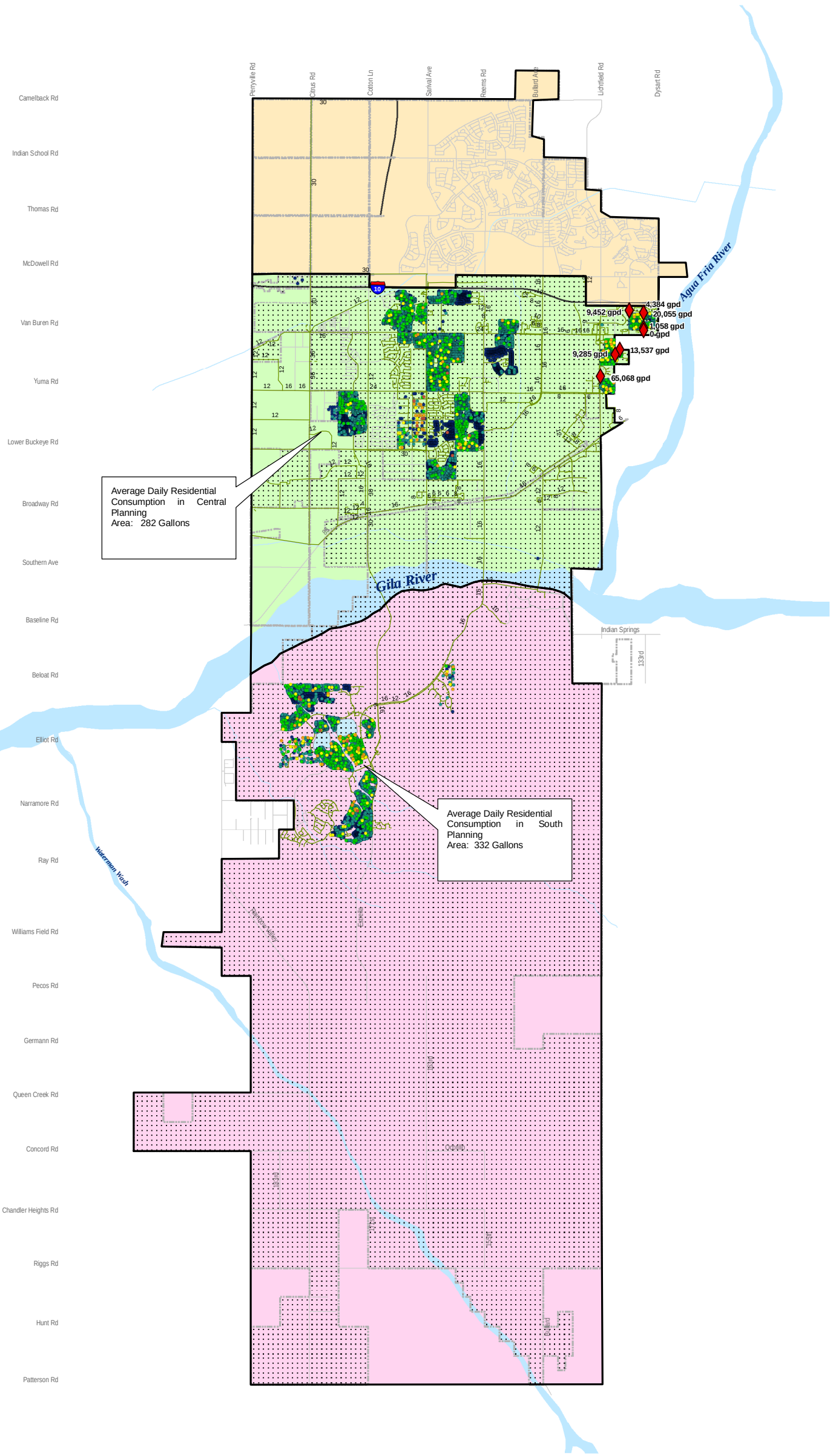
Table 9: Historical Metered Sales

User Class	2001	2002	2003	2004	2005
Residential (R1)	512,076,000	630,284,000	747,473,000	963,015,000	1,095,582,000
Multifamily (A)	22,408,000	23,481,000	44,344,000	42,481,000	38,579,000
Commercial (C1)	70,653,000	65,802,000	68,648,000	80,364,000	87,762,000
Industrial (D1)	77,050,000	85,509,000	73,149,000	73,469,000	63,418,000
Institutional (I1)	10,697,000	12,348,000	10,405,000	9,600,000	12,833,000
Schools (SA)	5,489,000	7,877,000	10,464,000	11,191,000	16,730,000
Churchs (C)	3,100,000	3,079,000	3,128,000	4,126,000	3,412,000
Car Wash (CW)	410,000	430,000	470,000	330,000	380,000
Laundry Mat	4,309,000	4,457,000	3,701,000	3,828,000	4,174,000
Turf/Irrig (T1)	154,865,000	189,060,000	257,921,000	347,342,000	375,545,000
Hydrant/Const (H1)	571,000	2,555,000	487,000	860,000	334,000
Airport Irrig (PG)	64,895,000	8,149,000	9,107,000	12,801,000	22,410,000
Total Metered Sales, gal	**926,523,000**	**1,033,031,000**	**1,229,297,000**	**1,549,407,000**	**1,721,159,000**
Total Metered Sales, mgd	**2.54**	**2.83**	**3.37**	**4.24**	**4.72**

Metered sales data by meter account for the period from January 2004 to December 2004 was provided by the City and included the following information for each meter account:

- Rate Type for each account, which identifies the user class.
- Water sales by month for each account in units of 1,000 gallons.
- Account ID, meter number and parcel ID of each meter.

GIS techniques were used to establish a geographic location for Residential and Non-residential sales separately resulting in a separate feature class for each. Each feature class was then analyzed with Land Use designations to ensure that result of the geocode were consistent with the City's' land use. The results of the Residential and Non-residential meter geocode are graphically shown on Figure 9 and Figure 10 respectively. The results of the geocoding process were generally very good and including the following observations:



Christina Hassell 20 Nov 2006

\\Projects\GoodYear\11GIS\01MapDocuments\11x17\2004MeteredSalesMap.mxd

Legend

2004 Residential Sales

- < 250 gpd
- 250 - 500 gpd
- 500 - 750 gpd
- 750 - 1,000 gpd
- 1,000 - 2,000 gpd
- > 2,000 gpd

Multi Family Meters

Study/Planning Area

Water Mains

Goodyear Water Service Area Boundary

City Limits

N W E S

1 inch equals 10,500 feet

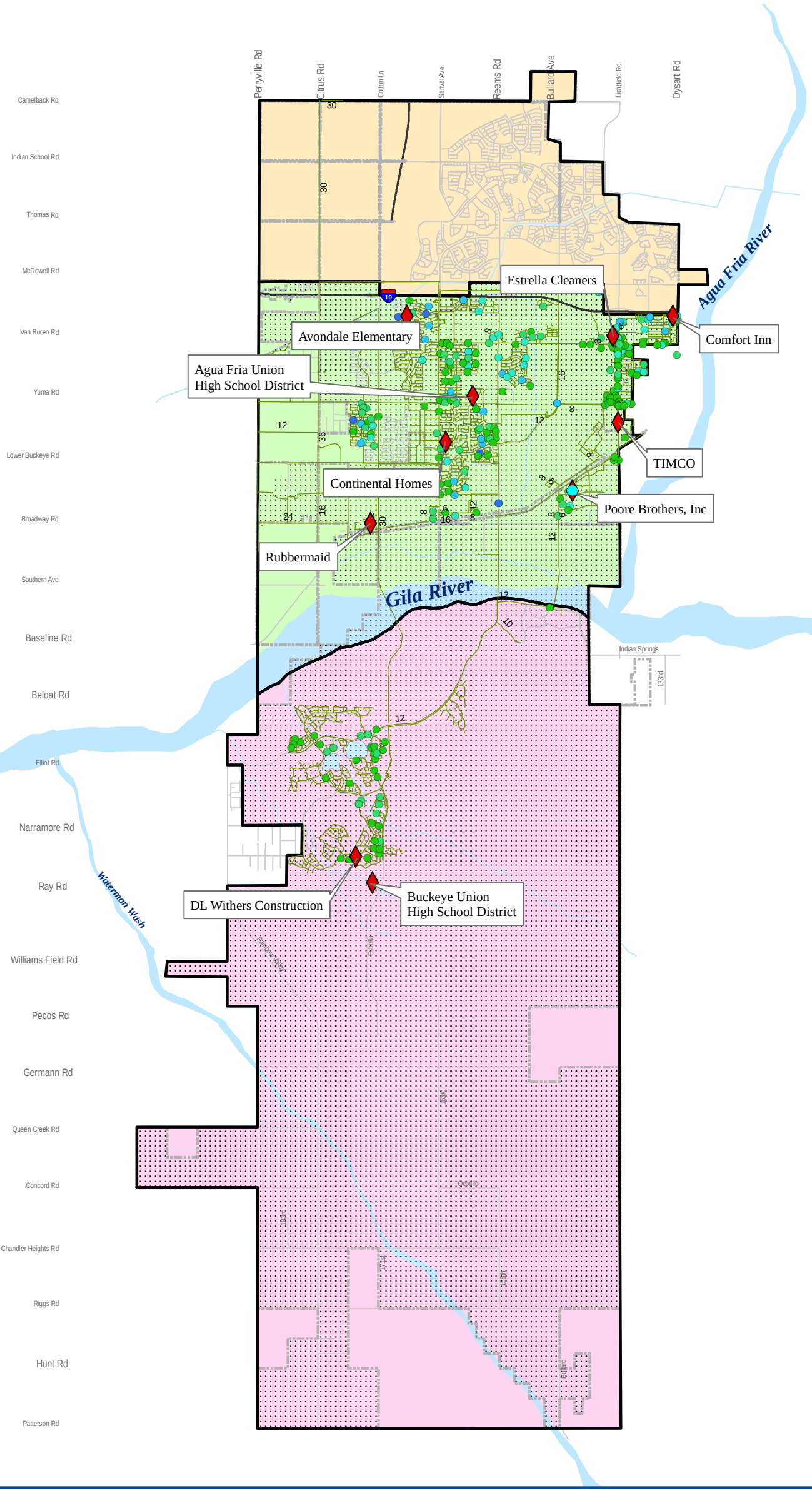
Data source:
Carollo 2006 Hydraulic Model
City of Goodyear GIS

Figure 9
Residential Metered Sales Locations for Year 2004

Utility Master Plan
City of Goodyear, AZ
2006

Goodyear Arizona

BLACK & VEATCH building a world of difference
ENERGY WATER INFORMATION GOVERNMENT



Legend

2004 Non-Residential Meter Locations

- < 2,000 gpd
- 2,000 - 5,000 gpd
- 5,001 - 10,000 gpd
- 10,001 - 20,000 gpd
- 20,001 - 50,000 gpd
- > 50,000 gpd

Top Ten Non-Residential Users

Water Mains

Study/Planning Area

Goodyear Water Service Area Boundary

City Limits

N W E S

1 inch equals 10,500 feet

Data source:
Carollo 2006 Hydraulic Model
City of Goodyear GIS

Figure 10
Non-Residential Metered Sales Locations for Year 2004

Utility Master Plan
City of Goodyear, AZ
2006

Goodyear ARIZONA

BLACK & VEATCH
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\\Projects\Goodyear11\GIS\01MapDocuments\11x17\2004NonResMeteredSalesMap - Christina Hassell 15 Nov 2006

- When the residential results were analyzed against land use, it was discovered that roughly 300 records did not geocode to a single family residential land use, but to a multi-family / higher density residential land use. These 300 records were analyzed as MF accounts.
- The commercial results generally aligned with the correct non-residential land use or along transportation arteries.
- 100% of Residential meter geocoded to residential land uses due to the one to one relationship to the parcel shape file.

Historical Unaccounted-for Water - Comparing metered sales to historical production also allows historical un-metered usage to be determined. For this study, un-metered water is the difference between finished water production and metered sales. Unaccounted-for water is usually a combination of leakage from the distribution system, unauthorized connection, un-metered uses, and inaccuracies in supply meters and individual customer meters. Historical unaccounted-for water is summarized in Table 10.

Table 10: Comparison of Production to Metered Sales

Year	Total Finished Water Production		Metered Sales		Un-metered Water		
	(AF)	(mgd)	(AF)	(mgd)	(AF)	(mgd)	(%)
2001	3,289	2.94	2,843	2.54	446	0.40	13.55%
2002	3,629	3.24	3,170	2.83	459	0.41	12.65%
2003	4,256	3.80	3,772	3.37	484	0.43	11.38%
2004	5,148	4.60	4,754	4.24	394	0.35	7.66%
2005	6,389	5.70	5,281	4.72	1,108	0.99	17.34%
						Average	12.51%
						Design	10.00%

While the historical average of un-metered use was 12.50% the City of Goodyear is currently implementing several projects, including a leak detection, meter re-sizing and construction water metering program, which will likely decrease the overall system un-metered uses therefore for the purposes of this master plan, un-metered water use (construction uses, hydrant testing, system losses etc.) was estimated at 10%.

3.4 HISTORICAL WATER USE RATES

Historical Residential Per-capita Water Use - Historical residential per-capita water use was calculated based on historical residential metered sales and estimated populations. Historical per-capita water uses are shown in Table 11.

Table 11: Residential Per-Capita Use

Year	Population[1,2]	A.D. Res. Sales (mgd)	Residential Per-Capita Use (gpcd)	A.D. Non Residential Sales (mgd)	AD Non-Residential Sales (gpcd)	Combined Sales (gpcd)	ADWR Third Management Plan Goal (Combined gpcd)
2001	15,746	1.46	93.00	1.48	93.76	186.76	274
2002	18,433	1.79	97.17	1.45	78.66	175.83	253
2003	20,900	2.17	103.80	1.63	78.01	181.81	253
2004	24,709	2.77	112.10	1.76	71.23	183.33	253
2005	28,456	3.11	109.20	2.59	91.18	200.38	235
Average			**103.05**			**185.62**	

Notes:
1. Only includes WPA2-WPA5 since WPA1 is served by others.
2. GIS Census block analysis indicates that 69% of the total population is located within WPA2-WPA5.

It can be seen that the combined gpcd unit rate is holding at approximately 200 gpcd, which is less than and therefore meets and exceeds the ADWR Third Management Plan goals for water conservation for the years listed. It also complies with the long-term goal of 217 gpcd for combined residential and non-residential demand.

Historical Residential Per-Dwelling Unit Water Use - Historical residential per dwelling water use was calculated based on historical residential metered sales and dwelling unit type. Historical per dwelling unit uses are shown in Table 12.

Table 12: Residential Unit Rate Calculations Based on Metered Sales

Residential Land Use Category	Number of Meters	Number of Dwelling Units	Average Metered Water Use (gallons/day)	Unit Rate (gpdu)
Single Family Residential				
Low Density Residential	1,525	1,525	535,410	351
Low-Med Density Residential	7,302	7,302	2,100,663	288
Single Family Total =		**8,827**	**2,636,073**	**299**
Multi-Family Residential				
Medium Density Residential	370	370	94,786	256
Commercial Meters (Apartments)	7	574	122,838	214
Multi-Family Total =		**944**	**217,624**	**231**

4.0 PROJECTED WATER REQUIREMENT

Base Year Water Demands – Base year average day water demands represent the current level of water demands and are based on recent historical records. Base year demands are calculated based on actual retail metered sales for 2004, plus an adjustment for annual growth, plus the design 10% unaccounted-for water use. Base year demands are summarized Table 13 by WPA.

Table 13: Base Year Demands (2007) by Water Planning Area (WPA)

WPA	Annual Average Demand (mgd)
2	**4.71**
3	**2.19**
4	**0.17**
5	**0.00**
Total	**7.07**

Buildout Water Demands – Buildout water requirements were projected for the Study Area using build-out land use areas (derived from the 2003 General Plan) and per dwelling unit or per-acre water duties. While residential water duties were derived from an analysis of metered sales data, commercial / industrial water duties were based on an analysis of typical Floor to Area ratios to typical water consumption. Table 14 shows the water use rates used to calculated build-out demands.

Table 14: 2007 Master Plan Unit Rates

RESIDENTIAL		Target Density (DU/Ac)	Unit Demand (gpdu)	Unaccounted for Water (percent)	Production Demand (gpdu)
Single-Family Residential					
Agricultural Preservation (1 du/ac)		1	450	10	500
Rural (0-2 du/ac)		1	400	10	444
Low Density (2-4 du/ac)		3	351	10	390
Low-Medium Density (4-6 du/ac)		5	288	10	320
Multi-Family Residential					
Medium Density (6-10 du/ac)		8	256	10	285
Medium-High Density (10-20 du/ac)		15	231	10	256
High Density Residential (20+ du/ac)		25	200	10	222
NON RESIDENTIAL	**Floor to Area Ratio (FAR)**	**Unit Demand (gpd/sf)**	**Unit Demand (gpad)**	**Unaccounted for Water (percent)**	**Production Demand (gpad)**
Employment					
Community Commercial	0.30	0.14	1,830	10	2,033
Regional Commercial	0.30	0.16	2,091	10	2,323
Luke Compatible Land Use Area	0.30	0.16	2,091	10	2,323
City Center	1.50	0.17	11,108	10	12,342
Ball Park Village (Blocks 1 thru 6)	1.00	0.17	7,405	10	8,228
Light Industrial	0.30	0.12	1,568	10	1,742
General Industrial	0.30	0.16	2,091	10	2,323
Support					
Public / Quasi Public	0.30	0.15	1,960	10	2,178
Prison	0.30	0.25	3,267	10	3,630
Airport	0.05	0.15	327	10	363
Parks	0	0	0	0	0
Roads	0	0	0	0	0
Open Space	0	0	0	0	0

Table 15 summarizes the build-out projected water demands by water planning and usage class based on the water duties above.

Intermediate Year Water Demands – Projected water requirements for the years 2012 and 2017 were based on population projection curved developed in Section 2.0.

Figure 11 summaries intermediate year AD demand projections for the intermediates years by Water Planning Area.

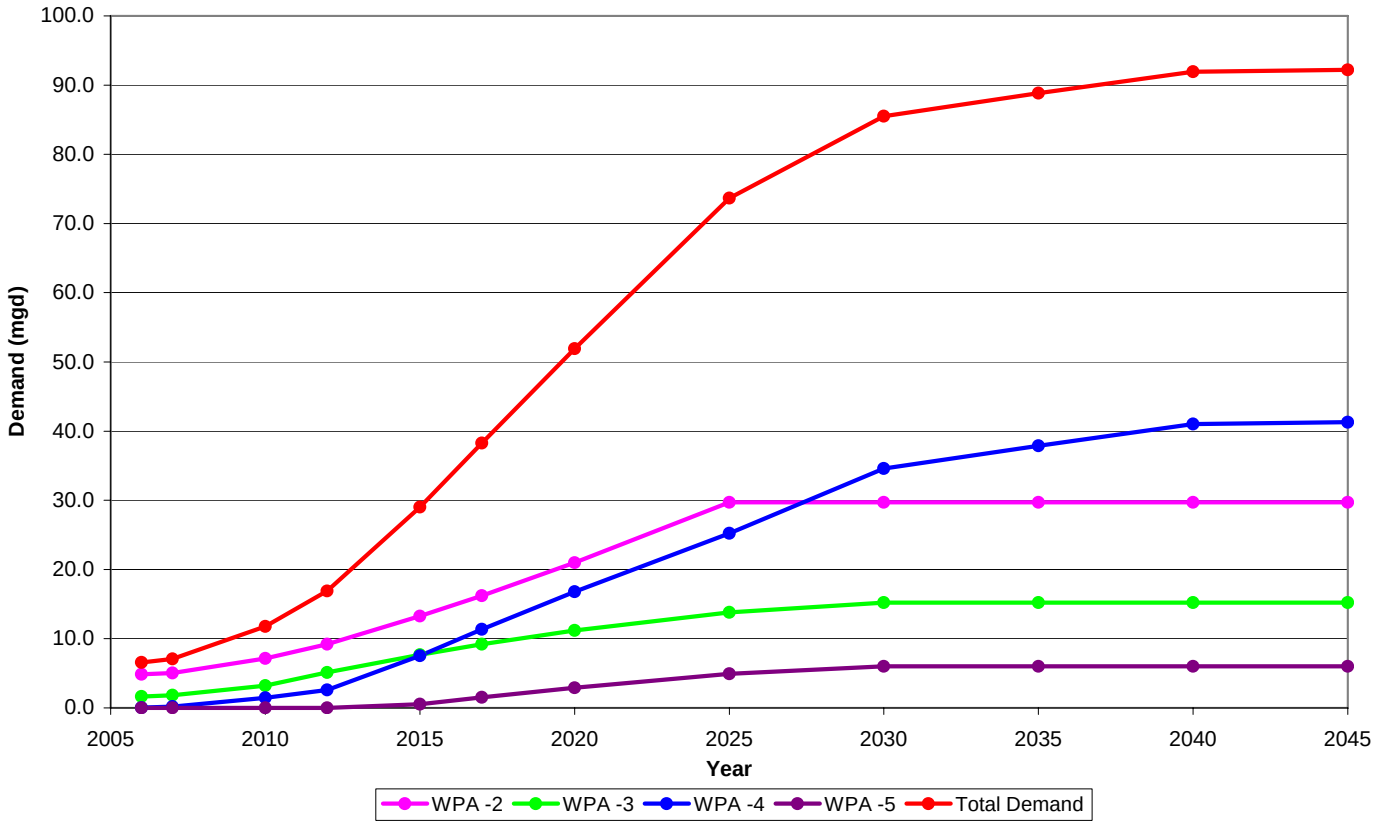
Table 15: Buildout Projected Water Requirements

		Land Use					Dwelling Units	Unit Rates			WPA-2		WPA-3		WPA-4		WSA-5		Water Service Area	
	Target Density						Dwelling Units	Demand Unit Rate[1]												
LAND USE CATEGORY	(du/ac)	WPA-2	WPA-3	WPA-4	WPA-5	Total Acreage in Water Service Area Area	Total Number of Dwelling Units in Water Service Area Area	(gpdu)	(gpad)	(af/ac-yr)	(mgd)	(af/yr)	(mgd)	(af/yr)	(mgd)	(af/yr)	(mgd)	(af/yr)	(mgd)	(af/yr)
RESIDENTIAL																				
Single-Family Residential																				
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	500	500	0.56	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Rural (0-2 du/ac)	1	1,988	1,915	0	437	4,340	4,340	444	444	0.50	0.9	990	0.9	953	0.0	0	0.2	217	1.9	2,160
Rural (0-2 du/ac)	2	0	0	16,979	0	16,979	33,958	444	889	1.00	0.0	0	0.0	0	15.1	16,903	0.0	0	15.1	16,903
Low Density (2-4 du/ac)	3	5,544	3,656	9,283	1,752	20,234	60,703	390	1,170	1.31	6.5	7,266	4.3	4,792	10.9	12,167	2.1	2,296	23.7	26,521
Low-Medium Density (4-6 du/ac)	5	799	2,055	931	529	4,313	21,567	320	1,598	1.79	1.3	1,430	3.3	3,678	1.5	1,666	0.8	946	6.9	7,721
						45,867	**120,568**	395	(Wtd Avg gpdu)		**8.6**	**9,686**	**8.4**	**9,423**	**27.4**	**30,737**	**3.1**	**3,460**	**47.6**	**53,306**
Multi-Family Residential																				
Medium Density (6-10 du/ac)	8	460	875	1,690	544	3,570	28,556	285	2,277	2.55	1.0	1,174	2.0	2,231	3.8	4,311	1.2	1,387	8.1	9,104
Medium-High Density (10-20 du/ac)	15	541	265	254	118	1,177	17,661	256	3,842	4.30	2.1	2,328	1.0	1,139	1.0	1,093	0.5	507	4.5	5,067
High Density Residential (20+ du/ac)	25	0	293	615	0	908	22,699	222	5,556	6.22	0.0	0	1.6	1,823	3.4	3,826	0.0	0	5.0	5,649
						5,655	**68,916**	257	(Wtd Avg gpdu)		**3.1**	**3,502**	**4.6**	**5,194**	**8.2**	**9,230**	**1.7**	**1,894**	**17.7**	**19,819**
Totals =		**9,332**	**9,058**	**29,752**	**3,379**	**51,522**	**189,484**													
NON RESIDENTIAL																				
Employment																				
Community Commercial		1,693	477	1,325	96	3,590			2,033	2.28	3.4	3,853	1.0	1,085	2.7	3,016	0.2	219	7.3	8,174
Regional Commercial		311	0	28	82	422			2,323	2.60	0.7	810	0.0	0	0.1	74	0.2	213	1.0	1,097
Luke Compatible Land Use Area		0	0	0	0	0			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
City Center / Village Center		173	28	103	0	305			12,342	13.83	2.1	2,392	0.3	391	1.3	1,431	0.0	0	3.8	4,214
Ballpark Village		48	0	0	0	48			8,228	9.22	0.4	443	0.0	0	0.0	0	0.0	0	0.4	443
Light Industrial		4,068	182	12	147	4,408			1,742	1.95	7.1	7,938	0.3	355	0.0	23	0.3	287	7.7	8,603
General Industrial		1,339	0	0	0	1,339			2,323	2.60	3.1	3,484	0.0	0	0.0	0	0.0	0	3.1	3,484
Mixed Use		0	0	0	216	216			2,000	2.24	0.0	0	0.0	0	0.0	0	0.4	484	0.4	484
											16.9	**18,921**	**1.6**	**1,831**	**4.1**	**4,544**	**1.1**	**1,203**	**23.7**	**26,499**
Support																				
Public / Quasi Public		345	239	715	68	1,367			2,178	2.44	0.8	841	0.5	582	1.6	1,744	0.1	167	3.0	3,334
Prison		0	0	0	0	0			3,630	4.07	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Airport		796	0	0	0	796			363	0.41	0.3	323	0.0	0	0.0	0	0.0	0	0.3	323
Parks		446	10,719	1,505	161	12,831			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Roads		348	776	1,745	452	3,322			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Open Space		3,020	3,975	4,106	1,096	12,196			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
											1.0	**1,165**	**0.5**	**582**	**1.6**	**1,744**	**0.1**	**167**	**3.3**	**3,658**
	TOTAL =	**21,919**	**25,454**	**39,292**	**5,697**	**92,361**	**189,484**		**TOTAL DEMAND =**		**29.7**	**33,274**	**15.2**	**17,029**	**41.3**	**46,255**	**6.0**	**6,724**	**92.2**	**103,284**

Figure 11: City of Goodyear - IWMP
Demand Projection Curves for Water Planning Areas (WPAs)

WPA	2006	2007	2010	2012	2015	2017	2020	2025	2030	2035	2040	2045
2	4.9	5.0	7.1	9.2	13.2	16.2	21.0	29.7	29.7	29.7	29.7	29.7
3	1.6	1.8	3.2	5.1	7.7	9.2	11.2	13.8	15.2	15.2	15.2	15.2
4	0.1	0.2	1.4	2.6	7.5	11.3	16.8	25.2	34.6	37.9	41.0	41.3
5	0.0	0.0	0.0	0.0	0.5	1.5	2.9	4.9	6.0	6.0	6.0	6.0
Total	6.6	7.1	11.8	16.9	29.0	38.3	51.9	73.7	85.5	88.8	92.0	92.2

1. 2006 Demands are based on production records
2. 2007 demands are projected from partial 2007 production records



Summary Demand Projections – Maximum day (MD) and maximum hour (MH) demands were determined by applying peaking factors to the projected AD demands.

Projected Study Area water production requirements by design year are summarized in Table 16.

Table 16: 2007 Integrated Master Plan Water Requirements

	Base Year	Year 2012	Year 2017	Buildout
Average Day (mgd)	7.1	18.3	39.5	92.2
Maximum Day (mgd)	12.0	31.1	67.2	156.7
Maximum Hour (mgd)	20.4	52.9	114.3	266.5

WATER RESOURCES
TECHNICAL MEMORANDUM NO. 1-3

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1.0 INTRODUCTION

The City of Goodyear resides within the Sonoran Desert in the arid southwest, a location that receives on average less than 10-inches of total rainfall per year. The City relies on groundwater pumping to meet current potable water demands and it is anticipated that future demands will be met by a combination of increased groundwater pumping and imported surface water. Careful management and efficient planning will be required to develop the next increments of supply needed to support a projected ten-fold increase in population.

The primary purpose of this section of the Master Plan is to provide a basic understanding of the raw water resources available to the City (present and future), so that water, wastewater and reclaimed water infrastructure can be planned and developed in a manner that will utilize the available resources efficiently. In order to accomplish this goal, the following tasks will be undertaken in this section of the Master Plan:

1) Available Water Resources. Current and future resources available to the City will be tabulated and the constraints associated with each will be discussed.

2) Supply vs Demand. Available resources will be compared with the projected demands developed in Section 3 in order to assess their sufficiency.

3) Sustainability. Projected resource utilization will be assessed in light ADWR's groundwater safe-yield requirements.

4) Integrated Resource Management. The linkage between water, wastewater and reclaimed water systems will be assessed in order to find the optimum strategy for long-term sustainability.

Each of the above items will be addressed on an integrated basis. That is to say the resources and infrastructure associated with all three systems (water, wastewater and reclaimed) will be analyzed together as a whole, in an effort to find the optimal balance or interaction between these integrated or linked systems which maximizes the reach of the available resources.

2.0 AVAILABLE RESOURCES

The City of Goodyear has a number of water resources available to it for meeting current and future water demands. These include surface water, groundwater and reclaimed water resources as quantified below in Table 1.

Table 1: City of Goodyear Water Resources

Resource Type	2007	2012	2017	2045
	Resources	Resources	Resources	Resources
SURFACE WATER RESOURCES - CAP	**af/yr**	**af/yr**	**af/yr**	**af/yr**
Current CAP Allocation	3,531	3,531	3,531	3,531
Future CAP Re-Allocation (2010)		7,211	7,211	7,211
Future CAP Re-Allocation (2012)		1,814	1,814	1,814
ASLD CAP	150	150	150	150
Gila River Indian Community Lease		7,000	7,000	7,000
Total Surface Water Resources =	**3,681**	**19,706**	**19,706**	**19,706**
Percent of Total Supply =	4%	16%	15%	12%
GROUNDWATER RESOURCES	**af/yr**	**af/yr**	**af/yr**	**af/yr**
West Salt River Valley[1]	47,238	47,238	47,238	47,238
Rainbow Valley[1]	33,220	33,220	33,220	33,220
LPSCO	3,360	3,360	3,360	3,360
Adaman Mutual Water Co.	11,200	11,200	11,200	11,200
Total Groundwater Resources =	**95,018**	**95,018**	**95,018**	**95,018**
Percent of Total Supply =	93%	76%	70%	58%
RECLAIMED WATER RESOUCES	**af/yr**	**af/yr**	**af/yr**	**af/yr**
Total Reclaimed Water Resources =	**3,909**	**10,080**	**20,720**	**47,936**
Percent of Total Supply =	4%	8%	15%	29%
TOTAL AVAILABLE SUPPLY	**102,608**	**124,804**	**135,444**	**162,660**

Notes:
1. Adjusted to reflect 32,662 af/yr set aside for Sonoran Valley Development.

It must be noted that the quantities shown in Table 1 do not reflect the total groundwater available to the City but only that portion which is to be used for the development proposed within the IWMP planning area boundary. Out of the City's total proven groundwater resources, 32,662 af/yr of groundwater has been set-aside for the development of the Sonoran Valley, 14,362 af/yr from the WSRV aquifer and 18,300 af/yr from the Rainbow Valley aquifer.

It can be seen that the City's water resources, available for use within the IWMP planning area, are projected to grow from 102,608 af/yr in 2007 to 162,660 af/yr at build-out. This 59 percent increase is based on 1) the acquisition of an additional 16,025 af/yr of surface water resources

and 2) a projected 44,027 af/yr increase in reclaimed water resources. The following sections provide a detailed discussion of each water resources type, the individual components of which it is comprised and the constraints and limitations associated with its use.

2.1 SURFACE WATER RESOURCES

The City of Goodyear currently has 3,681 af/yr of surface water which equates to 4 percent of the City's currently available resources. Surface water resources are projected to reach 19,706 af/yr within the next 10 years and remain at that level till Build-out, representing 12 percent of the build-out resource portfolio. The City's surface water resources, both now and future are entirely composed of Central Arizona Project resources.

The Colorado River Basin Project Act (1968) authorized construction of the Central Arizona Project (CAP). The CAP is designed to deliver approximately 1.5 million acre-feet (maf) of Arizona's 2.8 maf of Colorado River Water to Pima, Pinal and Maricopa counties in Central Arizona. The balance, approximately 1.3 maf, generally represents Arizona water users located along the main stem of the Colorado River.

The CAP was built by the Federal Government and is operated by the Central Arizona Water Conservation District (CAWCD). Colorado River Water deliveries began to the Phoenix metropolitan area in 1985. CAP water users (subcontractors) are classified as; Municipal and Industrial (M&I), Indian and Agricultural. Different priorities in times of drought and different costs per acre-foot are assigned to each category of CAP water. As shown in Table 1, the water delivered to Goodyear, through the CAP system, can be broken down into the following subcategories:

Current CAP Allocation: The City of Goodyear's current CAP allocation is for 3,531 ac-ft/yr of M&I water. The City currently recharges this allocation and earns long-term storage credits.

Future CAP Re – Allocation (2010): The Federal Government is expected to allocate remaining available CAP M&I water. The reallocation is taking place in the context of settlement negotiations concerning 1) operation and repayment of the CAP and 2) a broad range of Indian water rights in Arizona. Under the alternative recommended by Arizona Department of Water Resources, the City of Goodyear is expected to receive another 7,211 af/yr of CAP M&I water.

Future CAP Re – Allocation (2012): Additional CAP M&I water is anticipated to be available in 2012 in the amount of 1,814 af/yr.

ASLD CAP: Arizona State Land Department (ASLD) CAP resources available to Goodyear is 150 af/yr. This is classified as M&I water.

Gila River Indian Community Lease: The City of Goodyear negotiated the lease of 7,000 af/yr of the Gila Indian Contract CAP water at a cost of $1,500 per af with a contract length of 100 years. The sum is payable over a period of 15 years, at approximately $800,000 per year. This water is tied to the Gila River Indian Community adjudication of the Gila River, and is currently anticipated for release by 2008. Leased Indian CAP water could be used in the same manner as the City's M&I CAP allocation, whether by recharge or direct use, and would require the same delivery mechanism. This agreement is contingent upon the current settlement proceedings.

Though the origin of the individual surface water components may vary, for practical purposes, all of the City's Colorado River resources can be considered as CAP water, which will likely be delivered through the CAP canal and would be subject to the following constraints.

Take or Pay Charges: Capital charges provide for the repayment of the capital cost of the CAP. The capital charge (currently $32/ac-ft) is charged to Goodyear whether its CAP allocation is utilized or not. The City therefore has an incentive to utilize its full CAP allocation each year. Capital charges apply only to subcontract water so long as Goodyear stays within its subcontract allocation. The City does not currently take direct delivery of their CAP resources for treatment and supply into the distribution system but instead has their allocation recharged and earns long term storage credits. The City anticipates initiating deliveries for treatment and supply within the 10-year Interim Period, reaching full utilization of their CAP allocation by build-out. A discussion of each component of the City's CAP water resources follows.

O&M Charges: Additional charges are assessed to cover O&M based on the quantity of water actually delivered in order to cover pumping energy and other variable operational costs. In 2008, the O&M charge is set at $230/ac-ft. This must be added to the capital charge making the total cost for CAP water delivered in 2008 to be $262/ac-ft.

System Dry-Up: The CAP system is an interruptible supply and outages are possible as a result of failures and as required for periodic maintenance. Since initiating service 1985, there have been very few outages, however, CAP has indicated that beginning in 2007, short

dry-ups (ranging from one week to one month in duration) are envisioned every two to three years on average for maintenance purposes.

A back-up to the CAP water supply is therefore required and the City's water production infrastructure will be planned to accommodate periodic CAP dry-ups. These dry-ups for maintenance purposes will be scheduled by the CAWCD to occur during the cooler months, typically at some time within the November to February time frame.

Seasonal Variations and Peaking Limits: CAP water can be ordered year-round but deliveries are contractually limited to a peak of no more than 11 percent of the annual supply in any given month. This equates to 1.32 times the annual average flow rate of CAP water. The City's current plans are to contract for CAP treatment capacity at outside facilities remote from the City, using base, un-peaked flowrates.

Drought Susceptibility: Colorado River water resources are susceptible to drought and City should take the steps necessary to be prepared in the event that their CAP deliveries are curtailed. A complex system of water rights priorities and shortage sharing agreements exist at both the Federal and State level and a careful discussion of Colorado River regulations and legal agreements are beyond the scope of the IWMP.

However, by making a simplifying assumption, as to the potential degree to which drought on the Colorado River watershed may cut normal deliveries, effective drought planning can then be undertaken. For the purposes of the IWMP, it was assumed that at times of significant and prolonged drought on the Colorado River, that Goodyear's CAP deliveries could be cut by 25 percent. The effect of this potential reduction on the City's normal operations is discussed in the second section of this Chapter, Supply and Demand.

2.2 GROUNDWATER RESOURCES

Table 2 shows that Goodyear has 127,680 af/yr of groundwater resources. This consists of quantities which the City is entitled to pump under their Municipal Water Right as well as quantities secured through agreements with other governmental agencies.

Table 2: Groundwater Resources

GROUNDWATER RESOURCE PORTFOLIO	QUANTITY (af/yr)	SECURED VIA
West Salt River Valley (WPA2)	61,600	Municipal Water Right
Rainbow Valley	51,520	Municipal Water Right
Municipal Water Right Subtotal =	113,120	
LPSCO	3,360	Intergovernmental Agreement
Adaman Mutual Water Co.	11,200	Intergovernmental Agreement
IGA Subtotal =	14,560	
Total Groundwater Resources =	**127,680**	

The Arizona Department of Water Resources grants cities a Municipal Water Right to utilize the groundwater beneath their certificated service area, in quantities that have been demonstrated to be both continuously and legally available. Key, among the considerations which must be addressed in order to be considered continuously and legally available, the drawdown produced by municipality's pumping activity must:

- Limit drawdown over a 100-year period to no more than 1,000 feet below the ground surface.
- Limit the impact to any registered well to no more than 10 feet in a five year period.

The City recently completed an analysis of the West Salt River Valley and Rainbow Valley aquifers using a hydraulic groundwater flow model. In the Groundwater Flow Model Report (GFM Report), their permissible pumping under their municipal water right was calculated to be 113,120 af/yr. This is a significant increase from previously established groundwater availability for the City due primarily to:

1. The 2007 GFM Report takes a significantly larger service area into consideration as a result of expansions of Goodyear's planning area boundaries to now include the Sonoran Valley.
2. A number of the hydraulic parameters within the ADWR approved hydraulic model for the Salt River Valley have been adjusted on the basis of additional information now available.

Figure 1 shows the location of Goodyear's groundwater water resources and a discussion of each component follows:

West Salt River Valley: The GFM Report indicates that up to 61,600 af/yr of groundwater pumping is available from the West Salt River Valley (WSRV) from within the footprint of WPA2. Ten wells are currently being utilized in WPA2 with a total annual pumping of approximately 12.7 mgd (14,224 af/yr), significantly less than the allowable total. The GFM Report also indicates that a number of contaminants are present in WSRV resources at levels exceeding drinking water MCLs including:

- Nitrate
- Arsenic
- Flouride
- TDS

WPA2 also contains a superfund site, where a trichloroethylene (TCE) plume is still being remediated. Nine of the 10 active potable water wells currently require treatment for arsenic, nitrate and/or TDS contaminants and efforts to drill new potable wells in WPA 2 have been consistently hampered by poor water quality or are too high in temperature for use as a potable water well. For this reason, it is assumed that while significant groundwater resources exist within the WSRV, all new wells drilled within WPA2 will likely need treatment.

The GFM Report noted that high water levels exist in the southern portion of WPA2, due to the agricultural drainage and recharge which occurs along the Gila River. The area is classified as "waterlogged" by ADWR and water pumped from inside a designated waterlogged area is not subject to safe-yield requirements. Given the high yield of this area, the City may be able to pump a significant portion of the WSRV's 61,600 af/yr free from the recharge obligation required for safe-yield. However, it must be noted that the water quality is generally poor, with TDS in the range of 2,500 ppm and it is assumed in the IWMP that RO treatment would be required for this brackish water.

Rainbow Valley: The Rainbow Valley aquifer runs southward from the confluence of Waterman Wash with the Gila River and with the exception of WPA2, it underlies all of the City's Southern Planning Area, including the recently annexed Sonoran Valley. The GFM Report establishes that 51,520 af/yr could be withdrawn by the City from within the footprint of their southern service area. Like the WSRV water resources underlying WPA2, Rainbow Valley groundwater is generally poor quality brackish water with elevated levels of the following:

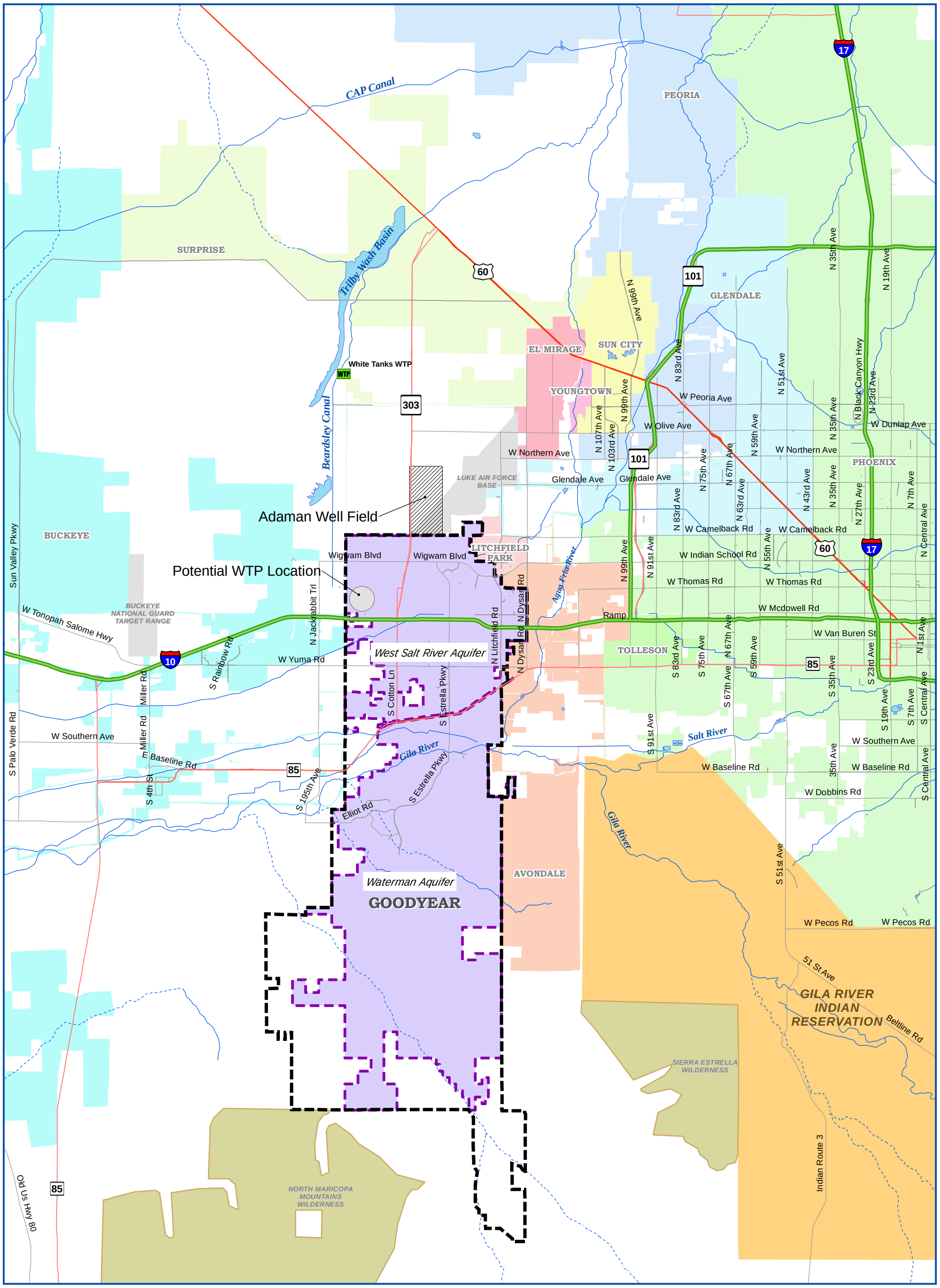


Figure 1
Water Resources

Integrated Water Master Plan
City of Goodyear, AZ
2007

Revised: Wednesday, March 26, 2008

- Nitrate
- Arsenic
- Fluoride
- TDS

Although several wells have been found which are currently potable, they are located more towards the fringes of the aquifer where it reaches up to the surrounding mountains and thins considerably. Water quality in these peripheral fringe areas is not considered to be representative of the majority of the Rainbow Valley groundwater. For the purposes of this report, it is therefore assumed that the water pumped from the Rainbow Valley will require RO treatment.

However, because the Rainbow Valley aquifer is hydraulically isolated from the larger WSRV aquifer, it is believed that over time, a well planned program of recharge using low TDS reclaimed water will result in steadily falling TDS levels and less treatment.

LPSCO: Litchfield Park Service Company (LPSCO) currently provides the City of Goodyear with up to 3,360 ac-ft/yr of pumped groundwater through a negotiated contract. LPSCO is the certificated water service supplier within WPA-1 in the City of Goodyear and will deliver the 3,360 af/yr through metered connections between LPSCO's and Goodyear's potable water distribution systems, one at Bullard Ave and one at Sarival Ave. Water received from LPSCO is potable quality and treatment is not required, however the supply is interruptible and can not be peaked above the 3,360 ac-ft/yr (3 mgd) rate.

Adaman Mutual Water Co.: Under a long-term contract, the Adaman Mutual Water Company will provide up to11,200 ac-ft/yr of groundwater to the City of Goodyear. This quantity is anticipated to be fully available to the City by the Intermediate year of 2012 and is to be pumped and delivered on a steady 11,200 ac-ft/yr (10 mgd) basis without peaking. The information available from existing Adaman Mutual wells show that arsenic and/or nitrate is present at levels above the drinking water MCLs. For the purposes of this master plan, it is assumed that treatment will be required for water pumped from the Adaman Mutual wellfield.

In general, groundwater resources are not subject to peaking limits in the same manner as are surface water supplies. By virtue of the large volume of water present, the aquifer provides significant buffering and provided that annual limits on groundwater withdrawals are met, there is no need to impose daily or monthly peaking limits on the rate groundwater withdrawal. And,

the underground aquifers provide a location for the storage of resources available to the City during times of surplus. This makes groundwater the ideal resource for both peaking and emergency supply. The exception in this case, being the peaking limitations included in the Adaman Mutual and LPSCO IGA's.

Because the resources tabulated in the City's portfolio are intended to be utilized for future development in the Sonoran Valley, as well as for the growth with the study area for the IWMP, it was necessary to estimate the demand that would occur in this area. A portion of the overall resources was set aside and reserved for future development of the Sonoran Valley. Table 3 shows the estimated demands in the Sonoran Valley, the portion of the overall resources reserved for their future development and the resulting balance available for use in this IWMP.

Table 3: Adjusted IWMP Groundwater Resources

Groundwater Resources	Annual Pumping	
	Mgd	Af/yr
Sonoran Valley AAD	26.25	29,400
Reject Brine	2.92	3,270
Sonoran Valley Resource Consumption	**29.17**	**32,670**
Available WSRV Resources	55.00	61,600
Portion Utilized for Sonoran Valley	12.82	14,362
Adjusted IWMP Availability	**42.18**	**47,238**
Rainbow Valley Resources	46.00	51,520
Portion Reserved for Sonoran Valley	16.34	18,300
Adjusted IWMP Availability	**29.66**	**33,220**
Groundwater Delivered by Adaman Mutual (no adjustment)	10.0	11,200
Groundwater Delivered by LPSCO (no adjustment)	3.0	3,360
Total IWMP Groundwater Resources	**84.84**	**95,018**

2.3 RECLAIMED WATER RESOURCES

The City of Goodyear treats and reclaims the wastewater collected within the service area to create a renewable water supply. While the Arizona Department of Environmental Quality (ADEQ) standards and public perception do not permit reclaimed water to be directly reused as a potable water supply, there are several practical uses which improve the City's overall water resources balance including:

- Direct Reuse for non-potable applications such as turf and landscaping irrigation, filling artificial lakes and construction.
- Recharge into the underlying aquifers, earning long-term storage credits.

The volume of reclaimed water available to the City is projected to increase from 3,909 af/yr to 47,936 af/yr based on a calculated percentage of the potable water delivered within the City being returned through the wastewater collection system. The returned portion is generally that portion of which has been used for interior water uses where-as the exterior uses are generally consumptive uses such as landscape irrigation and pool filling and do not generate a return flow.

Because it is linked to the interior portion of potable water use, reclaimed water is generally thought of as a drought-proof supply. Under drought conditions, it is most often exterior water uses, landscape watering, car washing, etc which are restricted should a reduction in demand be necessary. And restrictions in interior water use would not be mandated except in the most severe conditions. Therefore the production of reclaimed water can be expected to remain relatively constant through a drought cycle.

Reclaimed water from the City's water reclamation facilities will meet A+ standards as defined by ADEQ, making it fully suitable for the full range of reuse and recharge activities proposed in the IWMP. However, it will be necessary to control TDS levels in the future in order to not compromise its suitability for these beneficial uses. Currently, the TDS of the City's reclaimed water from the 157th Ave WWTP approaches 2,000 ppm, due to brine which is discharged from the City's Site 11 reverse osmosis WTP, making it unsuitable for landscaping irrigation and further reducing the quality of the City's groundwater when recharged. The City must therefore develop and utilize brine disposal facilities for the waste brine stream from all groundwater treatment facilities and prohibit future brine disposal to the sewer in order to develop and utilize this valuable resource. Once waste brine disposal to the sewer is discontinued, the TDS of reclaimed water can be expected to be more in the range of 600 ppm, which reflects potable

water standard of 500 ppm, plus the roughly 100 ppm of TDS which is picked up through one cycle of interior use.

3.0 SUPPLY VERSUS DEMAND

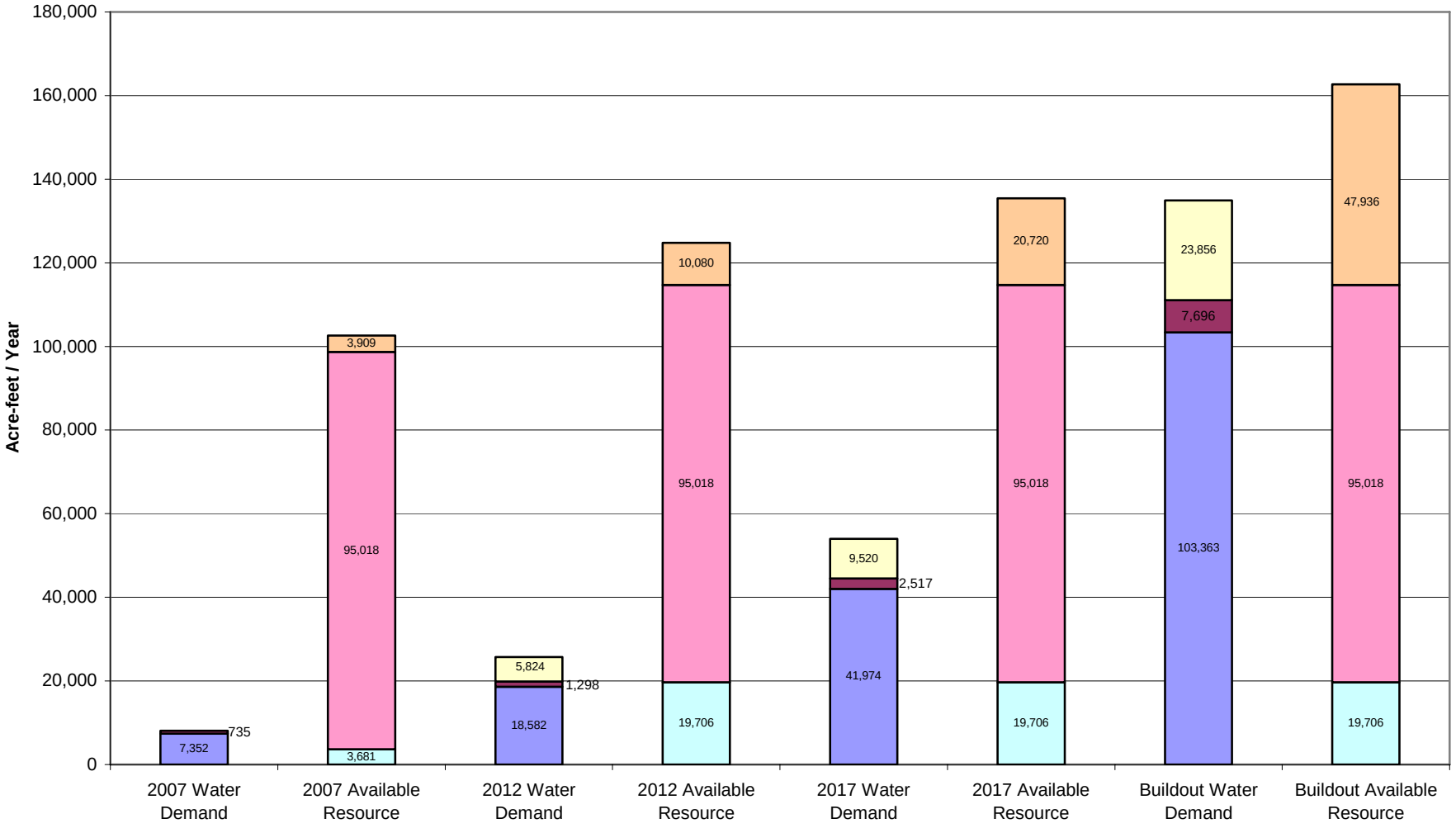
The availability of Goodyear's water resources is compared with projected demands, under both normal supply conditions and drought conditions.

3.1 NORMAL YEAR SUPPLY

Goodyear's water resources were compared with projected demands and it can be seen in Table 4 and Figure 2 below that adequate resources are available to support the city's planned growth at all stages of the City's development through to build-out.

Table 4: City of Goodyear Supply vs. Demand – Normal Year

	2007	2012	2017	2045
POTABLE SYSTEM BALANCE				
Surface Water Resources	3,681	19,706	19,706	19,706
Groundwater Resources	95,018	95,018	95,018	95,018
Potable Demand	7,352	20,442	44,288	103,284
Reject Brine	735	1,484	2,749	7,696
Balance =	**90,612**	**92,798**	**67,687**	**3,744**
Percent of Potable Water Supply Utilized =	**8.2%**	**19.1%**	**41.0%**	**96.7%**
NON-POTABLE SYSTEM BALANCE				
Reclaimed Water Production	3,909	10,080	20,720	47,936
Reuse Demand	0	5,824	9,520	23,856
Balance Available for Recharge =	**3,909**	**4,256**	**11,200**	**24,080**
Percent of Reclaimed Water Supply Utilized for Reuse=	**0.0%**	**57.8%**	**45.9%**	**49.8%**
TOTAL SUPPLY VERSUS DEMAND				
Total Supply	102,608	124,804	135,444	162,660
Total Demand	8,087	27,750	56,557	134,836
Balance =	**94,521**	**97,054**	**78,887**	**27,824**
Percent of Supply Utilization =	**7.9%**	**22.2%**	**41.8%**	**83.9%**



City of Goodyear
2007 Integrated Master Plan

Figure 2
Resource vs Demand

From the above data and figures it can be seen that there are significant resource surpluses, consisting primarily of un-tapped groundwater available currently and over the near-term. However by Buildout, the entire supply of potable resources (surface water and groundwater) will be consumed satisfying potable water demand, which includes the fraction pumped but lost as reject brine. By Buildout, the overall surplus will have reduced to 16 percent, the vast majority of which is unused reclaimed water. It can be included from the above that:

- Sufficient resources are available to support the demands projected within the IWMP
- Additional growth, beyond IWMP projections could only be supported if reclaimed water was utilized.

For additional reclaimed water to be utilized, it would require either 1) that the increased growth was in the form of reuse projects or 2) that a portion of residential and commercial water use be converted to reclaimed water.

3.2 DROUGHT YEAR SUPPLY IMPACTS

The degree to which local or regional drought could impact Goodyear's balance of supply versus demand was also assessed and as Table 5 shows, the effect is minimal. The assumptions under which the evaluation was performed include:

- Twenty five percent reduction in CAP surface water supplies.
- No reduction in WSRV, Rainbow Valley or Adaman Mutual groundwater.
- LPSCO groundwater supply is interrupted.
- No reduction in reclaimed water resources.

Table 5: City of Goodyear Supply vs. Demand – Drought

	2007	2012	2017	2045
POTABLE SYSTEM BALANCE				
Surface Water Resources	2,941	14,780	14,780	14,780
Groundwater Resources	91,658	91,658	91,658	91,658
Potable Demand	7,352	20,442	44,288	103,284
Reject Brine	735	1,484	2,749	8,358
Balance =	**86,512**	**84,512**	**59,401**	**-5,204**
Percent of Potable Water Supply Utilized =	**8.5%**	**20.6%**	**44.2%**	**104.9%**
NON-POTABLE SYSTEM BALANCE				
Reclaimed Water Production	3,909	10,080	20,720	47,936
Reuse Demand	0	5,824	9,520	23,856
Balance Available for Recharge =	**3,909**	**4,256**	**11,200**	**24,080**
Percent of Reclaimed Water Supply Utilized for Reuse=	**0.0%**	**57.8%**	**45.9%**	**49.8%**
TOTAL SUPPLY VERSUS DEMAND				
Total Supply	98,508	116,518	127,158	154,374
Total Demand	8,087	27,750	56,557	135,498
Balance =	**90,421**	**88,768**	**70,601**	**18,876**
Percent of Supply Utilization =	**8.2%**	**23.8%**	**44.5%**	**87.8%**

From the above comparison of demand versus available supply in a drought year, it can be seen that:

- The Drought reduced supply will be sufficient to meet potable and non-potable system demands over the near term.
- At Build-out, the City's potable water supply will fall 4 percent short of the potable water demand in a drought year, as a result of potential reductions in surface water (CAP) deliveries.
- The 5,204 af/yr shortfall in surface water resources during a drought year could be offset by pumping additional groundwater.

It was concluded that Goodyear's water portfolio is not highly susceptible to drought year cutbacks and in fact being primarily groundwater based is relatively secure, even under drought conditions. A 6 percent increase in groundwater pumping or a 5 percent decrease in demand during a drought year would offset the anticipated reduction in surface water supplies.

4.0 SUSTAINABILITY

In an effort to halt severe groundwater over pumping, the Arizona Legislature adopted a comprehensive groundwater code in 1980. The Groundwater Code dictates strict requirements for the use of groundwater resources within the Phoenix Active Management Area (AMA) with the ultimate goal of halting groundwater mining and achieving safe yield. Goodyear's service area falls within the Phoenix AMA and groundwater pumping must therefore comply with the safe-yield requirements.

In simple terms, the concept of safe yield requires that one ac-ft of groundwater be recharged for each ac-ft of groundwater pumped. Table 6 shows the projected levels of recharge and the quantity of long-term storage credits (LTSC) which the City is projected to earn and compares this with projected levels of groundwater pumping.

Table 6: Long Term Storage Credits (LTSC) versus Pumping

Credits	2007 (af/yr)	2012 (af/yr)	2017 (af/yr)	2045 (af/yr)
Reclaimed Water Recharge	3,909	4,256	11,200	24,080
Incidental Recharge	294	818	2,152	5,393
CAP recharge	3,681	14,106	2,906	0
In-Lieu Credit	10,000	10,000	6,400	0
Total LTSC Earned Annually	**17,884**	**29,180**	**22,658**	**29,473**
Annual Groundwater Pumping	**8,087**	**16,326**	**30,237**	**91,274**
Safe-Yield Surplus or (Shortfall)	**9,797**	**12,854**	**(7,579)**	**(61,801)**

Projections show that the City currently meets the safe-yield requirement and will continue to do so over the near-term. The primary reason for this is that pumping levels are currently low and the City has unused CAP water resources which are being recharged. However, the City will fall significantly short of meeting safe yield requirements in the future, as groundwater pumping increases and CAP resources are put fully to use for potable water supply. A brief discussion of each of the sources of recharge from which the City earns long term storage credits is provided below.

Reclaimed Water Recharge: Reclaimed water which is not reused will be recharged to Long-Term Storage Credits. Goodyear recharges close to all of the reclaimed water produced in 2007 because reuse is currently minimal. However recharge volumes are projected to increase significantly in the future as the City develops because the growth in reclaimed water production is projected to outpace growth in reuse demand. Over the long run, reclaimed water will be the City's primary source of recharge, making it vitally important that the quality of this resource be protected and that 100 percent of what is not reused for irrigation, be recharged to earn LTSC.

Incidental Recharge: Some of the potable water delivered to customers ends up being "incidentally" recharged into the aquifer because a small percentage of what is applied as irrigation of outdoor landscaping, percolates through to the underlying aquifer. Other factors, such as pipe leakage also contribute to incidental recharge. The volume of incidental recharge is dependent upon municipal and industrial demand and use efficiency. As established by ADWR, the amount of incidental recharge in a municipal setting is 4% of potable and reuse demand. For Goodyear the incidental recharge is calculated by multiplying Goodyear's total annual water demand by 4 percent.

CAP Long Term Storage Credits: The City is currently recharging unused portions of their CAP allocation until the infrastructure is put in place which will allow them to fully utilize the resource as potable water supply. By the end of the near-term 2017, it is anticipated that the City will be utilizing 16,800 af/yr of their allocation, leaving only 2,906 to be recharged. By buildout, the City will no longer be recharging CAP resources but will instead be utilizing 100 percent to meet potable water demands.

In lieu credit: The City initiated an in-lieu recharge program where the City of Goodyear receives credits for CAP water that is diverted to farmers who would other wise use groundwater for crop irrigation. The City is able to purchase CAP water at the Incentive Recharge rate and receive a reimbursement form its irrigation district partner.

In years where recharge exceeds pumping, the surplus of LTSC earned is banked and to date the City has roughly 150,000 ac-ft of LTSC banked. These banked credits can be spent in years when there is a shortfall, however it can be seen that the 63,063 af/yr shortfall projected for buildout onward could not be sustained but for a few years using banked credits. Sustainable groundwater pumping basically requires that sufficient credits are earned each year to offset groundwater pumping. And on top of this, it is prudent to keep a positive balance in the groundwater account because it is banked credits which will be spent in years drought, when surface water supplies are cut and groundwater pumping is increased.

Methods by which the long-term safe-yield shortfall can be mitigated and the City's groundwater pumping returned to a sustainable basis are discussed in the following section on Integrated Resource Management.

5.0 INTEGRATED RESOURCE MANAGEMENT

It was shown above that Goodyear has adequate resources to meet projected demands within the IWMP Planning Area, however the level of groundwater pumping required is not in a sustainable position that meets ADWR safe-yield requirements. In order to properly mitigate this issue, it is first necessary understand the manner in which the City's resources and infrastructure are linked together in a larger integrated system. Figures 3, 4, and 5 show the linked pathway followed through the City's integrated infrastructure under Base-Year, Intermediate (2017) and Buildout conditions.

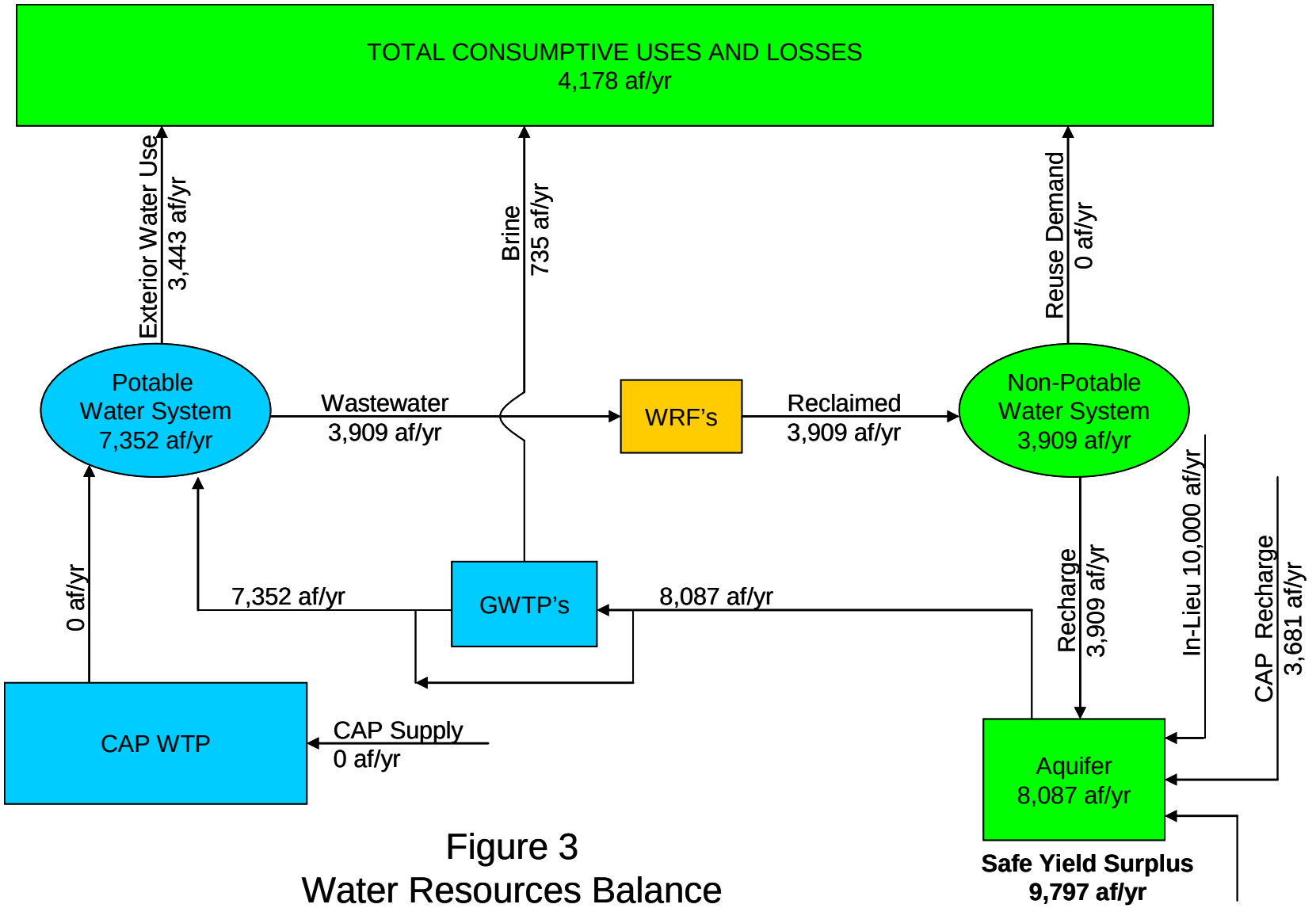


Figure 3
Water Resources Balance
Base Year

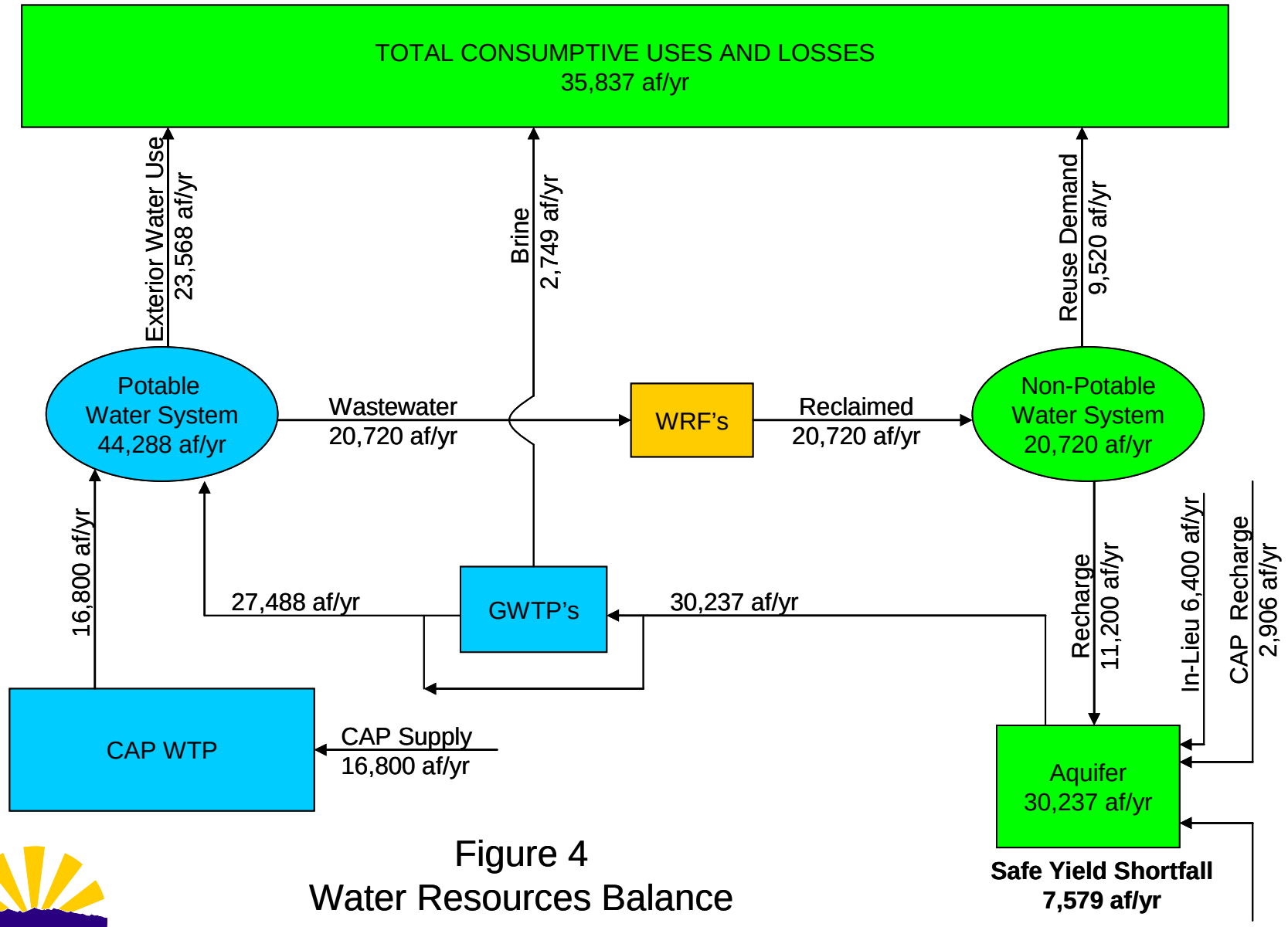


Figure 4
Water Resources Balance
2017

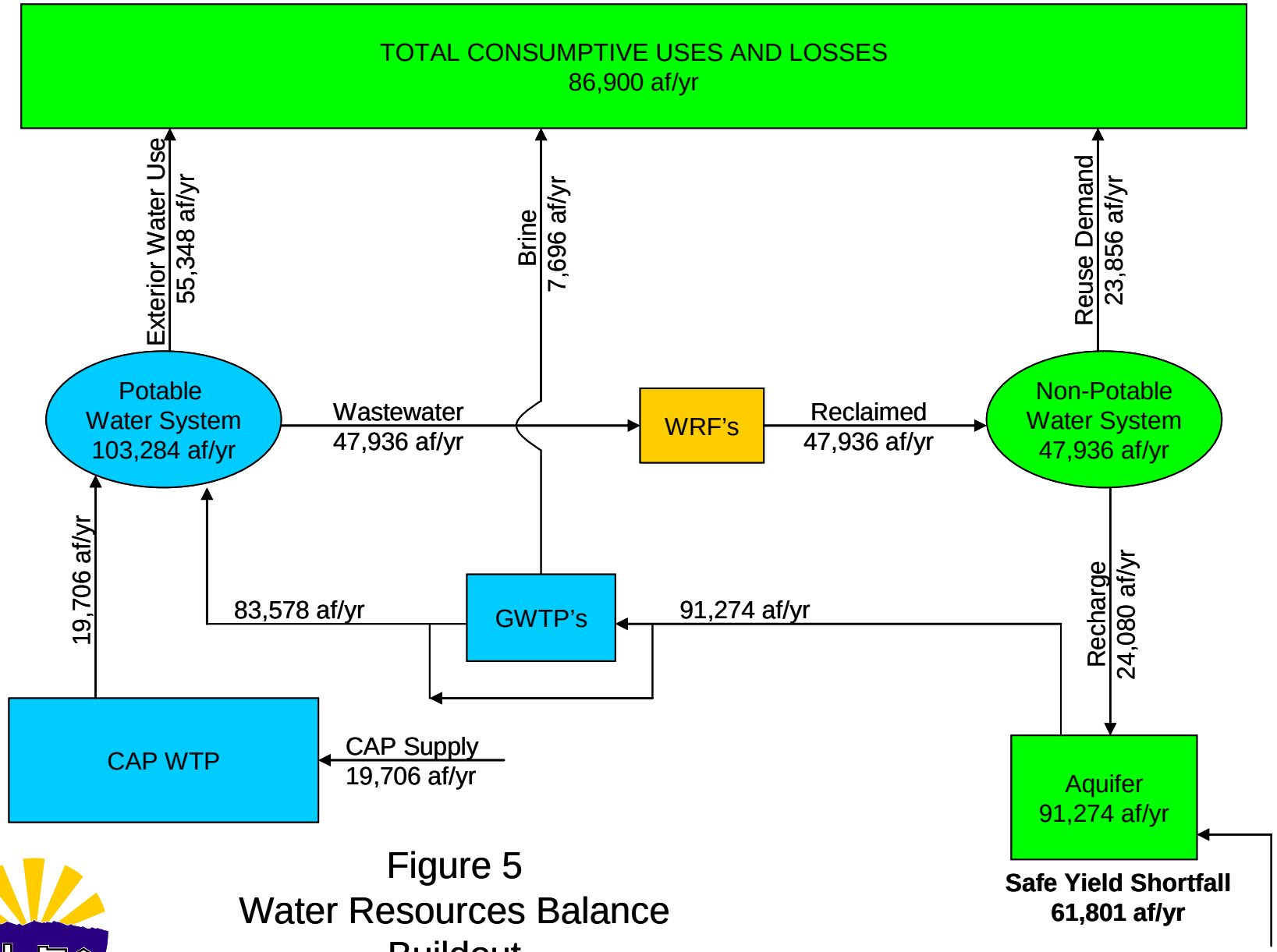


Figure 5
Water Resources Balance
Buildout

The key issue is that more water is being pumped from the aquifers, than is being recharged. Based on the flow charts presented, a number of strategies could be employed to close or narrow this gap and achieve safe-yield. The proposed strategies include:

1. Purchase or Develop Recharge Credits
2. Obtain Additional Imported Surface Water
3. Water Conservation
4. Reduce Waste Brine
5. Reduce Reclaimed Water Reuse
6. Pump from Buckeye Waterlogged Area

5.1 PURCHASE OR DEVELOP RECHARGE CREDITS

The City can move toward meeting their safe-yield requirement and putting their groundwater pumping plan on a sustainable basis simply by purchasing or developing additional recharge credits. The credits can accrue to Goodyear, even though the actual recharge may occur elsewhere within the Phoenix AMA. ADWR only requires that the recharge be accomplished within the overall Phoenix AMA. There are a number of ways that the City can obtain additional recharge credits:

CAGRD. The Central Arizona Groundwater Replenishment District (CAGRD) was established legislatively in 1993 to replenish excess groundwater pumped by its members within three years after the water is withdrawn. The City of Goodyear became a member in October of 2001. The contract between the City and CAGRD defines an upper limit of 10,000 ac-ft/yr as the amount of water that CAGRD will replenish on behalf of the City. CAGRD currently operates several recharge facilities within the Phoenix AMA including the Agua Fria, Hieroglyphic Hills, GRUSP and NAUSP. Members pay a tax based on the amount of groundwater pumped, which covers the cost to convey and recharge the CAP resource. The tax equals the capital charge + O&M charge plus an additional fee to cover the cost of operating the recharge facility.

Intergovernmental Agreement. The City could enter into a long-term Intergovernmental Agreement to purchase excess reclaimed water available at another other municipality or governmental entity within the Phoenix AMA and pay to have the water recharged. There are a number of ways that such an agreement could be structured, but it is anticipated that the resulting cost, on a per ac-ft basis would be roughly equal to the market cost for CAP water.

5.2 OBTAIN ADDITIONAL IMPORTED SURFACE WATER

Obtaining additional surface water will allow groundwater pumping to be reduced and will have a one to one improvement in sustainability; that is for each ac-ft of imported surface water obtained, the safe yield shortfall will be reduced by an ac-ft. Additional surface water could be obtained from:

Future Re-Allocations of CAP Resources. The CAP's 1.5 maf of Colorado River water is divided among a variety of M&I, Indian and Agricultural subcontractors and since operations began in 1985 there have been several adjustments or re-allocations of the 1.5 maf total. Goodyear may receive additional allocations in the future as ongoing litigation is settled and subcontracts are adjusted. The cost to Goodyear would be the same as current CAP capital and O&M costs.

99-year Lease of CAP Resources from an Indian Community. Roughly one third of the Colorado River Water delivered by the CAP is allocated to Indian Nations located in Arizona. In some instances, Indian communities have chosen to lease portions of their allocation to M&I subcontractors. Leases can be written for up to 99 years. The cost to Goodyear would be the same as current CAP capital and O&M costs.

Purchase Main Stem Colorado River Water Rights. Goodyear could purchase water rights from a private party with rights to water on the main stem of the Colorado River. The cost of the purchase would be negotiated at market value. Once obtained, the water would need to be wheeled to Goodyear, presumably through the CAP canal system under agreement with the CAWCD. To date, no agreements exist for wheeling non-CAP water through the CAP. It could be assumed that the wheeling cost would equal current Capital + O&M charges plus a nominal administrative fee.

5.3 WATER CONSERVATION

Conservation measures which reduce potable water demand will help to close the safe-yield gap but only if it is the exterior fraction of potable water use which is reduced. As can be seen from Figure 5, a 1.0 ac-ft reduction in exterior water use reduces groundwater pumping by 1.1 ac-ft, without reducing reclaimed water production or recharge. In contrast, a 1.0 ac-ft reduction in interior water use reduces groundwater pumping by 1.1 ac-ft, but at the same time reduces reclaimed water production and recharge by 1.0 ac-ft. As a result, even though water consumption is reduced, little headway is made on reaching sustainability, because in a closed loop system, it is the losses from the system that must be curbed, not the recycled streams.

Reducing exterior water uses could be accomplished through instituting appropriate municipal ordinances which would prohibit and/or limit certain landscaping practices such as turf and guide the community towards low water use landscaping and efficient irrigation systems. Exterior water use is projected to reach 55,348 af/yr at buildout by extension of current per dwelling unit rates. A one third reduction in outdoor water uses would result in a 18,449 ac-ft reduction in potable demand and a 20,499 af/yr reduction in pumped groundwater.

Conservation will not only play an important role in helping the City to meet ADWR's Safe-Yield requirements but can also translate into significant savings in both Capital Investment and annual O&M costs. The ADWR in their third management plan established the following goals for residential interior and exterior water use:

- Single family and multifamily interior use of 57 gpcd
- Exterior water use for single family residential development of 189 GPHUD
- Exterior water use for multifamily housing unit of 77 GPHUD

Historical residential per-capita water use in Goodyear was calculated based on residential metered sales and population data and is shown in Table 7.

Table 7: Residential Per-Capita Water Use

Year	Population[1,2]	Avg. Day Residential Sales (mgd)	Residential Per-Capita Use (gpcd)	Avg. Day Non-Residential Sales (mgd)	Avg. Day Non-Residential Sales (gpcd)	Combined Sales (gpcd)	ADWR Third Management Plan Goal (Combined gpcd)
2001	15,746	1.46	93.00	1.48	93.76	186.76	274
2002	18,433	1.79	97.17	1.45	78.66	175.83	253
2003	20,900	2.17	103.80	1.63	78.01	181.81	253
2004	24,709	2.77	112.10	1.76	71.23	183.33	253
2005	28,456	3.11	109.20	2.59	91.18	200.38	235
Average			**103.05**			**185.62**	

Notes:
1. Only includes WPA2-WPA5 since WPA1 is served by others.
2. GIS Census block analysis indicates that 69% of the total population is located within WPA2-WPA5.

As shown in Table 7, Goodyear's *combined sales* gpcd unit rate has been consistently below the Arizona Department of Water Resources (ADWR) Third Management Plan goals for water conservation for the years listed. Currently at 200 gpcd (in 2005) it also complies with the long-term goal of 217 gpcd set by ADWR for combined residential and non-residential demand.

However, it is worth noting that the raw gpcd increased by 25 gpcd between 2002 and 2006 and the percentage of the ADWR goal has been steadily rising from 68% to 85% of the ADWR goal.

The single-family residential GPCD in the City at present is 113 GPCD, that puts the City ahead of many Western cities as shown in Table 8

Table 8: Comparison of Single-Family Residential Water Usage

SELECTED WESTERN CITIES	SINGLE FAMILY RESIDENTIAL (GPCD)
Albuquerque, New Mexico	95
City of Goodyear	113
El Paso, Texas	114
Tucson, Arizona	120
Mesa, Arizona	123
Glendale, Arizona	131
Tempe, Arizona	140
Phoenix, Arizona	165
Scottsdale, Arizona	169
Las Vegas, Nevada	230
Sacramento, California	242

5.4 REDUCE WASTE BRINE

At buildout, the majority of the City's potable supply will come from treated groundwater and the waste brine rejected from this process projected to reach 11,300 af/yr. A 1.0 ac-ft reduction in the quantity of waste brine produces an equal saving in pumped groundwater and in closing the safe-yield gap. Methods by which the quantity of waste brine can be reduced include:

Improved Permeate Recovery. An 85 percent permeate recovery and 15 percent reject rate was assumed when treating the 2,000 to 3,000 ppm TDS brackish groundwater in the WSRV and Rainbow Valley aquifers. Through the application of improved technology and careful process operation, the City should be able to improve permeate recovery rates. The IWMP is structured around using fewer and larger centralized groundwater WTPs (instead of many individual well-head facilities) in order to improve the likelihood that state-of-the-art processes can be employed along with skilled operator attention.

Improved Groundwater Quality. The recharge and recovery well-fields in the Rainbow Valley have been configured and planned so as to produce an improvement in groundwater quality over time. Through steady recharge of reclaimed water with a TDS of roughly 600 ppm TDS, it is hoped that the 2,000 to 3,000 ppm TDS of the groundwater will be gradually improved, allowing a higher percent age of the raw groundwater to bypass the RO process and producing significantly less brine overall.

A 50 percent reduction in waste brine would close the safe-yield gap by roughly 6,000 af/yr and while this is less than 10 percent of the credits needed, it would represent a very large savings in brine disposal costs, reaching into thousands of acres of land and many millions of dollars saved. Because of the multiple benefits, the City should continue to explore and implement all avenues to brine reduction which are found to be feasible.

5.5 REDUCE RECLAIMED WATER REUSE

Contrary to the general assumption, reducing rather than increasing reclaimed water reuse will help to close the safe-yield gap and help the City achieve a sustainable resource position. A 1.0 af/yr reduction in reclaimed water reuse directly translates into a 1.0 af/yr increase in recharge which closes the safe yield gap by the same amount.

Furthermore, switching water use from potable water to reclaimed water does not "save" water or close the recharge gap either. As mentioned before, in an integrated system such as is planned for Goodyear, the consumptive losses must be reduced and the recycled fraction must be increased in order to improve sustainability.

Given that 30,600 af/yr are projected for reclaimed water reuse at buildout, a one-third reduction in the projected acreage turf, lakes and landscaping would produce a 10,200 increase in reclaimed water available for recharge and help to close the safe yield gap.

5.6 PUMPING FROM BUCKEYE WATERLOGGED AREA

The western portion of the WSRV, along the Gila River have been declared to be a "waterlogged" area by ADWR and water pumped from a waterlogged area is free from safe-yield recharge obligations. Therefore, each ac-ft of WSRV water that is pumped from the waterlogged area, closes the safe-yield gap by one ac-ft. It is not known at this point, how much of the 61,600 af/yr that Goodyear is to pump from the WSRV can be withdrawn from the Buckeye Waterlogged area. Nor is it known if it would be able to retain its water-logged status should pumping result in a significant decrease in water levels.

For the purposes of this IWMP, it is assumed that pumping from the waterlogged area would not produce reliable long term benefits but could prove beneficial over the interim years at lower initial pumping levels. It is recommended that further hydro-geologic investigations be made to see if longer-term benefits can be obtained by pumping from the Buckeye waterlogged area.

WATER PRODUCTION PLAN
TECHNICAL MEMORANDUM NO. 1 – 4

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1.0 INTRODUCTION

The City of Goodyear relies on their water production infrastructure to provide treated water of sufficient quantity and quality to meet projected demands and comply with the potable water standards of the Safe Drinking Water Act (SDWA). In order to develop a water production plan, seasonal variations in supply and demand must be carefully balanced with water quality constraints associated with the groundwater and surface water resources available to the City. The purpose of this memorandum (TM) is to formulate viable water production alternatives by which the identified raw water resources can be received, treated to potable water standards and delivered to storage reservoirs or other points of entry into the distribution system.

2.0 WATER QUALITY

2.1 WATER QUALITY PARAMETERS

Providing high quality water is an increasingly complex challenge which all utilities face. Key water quality issues analyzed for this Master Plan are the result of:

- Ever more strict regulatory standards in the Federal Safe Drinking Water Act.
- Higher consumer expectations with regard to tap water quality.
- Decreasing quality within surface water and groundwater resources.

In order to meet future demands, the City's groundwater and surface water production capacity must be increased significantly. Key parameters of concern associated with the utilization of Goodyear's groundwater and surface water resources are provided in Table 1 and a description of the Safe Drinking Water Act (SDWA) regulatory limit follows.

Table 1: SDWA Regulatory Limits

Regulated Parameter	Maximum Contaminant Level (MCL)
TDS[1]	500 ppm
Nitrate	10 ppm
Arsenic	10 ppb
Fluoride	4.0 ppm
TCE	0.005 ppm
TTHM	80 ppb
HAA5	60 ppb
1. Secondary SDWS, no Primary SDWS is set for TDS.	

Total Dissolved Solids (TDS). Total Dissolved Solids (TDS) are the total of salts dissolved in water, made up of anions such as bicarbonates and carbonates, chlorides, sulfates, and silica, and cations such as sodium, calcium, and magnesium. TDS originate in natural geologic formations and are concentrated in processes such as irrigation return and field run-off, water reclamation, and membrane technologies. USEPA does not regulate TDS as a primary contaminant in drinking water, but non-enforceable guidelines recommend a secondary standard of $\leq$ 500 mg/L for aesthetic effects.

Nitrate and Arsenic. Decades of agriculture and its use of chemical fertilizers has lead to high levels of nitrate in aquifers throughout much of Maricopa County. Arsenic, a naturally occurring mineral in the valley's groundwater will also become more of an issue beginning in 2006 when the maximum allowable contaminant level decreases from 50 parts per billion (ppb) to 10 ppb. Several City wells are currently at or over the future 10 ppb limit.

Tri-chloroethylene (TCE). Tri-chloroethylene is an organic solvent commonly used by the aero-space industries. A plume of TCE contamination, found in the eastern portion of WPA2, is classified as an EPA Superfund Site. Efforts to contain the plume and remediate the site consist of pumping the contaminated groundwater, removing the TCE by air-stripping and then discharging the treated water to the sewer.

TTHM and HAA5. Tri-halogenated methane (TTHM) and halo-acetic acids (HAA5) are disinfection by-products which form from the reaction of trace levels of organics found in surface waters with chlorine, which is used for disinfection. Compliance with SDWA limits for TTHM and HAA5 will need to be achieved when Goodyear begins utilizing their CAP surface water resources.

2.2 GROUNDWATER QUALITY AND TREATMENT TECHNOLOGY

Historically, the City of Goodyear had been able to pump and utilize groundwater directly for potable supply purposes without treatment other than chlorination. However, tightening water quality regulations and steadily declining groundwater quality has lead to the need to treat virtually all groundwater supplied in order to comply with SDWA standards. A brief overview of groundwater quality follows. A detailed discussion can be found in TM1-3 and in the Groundwater Flow Model Report, Burgess & Niple, November 2007.

WPA2 Groundwater. Of the 17 municipal wells located in WPA2, 7 have been de-activated due to the presence of contaminants. Of the 10 active wells, only one currently meets drinking water standards and treatment is required at the other nine wells in order to comply

with drinking water standards. The contaminants found in WPA2 groundwater includes: TDS, nitrate, arsenic and fluoride. A Federal EPA Superfund Site also exists within WPA2 as a result of TCE and perchlorate contamination; however no potable system wells are active in this area. Based on the historic record and trends observed, it was assumed in the Master Plan that all water pumped within WPA2 will require treatment.

Southern Planning Area Groundwater. The City does not have any municipal supply wells currently active in the Southern Planning Area comprised of WPA3, WPA4 and WPA5. However the general quality of groundwater within the Rainbow Valley is well known from records associated with a long history of agricultural activity and a number of exploratory wells more recently drilled into the Rainbow Valley aquifer. The groundwater can be generally characterized as brackish water with a TDS in the range of 1,000 to 4,000 ppm and with varying levels of nitrate, arsenic and fluoride which exceed the SDWA limit at many locations. Without exception, every well in the record analyzed shows that one or more of the following parameters exceeds SDWA standards; TDS, nitrate, arsenic and/or fluoride. Based on the historic record and trends observed, it was assumed in the Master Plan that all water pumped from the Rainbow Valley aquifer in the Southern Planning Area will require treatment.

Adaman Mutual Groundwater. The City provided Black & Veatch with records of water quality from three wells within the Adaman Mutual service area. Two of these wells were found to exceed allowable nitrate levels and one exceeded allowable arsenic levels. Based on this historic record and trends observed in the Salt River Valley, it was assumed that all water pumped from Adaman Mutual wells will require treatment.

Based on the available water quality record and trends observed, it was assumed in the Master Plan that all groundwater will require treatment in order to meet SDWA standards. In order to configure supply, treatment and distribution infrastructure and develop planning level cost estimates, it was assumed that the following treatment technologies would be utilized. A more detailed analysis at the preliminary design stage may result in the alternative recommendations, however the following are effective and commonly applied technologies and are valid assumptions at the Master Planning level.

Reverse Osmosis. Reverse osmosis (RO) utilizes selectively permeable membranes which permit purified water to pass under pressure but which retain virtually all dissolved minerals and organics in a concentrated brine. RO treatment is a proven technology which effectively reduces TDS levels to well below the 500 ppm secondary limit and also removes nitrate and arsenic in the process. For planning purposes, it can be assumed that roughly 85 percent of

the raw water will be recovered as low TDS permeate whereas 15 percent will be rejected as waste brine. It is assumed that RO treatment will be utilized for the treatment of high TDS groundwater, especially where nitrate and/or arsenic may also require treatment.

Ion Exchange. Ion exchange treatment involves the use of resins which adsorb ions such as nitrate and arsenic from the water being treated. There are a variety of resins available and they are chosen based on their selectivity for the target ion(s). When the adsorptive capacity of the resin is reached, it is regenerated with a high strength sodium chloride brine solution and the waste brine, laden with nitrate and/or arsenic must then be disposed of. For low TDS wells, where the contaminant is nitrate or nitrate and arsenic, it is assumed that the ion-exchange process would be utilized as it requires less energy and produces less brine waste than does the RO process. Ion exchange would not be utilized for the treatment of high TDS groundwater as it does not reduce TDS. Nor would it be recommended if the only contaminant were arsenic as there are more efficient processes for arsenic alone.

Coagulation-Filtration. Arsenic can be effectively removed from solution through the use of the coagulation-filtration (CF) process. In this case iron salts such as ferric or ferrous chloride are utilized to precipitate arsenic from solution and the coagulated iron salt with the precipitated arsenic is settled and filtered from the treated water. The settled coagulant and filter backwash can normally be discharged to the sewer, or concentrated and hauled to a landfill. For wells where the only contaminant is arsenic, it is assumed that the CF process would be utilized as it requires less energy than RO and it does not produce a brine waste. The CF process would not be utilized for the treatment of high TDS groundwater or where nitrate is present as it does not lower TDS levels or remove nitrate.

Blending. In certain cases, the cost of treatment can be avoided or reduced by blending contaminated groundwater with another source of higher quality water. In Goodyear's case, groundwater with high nitrate or arsenic levels could be blended with treated CAP surface water which has low levels of nitrate and arsenic. Blending with CAP water would not be utilized as a method to lower groundwater TDS because CAP water exceeds the 500 ppm secondary MCL.

2.3 SURFACE WATER QUALITY AND TREATMENT TECHNOLOGY

The City's surface water resources consist of Colorado River water delivered by the CAP. There are a number of treatment processes which can effectively meet SDWA turbidity and disinfection standards and it is assumed that the selection will be made based upon a detailed study at the preliminary design stage.

The TDS of Colorado River water received through the CAP is in the 700 to 800 ppm range. And, while this exceeds the secondary MCL of 500 ppm, it is standard practice among central Arizona municipalities not to treat CAP water for TDS, but to supply it to customers at the 700 to 800 ppm range. This is because:

- TDS is a secondary MCL where 500 ppm is recommended but not required.
- Exceeding the standard by 50 percent is not severe.
- Adding reverse-osmosis would greatly increase treatment costs.

Compliance with the Stage II DBP Rule is another factor which much be considered when utilizing surface water supplies. There are many factors which affect the formation of DBPs, but the primary methods through which compliance with the new DBP standards can be realistically achieved include reducing the level of total organic carbon (TOC) in the influent raw water or by limiting water aging within the distribution system.

Total Organic Carbon (TOC). By reducing the level of organic carbon prior to the application of chlorine, the potential level of DBPs that will ultimately form can be kept below the MCL. Treatment with activated carbon is the process normally used to lower organic carbon levels.

Water Age. The reaction of chlorine with dissolved organics is not instantaneous and can require 5 days or more to run to completion. DBP levels can also be controlled by limiting water aging which occurs following the application of chlorine through proper design and operation of the distribution system.

The practical experience gained by municipalities which are already using CAP water indicate that both TOC levels and water age will need be controlled and maintained within reasonable levels and that it is not practical or cost effective to achieve compliance using either TOC control or water age control alone.

3.0 WATER PRODUCTION PLAN

Water Production Plans were developed providing a balance between the seasonal demands tabulated in TM 1-2 and resource constraints established in TM 1-3. The key parameters and criteria which were addressed include:

- Determine water production rates required for each month of the year and max day.
- Provide for full utilization of the annual CAP resource at a flat, base-rate without seasonal peaking.
- Determine production capacity required from alternate resources during a CAP Dry-up (in the month of November).
- Provide for full utilization of the Adaman Mutual resources at a flat, base-rate without seasonal peaking.
- Maintain groundwater utilization within the annual pumping limits established in the Groundwater Flow Model; utilizing 42,280 af/yr from WPA2 and 31,775 af/yr from WPA4/5 after setting aside 30,000 ac-ft for Sonoran Valley.
- Account for the portion of groundwater pumping from WPA2 and WPA4/5 which is lost each year as rejected brine.

Table 2 (Base Year), Table 3 (2017), and Table 4 (Buildout), present the detailed water balance showing how each of the above conditions were met over the course of a year.

TABLE 2
WATER BALANCE SPREADSHEET (REV)
BASE YEAR (2007) NORMAL SUPPLY

	Annual Average		Jan (min month)		February		March		April		May		June		July (max month)		August		September		October		November		December	
	af/yr	mgd	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)
DEMAND																										
WPA 2	5,630	5.0		**3.2**		3.2		3.6		4.6		5.6		6.4		**6.8**		6.5		6.1		5.5		4.7		4.0
WPA 3	2,068	1.8		**1.2**		1.2		1.3		1.7		2.1		2.4		**2.5**		2.4		2.2		2.0		1.7		1.5
WPA 4	224	0.2		**0.1**		0.1		0.1		0.2		0.2		0.3		**0.3**		0.3		0.2		0.2		0.2		0.2
WPA 5	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
Total MP Demand =	**7,923**	**7**	**0.65**	**4.6**	0.65	4.6	0.72	5.1	0.91	6.4	1.11	7.9	1.28	9.1	**1.36**	**9.6**	1.30	9.2	1.21	8.6	1.09	7.7	0.94	6.6	0.79	5.6
MP Max Day Demand =				**5.7**		5.7		6.4		8.1		9.9		11.3		**12.0**		11.5		10.7		9.6		8.3		7.0
SUPPLY																										
Surface Water																										
CAP - White Tanks WTP	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
Total Surface Water =	**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**
Groundwater (MP)																										
WPA 2 Pumped	7,933	7.1		**4.6**		4.6		5.1		6.4		7.9		9.1		**9.6**		9.2		8.6		7.7		6.6		5.6
WPA 2 Brine	793.3	0.7		**0.5**		0.5		0.5		0.6		0.8		0.9		**1.0**		0.9		0.9		0.8		0.7		0.6
Total WPA 2 Groundwater (MP)	**8,727**	**7.8**		**5.1**		**5.1**		**5.6**		**7.0**		**8.7**		**10.0**		**10.6**		**10.1**		**9.5**		**8.5**		**7.3**		**6.2**
WPA 4 / 5 Pumped	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
WPA 4 / 5 Brine	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
Total Rainbow Valley Pumping	**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**
LPSCO	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
Adaman Mutual Water Co.	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
Total Groundwater Water Pumped=	**8,727**	7.8		**5.1**		**5.1**		**5.6**		**7.0**		**8.7**		**10.0**		**10.6**		**10.1**		**9.5**		**8.5**		**7.3**		**6.2**
Total Groundwater Water Supplied=	**7,933**	**7.1**		**4.6**		**4.6**		**5.1**		**6.4**		**7.9**		**9.1**		**9.6**		**9.2**		**8.6**		**7.7**		**6.6**		**5.6**
Total Water Supplied (MP) =	**7,933**	**7.1**		**4.6**		**4.6**		**5.1**		**6.4**		**7.9**		**9.1**		**9.6**		**9.2**		**8.6**		**7.7**		**6.6**		**5.6**
HYDRAULIC TRANSFER (+ North & - South)	Annual Balance (ac-ft) -2,303		(ac-ft) -127	(mgd) -1.4	(ac-ft) -126	(mgd) -1.4	(ac-ft) -137	(mgd) -1.5	(ac-ft) -170	(mgd) -1.8	(ac-ft) -214	(mgd) -2.3	(ac-ft) -249	(mgd) -2.7	(ac-ft) -260	(mgd) -2.8	(ac-ft) -250	(mgd) -2.7	(ac-ft) -235	(mgd) -2.5	(ac-ft) -209	(mgd) -2.2	(ac-ft) -175	(mgd) -1.9	(ac-ft) -151	(mgd) -1.6

SUPPLY UTILIZATION

	Available	Production	Unused
CAP =	3,681	0	3,681
WPA 2 Wells =	47,238	8,727	38,511
WPA 4/5 Wells =	33,220	0	33,220
Adaman =	11,200	0	11,200
LPSCO =	3,360	0	3,360
Total =	**98,699**	**8,727**	**89,972**

PEAK DAY JULY

PRODUCTION (mgd)			DEMAND (mgd)	
CAP WTP =	0.0		8.5	WPA2
North Groundwater =	12.0		3.1	WPA3
South Groundwater =	0.0		0.3	WPA4
	12.0	**Total**	0.0	WPA5
			12.0	**Total**
Hydraulic Transfer =	**-3.5**			

PEAK DAY NOVEMBER (with CAP Dry-Up)

Not Needed for 2007

TABLE 3
WATER BALANCE SPREADSHEET (REV)
YEAR 2017 NORMAL SUPPLY

	Annual Average		**Jan (min month)**		February		March		April		May		June		**July (max month)**		August		September		October		November		December	
	af/yr	mgd	**Peaking Factor**	**Flowrate (mgd)**	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	**Peaking Factor**	**Flowrate (mgd)**	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)
DEMAND																										
WPA 2	16,430	14.7		**9.5**		9.5		10.6		13.4		16.4		18.8		**19.9**		19.0		17.7		15.9		13.8		11.6
WPA 3	11,019	9.8		**6.3**		6.4		7.1		9.0		11.0		12.6		**13.3**		12.8		11.9		10.7		9.2		7.8
WPA 4	12,702	11.3		**7.3**		7.3		8.2		10.3		12.6		14.5		**15.4**		14.7		13.7		12.3		10.7		9.0
WPA 5	1,823	1.6		**1.1**		1.1		1.2		1.5		1.8		2.1		**2.2**		2.1		2.0		1.8		1.5		1.3
Total MP Demand =	**41,974**	**37.5**	**0.65**	**24.2**	0.65	24.2	0.72	27.1	0.91	34.2	1.11	41.8	1.28	48.0	**1.36**	**50.8**	1.30	48.6	1.21	45.3	1.09	40.7	0.94	35.2	0.79	29.7
MP Max Day Demand =				**30.2**		30.2		33.9		42.7		52.2		60.0		**63.5**		60.8		56.7		50.9		44.0		37.1
SUPPLY																										
Surface Water																										
CAP - White Tanks WTP	16,803	15.0	**1.00**	**15.0**	1.00	15.0	1.00	15.0	1.00	15.0	1.00	15.0	1.00	15.0	**1.00**	**15.0**	1.00	15.0	1.00	15.0	1.00	15.0	1.00	15.0	1.00	15.0
Total Surface Water =	**16,803**	**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**
Groundwater (MP)																										
WPA 2 Pumped	9,455	8.4		**0.5**		0.5		2.0		6.0		14.1		15.0		**15.0**		15.0		12.8		10.0		7.1		3.3
WPA 2 Brine	945.5	0.8		**0.1**		0.1		0.2		0.6		1.4		1.5		**1.5**		1.5		1.3		1.0		0.7		0.3
Total WPA 2 Groundwater (MP)	**10,400**	**9.3**		**0.6**		**0.6**		**2.2**		**6.6**		**15.5**		**16.5**		**16.5**		**16.5**		**14.1**		**11.0**		**7.8**		**3.6**
WPA 4 / 5 Pumped	6,823	6.1		**0.0**		0.0		1.6		5.0		5.0		10.6		**13.6**		11.3		10.0		8.0		5.0		3.0
WPA 4 / 5 Brine	682.3	0.6		**0.0**		0.0		0.2		0.5		0.5		1.1		**1.4**		1.1		1.0		0.8		0.5		0.3
Total Rainbow Valley Pumping	**7,505**	**6.7**		**0.0**		**0.0**		**1.8**		**5.5**		**5.5**		**11.7**		**15.0**		**12.4**		**11.0**		**8.8**		**5.5**		**3.3**
LPSCO	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
Adaman Mutual Water Co.	11,200	10.0		**10.0**		10.0		10.0		10.0		10.0		10.0		**10.0**		10.0		10.0		10.0		10.0		10.0
Total Groundwater Water Pumped=	**29,105**	26.0		**10.6**		**10.6**		**14.0**		**22.1**		**31.0**		**38.2**		**41.5**		**38.9**		**35.1**		**29.8**		**23.3**		**16.9**
Total Groundwater Water Supplied=	**27,477**	**24.5**		**10.5**		**10.5**		**13.6**		**21.0**		**29.1**		**35.6**		**38.6**		**36.3**		**32.8**		**28.0**		**22.1**		**16.3**
Total Water Supplied (MP) =	**44,281**	**39.5**		**25.5**		**25.5**		**28.6**		**36.0**		**44.1**		**50.6**		**53.6**		**51.3**		**47.8**		**43.0**		**37.1**		**31.3**
HYDRAULIC TRANSFER (+ North & - South)	Annual Balance (ac-ft) -21,029		(ac-ft) -1,497	(mgd) -16.0	(ac-ft) -1,496	(mgd) -16.0	(ac-ft) -1,531	(mgd) -16.4	(ac-ft) -1,646	(mgd) -17.6	(ac-ft) -2,124	(mgd) -22.7	(ac-ft) -1,981	(mgd) -21.2	(ac-ft) -1,877	(mgd) -20.1	(ac-ft) -1,958	(mgd) -21.0	(ac-ft) -1,872	(mgd) -20.1	(ac-ft) -1,780	(mgd) -19.1	(ac-ft) -1,711	(mgd) -18.3	(ac-ft) -1,558	(mgd) -16.7

SUPPLY UTILIZATION

	Available	Production	Unused
CAP =	19,706	16,803	2,903
WPA 2 Wells =	47,238	10,400	36,838
WPA 4/5 Wells =	33,220	7,505	25,715
Adaman =	11,200	11,200	0
LPSCO =	3,360	0	3,360
Total =	**114,724**	**45,908**	**68,815**

PEAK DAY JULY

PRODUCTION (mgd)			DEMAND (mgd)	
CAP WTP =	15.0		24.9	WPA2
North Groundwater =	37.0		16.7	WPA3
South Groundwater =	15.0		19.2	WPA4
	67.0	**Total**	2.8	WPA5
			63.5	**Total**
Hydraulic Transfer =	**-27.1**			

PEAK DAY NOVEMBER (with CAP Dry-Up)

PRODUCTION (mgd)		DEMAND (mgd)	
CAP WTP =	0.00	17.2	WPA2
North Groundwater =	28.99	11.5	WPA3
South Groundwater =	15.00	13.3	WPA4
Total	**44.0**	1.9	WPA5
		44.0	**Total**
Hydraulic Transfer =	**-11.8**		

TABLE 4
WATER BALANCE SPREADSHEET (REV)
BUILDOUT YEAR (2045) NORMAL SUPPLY

	Annual Average		**Jan (min month)**		February		March		April		May		June		**July (max month)**		August		September		October		November		December	
	af/yr	mgd	**Peaking Factor**	**Flowrate (mgd)**	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	**Peaking Factor**	**Flowrate (mgd)**	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)	Peaking Factor	Flowrate (mgd)
DEMAND																										
WPA 2	28,447	25.4		**16.4**		16.4		18.4		23.2		28.3		32.5		**34.4**		32.9		30.7		27.6		23.9		20.1
WPA 3	20,761	18.5		**12.0**		12.0		13.4		16.9		20.7		23.7		**25.1**		24.0		22.4		20.1		17.4		14.7
WPA 4	46,256	41.3		**26.7**		26.7		29.9		37.7		46.0		52.9		**56.0**		53.6		50.0		44.9		38.8		32.7
WPA 5	7,899	7.1		**4.6**		4.6		5.1		6.4		7.9		9.0		**9.6**		9.1		8.5		7.7		6.6		5.6
Total MP Demand =	**103,362**	**92.3**	**0.65**	**59.6**	0.65	59.6	0.72	66.7	0.91	84.1	1.11	102.9	1.28	118.2	**1.36**	**125.1**	1.30	119.7	1.21	111.6	1.09	100.3	0.94	86.7	0.79	73.0
MP Max Day Demand =				**74.4**		74.5		83.4		105.2		128.6		147.7		**156.4**		149.6		139.6		125.3		108.3		91.3
SUPPLY																										
Surface Water																										
CAP - White Tanks WTP	19,604	17.5	**1.00**	**17.5**	1.00	17.5	1.00	17.5	1.00	17.5	1.00	17.5	1.00	17.5	**1.00**	**17.5**	1.00	17.5	1.00	17.5	1.00	17.5	1.00	17.5	1.00	17.5
Total Surface Water =	**19,604**	**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**		**17.5**
Groundwater (MP)																										
WPA 2 Pumped	40,255	35.9		**19.0**		19.0		25.0		30.0		40.0		45.0		**50.0**		50.0		46.1		44.7		35.0		27.5
WPA 2 Brine	4,025.5	3.6		**1.9**		1.9		2.5		3.0		4.0		4.5		**5.0**		5.0		4.6		4.5		3.5		2.8
Total WPA 2 Groundwater (MP)	**44,280**	**39.5**		**20.9**		**20.9**		**27.5**		**33.0**		**44.0**		**49.5**		**55.0**		**55.0**		**50.7**		**49.2**		**38.5**		**30.3**
WPA 4 / 5 Pumped	28,887	25.8		**10.0**		10.0		11.2		23.6		32.3		42.6		**44.6**		39.1		35.0		25.0		21.1		15.0
WPA 4 / 5 Brine	2,888.7	2.6		**1.0**		1.0		1.1		2.4		3.2		4.3		**4.5**		3.9		3.5		2.5		2.1		1.5
Total Rainbow Valley Pumping	**31,775**	**28.4**		**11.0**		**11.0**		**12.3**		**26.0**		**35.5**		**46.9**		**49.1**		**43.0**		**38.5**		**27.5**		**23.2**		**16.5**
LPSCO	3,360	3.0		**3.0**		3.0		3.0		3.0		3.0		3.0		**3.0**		3.0		3.0		3.0		3.0		3.0
Adaman Mutual Water Co.	11,200	10.0		**10.0**		10.0		10.0		10.0		10.0		10.0		**10.0**		10.0		10.0		10.0		10.0		10.0
Total Groundwater Water Pumped=	**90,615**	80.9		**44.9**		**44.9**		**52.8**		**72.0**		**92.5**		**109.4**		**117.1**		**111.0**		**102.2**		**89.7**		**74.7**		**59.8**
Total Groundwater Water Supplied=	**83,701**	**74.7**		**42.0**		**42.0**		**49.2**		**66.6**		**85.3**		**100.6**		**107.6**		**102.1**		**94.1**		**82.7**		**69.1**		**55.5**
Total Water Supplied (MP) =	**103,305**	**92.2**		**59.5**		**59.5**		**66.7**		**84.1**		**102.8**		**118.1**		**125.1**		**119.6**		**111.6**		**100.2**		**86.6**		**73.0**
HYDRAULIC TRANSFER	Annual Balance (ac-ft)		(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)	(ac-ft)	(mgd)
(+ North & - South)	-45,977		-3,091	-33.1	-3,090	-33.1	-3,467	-37.1	-3,486	-37.3	-3,938	-42.2	-4,012	-43.0	-4,300	-46.1	-4,440	-47.6	-4,282	-45.9	-4,444	-47.6	-3,888	-41.6	-3,538	-37.9

SUPPLY UTILIZATION

	Available	Production	Unused
CAP =	19,706	19,604	102
WPA 2 Wells =	47,238	44,280	2,958
WPA 4/5 Wells =	33,220	31,775	1,445
Adaman =	11,200	11,200	0
LPSCO =	3,360	3,360	0
Total =	**114,724**	**110,219**	**4,504**

PEAK DAY JULY

PRODUCTION (mgd)			DEMAND (mgd)	
CAP WTP =	17.5		43.1	WPA2
North Groundwater =	89.0		31.4	WPA3
South Groundwater =	50.0		70.0	WPA4
	156.5	**Total**	12.0	WPA5
			156.4	**Total**
Hydraulic Transfer =	**-63.4**			

PEAK DAY NOVEMBER (with CAP Dry-Up)

PRODUCTION (mgd)		DEMAND (mgd)	
CAP WTP =	0.00	29.8	WPA2
North Groundwater =	63.3	21.8	WPA3
South Groundwater =	45.00	48.5	WPA4
Total	**108.3**	8.3	WPA5
		108.3	**Total**
Hydraulic Transfer =	**-33.5**		

Table 5: Buildout Water Production Summary

Source	Annual Average Production (mgd)	Maximum Day Production (mgd)	CAP Outage Production (mgd)	Resource Peaking (factor)
CAP	17.5	17.5	0	1.00
Adaman Mutual	10.0	10	10	1.00
LPSCO	3.0	3.0	0	1.00
WPA2 Groundwater	35.9	76	53.3	2.12
WPA 4/5 Groundwater	25.8	50	45	1.94
Total Demand / Production	**92.2**	**157.5**	**108.3**	**1.70**
Hydraulic Transfer	**36.7**	**56.1**	**28.4**	

From the Water Production Plans above a summary can be made of annual average and maximum day production requirements and the following operational characteristics can be seen:

- Imported Resources; CAP, Adaman Mutual and LPSCO, are utilized at a steady annual average rate without peaking.
- Groundwater Resources; located in WPA2 and WPA4/5 carry all of the seasonal peaking, reaching summer production levels that are roughly 200 percent of the annual average.
- Groundwater peaking at roughly 2 times the annual average exceeds the overall MDD peaking factor of 1.70 AAD.
- On average 36.7 mgd of treated water will be sent from WPA2, into the Southern Planning Area. On a max day 56.1 mgd will be pumped across the Gila River for the Southern Planning Area.

4.0 WATER PRODUCTION INFRASTRUCTURE

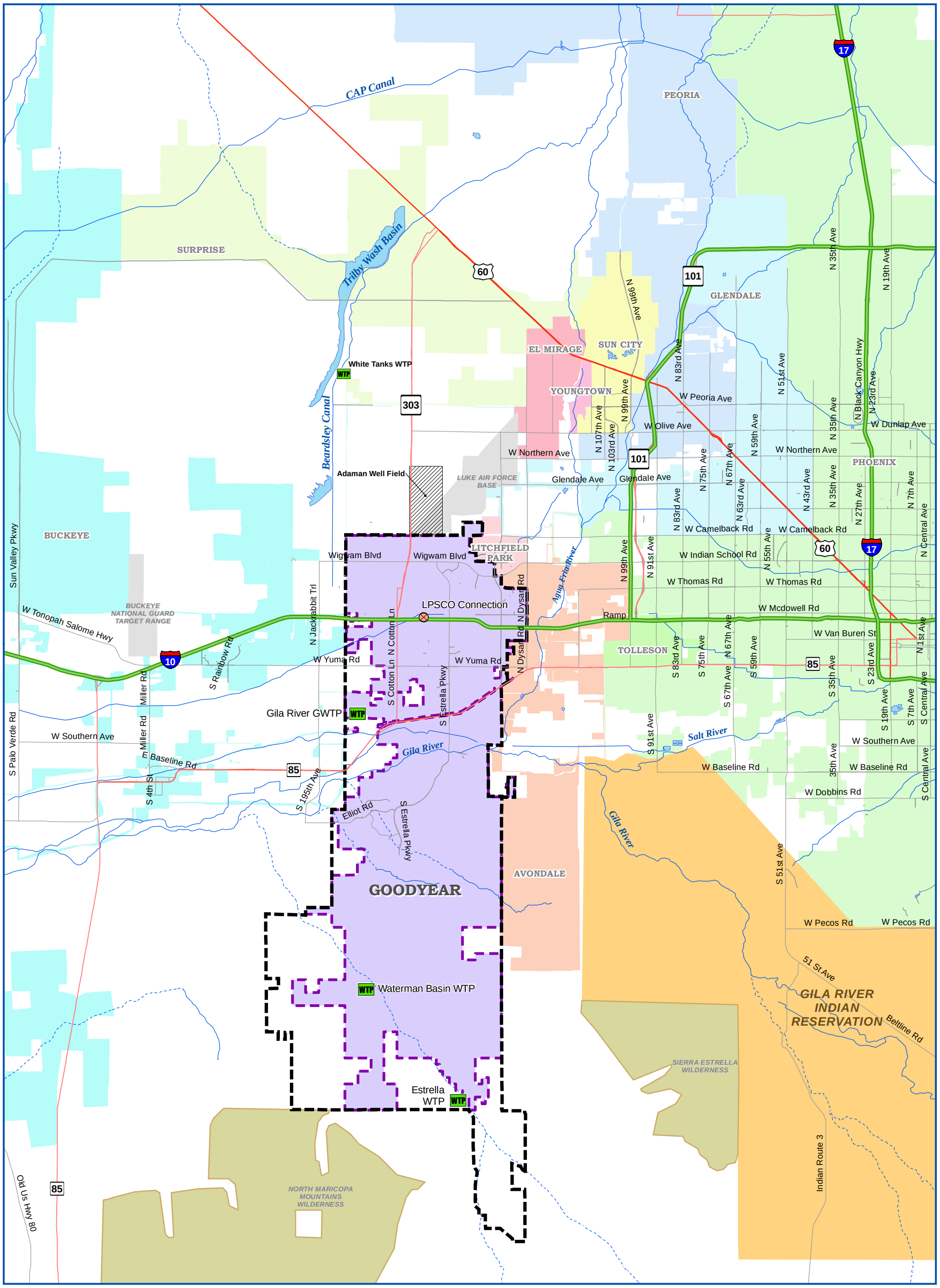
4.1 PRODUCTION CAPACITY

The Water Production Plans outline the seasonal production levels associated with each element of the City's water resources. Table 6 shows the actual infrastructure which will produce the water associated with each resource.

Table 6: Buildout Water Production Summary

PRODUCTION FACILITY	Existing Capacity (mgd)	Buildout Firm Capacity (mgd)
CAP Water Treatment Plant	0	18
Adaman Mutual Well Field and GWTP	0	10
LPSCO Connection	3	3
Imported Water Subtotal =	**3**	**31**
WPA2 Wells	13	16
Gila River GWTP	0	60
WPA2 Groundwater Subtotal =	**13**	**76**
Waterman Wash GWTP	0	30
Estrella GWTP	0	20
WPA4 / 5 Groundwater Subtotal =	**0**	**50**
Total Production Infrastructure =	**16**	**157**

CAP Water Treatment Plant. A surface water treatment plant, with 18 mgd of capacity will be required to receive and treat the City's 19,706 af/yr of CAP water resources. The City is currently in discussions about contracting for capacity in the White Tanks WTP which American Water is constructing to the north of the City. Figure 1 shows the location of the White Tanks Plant and the transmission infrastructure which will be required to deliver Goodyear's share of the treated water to the City's service area. This configuration, based on contracting 18 mgd of capacity at the White Tanks WTP and constructing an 36-inch by 10 mile transmission main, is used as the default arrangement in the Master Plan.



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Data Sources:
City of Goodyear GIS
ALRIS
ESRI

Legend

WTP Water Treatment Plant/GWTP

LPSCO Connection

Transportation

US Route
State Route
Major Arterial
Interstate Highway

Lake
Aqueduct
Ditch; Stream
Wash

Figure 1
Regional Water Supply Sources

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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Building a world of difference.

Revised: Wednesday, March 26, 2008

Alternately, the City could construct their own CAP WTP, located within the City limits in WPA1 or WPA2. Raw CAP water could be delivered to the plant via the Beardsley Canal as shown on Figure 1. Benefits associated with this arrangement would include:

- Potentially lower long-term treatment costs from a City owned plant versus contracting capacity with others.
- Lower transmission costs associated with wheeling water through the Beardsley Canal versus construction of 5 miles of 36-inch pipeline.
- Lower water age and improved water quality with respect to disinfection-by-products (DBPs)
- Ability to peak plant operations at 1.32 times annual average, reaching 24 mgd. This extra 6 mgd of surface water capacity would allow the Gila River GWTP to be reduced by 6 mgd.

Adaman Mutual Well Field and GWTP. The City will pump up to 11,200 af/yr of groundwater from the Adaman Mutual service area located to the north of the City as shown on Figure 1. Pumping is to be done without peaking, at a steady 10 mgd rate. Based on available water quality information and local groundwater trends, it is assumed that all Adaman Mutual groundwater will need treatment for arsenic and/or nitrate. Treatment is to be accomplished in the following manner:

1. Initial Operations (0.0 to 4.0 mgd) will be supported with well-head treatment units. Wells requiring arsenic treatment will be selected prior to wells requiring nitrate treatment in order to avoid brine disposal.

2. Long Term Operation (4.0 to 10.0 mgd) is to be provided by a centralized GWTP located within Goodyear in WPA1 or WPA2. A water campus site, combining the Adaman Mutual GWTP and the CAP WTP would provide significant savings due to economies of scale, combining of operations and blending opportunities.

Additional benefits that could be achieved if the Adaman Mutual and CAP plant are co-sited at a single water campus location include:

- Water from the Adaman well-filed would be blended most of the year for its treatment needs. The Adaman GWTP would only provide standby treatment capacity for times when the CAP was down. However, if the Adaman Water requires arsenic treatment the following strategy could be implemented when CAP is down. The Adaman water could be treated with the idle CAP plan and use the coagulation filtration to remove arsenic

from extracted from the Adaman Wellfield. If nitrate treatment is required, then an IX facility would be required but the facility could be in standby mode for most of the year while blending with CAP water is utilized. Under this scenario the IX facility would only incur operational costs only for short periods when the CAP was down.

LPSCO Connection. A maximum of up to 3 mgd will be available from LPSCO at the current connection points on Bullard and Sarival Avenues.

WPA2 Wells. The City currently has 10 wells operational in WPA2 which provide 13 mgd of installed capacity and 11 mgd of firm capacity. It is assumed that these wells will continue in operation as they are currently configured and will be expanded to support and firm up refill needs at Site 11, 18 and 8. An additional 7 mgd of wells is to be installed, bringing the total installed capacity to 20 and firm to 18 mgd. These wells will be provided with well-head treatment as necessary.

Gila River GWTP. The remaining 60 mgd of firm groundwater production capacity required in WPA2 will be provided by the Gila River GWTP and its well field. Operation of the Gila River GWTP will vary from low winter rates of 15 mgd, to an annual average production of roughly 30 mgd to peak summer production at 60 mgd. A centralized groundwater treatment plant is to be utilized instead of many well-head treatment units located at individual wells in order to obtain:

- **Simplified Operations.** The operation of several larger facilities will be greatly simplified in comparison to keeping many small facilities properly operating. The larger facilities can be provided with a fuller staff which can better focus on the details of efficient operation of the RO treatment process and disposal of waste brine.

- **Economies of Scale.** Significant savings can be realized, both in capital cost and O&M cost, through construction and operation of several larger groundwater treatment plants instead of many smaller units located at the well-head.

- **Reduced Land Requirements.** Land requirements of several larger GWTPs will be considerably less than that required for multiple well head facilities of the same total capacity.

Waterman Wash and Estrella GWTPs. Two centralized GWTPs will be provided to produce the 50 mgd of treated groundwater required from the Rainbow Valley Aquifer in WPA4 / 5. The Waterman Wash GWTP will produce 30 mgd firm and the Estrella GWTP will produce 20 mgd firm.

Table 7 summarizes the phasing of production sources and their nominal capacity ratings from Base year through the near term (next ten years) and at buildout.

Table 7: Production Recommended Phasing

Production Sources	Base Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Buildout
WPA2 Wells	12.70	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	16.00
Gila River GWTP						5.0	5.0	5.0	10.0	10.0	10.0	60.0
LPSCO	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Adaman Mutual	0.00	2.00	2.00	4.00	4.00	6.00	8.00	10.00	10.00	10.00	10.00	10.00
CAP WTP	0.00	0.00	0.00	0.00	5.00	5.00	10.00	10.00	15.00	15.00	15.00	18.00
Waterman Wash GWTP	0.00	1.25	2.50	3.75	5.00	5.00	5.00	10.00	10.00	10.00	15.00	30.00
Estrella GWTP	0.00										5.0	20.00
Total Production	**14.70**	**21.25**	**22.50**	**25.75**	**32.00**	**39.00**	**46.00**	**53.00**	**63.00**	**63.00**	**68.00**	**157.0**

4.2 GWTP WELL-FIELDS

In order to support the GWTPs at their nominal production capacities, the connected pumping capacity in the well-fields must account for:

Brine Losses. Net losses as rejected brine are assumed to be 10 percent of the pumped groundwater after accounting for the bypassed fraction. Brine losses may be further reduced if significant aquifer clean-up is accomplished over the long-term.

Reserve Capacity. Ten percent of the installed wells will provide back-up capacity to firm the GWTPs nominal capacity ratings.

Table 8: Buildout Nominal Production Capacities and Installed Wells

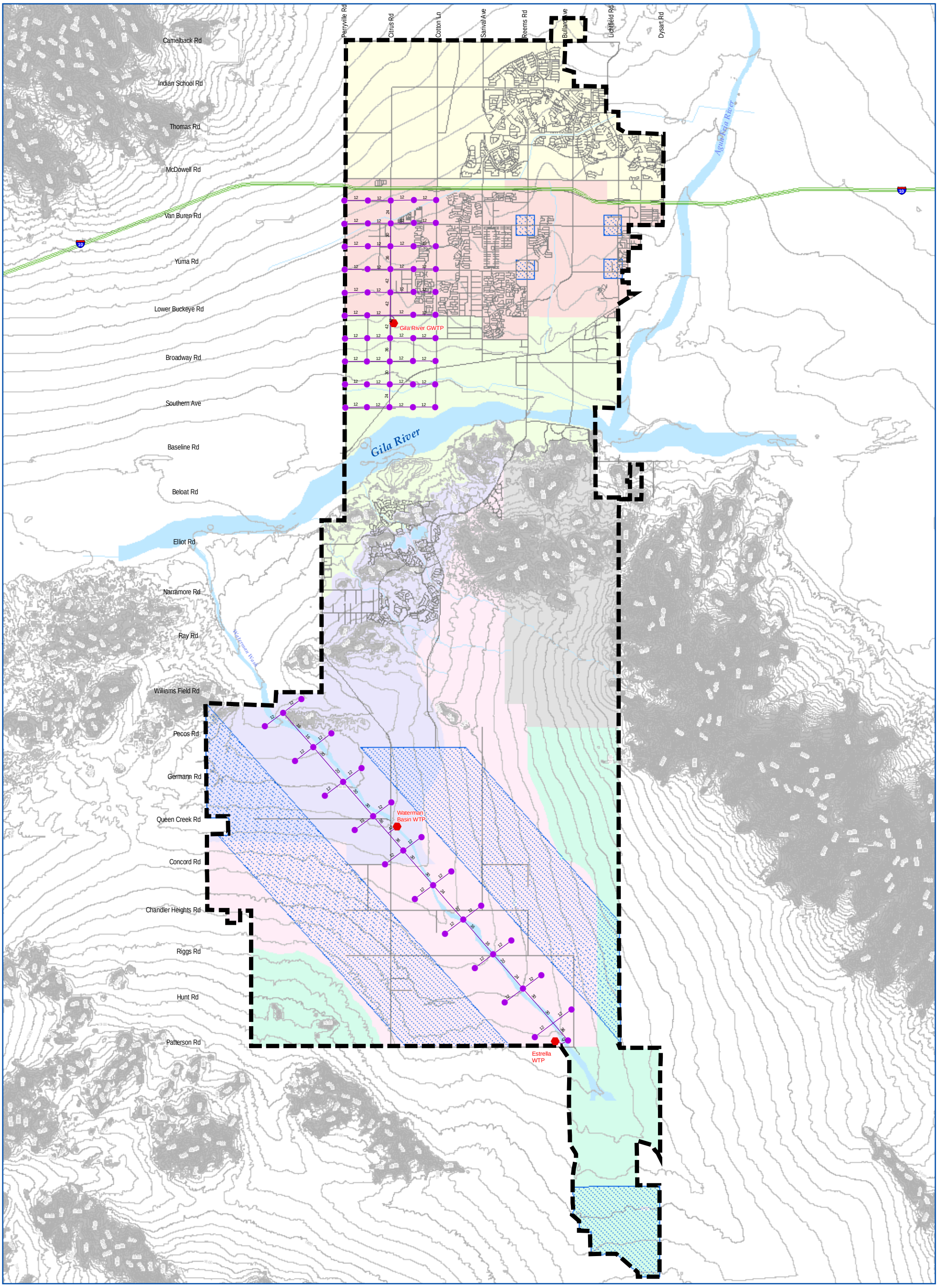
Production Sources	Firm Capacity (mgd)	Installed Well Capacity (mgd)[1,2]	Number of Wells
Adaman Mutual Wells	10	12	6
WPA2 Wells	18	22	11
Gila River GWTP	60	74	37
Waterman Wash GWTP	30	37	19
Estrella GWTP	20	25	13
Total Production	**137**	**170**	**86**

Notes:
1. Assumes 10% brine Loss and 10% reserve.
2. Assumes 2 mgd per well

It can be seen from Table 8 that a significant number of wells, roughly 86, will be required to meet the buildout demands plus reserve. It is recommended that centralized GWTPs be served by well-fields where multiple wells are manifolded together and their capacity conveyed to the GWTPs. A schematic of the proposed well fields and their recommended locations is shown on Figure 2. The proposed well field configuration is designed to provide:

- Coordinated development such that proper separation can be maintained between reclaimed water injection wells and potable water extraction wells.
- Sustainable pumping and long-term clean-up of the Rainbow aquifer through hydraulic interaction with the recharge well-fields.
- Efficient compact well-field piping, close to the GWTPs and with favorable hydraulics.

It is recommended that the City undertake detailed hydro-geologic modeling of the proposed recharge and recovery well-fields in order to optimize long term aquifer hydraulic performance and enhance groundwater clean-up. The proposed layout is designed to lower the TDS of the extracted water by recharging reclaimed water with a TDS of 600 to 700 to either side of the GWTP extraction zone. It is hoped that modeling will confirm that over-time, the raw water TDS pumped from the Rainbow Aquifer will drop significantly from its current levels in the 3,000 ppm range.



N
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1 inch equals 2 miles

Data sources:
City of Goodyear GIS
Black & Veatch
ESRI

Legend

- Street
- GWTP
- CIP Wells
- Well Field Mains
- Master Plan Study Area
- Recharge Zone

Water Pressure Zones

- Estrella Mountain Park
- Gila Zone
- LPSCO
- Zone 1
- Zone 2
- Zone 3
- Zone 4

Figure 2
Well Field Schematic

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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Revised: Friday, March 14, 2007

\\Cygnet.1455211\GIS\zGISMaps\Wellfield.mxd 21 Dec 2007

4.3 BRINE DISPOSAL

The majority of the City's water will be supplied by treating brackish groundwater and the proposed 60 mgd Gila River, 30 mgd Waterman Wash and 20 mgd Estrella GWTPs, will produce large quantities of waste brine from the reverse-osmosis process which must be disposed of properly.

The City currently allows the brine generated at the 5 mgd Site 11 RO GWTP to be disposed of in the sewer, however this practice is already making it difficult to use the reclaimed water from the 157th Ave WWTP due to the added salinity. Brine disposal to the sewer can sometimes be acceptable, if the quantity is limited and/or if there is no intent to reuse or recharge the reclaimed water. However, the magnitude of Goodyear's future RO treatment and quantity of salt to be removed per day, absolutely preclude the use of the sewer for disposal. Continued disposal in this manner would have multiple damaging impacts including:

- Severe adverse impacts to the biological treatment processes used at the WRFs.
- Severe adverse impacts to the reclaimed water quality, rendering it unsuitable for reuse or recharge.
- Placement of the City in a non-sustainable resource position.

A number of methods exist for brine disposal with varying levels of cost and practicality including future regional options. Alternatives for proper disposal of the brine concentrate include the following:

Sewer Discharge. Simple and low cost method suitable disposal for small amounts of brine. Large amounts of brine severely impact wastewater treatment processes and render reclaimed water unusable. Sewer discharge is not an option for Goodyear due to the quantity of brine being considered.

Evaporation Basins. Lined shallow earthen basins provide for the evaporation of water from the discharged brine. Basins are sized based on annual brine production levels and account for precipitation. Evaporation basins are simple technology and are most effective in hot arid regions, however large amounts of land are required.

Vapor Compression / Crystallizer. Vapor compression and crystallizer units are highly capital and energy intensive as well as being extremely complex from an operational standpoint. This technology may become cost effective for Goodyear as the technology improves and as the scale of the RO plants increases.

Regional Brine Disposal Pipeline. A brine disposal pipeline discharging in Mexico at the Sea of Cortez is a regional option that has been discussed, but has not advanced to a practical level.

Regional Deep Well Injection. Injection into underground aquifers has been discussed, but a suitable aquifer, where ADWR regulations would permit brine injection, has not been identified.

For the purposes of this report, brine disposal was planned using evaporation basins because it is currently the only feasible method for which implementation can be guaranteed. Table 9 shows the amount of brine generated by the RO treatment process and the acreage of recharge beds which would be required for its disposal. The calculations were based on the following assumptions:

- 100% of the WPA2 and WPA4 / 5 groundwater will require treatment.
- The treatment process that will be used for the southern groundwater treatment is assumed to be reverse osmosis (RO) membrane technology.
- It is assumed that the treatment will generate a net 10% brine waste.
- Evaporation basin and salt removal requirements are based on AAD production levels.

Table 9: Buildout Brine Requirements for the City of Goodyear GWTP

Brine Requirements	Waterman	Estrella	WPA 2	Total Groundwater WTP
Average Day Groundwater Requirement (mgd)	17	11	40	69
Plant Production (mgd)	15	10	36	62
Brine flow Rate (mgd)	2	1	4	7
Brine flow Rate (cubic feet / year)	75,518,774	50,345,849	175,397,130	334,735,281
Annual Evaporation inches per year	74.96	74.96	74.96	74.96
Precipitation	6.76	6.76	6.76	6.76
Adjustment for Precipitation	68.19	68.19	68.19	68.20
Adjustment for Low Vapor Pressure of Brine Solution (0.7)	47.74	47.74	47.74	47.74
Annual Evaporation feet per year	3.98	3.98	3.98	3.98
Wet Surface acreage (square footage)	18,984,313	12,656,209	44,092,269	84,145,488
Wet Surface acreage (acreage)	436	291	1,012	1,932
Net Land Required (acres)	545	363	1,265	2,415
Annual Deposition Depth (inches / year)	0.24	0.24	0.24	0.24
Salt Removal from Groundwater lbs / day	**193,593**	**129,062**	**449,631**	**772,284**
Salt Removal from Groundwater tons / day	**97**	**65**	**225**	**386**
Salt Removal from Groundwater tons / year	**35,331**	**23,554**	**82,058**	**140,942**

The buildout acreage shown for brine disposal is quite large and may not be readily available unless this quantity of land is set aside through planning. It can be seen that roughly 60 acres should be set aside for brine disposal per 1 mgd of AAD plant capacity. It is quite possible that a more suitable regional solution will develop in the future because a number of the other municipalities in Maricopa County also have growing brine disposal needs. And, while a regional solution may have significantly less land impact, it will not likely be low cost. Therefore, from a planning point of view, it is recommended that the evaporation bed solution be used as a place holder guaranteeing that money is budgeted for brine disposal.

Adaman Mutual Brine Management - Initial water quality reports indicated that groundwater developed within Adaman Mutual will need treatment for either Arsenic and / or Nitrate. Buildout evaporation basin and salt removal requirements for the Adaman Mutual are summarized in Table 10 and were calculated based on the following assumptions:

- It was assumed that 50% of the groundwater developed by Adaman Mutual will be blended with CAP surface water and will not require treatment.

- Of the remaining 50% of the Adaman Mutual groundwater developed requiring treatment, it was assumed that 50% of the groundwater will require nitrate removal and 50% will require arsenic removal.
- The treatment assumed for Nitrate removal was Ion Exchange (IX).
- IX will generate 5,000 gpd of brine per mgd of treatment.
- Waste sludge / spent iron media from the arsenic treatment will be disposed of to the sewer or hauled to a landfill.
- Evaporation basin and salt removal requirements are based on average groundwater production.

Table 10: Buildout Brine Requirements for Adaman Mutual

Brine Requirements	**Adaman Mutual**
Average Day Northern Groundwater Requirement	10
Nitrate Treatment Flow Rate Requirement	3
Brine Flow Rate (gpd)	12,500
Brine flow Rate (cubic feet / year)	610,006
Annual Evaporation inches per year	74.98
Precipitation	7
Adjustment for Precipitation	68.19
Adjustment for Low Vapor Pressure of Brine Solution (0.7)	47.74
Annual Evaporation feet per year	3.98
Surface acreage (square footage)	153,347
Surface acreage (acreage)	4
Land Required (acres /year)	4
Salt Removal lbs / day	**31,275**
Salt Removal tons / day	**16**
Salt Removal tons / year	**5,708**

MODEL CONSTRUCTION AND DISTRIBUTION SYSTEM ANALYSIS TECHNICAL MEMORANDUM NO. 1 – 5

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1.0 INTRODUCTION

The purpose of this memorandum is to describe the creation of the water distribution and transmission system models, the hydraulic analyses performed, and present the recommended distribution system improvements as part of the 2007 City of Goodyear Integrated Master Plan.

1.1 GENERAL

Computer hydraulic analysis is a method of predicting the hydraulic gradient pattern, pressures, and flows across the water distribution network under a given set of conditions. The hydraulic gradient pattern depends upon the magnitude and location of system demands, the characteristics of the pipes in the distribution system, and the flows and gradients at network boundaries such as reservoirs and pumping stations. The head loss through each pipe is a function of flow rate, pipe diameter, length, and internal roughness. The available pressure or head, at any point in the network is the difference between the hydraulic gradient and the ground elevation.

Hydraulic analyses were conducted to evaluate the Goodyear distribution system, and to establish an improvement program to reinforce the existing system and allow for expansion in order to meet projected water growth in demands through the buildout year (2045).

Criteria used to develop the improvement program include:

- Increasing system reliability and simplifying system operations.
- Effectively utilizing system storage to meet peak demands.
- Ability to refill reservoirs from a variety of production locations.
- Allowing for efficient expansion to accommodate disperse growth.

1.2 SOFTWARE

H2OMAP Water

The City of Goodyear had an existing MWHSOFT H2OMAP Water model which was used as the starting point from which hydraulic models for this project were developed. H2OMAP Water is based on an ESRI MapObjects platform, from which a hydraulic model can be created from shapefiles, ArcSDE layers, ArcInfo coverages, CAD (Computer Aided Design drawings), and Comma Delimited/Separated Text files amongst other formats.

H2OMAP Allocator

H2OMAP Allocator, also an H2OMAP Water add-on module, was used to spatially allocate demand to junctions in the model. There are five ways of importing demand using the Allocator Pro tool. The meter summation and polygon intersection methods were two of the methods used to import demand to the Goodyear Hydraulic Model. These demand allocation methods are discussed further in the section on Demand Allocation.

2.0 MODEL DEVELOPMENT

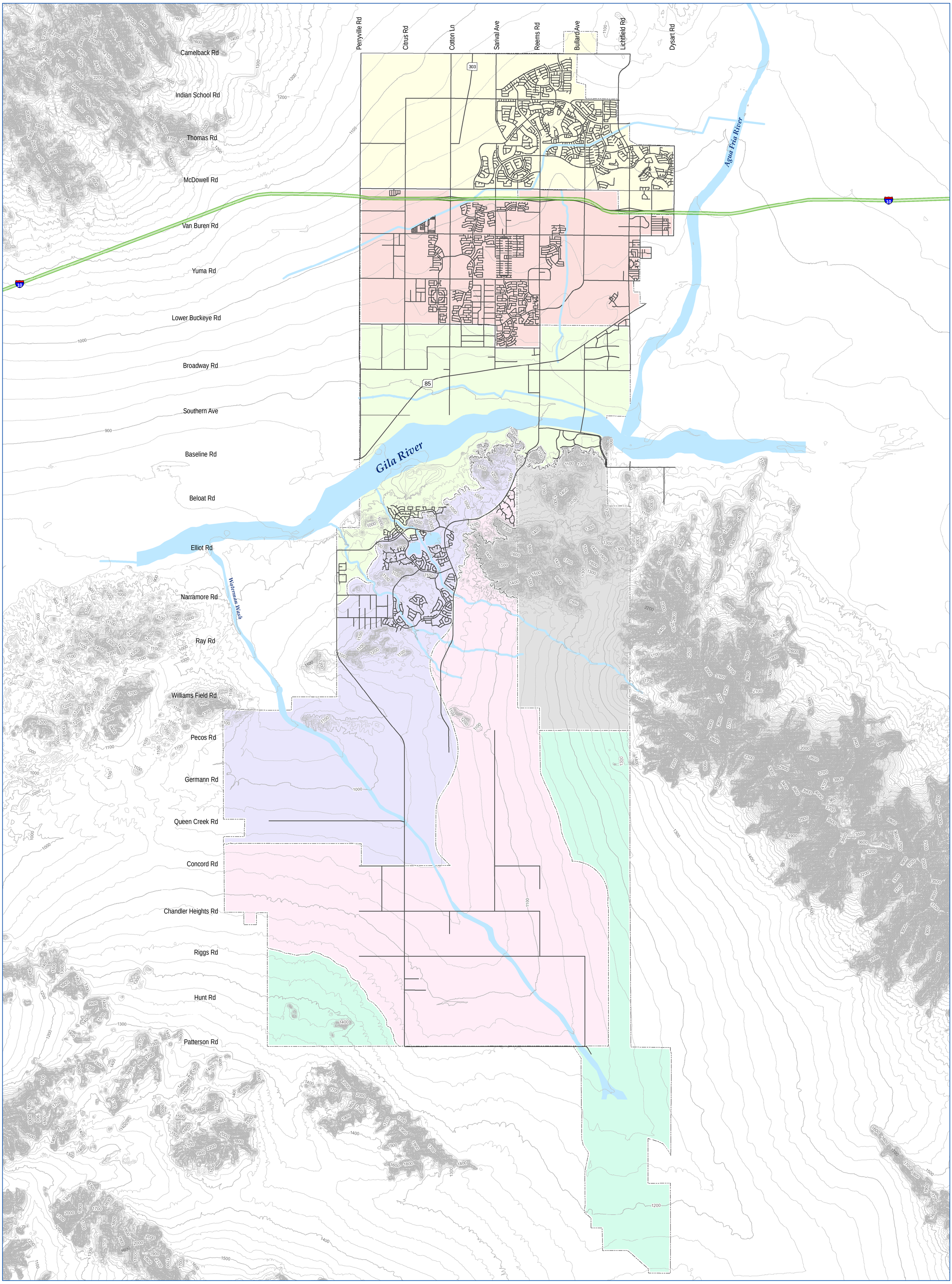
The City provided Black & Veatch with a copy of their current water model which was calibrated by Carollo Engineers. This model originated from an earlier Zone 2 model built by Carollo Engineers and a Zone 2 / Zone 3 model built by Black & Veatch. Additionally, the City provided information for recently completed or planned pipe segments and facilities that had not yet been incorporated into the model to ensure existing infrastructure shown in the model was accurate and up to date.

2.1 PRESSURE ZONES

Water system elevations within the City of Goodyear service area range from 890 feet USGS along the Gila River to 1250 feet USGS along the base of the Estrella Mountains. At the time the model was provided to Black & Veatch, the system was divided into three major pressure zones.

The City operates the distribution system in WPA 2 or north of the Gila River as one zone, which has a typical hydraulic grade of 1140 feet. Water is conveyed through the distribution system, south of the river through a 16-inch distribution pipe. Water conveyed through the 16-inch pipe arrives south of the river at a residual pressure of 25-30 psi; where it is dumped into the Site 13 Reservoir and must be re-pumped back up to the southern zones hydraulic grades. Two booster pump stations supply the southern Zone 1 south and Zone 2 south at hydraulic grades of 1175 and 1265 respectively. Reduced pressure zones are present within the Existing Zone 1 south of the Gila River.

In order to provide for acceptable system pressures across the expanded buildout service area for the City of Goodyear, five pressure zones were established. The recommended pressure zones are shown on Figure 1 and are summarized in Table 1.



03/18/2007

Cygnet 145521\11GIS\zGISMaps\RecommendedPressureZones.mxd

N
W E
S

1 inch equals 1 mile

Data Sources:
City of Goodyear GIS
ESRI

Legend

Recommended Pressure Zones

- Estrella Mountain Park
- Gila Zone
- LPSCO
- Zone 1
- Zone 2
- Zone 3
- Zone 4

Figure 1
Recommended Pressure Zone Boundaries

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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ENERGY WATER INFORMATION GOVERNMENT

Revised: Monday, March 17, 2007

Table 1: Pressure Zones

Zone	Static Hydraulic Gradient (ft)	Service Elevation Range (ft)	Static Pressure Range (psi)
Gila Zone	1,100	890 - 950	65 - 91
Zone 1	1,165	950 - 1050	40 - 93
Zone 2 (Previously Zone 1 South)	1,175	950 - 1050	54 - 98
Zone 3 (Previously Zone 2 South)	1,265	1050 - 1150	50 - 93
Zone 4	1,365	1150 - 1250	50 - 93

Where possible, the zone boundaries are shown along major roadway which approximately follow the contour of the zones upper or lower service elevations. Where no roadways have yet been planned, the zone boundary follows the contour line. It is anticipated that the zone boundaries will be refined in these areas in the future as roadway patterns become established.

Demands were calculated for each pressure zone utilizing the buildout demand projections developed in Technical Memorandum (TM) 1-2 Demand Analysis which is provided in Appendix A for reference. Table 2 summarizes the projected water requirements for each of the respective design years.

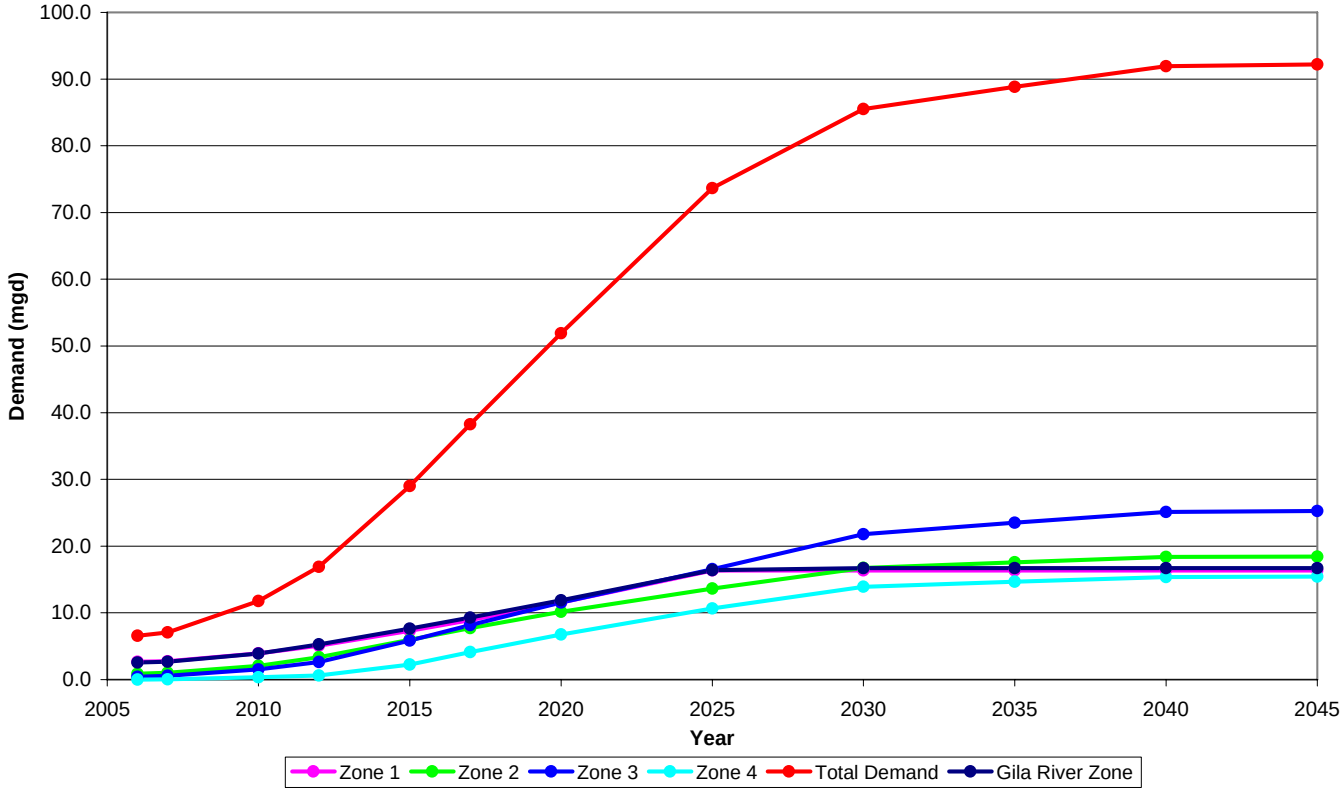
Table 2: Design Water Requirements

Demand	Base Year	2012	2017	Buildout
Annual Average Demand, (mgd)	7.1	18.3	39.5	92.2
Maximum Day Demand, (mgd)	12.0	31.1	67.2	156.7
Maximum Hour Demand, (mgd)	20.4	52.9	114.3	266.5

Pressure zone demands were used to determine the required potable water infrastructure needed for each pressure zone. Demands by pressure zones are shown on Figure 2.

Figure 2 City of Goodyear - Integrated Master Plan
Demand Projection Curves by Pressure Zone

Zone	2006	2007	2010	2012	2015	2017	2020	2025	2030	2035	2040	2045
1	2.7	2.8	3.9	5.1	7.3	8.9	11.6	16.4	16.4	16.4	16.4	16.4
2	0.9	1.0	2.1	3.4	6.0	7.7	10.2	13.7	16.8	17.6	18.4	18.4
3	0.4	0.6	1.5	2.6	5.8	8.2	11.5	16.6	21.8	23.5	25.1	25.3
4	0.0	0.0	0.3	0.6	2.2	4.1	6.8	10.7	13.9	14.7	15.4	15.4
Gila River	2.5	2.7	3.9	5.3	7.6	9.3	11.9	16.4	16.7	16.7	16.7	16.7
Total	6.6	7.1	11.8	16.9	29.0	38.3	51.9	73.7	85.5	88.8	92.0	92.2



2.2 BASE YEAR FACILITY COMPONENTS

As previously discussed an existing water model provided to Black & Veatch formed the starting point from which the base year and future hydraulic models were developed. The existing model included the following facility component:

- Wells
- LPSCO Interconnection
- Reservoirs
- Booster pump stations
- Pressure Reducing Valves (PRV)
- Pipe network

The existing Facilities are shown on Figure 3, which present the 2007 Base Year Model. The following section summarizes the existing facility components which are discussed in greater detail in Technical Memorandum (TM) 1-1 Facility Inventory.

Wells

The City of Goodyear is currently served entirely by groundwater with the exception of supplemental water supplied from LPSCO. Information for the existing wells that are currently operational is summarized in Table 3.

Table 3: Existing Wells

ID #	POINT OF CONNECTION	INSTALLED CAPACITY		OPERATING CAPACITY (MGD)
		GPM	MGD	
W1	Site 11	500	0.7	0.7
W3	Site 3	500	0.7	0.8
W6	Site 18	500	0.7	0.7
W11	Site 11	800	1.2	1.2
W12B	Site 12	800	1.2	1.2
W18A	Site 18	1,000	1.4	1.4
W18B	Site 18	500	0.7	0.7
W19	Site 11	1,200	1.7	1.7
W20	Site 11	2,200	3.2	1.7
W22	Site 11	1,800	2.6	2.6
			Total	**12.7**

Perryville Rd
Citrus Rd
Cotton Ln
Sarival Ave
Reems Rd
Bullard Ave
Lichtfield Rd
Dysart Rd
Camelback Rd
Indian School Rd
Thomas Rd
McDowell Rd
Van Buren Rd
Yuma Rd
Lower Buckeye Rd
Broadway Rd
Southern Ave
Baseline Rd
Beloat Rd
Elliot Rd
Narramore Rd
Ray Rd
Williams Field Rd
Gila River
Agua Fria River
Waterman Wash

SITE 21 (R21,PS 21)
SITE 21 (R10, PS10)
SITE 18 (W18A, W18B, R18, PS18, WTP18)
IC1
IC2
IC3
SITE 3 (W3, PS3, R3)
SITE 5 (PS5, R5)
SITE 11 (W11, PS11, R11, WTP11)
SITE 8 (R8, PS8)
SITE 12 (W12, R12, PS12, WTP12)
SITE 7 (R7, PS7)
SITE 13 (R13, PS13)

N
W E
S

1 inch equals 3,000 feet

Legend

- Pressure Reducing Valve (PRV)
- Reservoir/Booster Facility
- Inter-Agency Connection
- Well - Abandoned
- Well - Operational
- Water Treatment Plant

Water Mains
- 12"
- 16"
- 18"
- 20"
- 24"
- 36"

Existing Pressure Zones
- Central Planning Area
- Zone 1 Reduced
- Zone 1 South
- Zone 2 South

- Master Plan Study Area
- City Limits
- Stream
- Interstate
- Street

Data Sources:
City of Goodyear GIS
ESRI

Figure 3
Existing Facilities
Water Distribution System

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear ARIZONA

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Revised: Tuesday, March 25, 2008

\\Projects\GoodYear\11GIS\01MapDocuments\ExistingWater.mxd Christina Hassell 27 Aug 2007

Interconnections

The City has an agreement with LPSCO to receive up to 3.0 mgd of interruptible service. Due to current hydraulic limitation, the City is only able to receive approximately 2.5 mgd from the two interconnections. The locations and the capacity of the LPSCO interconnection are summarized in Table 4 and shown on Figure 3.

Table 4: Interconnections

ID #	POINT OF CONNECTION / ENTRY	CAPACITY (MGD)
IC1	Bullard & McDowell / Site 10	0.3 to 1.3
IC2	Sarival & McDowell / Site 21	0.6 to 1.7

Reservoirs

The City of Goodyear has ten storage reservoirs located throughout the distribution system providing a total storage capacity of 11 million gallons. Existing storage reservoirs are summarized in Table 5 and shown on Figure 3.

Table 5: Existing Reservoirs

ID #	FACILITY LOCATION	STORAGE VOLUME (MG)
R3	Site 3	0.18
R5	Site 5	0.18
R7	Site 7	0.75
R8	Site 8	0.75
R10	Site 10	0.75
R11	Bullard Ave/Site 11	2.00
R12	Site 12	2.00
R13	Site 13	1.50
R18	Site 18	1.00
R21	Site 21	2.00
	Total	**11.1**

Pump Stations

The City of Goodyear utilizes ten pump stations to provide adequate pressure to the water system. All of the pump stations are located at reservoir sites and pump the water directly from the reservoir into the distribution system. Existing pump stations are summarized in Table 6 and shown on Figure 3.

Table 6: Existing Pump Stations

ID #	FACILITY LOCATION	INSTALLLED (MGD)	FIRM (MGD)
PS3	Site 3	1.4	0.7
PS5	Site 5	1.4	0.7
PS7	Site 7	2.2	1.4
PS8	Site 8	1.4	0.7
PS10	Site 10	1.4	0.7
PS11	Bullard Ave/Site 11	8.4	4.8
PS12	Site 12	3.6	1.4
PS13	Site 13	8.4	6.6
PS18	Site 18	2.9	1.4
PS21	Site 21	9.6	7.5
	Totals	**40.7**	**25.9**

Pressuring Reducing Valves

The City currently has three PRV stations located in the southern system. Existing PRVs are summarized in Table 7 and shown on Figure 3.

Table 7: Existing PRV

ID #	CAPACITY (MGD)
PRV1	10.1
PRV2	4.5
PRV3	4.5

C-Values

Pipe C-value data was included in the calibrated model provided to Black & Veatch, and the criteria for assigning C-valves was continued in the development of future models. Table 8 shows the criteria for assigning C-values to the pipes in the model and shown on Figure 3.

Table 8: C-Values Diameter

PIPE DIAMETER	C-FACTOR
4-inch and smaller	90
6 inch	100
8 inch	110
10-inch	115
12-inch	120
16-inch	125
18-inch and greater	130

2.3 BASE YEAR DEMANDS AND MODEL ALLOCATION

Base Year Demands

Base year demand for 2007 was projected using partial year production records provided by the City. Production records through July 2007 were provided and demand was projected for the remainder of the year based on historic patterns of use. The total allocated demand for the base year "design" condition was 7.2 mgd, which represents the average annual day demand for the base year, or existing conditions. Additional information on base year demands is provided in Technical Memorandum 1-2 Demand Analysis.

Base Year Allocation

Billing Data Processing

The City of Goodyear provided 2004 metered sales information for every account in the Goodyear distribution system and was categorized by Residential and Non-Residential user-types. Additional information included parcel ID, rate type (residential and non-residential), service type, and annual sales in kilogallons (kgal). After billing data processing the metered sales were "geocoded" to a parcel which provides an accurate spatial distribution of the demands throughout the system.

Demand Nodes

Each node in the model was given a value in the DMD_NODE field in H2OMAP to designate whether it would have demand allocated to it or not. These values were assigned as shown in Table 9:

Table 9: Demand Nodes

Allocatable	Non-Allocatable
0	1

Nodes that represented wells or were located in close proximity to facilities such as pumps or tanks, were assigned a value 1 to indicate that they will not receive demand. All other existing nodes were assigned a value of 0 to indicate that they are demand nodes.

Demand Allocation in H2OMAP

The "geocoded" sales by user class were then allocated to the appropriate computer model junctions using spatial GIS techniques. Each metered record was assigned to the nearest model demand node within the same pressure zone. Special quality control steps were taken in the

allocation of metered records to computer model nodes near pressure zone boundaries using the following processes.

The "Demand Allocation Manager" in H2OMAP was used to create Thiessen polygons from a selection set of demand nodes. Thiessen polygons determine which demand node meters are assigned to. The Meter Summation option of the "Demand Allocation Manager" was used to allocate demand for base year. This method clips water meters with respective Thiessen polygons, sums the demand within each polygon, and assigns it to a demand node.

The "Demand Allocation Manager" allows only one demand value to be added at a time, as only one demand field can be chosen from the meter shapefile. Therefore, two separate allocations were made for the two user classes (Residential and Non-Residential). To avoid overwriting demands already imported to the model, the "Overwrite Existing Demand when Allocating Demand" box was left unchecked. H2OMAP has ten fields available for demand classes.

For base year demand, classes were assigned to fields shown in Table 10:

Table 10: Base Year Demand Assignment Fields

User Class	Field
Residential	Demand1
Non-Residential	Demand2

The allocated demand was then adjusted to represent base year or 2007 year demands. Table 11 summaries the base year demand allocated to the model.

Table 11: Base Year Demand by User Type

User Class	Demand (mgd)
Residential	4.65
Non-Residential	2.43

2.4 BUILDOUT DEMANDS AND DEMAND ALLOCATION

Buildout Demands

The projected buildout year demand including delivered and unaccounted-for water for the buildout year was 92.2 mgd which represents the average annual day demand for the buildout

year (2045). The calculation of the buildout demand is discussed in detail in Technical Memorandum (TM) 1-2 Demand Analysis.

Buildout Allocation

Demand Allocation in H2OMAP

Build out demand was allocated to the model using the Polygon Intersection method of the "Demand Allocation Manager". Thiessen polygons were created in H2OMAP from demand nodes and were specified as the primary layer in "Demand Allocation Manager". The Land Use shapefile was selected as the secondary layer. Demand nodes for the buildout allocation included the base demand nodes as well as build out nodes in areas that are not developed. The Land Use shapefile was used to calculate (gallons per acre per day) water duties for each land use type. This process is discussed in detail TM 1-2.

The water duties were entered into the "Demand Allocation Manager" and were used to calculate demand within each Thiessen polygon based on area for each land use type with each polygon. The demand is then summarized according to its type (residential or commercial/industrial) and then assigned to its appropriate Thiessen polygon node in the Demand 1 or Demand 3 field.

For Build Out scenarios, user classes are imported to the fields shown in Table 12:

Table 12: Build-Out Demand Assignment Fields

User Class	Field
Residential	Demand1
Residential Unaccounted for Water	Demand2
Non-Residential	Demand3
Non-Residential Unaccounted for Water	Demand4

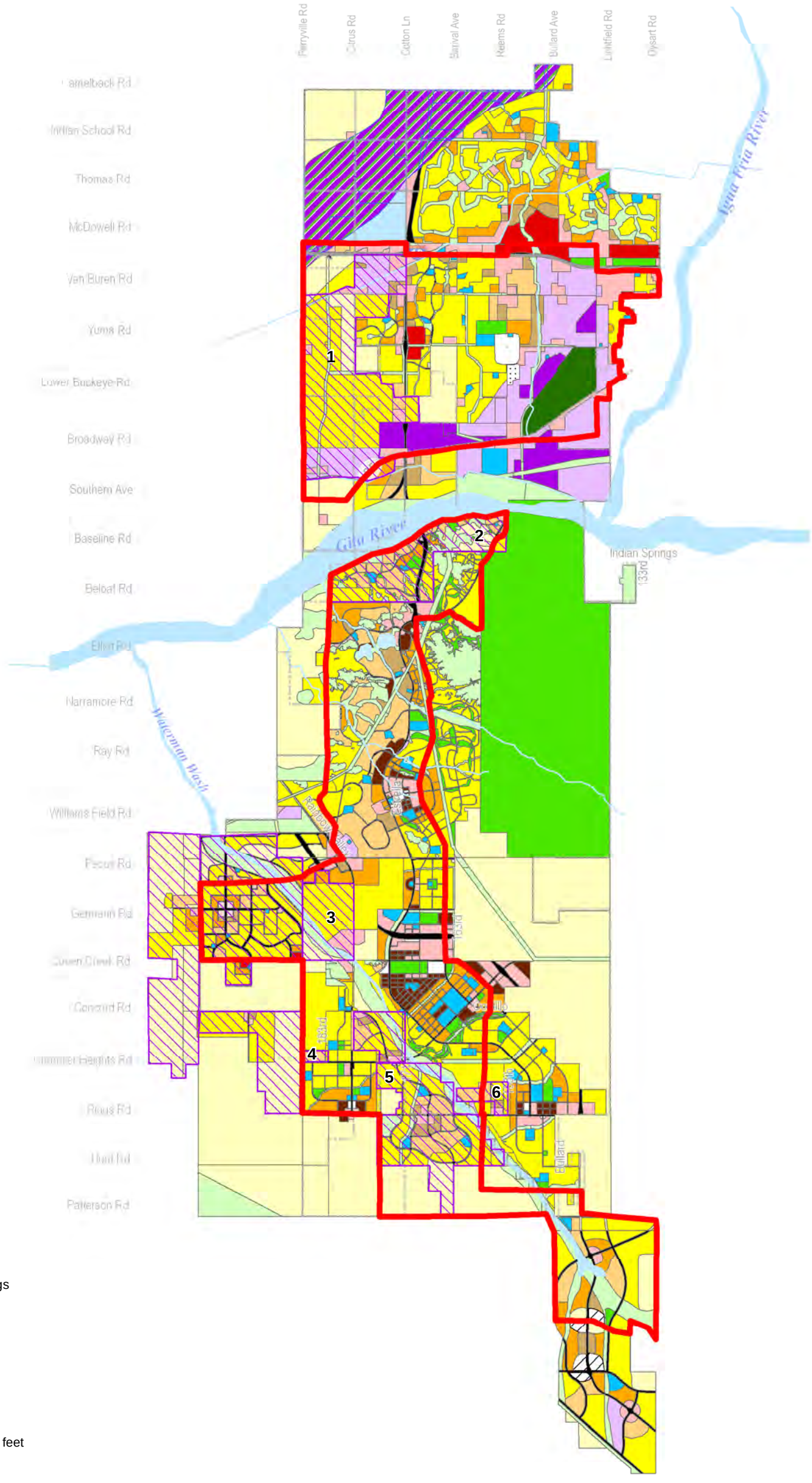
Table 13 summaries the buildout demand allocated to the model.

Table 13: Buildout Demand by User Type

User Class	Demand (mgd)
Residential	59.3
Residential Unaccounted for Water	5.93
Non-Residential	24.5
Non-Residential Unaccounted for Water	2.45
Total Allocated Demand	92.2

2.5 2017 LIMITS OF GROWTH

Based on information provided by the City of Goodyear and developers an assumed intermediate year (2017) limits of growth was established which is shown on Figure 4. This area will be served by the Intermediate distribution system. Adjustments will be required based on actual development patterns which may vary from that shown.



Developments:
1 - Westpac
2 - King's Ranch
3 - Rainbow Valley
4-6 - McRae Holdings

1 inch equals 12,000 feet

Data source:
City of Goodyear

Cygnet.1455211\GIS\zGISMaps\Water_2017 Distribution System_4meeting.mxd D.Ward 09 Aug 2007

Legend

- New developments
- Assumed 2017 Growth Limit
- City Limits

LANDUSE

- Ball Park
- Rural Residential (0-2 DU/AC)
- Low Density Residential (2-4 DU/AC)
- Low - Medium Density Residential (4-6 DU/AC)
- Medium Density Residential (6-10 DU/AC)
- Medium - High Density Residential (10-20 DU/AC)
- High Density Residential
- Airport
- Agricultural Preserve
- Community Commercial
- City Center
- Mixed Use
- General Industrial
- Luke Compatible Land Use Area
- Light Industrial
- Open Space
- Park
- Public / Quasi-Public
- Prison
- Regional Commercial
- Road
- VCO

Figure 4
Assumed 2017 Growth Limits

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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3.0 HYDRAULIC ANALYSES

The purpose of this section is to document the hydraulic analyses performed as part of the 2007 Integrated Master Plan. Several hydraulic model analyses were performed to evaluate current hydraulic conditions of the Goodyear potable water system and to determine the infrastructure required to meet future waters demands under varying system conditions. The following list summarizes the steady state hydraulic model analyses performed.

- Base Year Maximum Hour
- Base Year Maximum Day
- Base Year Maximum Day + Fire Flow
- Build-out Maximum Hour
- Build-out Maximum Day
- Build-out Maximum Day + Fire Flow
- Buildout Transmission System
- Buildout Transmission System CAP Outage

Model output results of the hydraulic analyses for the scenarios were analyzed to determine (1) the required pumping station capacity (2) storage volumes and refill requirements and (3) distribution main sizing to meet base year, intermediate and buildout demands.

3.1 DESIGN PARAMETERS

Facility components were evaluated based on the criteria summarized in Table 14.

Table 14: Water System Planning Criteria

Criteria	Value
Maximum Day Factor	1.70 x AAD
Maximum Hour Factor	1.70 x MD Or 2.89 x AAD
Pressure Minimum Service Pressure during peak hour conditions (psi)	 40
Fire Flow (with residual 20 psi) Residential (gpm) Non-residential (gpm)	 MD plus FF (1,500) MD plus FF (3,500)
Production Supply	Maximum Day
Pipe Sizing (Peak Hour) Pipe Headloss Velocity	 2-3 ft/1000 during Peak Hour < 10 feet/sec
Booster Station Sizing	Firm Capacity = Peak Hour
Reservoir Sizing	The greater of: 1 times EQ Volume plus Fire Flow 2 times EQ Volume
Reservoir Re-fill Capacity	Maximum Day

Pressure and Velocity Plots

For maximum hour scenarios a color-coded pressure and velocity plot of the distribution system were prepared to provide a visual representation of residual pressures calculated at the model junctions and velocities in the pipelines. The plots helped identify potential problem areas in the system and were used as a tool to assure that adequate pressures were maintained throughout the system under maximum hour conditions which represents a stressed system condition and therefore the worst case pressure scenario.

Fire Flow Analysis

For each maximum day scenarios a color-coded fire flow analysis was performed under maximum day conditions to ensure a minimum pressure of 20 psi is available during a fire event. The fire flow analysis exhibit provides a range of flow available at each of the nodes with a 20 psi residual.

3.2 STORAGE CONSIDERATIONS

Current City of Goodyear Storage Requirements

The current City of Goodyear storage design criteria require that a storage volume be provided that meets the larger of the following criteria:

1. Storage volume equal to one average day demand and,
2. 25% of Maximum Day demand plus fire flow at a minimum of 1,000 gpm for residential land uses or 1,500 gpm for commercial land uses.

For a City the size of the City of Goodyear the storage requirement of an average day typically governs as shown in Table 15. In smaller system or those with a large number of reservoirs the fire flow requirement may control.

Alternative Storage Requirements

While a storage requirement of an average day is often used in smaller less networked systems, as the City of Goodyear grows towards a buildout, providing 92 MG of storage (equal to the projected average day demand) would be costly and could lead to potential water age / quality issues. Therefore, alternative storage criteria were evaluated to establish a more efficient basis for the recommended storage volumes to be used in this study. To determine the optimum amount of water storage for a distribution system, the two major considerations that should be evaluated include:

- Providing sufficient storage to equalize maximum hourly pumping and steady refill / production rates;
- Providing sufficient storage to supply the required fire flow and duration.

Other factors that should be considered before determining storage capacities include system reliability supply limitation, pressure limitations, and operational flexibility. Table 15 compares the current City of Goodyear storage requirements to alternative storage requirements analyzed.

Table 15: Storage Evaluation

Zone	Demands			Storage Criteria and Volume				
				Existing		Recommended		
	AD	MD	MH	AA	.25 Max Day + FF[1]	EQ Volume[2]	1EQ + FF[3,4]	2EQ
Base Year								
1	2.8	4.7	8.0	2.8	1.4	0.8	**1.7**	1.6
2	1.0	1.8	3.0	1.0	0.8	0.3	**1.1**	0.6
3	0.6	1.0	1.6	0.6	0.5	0.2	**1.0**	0.3
4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Gila River	2.7	4.5	7.7	2.7	1.4	0.8	**1.6**	1.6
2012								
1	4.8	8.2	13.9	4.8	2.7	1.4	2.3	**2.9**
2	3.4	5.9	9.9	3.4	2.1	1.0	1.9	**2.0**
3	2.7	4.5	7.7	2.7	1.8	0.8	1.6	**1.6**
4	0.6	1.0	1.7	0.6	0.9	0.2	**1.0**	0.4
Gila River	5.1	8.6	14.7	5.1	2.8	1.5	2.4	**3.0**
2017								
1	8.1	13.7	23.4	8.1	4.1	2.4	3.2	**4.8**
2	8.1	13.7	23.3	8.1	4.1	2.4	3.2	**4.8**
3	8.4	14.2	24.2	8.4	4.2	2.5	3.3	**5.0**
4	4.2	7.2	12.2	4.2	2.4	1.3	2.1	**2.5**
Gila River	8.8	14.9	25.3	8.8	4.4	2.6	3.4	**5.2**
Buildout								
1	14.0	23.8	40.4	14.0	6.6	4.2	5.0	**8.3**
2	20.2	34.3	58.4	20.2	9.2	6.0	6.8	**12.0**
3	26.1	44.4	75.4	26.1	11.7	7.8	8.6	**15.5**
4	16.5	28.0	47.7	16.5	7.6	4.9	5.7	**9.8**
Gila River	15.5	26.4	44.8	15.5	7.2	4.6	5.5	**9.2**

Notes:

1. Fire flow requirement equals 1,500 gpm or 0.27 MG per zone.
2. EQ = (Peak Hour – Maximum day).
3. Fire flow requirement equals 3,500 gpm for 4 hours or 0.84 MG per zone.
4. Assumes all reservoirs within a Zone contribute to Fire Storage in that zone.

Equalization Storage

Equalization storage allows water production facilities (wells and treatment plants) to operate at a steady rate over the course of a day, while booster pumps meet peak hour distribution system demands. For a typical municipal system, the required equalization volume can be calculated as the difference between peak hour and maximum day rates for a 6-hour period expressed as;

$$EQ = (PHD - MDD) \times 6 \text{ hours}$$

Providing 2 EQ worth of storage volume is recommended in order to cover peak hour pumping needs and provide a sufficient safety buffer or operational reserve. Table 15 shows the resulting 2 EQ storage volume based on projected MDD and PHD flow rates for the City of Goodyear.

Fire Storage

Fire storage is based on supplying fire flow for required durations and should be capable of supplying the required fire flow during the maximum day demand conditions. The City of Goodyear currently requires a minimum flow of 1,000 gpm for 3-hours for fighting fires in single-family residential structures and 1,500 for all non-residential structures.

Using ISO guidelines, the needed fire flow can range from 500 to 12,000 gpm based on the size, construction, occupancy, and exposure of each building or complex. The fire flow is required for a specified duration, generally 2 to 4 hours, at a residual pressure of 20 psi.

For insurance rating purposes, 3500 gpm for a 4-hour duration is the maximum fire flow required to be supplied by a municipal water system. Fire flow requirements in excess of 3500 gpm that cannot be met by the water system may affect the rating of the individual building; however, the overall municipal rating will not be affected.

Base on discussion with the City the following fire flows are to be provided from the distribution system:

- Residential – 1,000 gpm for 3 hours
- Non-residential – 3,500 gpm for 4 hours

Providing for the larger non-residential fire flow would require 0.84 MG of storage at any given reservoir site from which non-residential demands are served. A reservoir serving a purely residential area would need 0.18 MG of fire storage. Fire storage should be available during

times of peak demand and the total storage to be provided under this criteria is therefore calculated as one equalization volume plus fire flow as shown in Table 15.

Recommended Storage

It can be seen in Table 12 that 2 EQ worth of storage provides roughly 69 percent of the current Average Day criteria would require, yet greater than the 1 EQ plus fire flow requirement. It is recommended that the City move toward providing a storage volume requirement equal to the sum of the required operational storage and the required fire storage volumes, or twice the operation storage, whichever is greater. It is believed that this will provide the City with adequate storage capacity to meet equalization and fire flow needs while limiting costs and potential water quality concerns.

3.3 PRODUCTION SYSTEM

Based on the projected resources and demands, strategies were formulated by which potable water can be supplied, treated and delivered to satisfy demands within the City of Goodyear under a variety operating conditions. The production alternatives were presented in detail in Technical Memorandum 1-4 Water Production Plan. Production sources included the following:

- North Groundwater – Wells located in WPA2
- South Groundwater – Wells located in the Waterman Basin
- CAP WTP – A new surface water plant
- Adaman Mutual Water Company (wells)
- LPSCO

3.4 TRANSMISSION SYSTEM

A dedicated transmission system simplifies operations and provides a cost effective way to convey water from points of supply to storage reservoir facilities located throughout the distribution system. The transmission system will operate independent of distribution system pressure and will be sized to provide adequate reservoir re-fill capacity based on the quantity of water required from each of the reservoirs during a maximum day demand condition. A transmission system provides the following benefits:

- Limits distribution pipe sizing to only that needed for demand and fire to convey supply water to reservoir sites. Oversizing of pipes to also provide for refill is not required.

- Avoids dump and re-pump operations which waste energy by pumping water up to the hydraulic grade of the zone, dumping the water to atmosphere at reservoir locations then re-pumping back up to the zone grade.
- Increases water transfer flexibility to convey water to alternative points of storage prior to the completion of buildout infrastructure or in the event of a plant outage.
- The transmission piping located in the northern part of the distribution system can also act as a well field collector to convey raw groundwater to reservoirs.
- Allows for blending opportunities of surface water with poor quality groundwater.
- Simplifies system operation by allowing water production and reservoir refill to be managed independent of maintaining distribution system pressure.

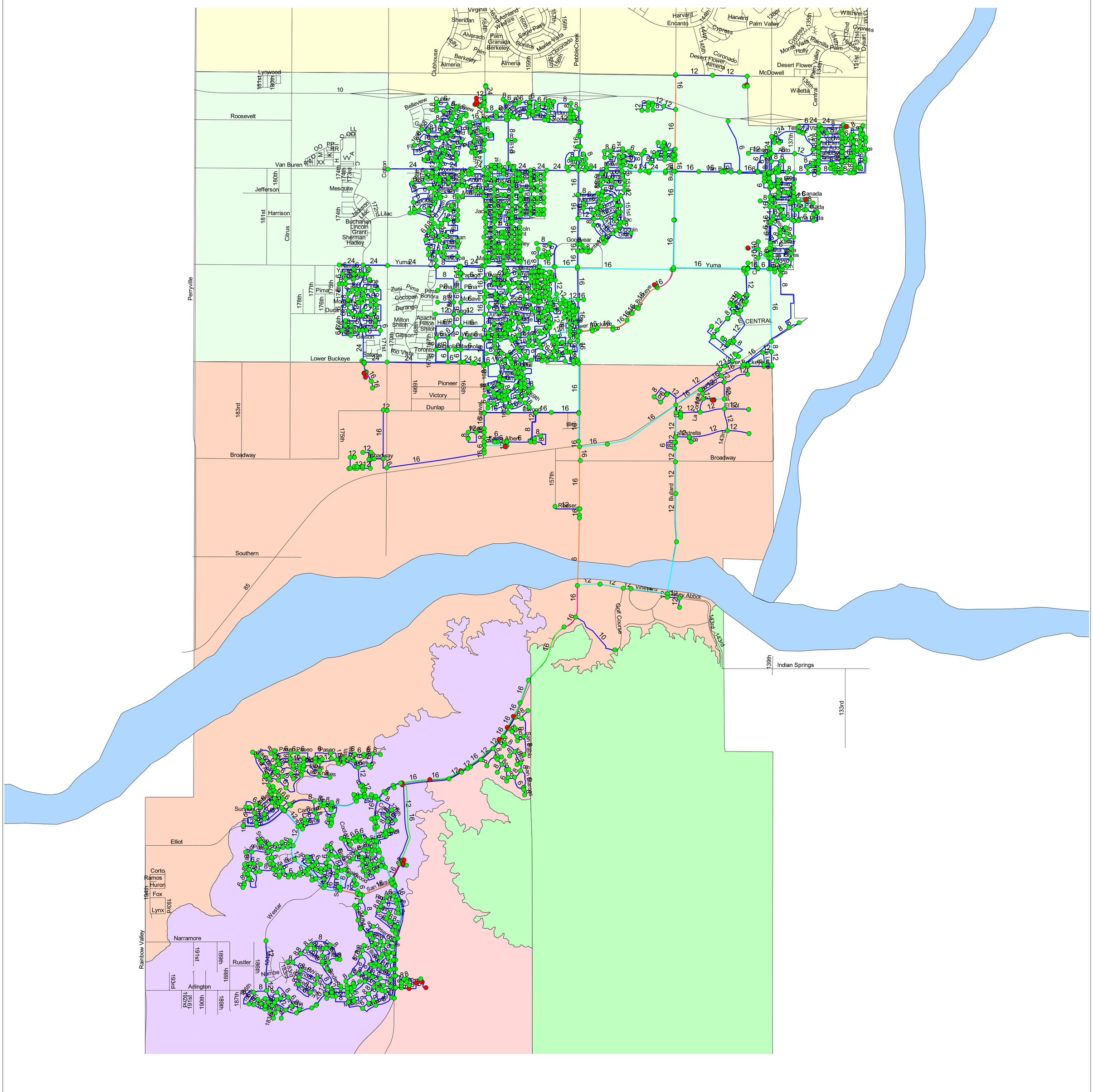
3.5 BASE YEAR HYDRAULIC ANALYSIS

Base Year Maximum Hour Analysis

Results of the base year maximum hour hydraulic analysis were analyzed to verify that the existing booster pumping stations and distribution mains have adequate capacity to meet base year demands. A visual representation of the hydraulic model pressure and velocity results can be seen on Figure 5.

Existing Pump Stations

Table 16 compares the base year maximum hour pump station requirements to the pump station existing firm and installed capacity.



JUNCTION (VALUE)
- Less than 40
- Greater than 40

TANK (MOTYPE)
- Active Tank
- Domain Tank
- Active Reservoir
- Domain Reservoir

PIPE (VALUE)
- Less than 1
- 1~2
- 2~3
- 3~4
- 4~5
- 5
- Greater than 5

PUMP (MOTYPE)
- Active
- Domain

VALVE (MOTYPE)
- Active
- Domain

GY_RIVERS

GY_Streets

PIPE

PZ_50407 (ZONE)
- Gila Zone
- LPSCO
- Zone 1
- Zone 2
- Zone 3
- Zone 4

Table 16: Base Year Pump Station Requirements

Reservoir	Max Hour Pumping Requirements (mgd)	Firm Capacity (mgd)	Installed Capacity (mgd)	Peak Hour Operating Condition
Site 21	7.63	7.5	9.6	1 in Standby
Site 3	0.45	0.7	1.4	1 in Standby
Site 11	6.72	6.2	8.4	1 in Standby
Site 12	0.93	1.4	3.6	1 in Standby
Site 18	1.43	1.4	2.9	1 in Standby
Site 8	0.64	0.7	1.4	1 in Standby
Site 5	0.65	0.7	1.4	1 in Standby
Site 7	1.36	1.4	2.2	1 in Standby
Site 10	0.47	0.7	1.4	1 in Standby
Site 13 Zone 2	5.22	3.8	5.5	Ran all Pumps
Site 13 Zone 3	0.06	1.4	2.8	1 in Standby
Flow Conveyed through 16-inch to Site 13 reservoir	3.47			
Total Flow / Capacity	**25.56**	**18.4**	**31**	

It can be seen that with the exception of Site 13 and site 21, current firm capacity can meet peak hour pumping requirements. It should be noted that for most of the stations, little or no reserve is left to accommodate growth and that holding one pump in reserve required, the firm pumps to operate beyond their rated design point at a lower head / higher flow point on their curves without significant pressure losses. Site 21 goes beyond however Zone 1 suffers no significant pressure loss due to the number of other contribution pump stations. However since the Site 13 Zone 2 booster station is currently the only pump station servicing Zone 2, as the pump station operates out on the pumps curves the Zone 2 system experience lower than acceptable pressure during peak hour demand conditions.

Existing Distribution Mains and System Pressure

Key maps and detailed node reports are provided in Appendices B and C respectively. Key observations for the base year maximum hour analysis are provided below.

- The majority of the existing system is able to meet base year maximum hour demands while maintaining minimum pressure requirements (40 psi) with the exception of the most southern portion of the system.
- There is only one pipe segment of 16-inch pipe in Bullard Avenue with velocities greater than 5 fps however the system does not experience significant pressure losses in the area as a result.

- Due to the insufficient Zone 2 pumping capacity at the Site 13 booster station as previously discussed, there are pockets Zone 2 which of lower than acceptable (40 psi) pressure which can be seen on Figure 5.
- There is a portion of the southern system which is physically located within the future Zone 3 boundary; however it is currently connected to Zone 2 piping which results in lower than acceptable (40 psi) pressures during peak hour.

Base Year Maximum Day Analysis

Results of the base year maximum day hydraulic analysis was analyzed to verify the required reservoir re-fill capacity under base year demands. One major area of concern is related to the capacity of the 16-inch line which conveys water north of the Gila River to refill the Site 13 Reservoir, since this is the only supply for the reservoir. Table 17 presents the required base year re-fill requirements for each of the existing reservoirs.

Table 17: Base Year Storage Re-fill Capacity Requirements

Maximum Day Demand[1] (mgd)	Available Well Capacity[2]	LPSCO Capacity	Total Available Capacity
10.8	13.1	2	15.1

Notes:

1. The design base year maximum day demand of 11.96 mgd is a calculated value equal to 1.7 times the projected 2007 Annual Average Day Demand. The 2007 base year demand was calculated from partial year production records and the base year AAD was projected to be 7.03 mgd. The recorded 2007 maximum day demand based on production records was 10.8 mgd.
2. Installed available well capacity is equal to 12.7 mgd, however through the use of VFDs 13.1 mgd of total well capacity is available to meet maximum day demands.

It can be seen from Table 17 that the available well capacity exceeds both the design and actual base year maximum day demands.

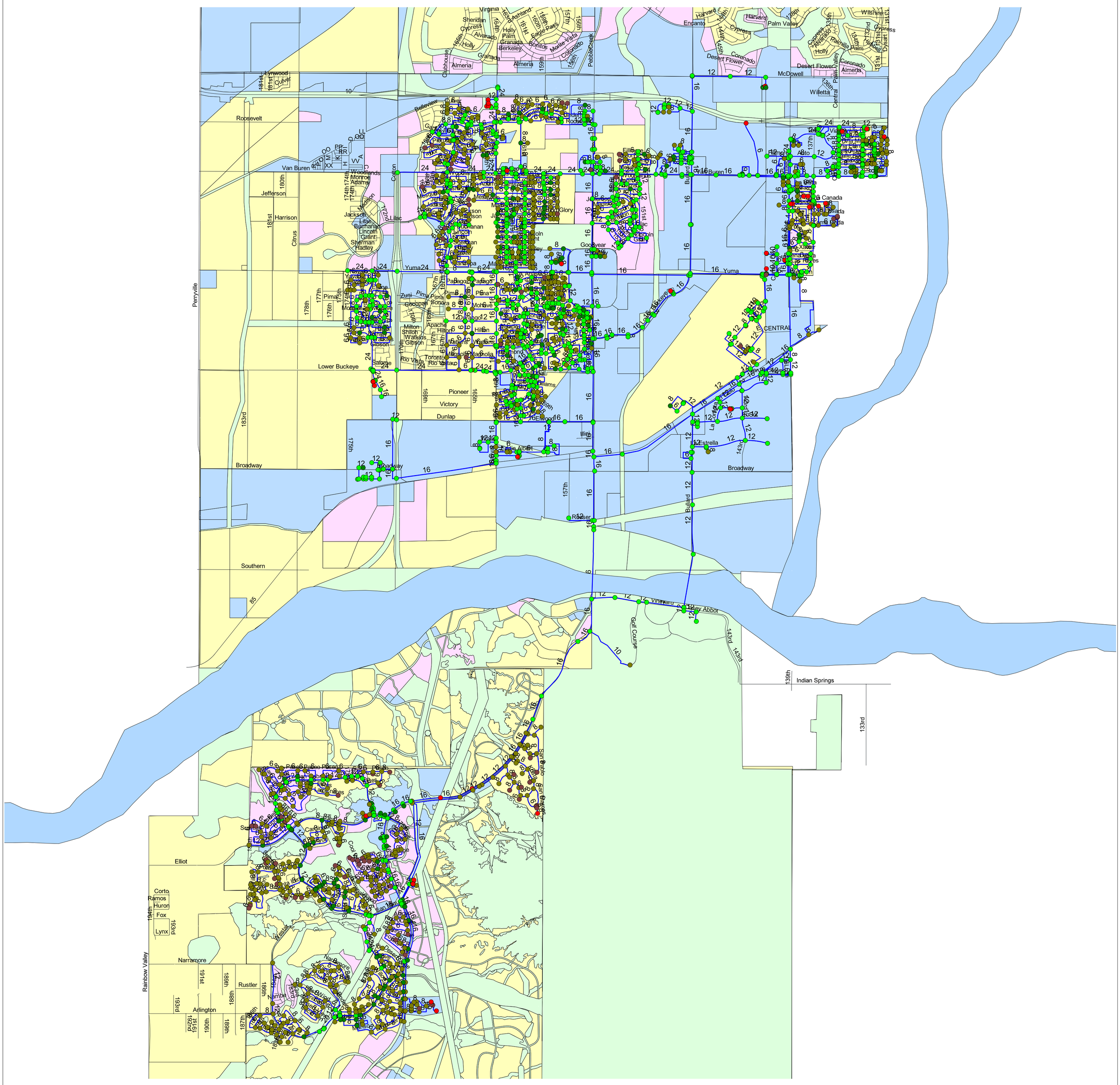
Base Year Fire Flow Analysis

A summary of the key points and observations associated with the base year maximum day plus fire flow hydraulic analysis are provided below and a visual representation of the hydraulic model results can be seen on Figure 6. Key Maps and a detailed base year fire flow report are provided in Appendices B and D respectively.

Maximum Day + FF Base Year

Figure 6

City of Goodyear Utility Master Plan



JUNCTION (VALUE)
- Less than 1.44
- 1.44~2.16
- 2.16~4.32
- 4.32~5.04
- Greater than 5.04

TANK (MOTYPE)
- Active Tank
- Domain Tank
- Active Reservoir
- Domain Reservoir

PIPE (MOTYPE)
- Active Pipe
- Domain Pipe
- Active Check Valve
- Domain Check Valve

PUMP (MOTYPE)
- Active
- Domain

VALVE (MOTYPE)
- Active
- Domain

GY_RIVERS

GY_Streets

PIPE

landuse2007 (LANDUSE)
- A
- Ball Park
- CC
- CCTR
- GI
- HDR
- LCLUA
- LDR
- LI
- L-MDR
- MDR
- M-HDR
- Mixed Use
- OS
- P
- PQP
- PR
- RC
- ROAD
- RR
- VCO

Prepared By: Black & Veatch

Date: Monday, September 24, 2007

- The majority of the nodes located along the major arterials are capable of providing 3,500 gpm or more at 20 psi.
- The majority of the nodes located within residential areas are capable of providing the minimum required fire flow of 1,000 gpm or more at a residual of 20 psi.
- There are nodes which are not capable to providing the minimum of 1,000 gpm at 20 psi however the majority of these nodes are located on the end of smaller diameter pipelines and non-looped pipes.

3.6 BUILDOUT HYDRAULIC ANALYSIS

Buildout Maximum Hour and Day Analyses

Results of the buildout maximum hour hydraulic analysis were analyzed to determine the required booster pumping stations and distribution mains improvements need to meet future demands.

It is important to note that B&V assumes that at build-out, all existing and future booster stations will be equipped with variable speed pumps which will modulate flowrate as needed to hold a steady HGL at the point of connection to the distribution system. This is fundamentally different from a constant speed pumping station control scenario where additional pumps are brought on-line as distribution system pressures fall and taken off as pressures again rise. In the model created by Black & Veatch, each booster station represents a point of constant head within the zone served. Pressure loss occurs only as a result of friction within the distribution network piping and as such can be controlled by pipeline sizing and network design.

Variable speed pumping stations were represented by inserting fixed-head reservoirs in the model at each reservoir/booster facility location. In H2OMap, a fixed-head reservoir provides flow as demanded while holding the HGL steady, mimicking a variable speed pumping station whose controls are set to hold pressure steady. By letting the model decide how much water it wants from each fixed-head reservoir location, instead of forcing water in, the modeler knows the quantity of water which will be naturally be supplied by a system of variable speed booster station running in auto mode. Model output is interpreted as follows:

- The rate at which water is supplied during the peak-hour becomes the booster station design firm capacity.
- The max-day flowrate supplied is used to set reservoir refill capacity at each site.
- The difference between peak-hour and max-day rates supplied from each fixed-head reservoir location determines the EQ volume and is used to size the reservoir.

- The diameters of the pipelines radiating outward from each of the fixed-head reservoir are adjusted such that peak-hour velocities are balanced ensuring that the flow supplied from each site is neither unnaturally restricted nor induced.

A visual representation of the buildout maximum day hydraulic model pressure and velocity results can be seen on Figure 7. Key Maps and detailed node reports for the buildout maximum hour are provided in Appendices B and E respectively. Table 18 summaries the buildout pump station, storage volume and storage re-fill requirements based on the buildout maximum hour and maximum day hydraulic analysis.

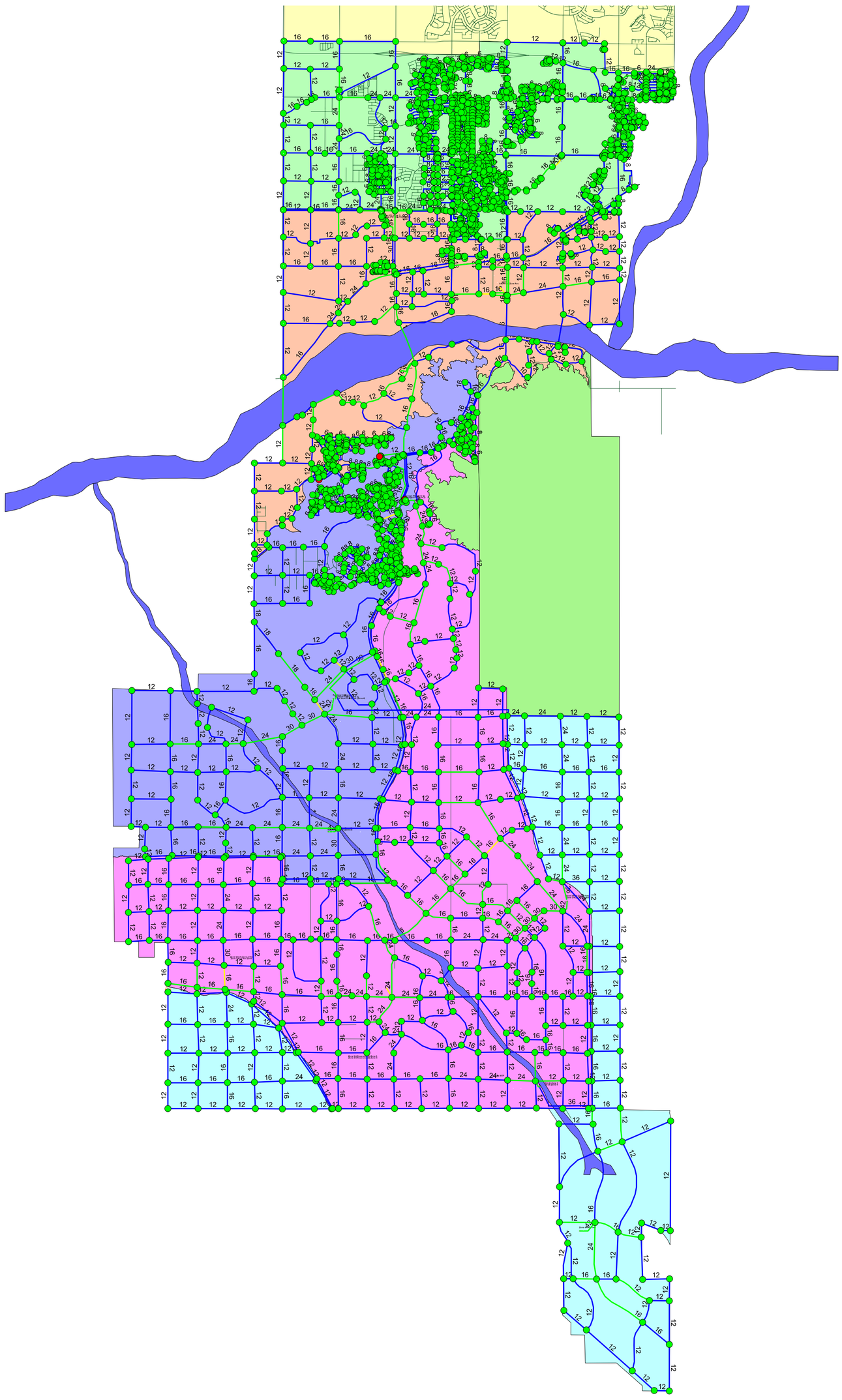

JUNCTION (VALUE)
Less than 40
Greater than 40
TANK (MOTYPE)
Active Tank
Domain Tank
Active Reservoir
Domain Reservoir
PIPE (VALUE)
Less than 2
2~4
4~6
6~8
8~10
Greater than 10
PUMP (MOTYPE)
Active
Domain
VALVE (MOTYPE)
Active
Domain
GY_Streets
GY_RIVERS
TANKLABEL
PIPE
PZ_50407 (ZONE)
Gila Zone
LPSCO
Zone 1
Zone 2
Zone 3
Zone 4

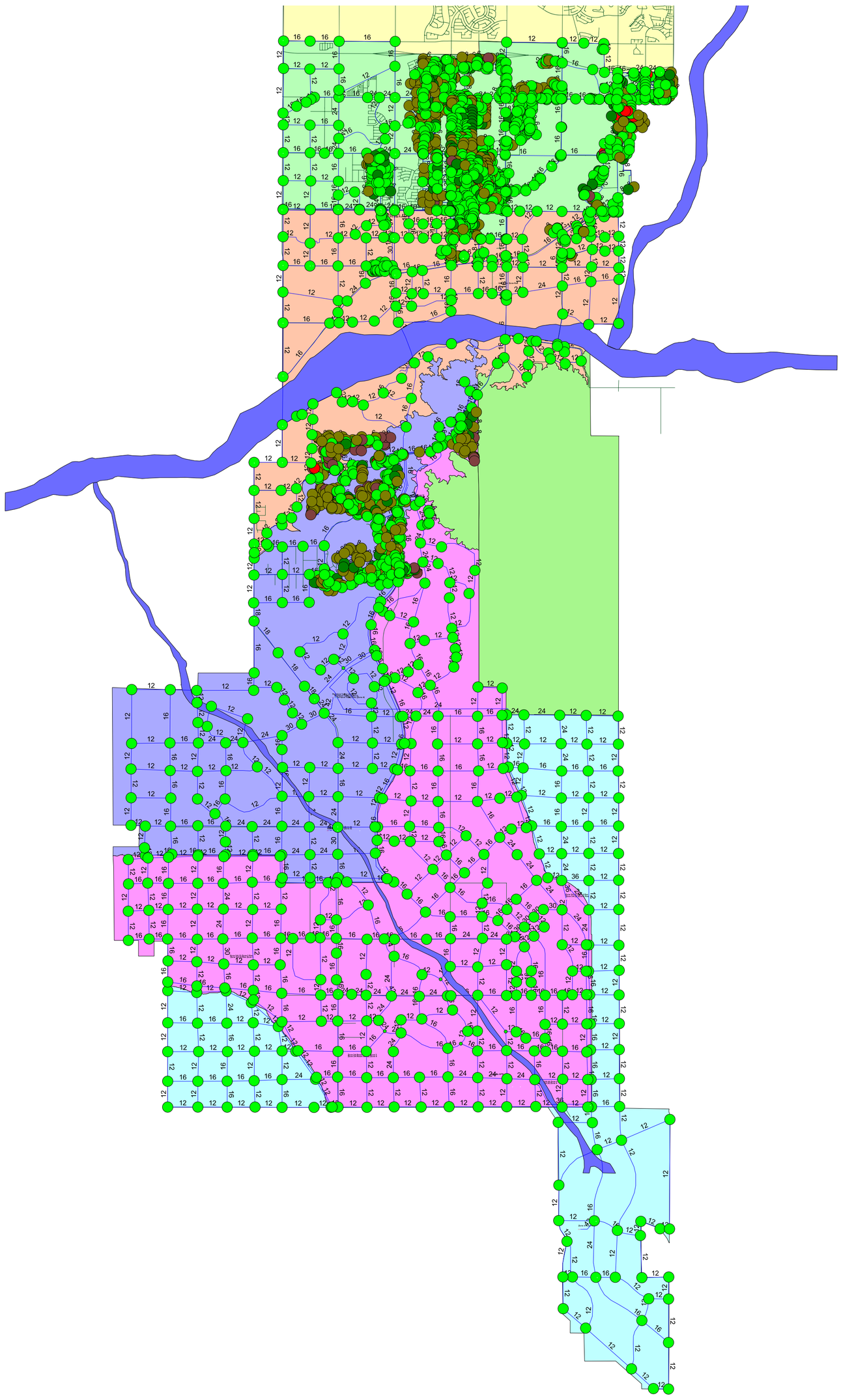
Table 18: Buildout Storage and Pump Station Requirements

Storage Site	MH Flow	MD Flow	Storage Requirement[1]	Pump Station Required[2]	Reservoir Re-fill Capacity Required
	(mgd)	(mgd)	(MG)	(mgd)	(mgd)
Zone 1					
Site 21	14.49	8.52	2.98	14.49	8.52
Site 11	9.11	5.36	1.88	9.11	5.36
Site 18	8.12	4.78	1.67	8.12	4.78
Site 12 Zone 1	11.79	6.94	2.43	11.79	6.94
WestPac	11.13	6.55	2.29	11.13	6.55
Gila River Zone					
Site 12 (Gila River)	10.60	6.24	2.18	10.60	6.24
Gila River	16.56	9.74	3.41	16.56	9.74
Kings Ranch	10.66	6.27	2.19	10.66	6.27
Site 8	2.82	1.66	0.58	2.82	1.66
Zone 2					
Site 13 (Zone 2)	12.85	7.56	2.65	12.85	7.56
Waterman (Zone 2)	15.46	9.09	3.18	15.46	9.09
Rainbow Valley (Zone 2)	22.60	13.29	4.65	22.60	13.29
Zone 3					
Site 13 (Zone 3)	8.35	4.91	1.72	8.35	4.91
Rainbow Valley (Zone 3)	6.89	4.05	1.42	6.89	4.05
Zone 3/4 (West) Zone 3	14.29	8.41	2.94	14.29	8.41
Zone 3/4 (East) Zone 3	21.87	12.86	4.50	21.87	12.86
Zone 3	23.26	13.68	4.79	23.26	13.68
Estrella Zone 3	9.12	5.36	1.88	9.12	5.36
Zone 4					
Rainbow Valley (Zone 4)	2.76	1.62	0.57	2.76	1.62
Zone 3/4 (West) Zone 4	5.61	3.30	1.16	5.61	3.30
Zone 3/4 (East) Zone 4	9.63	5.66	1.98	9.63	5.66
Estrella Zone 4	5.31	3.12	1.09	5.31	3.12
Sonoran Highland	13.22	7.78	2.72	13.22	7.78
Total	**266.50**	**156.76**	**54.87**	**266.50**	**156.76**

Notes:
1. Equal to the greater of 1 EQ plus fire flow or 2 EQ storage.
2. Does not include standby capacity

Buildout Fire Flow Analysis

A summary of the key points and observations associated with the buildout maximum day plus fire flow hydraulic analysis which can be seen on Figure 8 include:


JUNCTION (VALUE)
Less than 1.44
1.44~2.16
2.16~4.32
4.32~5.04
Greater than 5.04
TANK (MOTYPE)
Active Tank
Domain Tank
Active Reservoir
Domain Reservoir
PIPE (MOTYPE)
Active Pipe
Domain Pipe
Active Check Valve
Domain Check Valve
PUMP (MOTYPE)
Active
Domain
VALVE (MOTYPE)
Active
Domain
GY_Streets
GY_RIVERS
TANKLABEL
PIPE
PZ_50407 (ZONE)
Gila Zone
LPSCO
Zone 1
Zone 2
Zone 3
Zone 4

- The majority of the nodes located along the major arterials are capable of providing 3,500 gpm or more at 20 psi.
- The majority of the nodes located within residential areas are capable of providing the minimum required fire flow of 1,000 gpm or more at a residual of 20 psi.
- There is significant reduction in the number of nodes that were not able to provide the minimum of 1,000 gpm at 20 psi in the buildout system from the base year analysis.

Key Maps and a detailed base year fire flow report are provided in Appendix B and F respectively.

3.7 TRANSMISSION SYSTEM ANALYSES

As previously discussed, a separate transmission system is to be utilized to convey water from production facilities (surface and groundwater treatment plants) to the points of distribution system supply (reservoirs). The proposed build-out transmission system, shown on Figure 9, delivers water from production sites to reservoir sites using pumps to provide the HGL needed to move the water and control valves to set the refill rate at each reservoir. The final alignment of the transmission system can vary from that shown on Figure 9 as long as the system keeps the overall intent of the transmission system of conveying water from the production sources to the reservoirs shown on Figure 9.

Maximum Day

A hydraulic analysis was conducted to test the transmission system to ensure that the system is capable of conveying adequate capacity to refill reservoirs during maximum day demand conditions. A profile of the transmission system under buildout maximum day conditions is shown on Figure 10.

A summary of the key points and observations associated with the normal supply buildout maximum day transmission hydraulic analysis include:

- The transmission system will convey re-fill capacity from the CAP WTP, Adaman Mutual Water Company, Gila River GWTP (Low) and collected north groundwater to the Site 21, WestPac, Site 12 Gila River and King Ranch reservoirs.
- The Site 11, Site 8 and Site 10 reservoirs will be refilled from local wells directly connected to the reservoirs.

CAP WTP
Adaman Mutual
LPSCO Connection (Sarival)
Site 21 Reservoir
Westpac Reservoir
Storage #12 Reservoir
Gila River GWTP
Gila River Reservoir
Kings Ranch Reservoir
Storage #13 Reservoir
Rainbow Valley Reservoir
Waterman
Waterman Basin WTP
Zone 3/4 East Reservoir
Zone 3 Reservoir
Zone 3/4 West Reservoir
Estrella WTP
Estrella Zone 3
Zone 4 Reservoir
To Sonoran Valley

Perryville Rd
Citrus Rd
Cotton Ln
Sarival Ave
Reems Rd
Bullard Ave
Lichtfield Rd
Dysart Rd
Camelback Rd
Indian School Rd
Thomas Rd
McDowell Rd
Van Buren Rd
Yuma Rd
Lower Buckeye Rd
Broadway Rd
Southern Ave
Baseline Rd
Beloat Rd
Elliot Rd
Narramore Rd
Ray Rd
Williams Field Rd
Pecos Rd
Germann Rd
Queen Creek Rd
Concord Rd
Chandler Heights Rd
Riggs Rd
Hunt Rd
Patterson Rd

Gila River
Agua Fria River
Waterman Wash

303
85

N
W E
S

1 inch equals 1 miles

Legend

Facility
- Water Treatment Plant/GWTP
- Tank
- LPSCO Connection
- Valve

Transmission Main
- WPA 2
- WPA 4/5 Low
- WPA 4/5 High

Pressure Zones
- Estrella Mountain Park
- Gila Zone
- LPSCO
- Zone 1
- Zone 2
- Zone 3
- Zone 4

Figure 9
Transmission System

Integrated Water Master Plan
City of Goodyear, AZ
2007

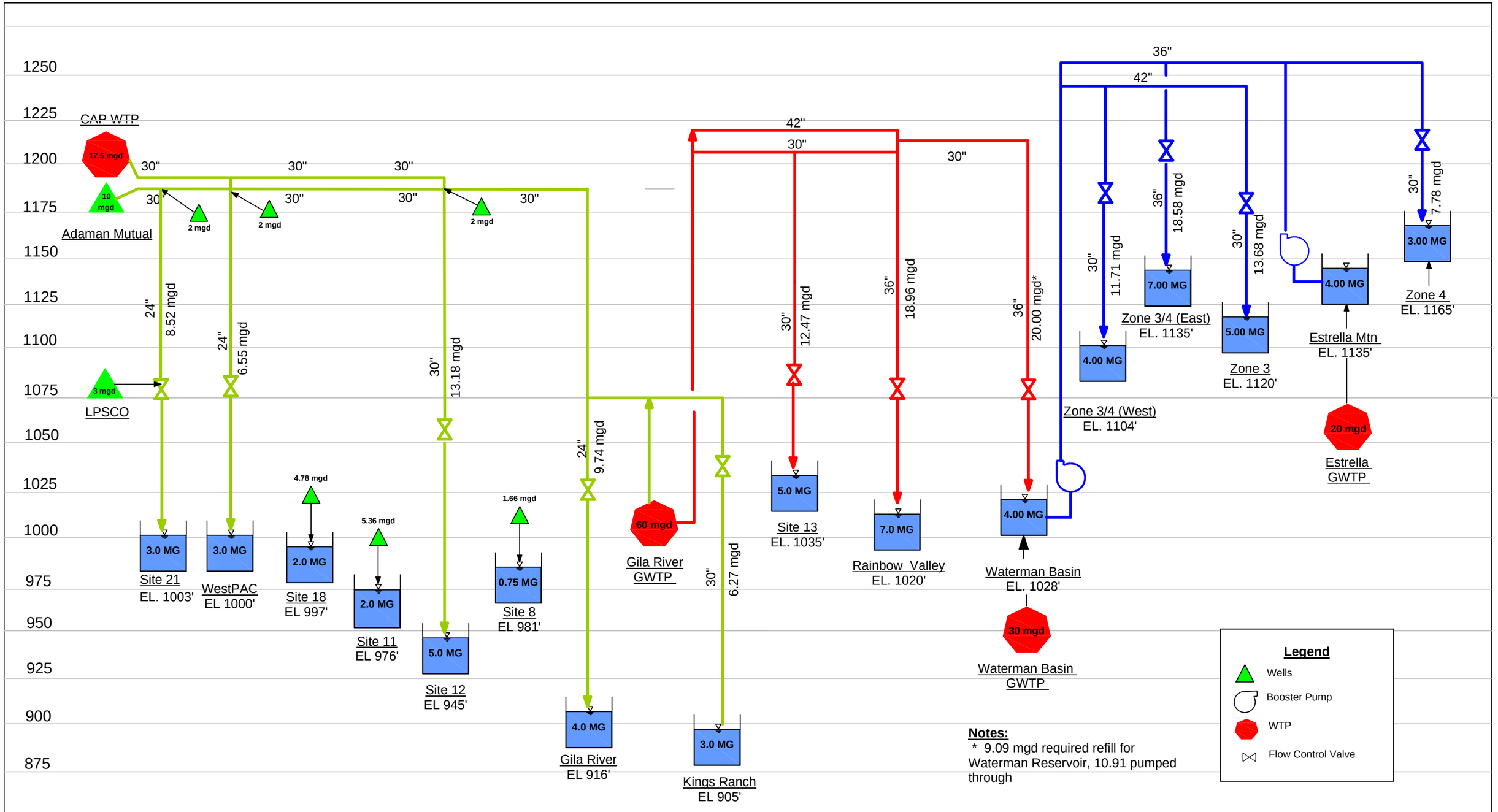
Data source:
City of Goodyear GIS
ESRI

Cygnet 145521\11GIS\zGISMaps\Buildout Trans.mxd 10 Sept 2007

Goodyear

BLACK & VEATCH
Building a world of difference.

Revised: Wednesday, March 26, 2007



BLACK & VEATCH
Corporation
PROJECT 145521

CITY OF GOODYEAR
2007 INTEGRATED MASTER PLAN
TRANSMISSION SYSTEM HYDRAULIC PROFILE
Figure 10 - Buildout Maximum Day

Goodyear ARIZONA

- The Gila River GWTP (High) will transfer up to 22 mgd south of the Gila River to refill the Site 13, Rainbow Valley and Waterman Basin Reservoir.
- The Estrella WTP will produce 20 mgd and will refill the reservoir located at the plant as well as the two Zone 3 / 4 reservoirs (West, East and South) and the Zone 3 reservoir.
- The Waterman Basin WTP will produce 30 mgd and will refill the reservoir located at the plant as well as the Rainbow Valley, Site 13 and the Kings Ranch Reservoirs. Excess water from the Gila River and Waterman Basin GWTPs will be pumped up to supplement the Estrella GWTP reservoirs.

4.0 RECOMMENDED IMPROVEMENTS

The following section documents the recommended improvements needed to meet future growth with in the City of Goodyear Water Service Area. Recommended improvements are presented in two phases.

- Buildout - A summary of the recommended projects required for the City to meet buildout population and demand projections.
- 10-Year Near Term Phase Improvement - A year by year scheduling of infrastructure requirements for the 10-year period of 2007 to 2017. The near term phase improvements utilize the buildout recommendations as the guideline for determining the infrastructure to be developed.

4.1 BUILDOUT IMPROVEMENTS

Buildout Distribution System

Recommended buildout distribution piping is shown on Figures 11.

Perryville Rd
Citrus Rd
Cotton Ln
Sarival Ave
Reems Rd
Bullard Ave
Lichtfield Rd
Dysart Rd
Camelback Rd
Indian School Rd
Thomas Rd
McDowell Rd
Van Buren Rd
Yuma Rd
Lower Buckeye Rd
Broadway Rd
Southern Ave
Baseline Rd
Beloat Rd
Elliot Rd
Narramore Rd
Ray Rd
Williams Field Rd
Pecos Rd
Germann Rd
Queen Creek Rd
Concord Rd
Chandler Heights Rd
Riggs Rd
Hunt Rd
Patterson Rd
Gila River
Agua Fria River
Waterman Wash
Site 21 Reservoir & Booster Station
Storage #18 Reservoir & Booster Station
Westpac Reservoir & Booster Station
Storage #11 Reservoir & Booster Station
Storage #12
Reservoir & Booster Stations
Storage #8 Reservoir
& Booster Station
Gila River Reservoir & Booster Station
Kings Ranch Reservoir & Booster Station
Storage #13
Reservoir & Booster Stations
Rainbow Valley Reservoir &
Booster Stations
Waterman Reservoir & Booster Station
Zone 3/4 East Reservoir &
Booster Stations
Zone 3 Reservoir & Booster Station
Zone 3/4 West
Reservoir & Booster Stations
Estrella Reservoir & Booster
Stations
10
85

N
W E
S

1 inch equals 1 mile

Legend

Street

Tanks and Reservoirs

Pressure Zones

Estrella Mountain Park

Gila Zone

LPSCO

Zone 1

Zone 2

Zone 3

Zone 4

Figure 11
Build Out Water Distribution System

Integrated Water Master Plan
City of Goodyear, AZ
2007

Data Sources:
City of Goodyear GIS
ESRI

Goodyear

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ENERGY WATER INFORMATION GOVERNMENT

Revised: Tuesday, March 25, 2008

Cygnet\145521\11GIS\zGISMaps\Buildout Peak Hour.mxd

Buildout Storage Requirements

Table 19 presents the recommended buildout reservoir capacities.

Table 19: Buildout Storage Capacities

Reservoir	Total Recommended Storage (MG)
Site 21	3.00
Site 8	0.75
Site 11	2.00
Site 18	2.00
Site 12	5.00
WestPac	3.00
Gila River	4.00
Kings Ranch	3.00
Site 13	5.00
Rainbow Valley	7.00
Waterman	4.00
Zone 3/4 (West)	4.00
Zone 3/4 (East)	7.00
Zone 3	5.00
Estrella	4.00
Sonoran Highland	3.00
Total	**61.75**

Buildout Booster Pumping

Table 20 presents the recommended buildout pump station capacities.

Table 20: Buildout Pump Station Capacities

Storage Site	Firm Pump Station Capacity (mgd)[1]
Zone 1 (HGL = 1165 FT)	
Site 21	18
Site 11	11
Site 18	10
Site 12 Zone 1	15
WestPac	14
Gila River Zone (HGL = 1100 FT)	
Site 12 (Gila River)	13
Gila River	20
Kings Ranch	13
Site 8	4
Zone 2 (HGL = 1175 FT)	
Site 13 (Zone 2)	16
Waterman (Zone 2)	19
Rainbow Valley (Zone 2)	28
Zone 3 (HGL = 1265 FT)	
Site 13 (Zone 3)	11
Rainbow Valley (Zone 3)	9
Zone 3/4 (West) Zone 3	18
Zone 3/4 (East) Zone 3	27
Zone 3	28
Estrella Zone 3	11
Zone 4 (HGL = 1365 FT)	
Rainbow Valley (Zone 4)	4
Zone 3/4 (West) Zone 4	7
Zone 3/4 (East) Zone 4	12
Estrella Zone 4	7
Sonoran Highland	16
Total	**331**

Notes:
1. Include 20% for Standby

Buildout Production and Transmission

As previously discussed based on the projected resources and demands, strategies were formulated by which potable water can be supplied, treated and delivered to satisfy potable water demands within the City of Goodyear potable water distribution system. The Buildout

Transmission System is shown on Figure 12. Table 21 presents the buildout production sources. Due to reserve capacities need and brine losses the total installed groundwater requirements will be greater therefore Table 21 presents both the recommended buildout firm and installed northern and southern groundwater requirements.

Table 21: Buildout Production Capacities Firm and Installed

Production Sources	Firm Capacity (mgd)	Installed Capacity (mgd)
Firm North Groundwater capacity (# of wells)	77	95 (48)
LPSCO	3	3
Adaman Mutual	10	10
CAP WTP	17.5	15
Firm South Groundwater capacity (# of wells)	50	62 (31)
Total Production	**163**	**193**

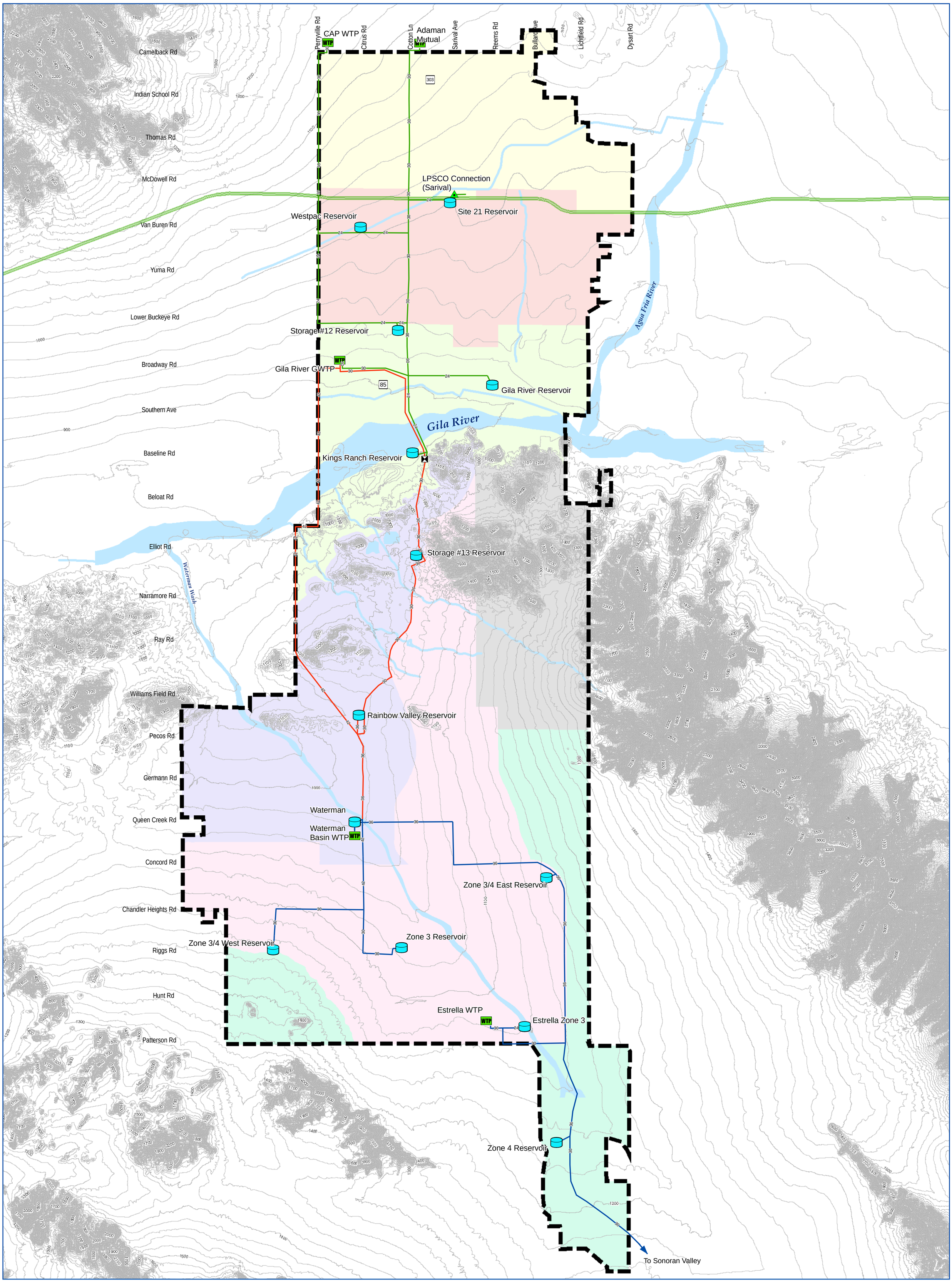
Notes:
1. Assumes 10% Brine Loss and assumes 10% reserve.
2. Assumes 2 mgd per well

Table 22 presents the recommended buildout Groundwater R/O Plant Capacities and well field requirements.

Table 22: Buildout Southern Groundwater Treatment Plan and Requirements

Southern Groundwater WTP	Nominal Size (mgd)	Well Filed Requirement[1] (mgd)	Number of Wells[2] (each)
Gila River	60	74	37
Estrella	30	37	19
Waterman	20	25	13
Total	110	136	69

Notes:
1. Assumes 90% recovery and 10% redundancy
2. Assumes 2 mgd per well



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N
W E
S

1 inch equals 1 miles

Legend

Facility

- Water Treatment Plant/GWTP
- Tank
- LPSCO Connection
- Valve

Transmission Main

- WPA 2
- WPA 4/5 Low
- WPA 4/5 High

Pressure Zones

- Estrella Mountain Park
- Gila Zone
- LPSCO
- Zone 1
- Zone 2
- Zone 3
- Zone 4

Data source:
City of Goodyear GIS
ESRI

Figure 12
Transmission System

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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Revised: Wednesday, March 26, 2007

4.2 INTERMEDIATE YEAR PHASING

Year by year phasing of water production and distribution infrastructure was prepared for the near term or next 10 years to be used in the development of the 10 year CIP. The following section presents the 10 year phasing for all infrastructure components.

Intermediate Year Distribution System

Recommended Intermediate Year (2017) distribution piping is shown on Figures 13.

Near Term Storage Requirements

Table 23 presents the recommended the near term reservoir capacities.

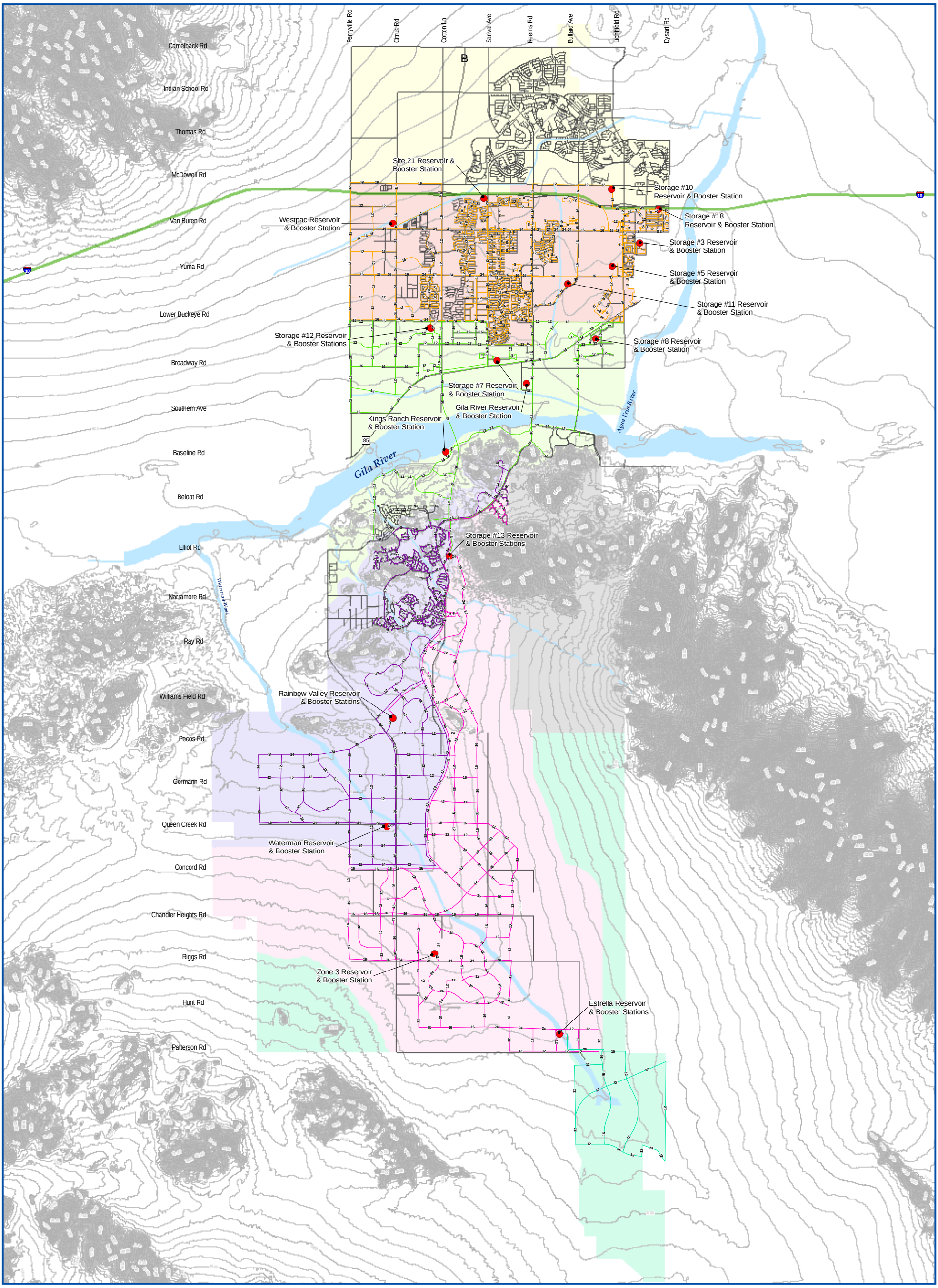
Near Term Pump Station Requirement

Table 24 presents the recommended the near term pump station capacities.

Near Term Production Requirements

Table 25 presents the recommended near term production requirements. Table 26 presents the near term groundwater requirements and Table 27 present the GWTP near term phasing.

The recommended phasing for the Transmission pipeline is shown on Figure 12.



N
W E
S

1 inch equals 2 miles

Data Sources:
City of Goodyear GIS
ESRI

Legend

Street

Tanks and Reservoirs

Pressure Zones

Estrella Mountain Park

Gila Zone

LPSCO

Zone 1

Zone 2

Zone 3

Zone 4

Figure 13
2017 Water Distribution System

Integrated Water Master Plan
City of Goodyear, AZ
2007

Goodyear

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Table 23: Near Term Storage Requirements

Total Storage	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Site 21	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Site 11	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Site 18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
WestPac	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00
Site 12	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Gila River	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	4.00	4.00
Site 8	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Kings Ranch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	1.50
Site 13	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Rainbow Valley	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Waterman	0.00	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Zone 3/4 (West)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zone 3/4 (East)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zone 3	0.00	0.00	0.00	0.00	3.00	3.00	3.00	3.00	5.00	5.00	5.00
Estrella	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	4.00
Sonoran Highland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Storage	**9.25**	**14.25**	**14.25**	**16.25**	**21.25**	**21.25**	**21.25**	**26.75**	**31.75**	**33.75**	**33.75**

Table 24: Near Term Pump Station Requirements

Zone 1	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Site 10	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Site 21	7.50	7.50	7.50	7.50	7.50	7.50	12.00	12.00	12.00	12.00	12.00
Site 11	6.20	6.20	6.20	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Site 18	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	6.00	6.00
Site 12 Zone 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WestPac	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00	18.00	18.00
Zone 1 Total Booster Station Capacity	15.80	15.80	15.80	21.60	21.60	21.60	26.10	26.10	44.10	48.70	48.70
Gila River Zone											
Site 12 (Gila River)	1.40	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Gila River	0.00	0.00	0.00	12.00	12.00	12.00	12.00	12.00	12.00	24.00	24.00
Kings Ranch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	9.00	9.00	9.00
Site 7	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Site 8	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Gila River Total Booster Station Capacity	3.50	14.10	14.10	26.10	26.10	26.10	26.10	35.10	35.10	47.10	47.10
Zone 2											
Site 13 (Zone 2)	3.80	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Waterman (Zone 2)	0.00	0.00	0.00	0.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Rainbow Valley (Zone 2)	0.00	12.00	12.00	12.00	12.00	18.00	18.00	18.00	18.00	18.00	18.00
Zone 2 Total Booster Station Capacity	3.80	18.00	18.00	18.00	30.00	36.00	36.00	36.00	36.00	36.00	36.00
Zone 3											
Site 13 (Zone 3)	1.40	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Rainbow Valley (Zone 3)	0.00	12.00	12.00	12.00	12.00	6.00	6.00	6.00	6.00	6.00	6.00
Zone 3/4 (West) Zone 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zone 3/4 (East) Zone 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zone 3	0.00	0.00	0.00	0.00	18.00	18.00	18.00	18.00	30.00	30.00	30.00
Estrella Zone 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	12.00	12.00	12.00
Zone 3 Total Booster Station Capacity	1.40	15.00	15.00	15.00	33.00	27.00	27.00	38.00	50.00	50.00	50.00
Zone 4											
Rainbow Valley (Zone 4)	0.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Zone 3/4 (West) Zone 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zone 3/4 (East) Zone 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Estrella Zone 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	12.00	12.00	12.00
Sonoran Highland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zone 4 Total Booster Station Capacity	0.00	6.00	6.00	6.00	6.00	6.00	6.00	18.00	18.00	18.00	18.00

Table 25: Near Term Production Requirements

Production Sources	Base Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Firm North Groundwater	12.70	15.00	15.00	15.00	15.00	20.00	20.00	20.00	25.00	25.00	25.00
LPSCO	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Adaman Mutual	0.00	2.00	2.00	4.00	4.00	6.00	8.00	10.00	10.00	10.00	10.00
CAP WTP	0.00	0.00	0.00	0.00	5.00	5.00	10.00	10.00	15.00	15.00	15.00
Firm South Groundwater	0.00	1.25	2.50	3.75	5.00	5.00	5.00	10.00	10.00	10.00	15.00
Total Production	14.70	21.25	22.50	25.75	32.00	39.00	46.00	53.00	63.00	63.00	68.00

Table 26: Near Term Groundwater Requirements

Groundwater Requirements	Base Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
North Groundwater[1]	18.68	22.06	22.06	22.06	22.06	29.41	29.41	29.41	36.76	36.76	36.76
North Groundwater Number of Wells	10	12	12	12	12	15	15	15	19	19	19
South Groundwater[1]	0.00	1.84	3.68	5.51	7.35	7.35	7.35	14.71	14.71	14.71	22.06
South Groundwater Number of Wells	0	1	2	3	4	4	4	8	8	8	12

Notes:
1. Assumes 15% Brine Loss and 20% of reserve Base Year through 2017, Buildout assumes 10% brine loss and 10% reserve.

Table 27: Near Term Southern Groundwater Treatment Plant Phasing

South Groundwater Plant Capacity	Base Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Waterman	0	0	0	0	5	5	5	10	10	10	10
Estrella	0	0	0	0	0	0	0	0	0	0	5
Gila River WTP	0	0	0	0	0	5	5	5	10	10	10

Zone 1 / Gila River Split

The creation of the new Gila River pressure zone which will be located between Zone 1 and Zone 2 will be required in the near future (2010). An analysis of the existing piping configuration, ground topography and facility layouts was conducted to identify the most effective way to implement the new zone while minimizing the capital cost associated with the project. The following list summarizes the necessary modification that is required for the full implementation of the Gila River Zone.

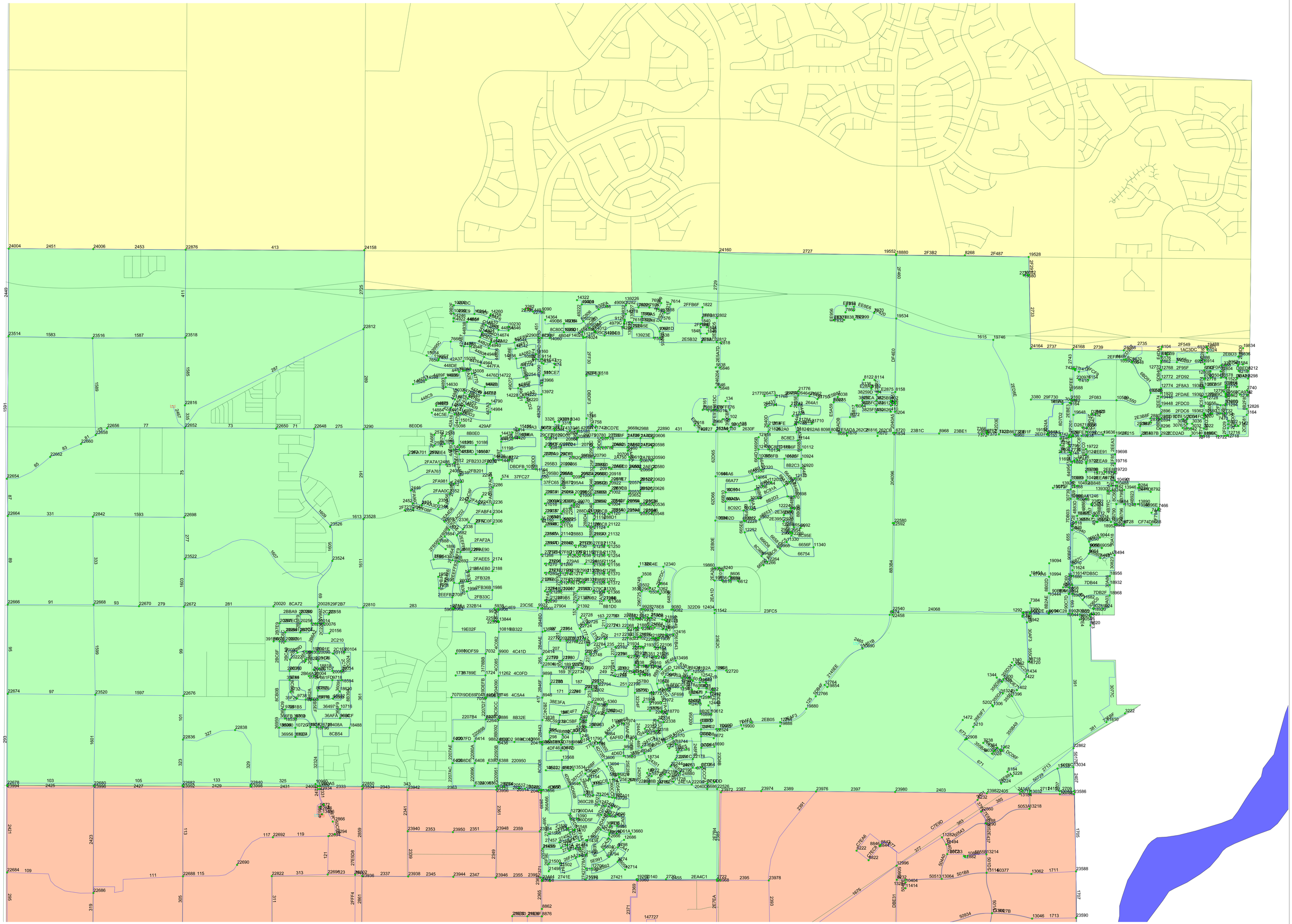
- New Gila River piping will need to be installed parallel to the existing piping along the Zone 1 / Gila River Pressure Zone boundary.
- The transmission line crossing the Gila River to the Kings Ranch and Site 13 Reservoir will need to in place. Once the distribution piping for Zone 1 and Gila River have been disconnected the existing 16 inch line which conveys water to the Site 13 Reservoir will not have adequate head to convey water south of the Gila River. Additionally in the near term planning horizon significant quantities of water will be conveyed from production sources located in the northern portion of the City (CAP WTP / Adaman / Northern Groundwater) to supply re-fill capacity to reservoirs located south of the Gila River.

APPENDIX A
BUILDOUT DEMANDS

	Land Use						Dwelling Units	Unit Rates			WPA-2		WPA-3		WPA-4		WSA-5		Water Service Area	
	Target Density	WPA-2	WPA-3	WPA-4	WPA-5	Total Acreage in Water Service Area Area	Dwelling Units	Demand Unit Rate[1]												
LAND USE CATEGORY	(du/ac)						Total Number of Dwelling Units in Water Service Area Area	(gpdu)	(gpad)	(af/ac-yr)	(mgd)	(af/yr)	(mgd)	(af/yr)	(mgd)	(af/yr)	(mgd)	(af/yr)	(mgd)	(af/yr)
RESIDENTIAL																				
Single-Family Residential																				
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	500	500	0.56	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Rural (0-2 du/ac)	1	1,988	1,915	0	437	4,340	4,340	444	444	0.50	0.9	990	0.9	953	0.0	0	0.2	217	1.9	2,160
Rural (0-2 du/ac)	2	0	0	16,979	0	16,979	33,958	444	889	1.00	0.0	0	0.0	0	15.1	16,903	0.0	0	15.1	16,903
Low Density (2-4 du/ac)	3	5,544	3,656	9,283	1,752	20,234	60,703	390	1,170	1.31	6.5	7,266	4.3	4,792	10.9	12,167	2.1	2,296	23.7	26,521
Low-Medium Density (4-6 du/ac)	5	799	2,055	931	529	4,313	21,567	320	1,598	1.79	1.3	1,430	3.3	3,678	1.5	1,666	0.8	946	6.9	7,721
						45,867	**120,568**	395	(Wtd Avg gpdu)		**8.6**	**9,686**	**8.4**	**9,423**	**27.4**	**30,737**	**3.1**	**3,460**	**47.6**	**53,306**
Multi-Family Residential																				
Medium Density (6-10 du/ac)	8	460	875	1,690	544	3,570	28,556	285	2,277	2.55	1.0	1,174	2.0	2,231	3.8	4,311	1.2	1,387	8.1	9,104
Medium-High Density (10-20 du/ac)	15	541	265	254	118	1,177	17,661	256	3,842	4.30	2.1	2,328	1.0	1,139	1.0	1,093	0.5	507	4.5	5,067
High Density Residential (20+ du/ac)	25	0	293	615	0	908	22,699	222	5,556	6.22	0.0	0	1.6	1,823	3.4	3,826	0.0	0	5.0	5,649
						5,655	**68,916**	257	(Wtd Avg gpdu)		**3.1**	**3,502**	**4.6**	**5,194**	**8.2**	**9,230**	**1.7**	**1,894**	**17.7**	**19,819**
Totals =		**9,332**	**9,058**	**29,752**	**3,379**	**51,522**	**189,484**													
NON RESIDENTIAL																				
Employment																				
Community Commercial		1,693	477	1,325	96	3,590			2,033	2.28	3.4	3,853	1.0	1,085	2.7	3,016	0.2	219	7.3	8,174
Regional Commercial		311	0	28	82	422			2,323	2.60	0.7	810	0.0	0	0.1	74	0.2	213	1.0	1,097
Luke Compatible Land Use Area		0	0	0	0	0			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
City Center / Village Center		173	28	103	0	305			12,342	13.83	2.1	2,392	0.3	391	1.3	1,431	0.0	0	3.8	4,214
Ballpark Village		48	0	0	0	48			8,228	9.22	0.4	443	0.0	0	0.0	0	0.0	0	0.4	443
Light Industrial		4,068	182	12	147	4,408			1,742	1.95	7.1	7,938	0.3	355	0.0	23	0.3	287	7.7	8,603
General Industrial		1,339	0	0	0	1,339			2,323	2.60	3.1	3,484	0.0	0	0.0	0	0.0	0	3.1	3,484
Mixed Use		0	0	0	216	216			2,000	2.24	0.0	0	0.0	0	0.0	0	0.4	484	0.4	484
											16.9	**18,921**	**1.6**	**1,831**	**4.1**	**4,544**	**1.1**	**1,203**	**23.7**	**26,499**
Support																				
Public / Quasi Public		345	239	715	68	1,367			2,178	2.44	0.8	841	0.5	582	1.6	1,744	0.1	167	3.0	3,334
Prison		0	0	0	0	0			3,630	4.07	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Airport		796	0	0	0	796			363	0.41	0.3	323	0.0	0	0.0	0	0.0	0	0.3	323
Parks		446	10,719	1,505	161	12,831			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Roads		348	776	1,745	452	3,322			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Open Space		3,020	3,975	4,106	1,096	12,196			0	0.00	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
											1.0	**1,165**	**0.5**	**582**	**1.6**	**1,744**	**0.1**	**167**	**3.3**	**3,658**
	TOTAL =	**21,919**	**25,454**	**39,292**	**5,697**	**92,361**	**189,484**			**TOTAL DEMAND =**	**29.7**	**33,274**	**15.2**	**17,029**	**41.3**	**46,255**	**6.0**	**6,724**	**92.2**	**103,284**

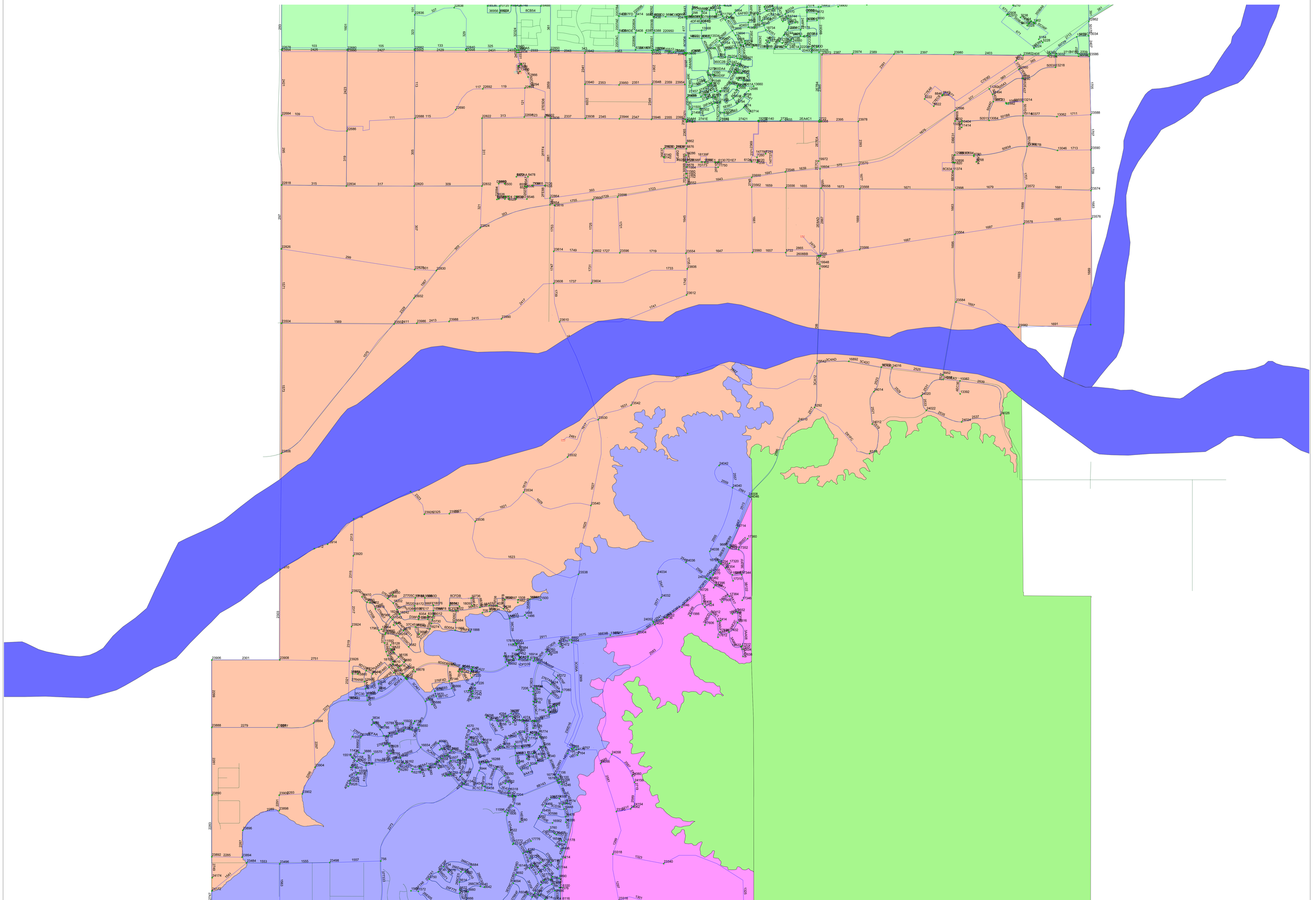
APPENDIX B
KEY MAPS

Zone 1 Key Map



Gila River Key Map

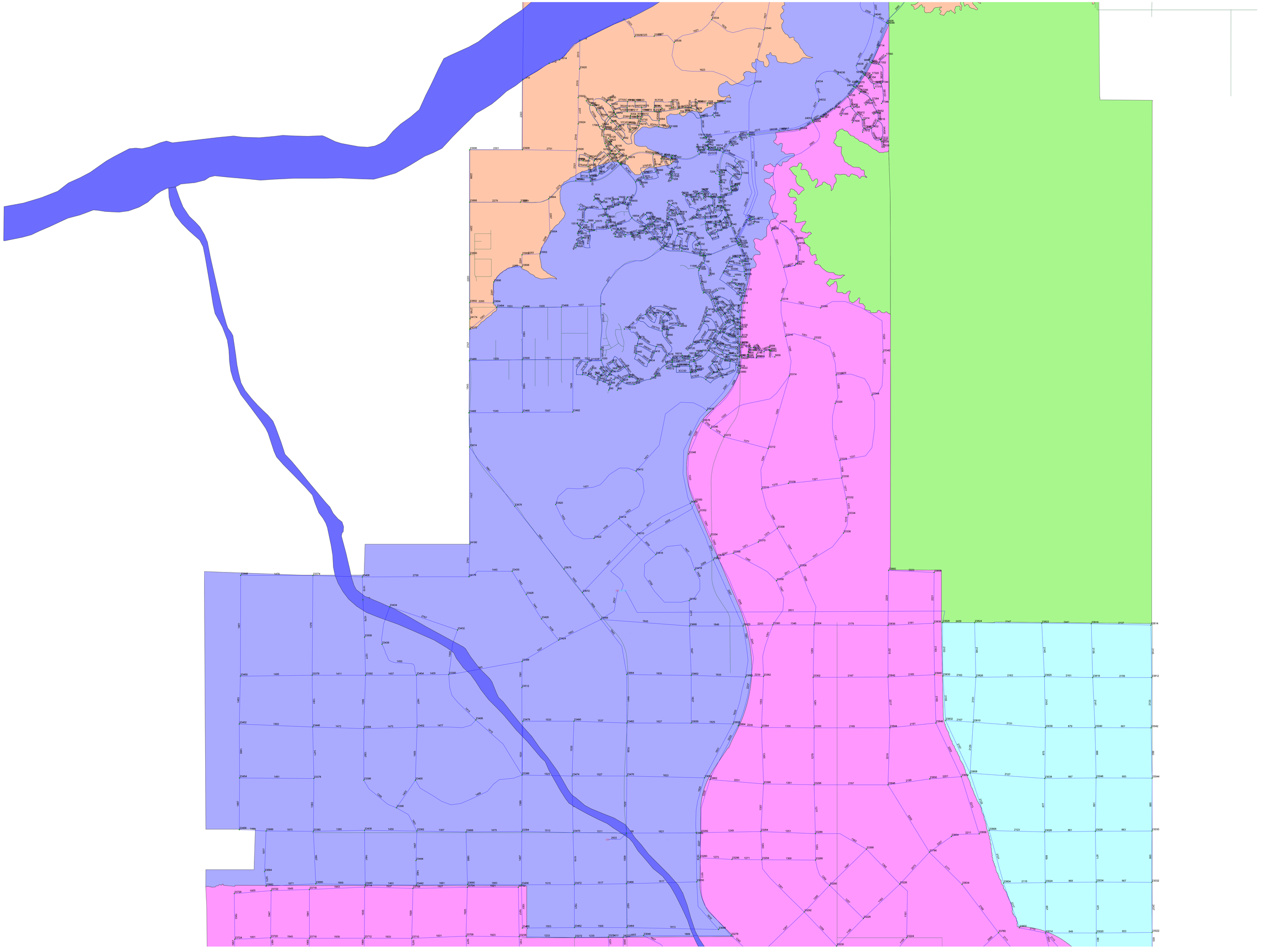
City of Goodyear Utility Master Plan



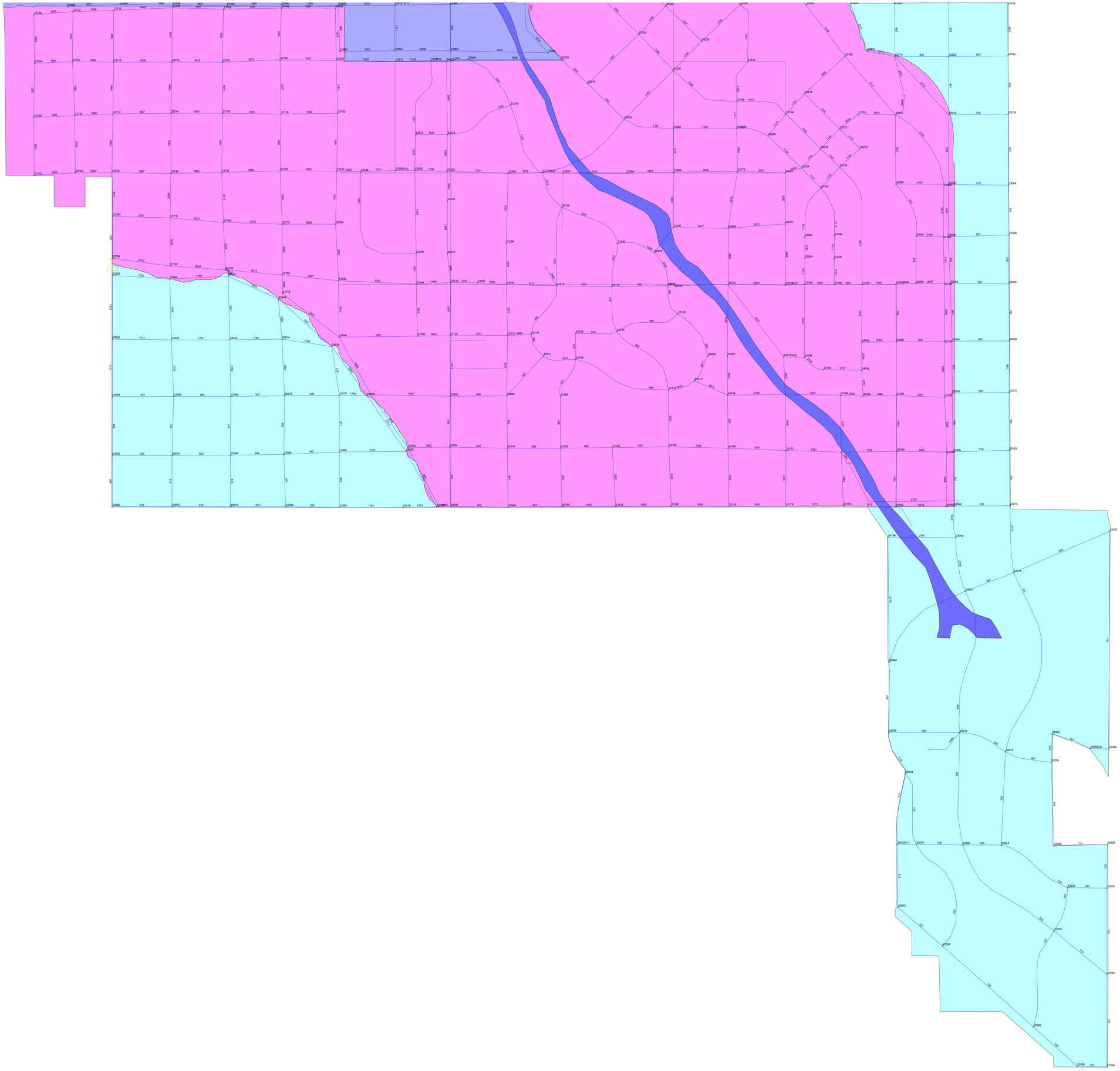
Prepared By: Black & Veatch

Date: Thursday, May 01, 2008

Zone 2 Key Map



Zone 3 Key Map



APPENDIX C
BASE YEAR MAXIMUM HOUR PIPE AND NODE REPORT

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1	1000	0.0000	1,006.34	1,144.12	59.70
2	10006	0.0000	975.00	1,130.94	67.57
3	1002	0.0000	1,000.02	1,144.12	62.44
4	10034	0.0000	982.81	1,130.85	64.14
5	10046	0.0000	984.97	1,130.87	63.22
6	10050	0.0000	985.75	1,130.88	62.88
7	10060	0.0000	983.21	1,130.87	63.98
8	10064	0.0000	982.74	1,130.88	64.19
9	10084	0.0000	984.63	1,130.90	63.38
10	10096	0.0272	985.73	1,131.00	62.95
11	10106	0.0272	983.14	1,131.03	64.08
12	10112	0.0000	981.75	1,131.16	64.74
13	10116	0.0272	984.67	1,131.15	63.47
14	10134	0.0000	985.55	1,131.13	63.08
15	10146	0.0231	988.06	1,130.91	61.90
16	1016	0.0000	1,005.00	1,144.12	60.28
17	10180	0.0272	985.35	1,130.06	62.70
18	10184	0.0000	986.33	1,130.13	62.31
19	10186	0.0544	986.58	1,130.06	62.17
20	102	0.0000	992.23	1,131.04	60.15
21	10208	0.0272	1,006.37	1,130.15	53.63
22	10210	0.0000	1,005.18	1,130.16	54.15
23	10214	0.0544	1,003.41	1,130.16	54.92
24	10222	0.0272	999.60	1,130.51	56.72
25	10230	0.0694	995.00	1,130.29	58.62
26	10254	0.0735	1,005.00	1,130.89	54.55
27	1028	0.0000	1,007.48	1,144.12	59.21
28	10292	0.0272	995.00	1,131.01	58.93
29	10296	0.0272	1,005.11	1,130.84	54.48

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
30	10300	0.0272	1,005.43	1,130.89	54.36
31	10304	0.0272	1,015.00	1,130.80	50.18
32	10308	0.0272	1,018.73	1,130.72	48.52
33	10312	0.1198	1,010.19	1,130.63	52.19
34	10332	0.0000	1,015.00	1,131.00	50.26
35	1036	0.0000	1,006.15	1,144.12	59.78
36	10404	0.0000	947.94	1,125.32	76.86
37	10444	0.0000	970.40	1,134.11	70.94
38	10454	0.0000	975.73	1,135.95	69.42
39	10466	0.0272	978.28	1,131.46	66.37
40	10484	0.0272	975.36	1,131.53	67.67
41	10488	0.0000	977.56	1,131.62	66.75
42	10490	0.0000	977.95	1,131.72	66.63
43	10492	0.0272	980.95	1,131.55	65.25
44	10498	0.0272	980.48	1,131.70	65.52
45	1050	0.0000	1,001.39	1,144.12	61.84
46	10500	0.0000	984.71	1,131.65	63.67
47	10526	0.0463	985.30	1,131.62	63.40
48	10548	0.0000	987.42	1,131.94	62.62
49	10550	0.0000	987.62	1,132.00	62.56
50	10556	0.0272	985.04	1,131.12	63.30
51	10560	0.0000	975.00	1,131.12	67.65
52	10562	0.0000	984.87	1,131.11	63.37
53	10568	0.0000	981.30	1,131.08	64.90
54	10578	0.0000	983.05	1,130.97	64.09
55	10582	0.0000	993.68	1,141.28	63.96
56	10590	0.0000	925.10	1,089.72	71.33
57	10600	0.0000	955.00	1,129.70	75.70
58	10612	0.0000	964.14	1,129.70	71.74

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
59		10628	0.0000	965.75	1,129.67	71.03
60		10632	0.0000	965.57	1,129.67	71.11
61		10644	0.0000	966.49	1,129.66	70.70
62		10656	0.0231	967.00	1,129.66	70.48
63		10678	0.0000	966.13	1,129.04	70.59
64		10682	0.0231	975.00	1,129.08	66.76
65		10686	0.0000	967.17	1,129.66	70.41
66		10690	0.0000	970.29	1,141.75	74.29
67		10694	0.0463	944.50	1,124.66	78.06
68		10716	0.0503	954.79	1,128.26	75.17
69		10720	0.0000	957.93	1,128.31	73.82
70		10730	0.0000	940.90	1,089.68	64.47
71		10736	0.0272	926.47	1,089.81	70.77
72		10762	0.0272	945.00	1,137.27	83.31
73		10768	0.0000	973.40	1,138.20	71.41
74		10772	0.0000	1,019.07	1,144.20	54.22
75		10778	0.0544	986.78	1,129.53	61.85
76		108	0.0000	985.00	1,131.04	63.28
77		10802	0.0000	997.20	1,131.17	58.05
78		10812	0.0000	985.00	1,131.47	63.46
79		10816	0.0272	975.00	1,128.50	66.51
80		10834	0.0000	1,034.00	1,036.97	1.29
81		10856	0.0000	935.62	1,124.11	81.67
82		10860	0.0000	959.54	1,126.22	72.22
83		10868	0.0000	982.51	1,131.01	64.35
84		10872	0.0272	986.49	1,131.03	62.63
85		10878	0.0272	975.00	1,129.20	66.82
86		10890	0.0000	955.00	1,129.70	75.70
87		10894	0.0000	975.00	1,130.81	67.51

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
88		10898	0.0231	979.11	1,130.89	65.76
89		1090	0.0000	950.00	1,128.19	77.21
90		10906	0.0000	978.48	1,130.86	66.02
91		10912	0.0694	975.00	1,130.82	67.52
92		10920	0.0272	980.27	1,131.03	65.33
93		10924	0.0272	975.00	1,131.09	67.63
94		10930	0.0000	984.43	1,130.90	63.47
95		10958	0.0000	988.69	1,144.81	67.64
96		10960	0.0000	988.60	1,144.76	67.66
97		10962	0.0000	981.01	1,131.08	65.03
98		10970	0.0000	1,035.89	1,143.73	46.73
99		10980	0.0000	935.00	1,128.45	83.82
100		10982	0.0000	944.47	1,128.45	79.72
101		10994	0.0000	973.06	1,134.94	70.14
102		10996	0.0000	980.94	1,131.82	65.38
103		10998	0.0272	980.25	1,131.74	65.64
104		11034	0.0000	956.41	1,128.31	74.48
105		11042	0.0000	927.03	1,089.70	70.48
106		11052	0.0000	975.21	1,143.35	72.85
107		11054	0.0000	971.04	1,143.35	74.66
108		11058	0.0000	949.77	1,090.05	60.78
109		11060	0.0000	948.23	1,090.02	61.44
110		11098	0.0000	1,025.00	1,230.23	88.93
111		11100	0.0000	1,024.79	1,230.23	89.02
112		11104	0.0926	985.36	1,144.41	68.92
113		11134	0.0272	1,001.95	1,139.76	59.72
114		11146	0.0272	947.96	1,137.30	82.04
115		11158	0.0000	973.54	1,138.26	71.37
116		11166	0.0000	1,004.08	1,144.12	60.68

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
117		11172	0.0000	1,025.67	1,146.14	52.20
118		11174	0.0000	1,045.00	1,145.54	43.56
119		11178	0.0000	1,036.25	1,144.81	47.04
120		11190	0.0000	995.00	1,130.14	58.56
121		11194	0.0272	995.00	1,129.53	58.29
122		11198	0.0000	985.90	1,130.23	62.54
123		11210	0.0000	995.00	1,131.07	58.96
124		11216	0.0272	1,003.99	1,130.94	55.01
125		11224	0.0272	1,003.09	1,131.00	55.42
126		11238	0.0272	1,002.03	1,144.70	61.82
127		11240	0.0272	975.41	1,131.53	67.65
128		11242	0.0272	977.87	1,131.57	66.60
129		11244	0.0000	977.31	1,131.46	66.79
130		11246	0.0272	978.39	1,131.56	66.37
131		11262	0.0272	965.85	1,128.45	70.45
132		11282	0.0000	952.14	1,125.60	75.16
133		11284	0.0272	995.00	1,130.97	58.92
134		11286	0.0000	980.03	1,131.10	65.46
135		11292	0.0000	981.03	1,131.08	65.02
136		11294	0.0000	979.91	1,131.10	65.51
137		11324	0.0000	981.68	1,129.19	63.91
138		11330	0.0694	976.33	1,130.83	66.95
139		1134	0.0000	955.41	1,128.28	74.90
140		11340	0.0272	974.48	1,130.83	67.75
141		11356	0.0000	960.93	1,128.39	72.56
142		11374	0.0231	928.86	1,124.11	84.60
143		11414	0.0000	948.13	1,125.32	76.78
144		11424	0.0000	1,005.00	1,138.30	57.76
145		11430	0.0000	975.24	1,138.27	70.64

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
146	11434	0.0000	988.31	1,138.24	64.96
147	11448	0.0272	987.07	1,139.80	66.18
148	11452	0.0272	985.31	1,139.99	67.03
149	11466	0.0000	989.87	1,144.84	67.15
150	11470	0.0000	997.82	1,144.15	63.41
151	11472	0.0000	985.00	1,144.15	68.96
152	11474	0.0000	1,003.34	1,058.29	23.81
153	11482	0.0000	997.85	1,230.21	100.68
154	11494	0.0000	953.63	1,125.60	74.52
155	1150	0.0000	955.45	1,128.32	74.90
156	11508	0.0000	987.61	1,132.02	62.57
157	11522	0.0000	983.34	1,130.96	63.96
158	11524	0.0231	982.95	1,130.85	64.08
159	1154	0.0000	956.25	1,128.35	74.57
160	11542	0.0000	965.00	1,130.61	71.76
161	11548	0.0000	947.48	1,128.07	78.25
162	11560	0.0000	909.29	1,128.81	95.12
163	11562	0.0000	909.19	1,128.81	95.16
164	11564	0.0000	912.60	1,128.82	93.69
165	11566	0.0000	1,016.91	1,230.21	92.43
166	11576	0.0000	1,039.04	1,144.23	45.58
167	11578	0.0000	975.00	1,129.68	67.02
168	11592	0.0000	925.00	1,089.76	71.39
169	11594	0.0000	929.99	1,089.80	69.24
170	11596	0.0000	1,024.28	1,144.20	51.96
171	11606	0.0231	1,014.87	1,144.20	56.04
172	11612	0.0272	968.81	1,131.71	70.59
173	11614	0.0272	970.69	1,131.80	69.81
174	11624	0.0000	965.00	1,131.80	72.27

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
175		11682	0.0544	964.96	1,131.47	72.15
176		11686	0.0000	970.95	1,131.80	69.70
177		11688	0.0000	981.84	1,131.83	64.99
178		11690	0.0000	982.38	1,131.84	64.76
179		11692	0.0694	984.13	1,131.87	64.02
180		11694	0.0463	984.45	1,131.87	63.88
181		11696	0.0000	985.38	1,131.89	63.48
182		11702	0.0272	985.00	1,130.07	62.86
183		11704	0.0272	993.98	1,129.84	58.87
184		11706	0.0272	985.00	1,130.18	62.91
185		11710	0.0000	960.68	1,132.55	74.47
186		11728	0.0272	965.00	1,128.56	70.87
187		11750	0.0000	915.43	1,129.35	92.69
188		11752	0.0000	907.21	1,128.80	96.01
189		11762	0.0000	993.03	1,143.57	65.23
190		11776	0.0000	996.02	1,144.76	64.45
191		11784	0.0000	966.02	1,128.44	70.38
192		11788	0.0000	964.92	1,128.41	70.84
193		11790	0.0000	966.99	1,128.40	69.94
194		11794	0.0000	965.00	1,128.40	70.80
195		11810	0.0000	971.10	1,126.99	67.55
196		11820	0.0000	935.45	1,124.11	81.75
197		1184	0.0000	955.23	1,128.31	75.00
198		11866	0.0272	950.08	1,089.69	60.49
199		11888	0.0000	961.30	1,089.69	55.63
200		1192	0.0000	952.40	1,128.28	76.21
201		11920	0.0272	985.44	1,131.50	63.29
202		11974	0.0000	955.00	1,128.38	75.13
203		11976	0.0000	963.19	1,128.38	71.58

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
204		11986	0.0231	964.25	1,128.39	71.12
205		11988	0.0272	962.91	1,128.38	71.70
206		11994	0.0463	975.00	1,131.12	67.65
207		12032	0.0000	982.83	1,130.89	64.16
208		12036	0.0000	983.69	1,130.88	63.78
209		1204	0.0000	952.86	1,128.28	76.01
210		12044	0.0000	983.27	1,130.89	63.97
211		12054	0.0000	981.11	1,130.89	64.90
212		1206	0.0000	954.08	1,128.27	75.47
213		12070	0.0000	980.06	1,130.89	65.35
214		12090	0.0000	982.33	1,130.86	64.36
215		12118	0.0000	995.00	1,131.05	58.95
216		12130	0.0272	986.61	1,131.05	62.58
217		12144	0.0272	983.23	1,131.27	64.14
218		1216	0.0000	954.96	1,128.28	75.10
219		12170	0.0231	980.31	1,130.97	65.28
220		12224	0.0000	978.86	1,130.85	65.86
221		12228	0.0000	981.80	1,130.82	64.57
222		1224	0.0000	945.00	1,128.28	79.41
223		12252	0.0231	980.66	1,130.82	65.07
224		12264	0.0000	975.84	1,130.83	67.16
225		12266	0.0000	975.80	1,130.83	67.17
226		12280	0.0000	976.40	1,130.84	66.92
227		12284	0.0000	976.48	1,130.84	66.88
228		12286	0.0000	977.04	1,130.85	66.64
229		12320	0.0000	984.82	1,130.95	63.32
230		12330	0.0000	984.90	1,130.92	63.27
231		12340	0.0000	975.00	1,129.19	66.81
232		12404	0.0000	974.37	1,130.57	67.68

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
233		12408	0.0000	975.00	1,130.36	67.32
234		12416	0.0694	972.49	1,129.49	68.03
235		1242	0.0000	952.84	1,128.23	76.00
236		12424	0.0000	968.09	1,129.73	70.04
237		12446	0.0000	965.10	1,129.70	71.32
238		1246	0.0000	951.67	1,128.19	76.48
239		12462	0.0000	955.00	1,129.69	75.69
240		12470	0.0000	965.05	1,129.69	71.34
241		12478	0.0000	965.01	1,129.68	71.35
242		12492	0.0000	964.39	1,129.68	71.62
243		12498	0.0000	965.06	1,129.68	71.33
244		12510	0.0000	965.67	1,129.66	71.06
245		12542	0.0000	975.00	1,129.66	67.02
246		12556	0.0000	967.71	1,129.66	70.17
247		12560	0.0000	966.82	1,129.66	70.56
248		12568	0.0000	966.16	1,129.67	70.85
249		12576	0.0000	966.08	1,129.67	70.88
250		12582	0.0000	965.02	1,129.68	71.34
251		12596	0.0000	964.70	1,129.68	71.49
252		1260	0.0000	950.85	1,128.19	76.84
253		12600	0.0000	967.01	1,129.38	70.35
254		12632	0.0000	975.00	1,129.15	66.79
255		12642	0.0000	966.93	1,129.15	70.29
256		12646	0.0000	975.00	1,129.15	66.79
257		12652	0.0000	965.32	1,128.99	70.92
258		12666	0.0000	944.84	1,127.92	79.33
259		12668	0.0000	945.29	1,127.98	79.16
260		12686	0.0000	942.32	1,127.55	80.26
261		12706	0.0272	941.64	1,127.92	80.71

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
262	12714	0.0272	935.87	1,127.41	82.99
263	12716	0.0231	985.00	1,131.10	63.31
264	12718	0.0000	985.00	1,131.10	63.31
265	1272	0.0000	949.60	1,128.27	77.42
266	12722	0.0000	975.62	1,131.11	67.37
267	12726	0.0000	985.75	1,131.11	62.99
268	12728	0.0463	985.76	1,131.11	62.98
269	12732	0.0000	975.00	1,131.11	67.64
270	12734	0.0000	975.00	1,131.11	67.64
271	12738	0.0000	984.90	1,131.11	63.35
272	12740	0.0000	995.00	1,131.11	58.97
273	12754	0.0000	956.01	1,134.91	77.52
274	1276	0.0000	948.72	1,128.20	77.77
275	12764	0.0000	955.00	1,138.54	79.53
276	12766	0.0000	955.31	1,137.67	79.02
277	12768	0.0000	987.24	1,131.42	62.47
278	12770	0.0000	987.30	1,131.42	62.45
279	12772	0.0272	986.52	1,131.42	62.78
280	12774	0.0272	985.84	1,131.44	63.09
281	12776	0.0000	982.27	1,131.02	64.45
282	12778	0.0272	982.11	1,131.00	64.51
283	12786	0.0000	981.70	1,131.08	64.73
284	12790	0.0000	981.55	1,131.07	64.79
285	12796	0.0272	982.75	1,131.01	64.24
286	12804	0.0000	984.40	1,130.97	63.51
287	12808	0.0000	983.78	1,130.97	63.78
288	12826	0.0000	985.00	1,131.10	63.31
289	12846	0.0544	935.00	1,089.72	67.04
290	12848	0.0272	950.00	1,089.50	60.45

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
291		12866	0.0000	936.84	1,128.47	83.03
292		12870	0.0000	911.42	1,129.43	94.46
293		12872	0.0000	955.02	1,125.56	73.90
294		12882	0.0000	958.46	1,125.56	72.41
295		1292	0.0000	971.15	1,133.66	70.42
296		12986	0.0231	941.82	1,124.50	79.16
297		12996	0.0000	943.47	1,125.36	78.81
298		12998	0.0000	925.00	1,122.80	85.71
299		1300	0.0000	959.87	1,132.97	75.01
300		13018	0.0000	965.00	1,125.81	69.68
301		13032	0.0000	965.00	1,125.81	69.68
302		13034	0.0000	966.79	1,125.81	68.90
303		13046	0.0000	949.26	1,125.22	76.24
304		1306	0.0000	963.46	1,132.97	73.45
305		13062	0.0000	956.12	1,125.54	73.41
306		13064	0.1389	955.37	1,125.47	73.71
307		13114	0.0000	958.80	1,125.54	72.25
308		13138	0.0000	964.97	1,125.81	69.69
309		13184	0.0000	965.00	1,125.81	69.68
310		13214	0.0000	965.00	1,125.81	69.68
311		13218	0.0000	965.00	1,125.81	69.68
312		1324	0.0000	963.76	1,132.97	73.32
313		13254	0.0000	947.91	1,125.32	76.87
314		1328	0.0000	959.85	1,132.97	75.02
315		13344	0.0000	955.00	1,125.22	73.76
316		13382	0.0000	912.28	1,113.79	87.32
317		13392	0.0000	925.00	1,113.79	81.80
318		134	0.0000	994.24	1,131.03	59.27
319		1340	0.0000	955.00	1,133.10	77.17

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
320	13406	0.0000	987.02	1,133.16	63.32
321	1342	0.0000	955.00	1,133.10	77.17
322	13432	0.0000	1,017.00	1,037.00	8.66
323	1344	0.0000	954.77	1,132.97	77.22
324	13440	0.0000	938.00	1,128.48	82.53
325	13444	0.0000	937.75	1,128.49	82.65
326	13446	0.0000	924.00	937.00	5.63
327	13458	0.0000	981.32	1,131.07	64.89
328	13478	0.0000	967.60	1,142.21	75.66
329	13480	0.0000	967.60	1,142.52	75.79
330	13494	0.0000	967.77	1,129.12	69.91
331	13498	0.0000	968.95	1,129.47	69.56
332	13522	0.0000	952.81	1,128.40	76.09
333	13534	0.0000	957.60	1,128.40	74.01
334	13542	0.0000	965.00	1,128.40	70.80
335	13568	0.0000	957.33	1,128.40	74.13
336	13602	0.0000	959.24	1,128.40	73.30
337	13606	0.0000	960.54	1,128.39	72.73
338	1362	0.0000	940.93	1,130.55	82.16
339	13620	0.0000	965.00	1,128.42	70.81
340	1364	0.0000	965.00	1,130.55	71.73
341	13640	0.0000	957.85	1,128.40	73.90
342	13646	0.0231	953.94	1,128.40	75.59
343	13650	0.0000	950.33	1,128.42	77.17
344	13656	0.0000	949.08	1,128.43	77.71
345	13660	0.0000	943.20	1,128.00	80.07
346	13670	0.0000	944.65	1,128.00	79.45
347	13684	0.0000	945.64	1,127.98	79.01
348	13694	0.0000	958.86	1,128.35	73.44

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
349	13706	0.0000	955.53	1,128.27	74.84
350	13720	0.0272	951.99	1,128.16	76.33
351	13724	0.1591	950.62	1,128.12	76.91
352	13748	0.0000	947.51	1,128.05	78.23
353	13762	0.0000	945.73	1,128.02	78.99
354	138	0.0000	990.90	1,131.05	60.73
355	13838	0.0000	957.00	1,128.45	74.29
356	13844	0.0000	974.71	1,128.53	66.65
357	13848	0.0272	971.13	1,128.53	68.20
358	13866	0.0000	954.80	1,128.43	75.23
359	13888	0.0463	985.00	1,131.81	63.61
360	13890	0.0231	985.00	1,131.77	63.59
361	13914	0.0272	975.35	1,131.45	67.64
362	13926	0.0000	981.49	1,131.55	65.02
363	13930	0.0272	985.00	1,131.46	63.46
364	13936	0.0000	985.00	1,131.77	63.59
365	13946	0.0544	976.78	1,127.33	65.23
366	13948	0.0000	976.94	1,131.49	66.97
367	13952	0.0272	977.15	1,131.46	66.86
368	13954	0.0000	974.81	1,131.46	67.88
369	13956	0.0000	974.66	1,131.46	67.94
370	13958	0.0000	985.00	1,131.46	63.46
371	1396	0.0000	965.00	1,132.60	72.62
372	13966	0.0272	996.51	1,131.09	58.31
373	13972	0.0000	995.81	1,131.02	58.59
374	13976	3.2723	1,003.90	1,131.69	55.37
375	14012	0.0000	1,004.60	1,131.05	54.79
376	14016	0.0000	1,004.18	1,131.04	54.97
377	1402	0.0000	953.89	1,132.84	77.54

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
378		14024	0.0000	995.00	1,131.07	58.96
379		14026	0.0000	995.00	1,131.08	58.96
380		14044	0.0000	994.30	1,130.96	59.21
381		14060	0.0000	999.65	1,131.28	57.04
382		14062	0.0000	995.00	1,130.35	58.65
383		14066	0.0000	987.36	1,130.24	61.91
384		14082	0.0000	1,005.00	1,144.54	60.46
385		14090	0.0272	1,014.27	1,145.11	56.69
386		14100	0.0272	1,011.13	1,144.91	57.96
387		14142	0.0272	995.95	1,130.96	58.50
388		14156	0.0272	1,005.00	1,130.96	54.58
389		14160	0.0272	995.29	1,131.05	58.82
390		14174	0.0272	995.14	1,130.95	58.85
391		14206	0.0272	994.65	1,130.91	59.04
392		1422	0.0000	955.00	1,133.09	77.17
393		14220	0.0000	994.10	1,130.99	59.32
394		14222	0.0000	994.51	1,130.99	59.14
395		14228	0.0000	994.00	1,130.98	59.35
396		14246	0.0272	1,004.48	1,130.16	54.45
397		14258	0.0000	1,001.92	1,130.30	55.63
398		14260	0.0000	1,002.37	1,130.30	55.43
399		14278	0.0272	1,008.47	1,130.89	53.05
400		14286	0.0272	1,015.00	1,131.00	50.26
401		14322	0.0000	1,008.76	1,130.80	52.88
402		1434	0.0000	955.00	1,133.20	77.22
403		14364	0.0000	999.80	1,130.94	56.82
404		14388	0.0272	1,004.42	1,130.99	54.84
405		14414	0.0000	990.02	1,130.48	60.86
406		14420	0.0272	989.19	1,130.48	61.22

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
407		14432	0.0272	987.58	1,130.27	61.83
408		14438	0.0000	986.77	1,130.28	62.18
409		1446	0.0000	970.54	1,133.63	70.67
410		14470	0.0000	984.69	1,130.01	62.97
411		14476	0.0000	983.92	1,130.03	63.31
412		14510	0.0000	986.99	1,130.19	62.05
413		14528	0.1007	997.18	1,129.13	57.17
414		14598	0.0544	997.16	1,129.21	57.22
415		14606	0.0272	1,005.00	1,129.56	53.97
416		14630	0.0544	995.46	1,129.58	58.12
417		14640	0.0272	985.00	1,130.05	62.85
418		14646	0.0000	995.00	1,130.30	58.63
419		14652	0.0272	998.50	1,130.32	57.12
420		14664	0.0544	1,003.03	1,130.20	55.10
421		14674	0.0000	997.03	1,130.47	57.82
422		1470	0.0000	970.99	1,133.66	70.48
423		1472	0.0000	953.73	1,129.12	76.00
424		14722	0.0544	995.70	1,129.63	58.03
425		14790	0.0272	991.76	1,128.90	59.43
426		14810	0.0272	1,000.82	1,130.32	56.12
427		1482	0.0000	945.68	1,090.12	62.59
428		14828	0.0544	994.13	1,129.46	58.64
429		14840	0.0272	993.10	1,129.07	58.92
430		14852	0.0272	985.00	1,128.76	62.29
431		1486	0.0000	963.10	1,090.16	55.05
432		14866	0.0272	996.75	1,129.94	57.71
433		14876	0.0272	993.64	1,129.78	58.99
434		14878	0.0272	993.77	1,130.04	59.05
435		1488	0.0000	966.09	1,090.16	53.76

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
436		14884	0.0000	985.00	1,130.37	62.99
437		14896	0.0000	996.69	1,130.25	57.87
438		14914	0.0000	992.45	1,130.37	59.76
439		14922	0.0000	1,004.01	1,130.18	54.67
440		14934	0.0272	1,000.10	1,130.41	56.46
441		1494	0.0000	949.91	1,090.14	60.76
442		14940	0.0272	1,005.00	1,130.43	54.35
443		14942	0.0000	997.73	1,130.60	57.57
444		14944	0.0272	996.34	1,129.97	57.90
445		14946	0.0272	1,005.00	1,130.14	54.22
446		14948	0.0272	999.39	1,130.32	56.73
447		14984	0.1470	990.62	1,128.67	59.82
448		14990	0.0272	991.59	1,128.68	59.40
449		14998	0.0000	996.58	1,129.97	57.80
450		150	0.0000	985.00	1,131.06	63.29
451		1500	0.0000	958.45	1,090.14	57.06
452		15008	0.0272	995.93	1,129.76	57.99
453		15012	0.0272	990.55	1,128.67	59.85
454		15016	0.0272	993.54	1,129.43	58.88
455		15018	0.0272	993.00	1,129.35	59.08
456		15028	0.0000	1,005.00	1,130.32	54.30
457		15032	0.0272	994.04	1,130.29	59.04
458		15038	0.0926	997.79	1,130.67	57.58
459		15040	0.0000	997.96	1,130.61	57.48
460		15054	0.0926	999.63	1,130.30	56.62
461		15060	0.0000	996.69	1,130.29	57.89
462		15068	0.0000	991.90	1,130.45	60.04
463		1508	0.0000	945.02	1,090.12	62.87
464		15098	0.0000	990.40	1,130.64	60.77

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
465		15166	0.0000	991.76	1,130.76	60.23
466		15184	0.0000	985.00	1,131.01	63.27
467		15188	0.0000	994.51	1,130.77	59.04
468		15214	0.0000	1,025.00	1,144.53	51.79
469		15246	0.0000	1,025.00	1,230.23	88.93
470		15256	0.0000	1,029.85	1,230.23	86.82
471		15278	0.0000	1,035.00	1,144.14	47.29
472		15284	0.0000	1,022.78	1,144.19	52.61
473		15292	0.0000	1,027.87	1,144.19	50.41
474		15302	0.0000	1,041.52	1,144.23	44.50
475		15304	0.0000	1,041.02	1,144.23	44.72
476		15310	0.0000	1,020.08	1,144.20	53.78
477		15352	0.0000	1,036.41	1,144.17	46.69
478		15386	0.0000	985.61	1,139.02	66.47
479		15398	0.0272	985.00	1,139.21	66.82
480		15404	0.0272	982.87	1,139.06	67.68
481		15414	0.0544	994.53	1,139.19	62.68
482		15438	0.0272	975.00	1,139.24	71.16
483		15444	0.0000	983.25	1,139.03	67.50
484		15454	0.0272	978.12	1,138.99	69.70
485		15476	0.0272	979.50	1,138.98	69.10
486		15510	0.0000	970.25	1,138.26	72.80
487		15542	0.0000	982.67	1,138.27	67.42
488		15552	0.0000	966.37	1,138.20	74.45
489		15566	0.0000	982.59	1,138.27	67.46
490		15570	0.0000	994.81	1,138.30	62.18
491		15614	0.0000	981.42	1,138.27	67.96
492		1562	0.0000	955.73	1,128.40	74.82
493		15622	0.0000	984.27	1,138.27	66.73

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
494		15626	0.0000	985.56	1,138.27	66.17
495		15632	0.0000	974.52	1,138.26	70.95
496		15666	0.0544	955.78	1,137.27	78.64
497		1568	0.0000	971.86	1,144.12	74.64
498		15686	0.0000	962.61	1,137.30	75.69
499		1572	0.0000	997.33	1,144.12	63.60
500		15722	0.0272	986.16	1,139.04	66.24
501		15752	0.0272	985.40	1,139.05	66.58
502		15766	0.0000	997.97	1,138.29	60.80
503		15784	0.0000	999.14	1,138.14	60.23
504		15786	0.0000	993.06	1,138.14	62.86
505		15788	0.0000	1,003.93	1,138.14	58.15
506		15794	0.0000	985.00	1,138.13	66.35
507		15804	0.0000	981.91	1,138.06	67.66
508		15810	0.0000	975.00	1,142.06	72.39
509		15818	0.0000	967.82	1,142.06	75.50
510		15824	0.0231	968.77	1,141.99	75.05
511		15836	0.0000	975.06	1,143.45	72.96
512		1584	0.0000	984.09	1,130.79	63.57
513		15846	0.0272	958.20	1,089.78	57.01
514		15860	0.0272	943.24	1,089.42	63.34
515		15910	0.0272	983.89	1,138.14	66.84
516		15920	0.0272	993.88	1,138.05	62.47
517		15928	0.0000	990.98	1,138.22	63.80
518		15954	0.0000	985.00	1,138.09	66.34
519		15972	0.0000	980.42	1,138.05	68.30
520		15984	0.0000	1,025.00	1,144.12	51.61
521		15996	0.0000	1,011.57	1,144.12	57.44
522		16008	0.0000	1,024.72	1,144.12	51.74

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
523		16012	0.0272	1,018.76	1,144.12	54.32
524		16016	0.0000	1,009.95	1,144.12	58.13
525		16018	0.0000	1,025.65	1,144.12	51.33
526		16020	0.0000	1,029.00	1,144.12	49.88
527		16022	0.0000	1,019.51	1,144.12	53.99
528		16046	0.0272	1,041.41	1,144.14	44.51
529		16096	0.0000	1,025.00	1,144.09	51.60
530		16104	0.0272	1,024.07	1,144.09	52.01
531		16120	0.0000	1,016.41	1,144.09	55.32
532		16148	0.0000	1,025.20	1,144.09	51.52
533		16160	0.0272	1,025.00	1,144.13	51.62
534		16162	0.0000	1,005.00	1,138.45	57.83
535		16168	0.0000	1,020.00	1,138.61	51.40
536		16178	0.0000	993.65	1,138.98	62.97
537		16222	0.0000	995.00	1,139.48	62.60
538		16230	0.0000	1,006.86	1,139.48	57.46
539		16234	0.0000	1,014.31	1,138.37	53.76
540		16238	0.0000	1,007.47	1,138.35	56.71
541		16256	0.0000	1,000.97	1,138.86	59.75
542		16258	0.0000	1,017.36	1,138.72	52.59
543		16270	0.0000	997.27	1,138.98	61.40
544		16272	0.0000	1,014.68	1,138.72	53.75
545		16276	0.0000	1,016.88	1,138.61	52.75
546		16280	0.0000	1,027.46	1,138.45	48.09
547		16282	0.0000	1,022.74	1,138.45	50.14
548		16288	0.0272	975.00	1,139.98	71.49
549		16318	0.0272	1,003.54	1,142.85	60.36
550		16332	0.0272	995.03	1,142.26	63.80
551		16350	0.0272	988.96	1,142.00	66.31

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
552		16352	0.0000	993.79	1,142.27	64.34
553		16354	0.0000	1,009.18	1,143.63	58.26
554		16358	0.0272	975.06	1,139.23	71.14
555		16370	0.0272	972.93	1,139.11	72.01
556		16414	0.0272	977.47	1,139.12	70.04
557		16416	0.0272	977.94	1,139.11	69.83
558		16426	0.0272	975.11	1,139.10	71.06
559		16434	0.0272	999.37	1,140.91	61.33
560		16438	0.0272	1,005.39	1,141.22	58.86
561		16442	0.0000	1,040.43	1,145.30	45.44
562		16448	0.0272	1,048.30	1,145.16	41.97
563		16456	0.0272	1,022.89	1,144.92	52.87
564		16468	0.0272	1,025.00	1,144.70	51.87
565		16478	0.0272	1,044.47	1,145.13	43.62
566		16538	0.0272	1,025.00	1,144.66	51.85
567		16544	0.0000	1,031.37	1,144.78	49.14
568		16556	0.0000	1,035.00	1,145.13	47.72
569		16562	0.0503	1,038.02	1,144.82	46.28
570		16564	0.0000	1,005.63	1,144.10	60.00
571		16572	0.0000	1,003.02	1,144.10	61.13
572		16592	0.0272	1,024.38	1,143.57	51.64
573		16604	0.0000	1,016.44	1,144.09	55.31
574		16614	0.0272	1,043.92	1,144.23	43.46
575		16622	0.0000	1,044.25	1,230.23	80.58
576		16642	0.0000	895.00	1,108.00	92.29
577		16644	0.0000	953.10	1,136.73	79.57
578		16650	0.0000	976.85	1,138.02	69.84
579		16654	0.0000	975.00	1,138.46	70.83
580		16658	0.0000	987.02	1,139.00	65.85

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
581	16662	0.0272	997.50	1,139.48	61.52
582	16678	0.0000	945.02	1,136.86	83.13
583	16684	0.0272	954.59	1,138.47	79.67
584	16692	0.0000	965.00	1,142.07	76.72
585	16696	0.0000	975.43	1,143.47	72.81
586	16698	0.0000	982.03	1,143.93	70.15
587	1670	0.0000	987.22	1,132.11	62.78
588	16702	0.0000	910.00	1,110.92	87.06
589	16714	0.0000	983.63	1,080.78	42.10
590	16724	0.0000	993.82	1,075.80	35.52
591	16726	0.0000	996.79	1,230.21	101.14
592	16736	0.0000	1,032.94	1,230.22	85.48
593	1676	0.0000	984.66	1,131.83	63.77
594	16760	0.0000	997.75	1,144.15	63.43
595	16764	0.0000	987.82	1,144.15	67.74
596	16770	0.0000	986.66	1,144.58	68.43
597	16774	0.0000	1,006.08	1,145.13	60.25
598	16778	0.0000	1,014.69	1,146.69	57.20
599	16780	0.0000	1,024.67	1,146.22	52.67
600	16890	0.0272	956.42	1,089.90	57.84
601	16892	0.0000	910.00	1,109.51	86.45
602	16898	0.0272	944.52	1,136.86	83.34
603	16908	0.0000	959.77	1,138.47	77.43
604	16914	0.0000	983.73	1,143.69	69.31
605	16916	0.0000	985.00	1,143.93	68.86
606	16954	0.0000	1,004.79	1,144.23	60.42
607	16956	0.0000	1,001.05	1,144.22	62.04
608	17028	0.0000	981.97	1,144.15	70.27
609	17030	0.0272	985.41	1,144.41	68.89

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
610		17032	0.0000	992.93	1,144.58	65.71
611		17072	0.0272	1,001.47	1,144.15	61.82
612		17080	0.0272	1,005.00	1,144.16	60.30
613		17094	0.0272	998.43	1,144.31	63.21
614		17180	0.0272	1,006.68	1,144.44	59.69
615		17208	0.0000	964.06	1,138.20	75.46
616		17212	0.0000	965.00	1,138.20	75.05
617		17220	0.0272	945.00	1,138.28	83.75
618		17226	0.0272	959.40	1,138.21	77.48
619		17234	0.0000	965.00	1,138.20	75.05
620		1724	0.0000	955.00	1,128.47	75.16
621		17242	0.0000	965.00	1,138.20	75.05
622		17246	0.0000	1,004.67	1,127.98	53.43
623		17310	0.0000	1,006.58	1,127.98	52.60
624		17320	0.0000	1,005.00	1,127.98	53.29
625		17344	0.0000	1,005.33	1,127.98	53.15
626		17346	0.0272	1,023.96	1,127.96	45.06
627		17352	0.0000	985.00	1,127.98	61.95
628		17354	0.0000	999.52	1,127.98	55.66
629		1736	0.0000	955.00	1,128.47	75.16
630		17360	0.0000	985.00	1,127.98	61.95
631		17384	0.0000	1,025.00	1,230.21	88.92
632		17388	0.0000	1,030.92	1,230.21	86.35
633		17396	0.0000	1,003.74	1,230.21	98.13
634		17406	0.0000	1,007.70	1,230.21	96.42
635		17412	0.0000	1,024.26	1,230.21	89.24
636		17414	0.0000	1,032.78	1,230.21	85.55
637		17418	0.0000	1,033.11	1,230.21	85.40
638		1742	0.0000	994.57	1,130.79	59.02

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
639		17432	0.0000	1,051.69	1,230.21	77.36
640		1746	0.0000	996.48	1,130.79	58.20
641		17512	0.0000	1,085.00	1,230.21	62.92
642		17514	0.0000	1,085.00	1,230.21	62.92
643		17524	0.0000	1,012.57	1,230.21	94.31
644		1758	0.0000	995.33	1,130.79	58.69
645		17598	0.0000	995.00	1,230.21	101.92
646		17600	0.0000	1,018.65	1,230.21	91.67
647		17602	0.0000	1,011.74	1,230.21	94.67
648		17606	0.0000	1,048.54	1,230.21	78.72
649		17612	0.0000	1,073.14	1,230.21	68.06
650		17616	0.0000	1,042.26	1,230.21	81.44
651		17620	0.0000	1,085.84	1,230.21	62.56
652		17622	0.0000	1,085.93	1,230.21	62.52
653		17626	0.0000	1,054.00	1,230.21	76.35
654		17634	0.0000	1,085.75	1,230.21	62.60
655		17638	0.0000	1,106.76	1,230.21	53.49
656		17666	0.0000	995.53	1,144.60	64.59
657		17668	0.0000	991.93	1,144.62	66.16
658		17690	0.0272	1,002.90	1,144.46	61.34
659		17704	0.0272	1,005.00	1,144.66	60.52
660		17736	0.0272	1,024.44	1,144.17	51.88
661		1774	0.0000	995.06	1,130.79	58.81
662		17740	0.0272	1,034.10	1,144.15	47.69
663		17744	0.0000	1,037.76	1,144.15	46.10
664		17752	0.0000	1,038.86	1,144.15	45.62
665		17756	0.0000	1,033.29	1,144.15	48.04
666		17762	0.0272	1,026.96	1,144.16	50.78
667		17776	0.0272	1,019.61	1,144.16	53.97

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
668	17818	0.0000	979.51	1,143.35	70.99
669	17824	0.0272	1,025.08	1,143.75	51.42
670	17838	0.0272	1,034.17	1,143.84	47.52
671	17840	0.0272	1,025.00	1,143.84	51.49
672	17848	0.0272	1,023.27	1,143.95	52.29
673	17866	0.0000	1,045.00	1,144.18	42.97
674	17884	0.0000	1,038.36	1,144.19	45.86
675	17886	0.0000	1,038.96	1,144.18	45.59
676	17894	0.0503	1,039.45	1,144.17	45.38
677	17946	0.3281	1,032.19	1,143.43	48.20
678	17952	0.0000	1,043.71	1,143.73	43.34
679	17958	0.0272	925.00	1,089.50	71.28
680	17962	0.0000	939.43	1,089.69	65.11
681	17964	0.0000	935.00	1,089.69	67.03
682	17966	0.0272	926.15	1,089.61	70.83
683	17984	0.0000	981.34	1,143.39	70.22
684	17990	0.0000	981.58	1,143.39	70.11
685	17994	0.0000	985.61	1,143.35	68.35
686	18002	0.0000	985.30	1,090.38	45.53
687	18012	0.0000	955.00	1,090.18	58.57
688	18016	0.0000	939.66	1,090.02	65.15
689	18026	0.0000	927.15	1,089.78	70.47
690	18050	0.0000	930.82	1,089.81	68.89
691	18072	0.0272	926.29	1,089.75	70.83
692	18076	0.0272	925.41	1,089.63	71.16
693	18106	0.0000	949.19	1,089.88	60.96
694	18108	0.0000	945.00	1,089.88	62.78
695	18118	0.0000	931.57	1,089.85	68.58
696	18122	0.0000	921.96	1,089.85	72.74

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
697	18128	0.0000	925.00	1,089.85	71.43
698	18136	0.0000	945.00	1,089.92	62.80
699	18146	0.0000	928.63	1,089.72	69.80
700	18152	0.0000	934.71	1,089.73	67.17
701	18172	0.0272	925.31	1,089.62	71.20
702	18176	0.0272	925.13	1,089.61	71.27
703	18186	0.0272	925.12	1,089.59	71.26
704	18202	0.0272	926.20	1,089.55	70.78
705	1822	0.0000	1,004.97	1,131.00	54.61
706	18242	0.0000	927.25	1,089.69	70.39
707	18246	0.0000	935.00	1,089.69	67.03
708	18254	0.0272	931.09	1,089.62	68.69
709	18274	0.0000	944.79	1,089.65	62.77
710	18284	0.0000	936.49	1,089.70	66.38
711	18288	0.0000	925.00	1,089.71	71.37
712	18298	0.0000	929.24	1,089.64	69.50
713	1830	0.0000	995.00	1,131.00	58.93
714	18302	0.0000	935.42	1,089.61	66.81
715	184	0.0000	965.00	1,127.76	70.52
716	1840	0.0000	1,003.54	1,131.00	55.23
717	18402	0.0272	917.35	1,089.52	74.60
718	18410	0.0000	905.83	1,089.54	79.60
719	18416	0.0544	925.00	1,089.52	71.29
720	1842	0.0000	995.00	1,131.00	58.93
721	1844	0.0000	1,002.79	1,131.00	55.55
722	1846	0.0000	995.00	1,131.00	58.93
723	18468	0.0000	949.32	1,128.10	77.47
724	1848	0.0000	1,002.66	1,131.00	55.61
725	18488	0.0272	951.09	1,128.31	76.79

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
726		18530	0.0000	960.92	1,128.29	72.52
727		18536	0.0272	960.59	1,128.29	72.67
728		18542	0.0926	955.86	1,128.35	74.74
729		18594	0.0503	958.90	1,128.26	73.38
730		18610	0.0272	958.97	1,128.32	73.38
731		18630	0.0272	965.00	1,128.26	70.74
732		18632	0.0272	957.23	1,128.27	74.11
733		1866	0.0000	995.00	1,130.30	58.63
734		18666	0.0000	960.80	1,128.34	72.59
735		18702	0.0000	983.98	1,131.95	64.11
736		18706	0.0000	984.10	1,131.87	64.03
737		18718	0.4166	955.00	1,133.21	77.22
738		1872	0.0000	975.85	1,128.90	66.31
739		18720	0.0000	955.00	1,133.22	77.22
740		18722	0.0544	945.00	1,127.94	79.27
741		18726	0.0272	954.46	1,127.98	75.19
742		18734	0.0272	955.50	1,128.22	74.84
743		18744	0.0272	960.01	1,128.68	73.09
744		18748	0.0000	959.03	1,128.82	73.57
745		18756	0.0272	966.28	1,128.80	70.42
746		18766	0.0272	963.35	1,128.79	71.69
747		18770	0.0694	964.13	1,128.85	71.37
748		18772	0.0272	964.80	1,128.81	71.07
749		18786	0.0000	974.71	1,129.21	66.94
750		18796	0.0231	955.18	1,128.41	75.06
751		18818	0.0000	955.00	1,128.35	75.11
752		18828	0.0000	975.00	1,128.22	66.39
753		1884	0.0000	975.09	1,128.90	66.64
754		18842	0.0000	985.00	1,129.80	62.74

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
755		1886	0.0000	973.59	1,128.89	67.30
756		1888	0.0000	974.53	1,128.89	66.89
757		18880	0.0000	1,005.00	1,140.01	58.50
758		18900	0.0000	973.10	1,128.54	67.35
759		18902	0.0000	995.00	1,131.96	59.34
760		18920	0.0231	962.05	1,131.32	73.35
761		18924	0.0000	963.08	1,131.46	72.96
762		18928	0.0000	962.15	1,131.34	73.31
763		18932	0.0544	965.00	1,131.42	72.11
764		18942	0.0000	968.50	1,133.56	71.52
765		18952	0.0000	977.17	1,131.48	66.86
766		18956	0.0272	965.00	1,131.44	72.12
767		1896	0.0000	972.25	1,128.89	67.87
768		18968	0.0272	965.00	1,131.40	72.10
769		18986	0.0000	965.00	1,131.73	72.24
770		19044	0.0000	965.00	1,131.76	72.26
771		19054	0.0000	962.49	1,131.46	73.22
772		19070	0.0231	983.97	1,131.82	64.06
773		1908	0.0000	971.85	1,128.91	68.06
774		19094	0.0000	975.23	1,134.94	69.20
775		19152	0.0000	986.90	1,131.97	62.86
776		19170	0.1157	995.00	1,131.87	59.30
777		19224	0.0000	987.14	1,131.99	62.76
778		19238	0.0000	986.87	1,131.93	62.86
779		19244	0.0000	916.14	1,129.33	92.38
780		19262	0.0000	933.96	1,127.74	83.97
781		19284	0.0000	914.40	1,128.96	92.97
782		19286	0.0000	917.07	1,128.96	91.81
783		19294	0.0000	925.00	1,128.47	88.16

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
784		19302	0.0000	935.00	1,128.56	83.87
785		19310	0.0000	916.40	1,129.33	92.26
786		19358	0.0000	975.69	1,131.11	67.34
787		19360	0.0272	985.74	1,131.11	62.99
788		19362	0.0272	975.00	1,131.12	67.65
789		19388	0.0272	986.42	1,131.05	62.67
790		19408	0.0000	975.00	1,131.11	67.64
791		19446	0.0000	995.00	1,131.33	59.07
792		19448	0.0272	984.55	1,131.27	63.57
793		19458	0.0000	984.55	1,131.12	63.51
794		19460	0.0000	975.00	1,131.12	67.65
795		19486	0.0000	978.43	1,132.19	66.62
796		19488	0.0000	981.90	1,132.19	65.12
797		19496	0.0000	995.00	1,132.11	59.41
798		1952	0.0000	969.53	1,128.71	68.97
799		19528	0.0694	985.00	1,141.03	67.61
800		19534	0.0000	985.00	1,137.28	65.98
801		19552	-1.8000	1,005.00	1,140.04	58.51
802		19556	0.0000	985.00	1,141.33	67.74
803		1958	0.0000	967.95	1,128.71	69.66
804		19580	0.0000	993.66	1,141.28	63.96
805		19588	0.0231	995.00	1,131.95	59.34
806		19610	0.0000	986.26	1,131.60	62.97
807		19620	0.0000	995.00	1,131.98	59.35
808		19636	0.0231	986.02	1,131.95	63.23
809		19648	0.0926	995.00	1,131.95	59.34
810		19698	0.0272	981.62	1,131.60	64.99
811		19702	0.0000	982.76	1,131.67	64.52
812		19706	0.0000	975.00	1,131.67	67.89

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
813		19716	0.0272	980.39	1,131.62	65.53
814		19720	0.0000	978.82	1,131.65	66.22
815		19722	0.0272	984.76	1,131.54	63.60
816		19724	0.0000	978.31	1,131.70	66.46
817		19728	0.0000	983.03	1,131.67	64.41
818		19730	0.0272	979.88	1,131.45	65.68
819		19732	0.0272	980.57	1,131.45	65.38
820		19746	0.0000	985.00	1,132.08	63.73
821		19776	0.0000	984.13	1,131.87	64.02
822		19778	0.0000	984.30	1,131.87	63.94
823		19826	0.0000	983.78	1,131.95	64.20
824		19834	0.0231	995.00	1,130.76	58.83
825		19836	0.1157	986.23	1,130.77	62.63
826		19844	0.0000	982.01	1,131.04	64.57
827		19854	0.0000	958.34	1,138.54	78.08
828		19856	0.0000	977.14	1,130.65	66.52
829		1986	0.0000	972.72	1,128.80	67.63
830		19860	0.0000	978.34	1,130.69	66.01
831		19868	0.0000	959.70	1,133.18	75.17
832		19880	0.0000	952.21	1,136.73	79.96
833		19888	0.0000	955.57	1,134.91	77.71
834		19900	0.0000	960.11	1,132.55	74.72
835		19902	0.0000	962.02	1,131.21	73.31
836		19908	0.0000	985.00	1,130.69	63.13
837		19934	0.0000	914.83	1,124.55	90.87
838		19948	0.0000	914.96	1,116.39	87.28
839		1996	0.0000	966.37	1,128.80	70.38
840		19962	0.0000	912.60	1,116.03	88.15
841		19972	0.0000	920.54	1,125.06	88.62

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
842		19976	0.0000	918.99	1,117.11	85.84
843		19990	0.0000	965.98	1,128.41	70.38
844		20004	0.0000	955.00	1,128.41	75.14
845		20006	0.0694	963.70	1,128.41	71.37
846		20014	0.0231	968.87	1,128.42	69.13
847		2002	0.0000	968.46	1,128.79	69.47
848		20020	0.0000	975.45	1,128.43	66.29
849		20028	0.0231	970.68	1,128.43	68.35
850		20030	0.0272	966.73	1,128.24	69.98
851		20034	0.0272	960.38	1,128.26	72.74
852		20038	0.0272	970.55	1,127.96	68.21
853		20050	0.0272	967.58	1,128.17	69.59
854		20052	0.0000	965.76	1,128.22	70.40
855		20060	0.0544	966.55	1,128.16	70.03
856		20076	0.0231	968.13	1,128.41	69.45
857		20086	0.0272	961.21	1,128.29	72.40
858		20090	0.0272	965.25	1,128.34	70.67
859		20104	0.0775	962.99	1,128.22	71.60
860		20118	0.0544	963.70	1,128.26	71.30
861		20156	0.0272	966.29	1,128.40	70.24
862		20158	0.0000	968.56	1,128.41	69.26
863		20176	0.0000	964.20	1,128.34	71.12
864		202	0.0000	964.94	1,127.97	70.64
865		20222	0.1470	967.86	1,128.14	69.45
866		20256	0.0272	970.88	1,127.97	68.07
867		20260	0.0272	971.91	1,128.00	67.63
868		20264	0.0272	971.45	1,127.95	67.81
869		20274	0.0503	969.82	1,127.97	68.53
870		20286	0.0544	973.17	1,127.94	67.06

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
871		20290	0.0000	969.56	1,128.33	68.79
872		20326	0.0000	969.15	1,128.38	68.99
873		20344	0.0000	963.30	1,128.41	71.54
874		20350	0.0000	959.79	1,128.41	73.06
875		20410	0.0000	973.04	1,128.55	67.38
876		20414	0.0272	967.62	1,128.51	69.71
877		20418	0.0000	955.20	1,128.43	75.06
878		20422	0.0000	948.88	1,128.43	77.80
879		20428	0.0000	948.66	1,128.43	77.89
880		20440	0.0000	949.20	1,128.43	77.66
881		20482	0.0000	944.20	1,128.45	79.84
882		2050	0.0000	975.00	1,128.81	66.65
883		20510	0.0000	948.41	1,128.43	78.00
884		20512	0.0000	944.85	1,128.43	79.54
885		20514	0.0000	946.24	1,128.43	78.94
886		20518	0.0000	987.61	1,128.65	61.12
887		20522	0.0272	989.48	1,128.63	60.29
888		20526	0.0000	988.47	1,128.61	60.72
889		20532	0.0000	987.87	1,128.60	60.98
890		20534	0.0000	987.10	1,128.48	61.26
891		20536	0.0000	987.36	1,128.48	61.15
892		20540	0.0000	986.97	1,128.48	61.32
893		20542	0.0000	985.38	1,128.49	62.01
894		20546	0.0000	986.13	1,128.46	61.67
895		20548	0.0000	986.23	1,128.46	61.63
896		20554	0.0272	985.82	1,128.46	61.80
897		20556	0.0000	984.72	1,128.46	62.28
898		20564	0.0272	985.34	1,128.46	62.01
899		20568	0.0000	986.38	1,128.49	61.58

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
900		20574	0.0503	995.00	1,128.65	57.91
901		20580	0.0000	991.89	1,128.94	59.38
902		20582	0.0272	990.03	1,128.92	60.18
903		20590	0.0000	993.19	1,129.07	58.88
904		20598	0.0000	994.52	1,129.84	58.63
905		20606	0.0000	995.62	1,130.07	58.26
906		20610	0.0000	991.36	1,129.13	59.70
907		20620	0.0000	990.10	1,128.63	60.03
908		20626	0.0000	988.69	1,128.61	60.63
909		20630	0.0000	986.71	1,128.60	61.48
910		20652	0.0000	987.51	1,128.57	61.12
911		20654	0.0231	986.61	1,128.50	61.48
912		20664	0.0272	991.06	1,128.94	59.74
913		20668	0.0272	988.49	1,128.92	60.84
914		20676	0.0272	992.45	1,129.07	59.20
915		20692	0.0272	992.34	1,129.79	59.56
916		20700	0.0000	993.58	1,130.18	59.19
917		20706	0.0231	985.00	1,129.27	62.51
918		20710	0.0272	985.00	1,129.71	62.70
919		2076	0.0000	985.23	1,130.03	62.74
920		20760	0.0272	995.00	1,129.71	58.37
921		20770	0.0272	992.53	1,129.91	59.53
922		20778	0.0000	985.00	1,129.91	62.79
923		20780	0.0000	993.46	1,129.91	59.12
924		20782	0.0000	991.68	1,129.65	59.78
925		20784	0.0000	991.85	1,129.65	59.71
926		20786	0.0272	989.54	1,129.12	60.48
927		20790	0.0272	989.69	1,129.13	60.42
928		20792	0.0272	991.58	1,129.44	59.74

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
929	20804	0.0000	994.31	1,130.74	59.12
930	20806	0.0000	993.40	1,130.56	59.43
931	20808	0.0000	993.33	1,130.55	59.46
932	20810	0.0000	992.72	1,130.09	59.52
933	20814	0.0000	992.88	1,130.09	59.45
934	20816	0.0272	992.23	1,129.93	59.67
935	20818	0.0272	985.00	1,129.92	62.79
936	20820	0.0272	990.15	1,129.71	60.47
937	20832	0.0272	986.62	1,128.69	61.56
938	20864	0.0272	985.47	1,129.38	62.36
939	20870	0.0735	995.00	1,129.25	58.17
940	20898	0.0272	995.00	1,128.79	57.97
941	20902	0.0503	987.99	1,128.96	61.08
942	20916	0.0272	985.00	1,128.95	62.37
943	20918	0.0000	988.10	1,128.79	60.96
944	20920	0.0272	987.52	1,128.78	61.21
945	20922	0.0272	987.11	1,128.68	61.35
946	20932	0.0503	988.59	1,129.53	61.07
947	20934	0.0000	987.66	1,129.38	61.40
948	20994	0.0272	984.49	1,128.52	62.41
949	20996	0.0272	984.43	1,129.06	62.67
950	20998	0.0503	985.27	1,129.13	62.33
951	21000	0.0272	985.66	1,128.56	61.92
952	21002	0.0272	986.13	1,128.55	61.71
953	21004	0.0000	985.20	1,128.52	62.10
954	21006	0.0272	985.18	1,128.55	62.12
955	21010	0.0272	985.50	1,129.15	62.24
956	21012	0.0000	983.13	1,128.99	63.20
957	21014	0.0272	986.42	1,129.14	61.84

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
958		21016	0.0272	975.00	1,129.06	66.75
959		21018	0.0272	975.00	1,128.98	66.72
960		21024	0.0735	976.27	1,128.69	66.04
961		21108	0.0272	981.67	1,128.33	63.55
962		21112	0.0272	983.82	1,128.35	62.63
963		21114	0.0000	983.41	1,128.41	62.83
964		21116	0.0272	982.74	1,128.38	63.11
965		21120	0.0000	984.45	1,128.41	62.38
966		21122	0.0000	983.29	1,128.33	62.84
967		21124	0.0000	982.05	1,128.33	63.38
968		21128	0.0272	978.68	1,128.13	64.76
969		21130	0.0272	981.14	1,128.25	63.74
970		21132	0.0272	982.56	1,128.24	63.12
971		21136	0.0000	975.00	1,128.79	66.64
972		21138	0.0000	981.31	1,128.90	63.95
973		21140	0.0272	980.04	1,128.84	64.47
974		21142	0.0272	978.81	1,128.79	64.99
975		21144	0.0272	978.69	1,128.79	65.04
976		21146	0.0000	980.05	1,128.84	64.47
977		21148	0.0000	981.40	1,128.90	63.91
978		21150	0.0000	975.00	1,128.95	66.71
979		21154	0.0000	985.00	1,128.15	62.03
980		21156	0.0000	981.04	1,128.15	63.74
981		21162	0.0272	978.68	1,128.08	64.74
982		21174	0.0000	981.55	1,128.14	63.52
983		21178	0.1631	975.00	1,127.96	66.28
984		21196	0.0272	985.00	1,128.75	62.29
985		21206	0.0272	985.00	1,128.72	62.27
986		21210	0.0272	976.33	1,128.70	66.02

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
987	21218	0.0000	985.00	1,128.68	62.26
988	21222	0.0000	974.86	1,128.69	66.66
989	21250	0.0000	981.99	1,128.14	63.33
990	21252	0.0272	980.48	1,128.14	63.98
991	21254	0.0000	981.40	1,127.96	63.50
992	21256	0.0272	979.91	1,128.09	64.21
993	21258	0.0000	985.00	1,128.08	62.00
994	21262	0.0000	985.00	1,128.75	62.29
995	21264	0.0272	978.17	1,128.76	65.25
996	21266	0.0272	977.25	1,128.72	65.63
997	21268	0.0000	976.75	1,128.76	65.86
998	21270	0.0000	975.09	1,128.72	66.57
999	21272	0.0926	975.90	1,128.58	66.15
1000	21274	0.0000	985.00	1,128.70	62.27
1001	21276	0.0000	975.47	1,128.69	66.39
1002	21278	0.0272	985.00	1,128.69	62.26
1003	21280	0.0000	973.45	1,128.70	67.27
1004	21282	0.0000	975.28	1,128.69	66.48
1005	21284	0.0000	974.78	1,128.62	66.66
1006	21286	0.0272	974.75	1,128.62	66.67
1007	21288	0.0503	975.57	1,128.61	66.31
1008	21290	0.0000	973.83	1,128.61	67.06
1009	21294	0.0272	978.26	1,128.17	64.96
1010	21298	0.0000	979.69	1,128.18	64.34
1011	21302	0.0000	977.76	1,128.18	65.18
1012	21308	0.0272	979.20	1,128.15	64.54
1013	21312	0.0272	978.43	1,128.18	64.89
1014	21318	0.0272	976.86	1,128.23	65.59
1015	21322	0.0272	978.77	1,128.23	64.76

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1016	21328	0.0272	977.77	1,128.23	65.19
1017	21336	0.0000	977.69	1,128.39	65.30
1018	21344	0.0503	985.00	1,128.39	62.13
1019	21348	0.0272	974.68	1,128.68	66.73
1020	21358	0.0231	975.40	1,128.68	66.42
1021	21364	0.0272	976.94	1,128.38	65.62
1022	21366	0.0000	985.00	1,128.39	62.13
1023	21368	0.0000	976.93	1,128.39	65.63
1024	21370	0.0000	980.07	1,128.18	64.18
1025	21372	0.0000	979.10	1,128.23	64.62
1026	21374	0.0000	977.21	1,128.18	65.42
1027	21376	0.0000	976.40	1,128.23	65.79
1028	21392	0.0000	974.45	1,128.68	66.83
1029	21406	0.0272	935.00	1,127.99	83.62
1030	21410	0.0000	947.14	1,128.06	78.39
1031	21414	0.0000	942.65	1,128.00	80.31
1032	21438	0.0694	945.61	1,128.01	79.03
1033	21444	0.0000	925.00	1,128.33	88.10
1034	21450	0.0000	945.49	1,128.01	79.09
1035	21454	0.0000	944.02	1,128.00	79.72
1036	21458	0.0000	945.00	1,128.00	79.29
1037	21468	0.0272	942.83	1,127.87	80.18
1038	21474	0.0000	935.00	1,127.94	83.60
1039	21494	0.0000	935.00	1,127.95	83.61
1040	21498	0.0000	945.00	1,127.84	79.22
1041	21500	0.0272	937.69	1,127.84	82.39
1042	21502	0.0544	939.91	1,127.83	81.43
1043	21508	0.0000	943.40	1,127.93	79.96
1044	21522	0.0272	946.50	1,128.00	78.64

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1045	21524	0.0000	943.16	1,128.00	80.09
1046	21546	0.0000	946.07	1,128.02	78.84
1047	21566	0.0272	942.53	1,127.99	80.36
1048	21590	0.0272	942.38	1,127.99	80.42
1049	21592	0.0463	939.03	1,128.00	81.88
1050	21618	0.0000	944.75	1,127.94	79.38
1051	21630	0.0000	917.98	1,128.62	91.27
1052	21636	0.0000	917.59	1,128.62	91.44
1053	2166	0.0000	970.17	1,128.86	68.76
1054	21662	0.0272	985.59	1,131.21	63.10
1055	21710	0.0272	985.23	1,131.28	63.28
1056	21726	0.0000	985.80	1,131.26	63.03
1057	21730	0.0272	984.96	1,131.26	63.39
1058	2174	0.0000	973.16	1,128.89	67.48
1059	21742	0.0503	986.93	1,131.19	62.51
1060	21746	0.0272	986.02	1,131.24	62.93
1061	21750	0.0272	984.57	1,131.19	63.53
1062	21758	0.0272	986.89	1,131.23	62.54
1063	21768	0.0272	989.84	1,131.08	61.20
1064	21770	0.0000	991.05	1,131.08	60.68
1065	21776	0.0000	995.00	1,131.23	59.03
1066	21784	0.0272	985.48	1,131.29	63.18
1067	21786	0.0503	984.74	1,131.31	63.51
1068	21794	0.0272	989.92	1,131.07	61.16
1069	21798	0.0272	989.07	1,131.07	61.53
1070	21814	0.0272	987.84	1,131.22	62.13
1071	21816	0.0000	995.00	1,132.11	59.41
1072	21824	0.0000	984.52	1,131.37	63.63
1073	21826	0.0000	995.00	1,131.23	59.03

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1074	21834	0.0000	988.06	1,132.26	62.48
1075	21872	0.0000	972.05	1,129.08	68.04
1076	21876	0.0000	972.81	1,129.09	67.71
1077	2188	0.0000	972.30	1,128.88	67.85
1078	21880	0.0000	974.16	1,129.12	67.15
1079	21884	0.0000	973.75	1,129.16	67.34
1080	21888	0.0000	975.05	1,129.18	66.78
1081	21892	0.0000	974.61	1,129.17	66.97
1082	21896	0.0272	973.17	1,129.16	67.59
1083	21900	0.0000	973.17	1,129.17	67.59
1084	21902	0.0000	972.40	1,129.23	67.96
1085	21906	0.0000	971.94	1,129.11	68.10
1086	21910	0.0000	968.49	1,129.03	69.56
1087	21918	0.0000	968.07	1,128.96	69.71
1088	21926	0.0000	969.35	1,129.00	69.18
1089	21930	0.0000	971.12	1,128.98	68.40
1090	21934	0.0000	971.54	1,128.98	68.22
1091	21938	0.0000	970.91	1,128.97	68.49
1092	21942	0.0000	969.29	1,128.98	69.19
1093	21944	0.0000	968.27	1,129.06	69.67
1094	21972	0.0272	965.05	1,128.80	70.95
1095	21988	0.0272	964.87	1,128.78	71.02
1096	21990	0.0000	964.90	1,128.79	71.02
1097	21996	0.0000	975.00	1,128.85	66.66
1098	22000	0.0000	964.09	1,128.81	71.37
1099	22002	0.0000	963.79	1,128.81	71.50
1100	22030	0.0000	974.93	1,129.21	66.85
1101	22052	0.0000	974.92	1,129.21	66.85
1102	2206	0.0000	973.06	1,129.01	67.58

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1103	22066	0.0000	973.93	1,129.14	67.25
1104	22068	0.0000	974.30	1,129.12	67.08
1105	22070	0.0000	973.84	1,129.15	67.30
1106	22074	0.0000	974.50	1,129.17	67.02
1107	22078	0.0000	974.63	1,129.17	66.96
1108	22082	0.0000	975.14	1,129.19	66.75
1109	22084	0.0000	974.93	1,129.21	66.85
1110	22086	0.0463	973.51	1,129.11	67.42
1111	22096	0.0000	971.91	1,129.13	68.12
1112	22098	0.0000	971.99	1,129.08	68.07
1113	22100	0.0000	973.19	1,129.10	67.56
1114	22102	0.0272	965.00	1,129.08	71.10
1115	22104	0.0272	970.63	1,129.00	68.62
1116	22106	0.0272	970.50	1,128.99	68.67
1117	22116	0.0000	969.34	1,129.00	69.18
1118	22118	0.0272	969.07	1,128.99	69.29
1119	22120	0.0000	970.02	1,128.98	68.88
1120	22126	0.0000	971.44	1,128.98	68.26
1121	22128	0.0000	972.02	1,128.98	68.01
1122	22132	0.0000	969.66	1,128.90	69.00
1123	22134	0.0000	968.96	1,128.93	69.32
1124	22138	0.0000	967.59	1,128.98	69.93
1125	22140	0.0000	967.48	1,128.98	69.98
1126	22150	0.0000	968.81	1,129.00	69.41
1127	22152	0.0272	945.00	1,128.47	79.50
1128	22156	0.1198	958.84	1,128.40	73.47
1129	2216	0.0000	978.12	1,129.03	65.39
1130	22170	0.0463	960.40	1,128.90	73.01
1131	22176	0.0000	959.19	1,128.63	73.42

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1132	22178	0.0272	960.49	1,128.65	72.87
1133	22186	0.0272	955.20	1,128.49	75.09
1134	22196	0.0272	956.48	1,128.59	74.58
1135	22204	0.0272	955.25	1,128.66	75.14
1136	2224	0.0000	978.30	1,129.03	65.31
1137	22244	0.0000	956.81	1,128.56	74.42
1138	22268	0.0272	961.03	1,128.60	72.61
1139	22274	0.0272	965.00	1,128.60	70.89
1140	22300	0.0272	965.00	1,128.48	70.84
1141	22312	0.0272	960.72	1,128.44	72.67
1142	22318	0.0272	959.98	1,128.48	73.01
1143	22326	0.0272	959.68	1,128.47	73.13
1144	22334	0.0272	962.01	1,128.60	72.18
1145	22338	0.0000	962.28	1,128.83	72.16
1146	2236	0.0000	975.00	1,129.03	66.74
1147	22364	0.0272	965.00	1,128.48	70.84
1148	22368	0.0272	959.87	1,128.45	73.04
1149	22404	0.1631	954.52	1,128.00	75.17
1150	2242	0.0000	978.93	1,129.03	65.04
1151	22458	0.0000	972.85	1,135.23	70.36
1152	22524	0.0000	962.39	1,130.36	72.78
1153	22526	0.0000	954.41	1,128.97	75.64
1154	22540	0.1157	972.08	1,135.06	70.62
1155	22550	0.0000	974.59	1,128.54	66.70
1156	22554	0.0000	973.01	1,128.54	67.39
1157	22558	0.0000	974.54	1,128.54	66.72
1158	22580	0.0000	985.28	1,133.76	64.34
1159	22592	0.0000	984.94	1,133.76	64.48
1160	22602	0.0000	1,025.00	1,037.06	5.23

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1161	22604	0.0000	1,034.00	1,036.97	1.29
1162	22606	0.0000	1,034.00	1,036.97	1.29
1163	22608	0.0000	986.71	1,139.02	65.99
1164	22612	0.0000	911.42	922.24	4.69
1165	22614	0.0000	957.00	969.48	5.41
1166	22616	0.0000	958.65	969.50	4.70
1167	22620	0.0000	985.50	996.50	4.77
1168	22622	0.0272	977.02	1,131.49	66.93
1169	22624	0.0000	976.94	1,131.49	66.96
1170	22628	0.0000	985.00	1,134.20	64.65
1171	22630	0.0000	976.28	984.27	3.46
1172	22632	0.0000	987.02	991.77	2.06
1173	22636	0.0000	992.50	1,003.49	4.76
1174	22638	0.0000	967.60	967.97	0.16
1175	22640	0.0000	965.00	1,128.38	70.79
1176	22646	0.0000	924.00	936.99	5.63
1177	22700	0.0000	1,002.11	1,131.82	56.20
1178	22704	0.0000	989.96	1,002.44	5.41
1179	22706	0.0000	992.93	1,132.37	60.42
1180	22708	0.0000	1,000.36	1,002.50	0.93
1181	22710	0.0000	985.00	1,144.15	68.96
1182	22714	0.0000	1,015.00	1,121.00	45.93
1183	22716	0.0000	1,006.88	1,131.69	54.08
1184	22720	0.0000	966.90	1,130.36	70.83
1185	22724	0.0000	972.26	1,128.67	67.77
1186	22726	0.0000	965.00	1,128.67	70.92
1187	22728	0.0000	973.51	1,128.67	67.23
1188	22730	0.0000	974.69	1,128.68	66.72
1189	22732	0.0000	974.65	1,128.70	66.75

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1190	22734	0.0000	966.93	1,128.55	70.03
1191	22736	0.0000	967.58	1,128.56	69.75
1192	22738	0.0000	964.14	1,128.55	71.24
1193	22740	0.0000	964.75	1,128.55	70.97
1194	22742	0.0000	970.89	1,128.63	68.35
1195	22744	0.0000	971.71	1,128.66	68.01
1196	22746	0.0000	970.79	1,128.65	68.40
1197	22748	0.0000	971.57	1,128.67	68.07
1198	22750	0.0000	969.04	1,128.57	69.13
1199	22752	0.0000	968.36	1,128.55	69.41
1200	22754	0.0000	966.83	1,128.54	70.07
1201	22756	0.0000	966.35	1,128.55	70.28
1202	22760	0.0000	967.20	1,128.55	69.91
1203	22762	0.0000	969.79	1,128.61	68.81
1204	22764	0.0000	970.96	1,128.61	68.31
1205	22766	0.0000	970.90	1,128.63	68.34
1206	22768	0.0000	975.00	1,128.61	66.56
1207	22770	0.0000	966.51	1,128.55	70.21
1208	22772	0.0000	975.00	1,128.60	66.56
1209	22774	0.0000	965.00	1,128.69	70.93
1210	22776	0.0000	965.00	1,128.70	70.93
1211	22778	0.0000	973.96	1,128.70	67.05
1212	22780	0.0000	973.56	1,128.70	67.22
1213	22782	0.0000	973.76	1,128.73	67.15
1214	22784	0.0000	973.59	1,128.71	67.21
1215	22786	0.0000	971.48	1,128.70	68.13
1216	22788	0.0000	972.21	1,128.76	67.83
1217	22790	0.0000	971.41	1,128.76	68.18
1218	22792	0.0000	970.88	1,128.80	68.43

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1219	22794	0.0000	968.64	1,128.58	69.31
1220	22796	0.0000	967.65	1,128.64	69.76
1221	22798	0.0000	970.02	1,128.78	68.79
1222	22800	0.0000	964.36	1,128.48	71.12
1223	22802	0.0000	967.24	1,128.53	69.89
1224	22804	0.0000	965.66	1,128.51	70.56
1225	22806	0.0000	989.51	1,127.98	60.00
1226	22808	0.0000	952.38	1,136.70	79.87
1227	22810	0.0000	966.86	1,128.46	70.02
1228	22850	0.0000	938.92	1,128.45	82.12
1229	2286	0.0000	980.63	1,128.89	64.24
1230	22860	0.0000	965.00	1,125.80	69.67
1231	22862	0.0000	964.22	1,125.84	70.03
1232	22864	0.0000	911.35	1,128.59	94.13
1233	22886	0.0000	1,015.00	1,131.69	50.56
1234	22890	0.0000	996.52	1,130.88	58.22
1235	2290	0.0926	982.88	1,128.85	63.25
1236	22900	0.0000	995.00	1,131.34	59.08
1237	22902	0.0000	1,000.89	1,138.21	59.50
1238	22904	0.0000	1,027.95	1,230.22	87.64
1239	22906	0.0000	949.64	1,128.10	77.33
1240	22908	0.0000	952.46	1,129.06	76.52
1241	22910	0.0000	953.02	1,129.12	76.31
1242	2304	0.0000	985.00	1,129.12	62.45
1243	2306	0.0000	976.20	1,129.16	66.28
1244	2312	0.0000	975.90	1,129.16	66.41
1245	2336	0.0000	976.25	1,129.16	66.25
1246	2338	0.0000	975.52	1,129.16	66.57
1247	2344	0.0000	985.00	1,129.70	62.70

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1248		2350	0.0000	980.34	1,129.70	64.72
1249		2352	0.0000	981.11	1,129.73	64.39
1250		23558	0.0000	915.00	1,122.91	90.09
1251		23564	0.0000	920.00	1,120.65	86.94
1252		23570	0.0000	926.22	1,124.76	86.03
1253		23584	0.0000	914.01	1,117.38	88.12
1254		23586	0.0000	965.00	1,125.81	69.68
1255		2374	0.0000	980.67	1,129.67	64.56
1256		23934	0.0000	935.00	1,128.45	83.82
1257		23936	0.0094	926.72	1,128.56	87.46
1258		23958	0.0000	925.00	1,128.35	88.11
1259		23960	0.0000	933.71	1,127.74	84.07
1260		23962	0.0000	933.68	1,127.74	84.09
1261		23968	0.0000	934.05	1,127.14	83.66
1262		23982	0.0000	958.46	1,126.38	72.76
1263		23984	0.0000	965.00	1,125.81	69.68
1264		240	0.0000	964.38	1,128.07	70.93
1265		2400	0.0000	982.29	1,129.80	63.92
1266		24002	0.0000	944.02	1,128.45	79.91
1267		24008	0.0000	984.45	1,085.49	43.78
1268		24010	0.1903	915.00	1,098.22	79.39
1269		24016	0.0000	910.00	1,111.42	87.27
1270		24018	0.0000	911.33	1,113.79	87.73
1271		24028	0.0000	1,038.72	1,064.19	11.04
1272		24030	0.0000	994.73	1,073.18	33.99
1273		24054	0.0000	1,043.54	1,230.22	80.89
1274		2406	0.0000	984.10	1,129.80	63.13
1275		24078	0.0000	1,002.61	1,002.50	-0.05
1276		2412	0.0000	975.00	1,129.80	67.07

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1277	24148	0.0000	965.00	1,125.81	69.68
1278	24150	0.0000	956.25	1,125.81	73.47
1279	24152	0.0000	965.00	1,125.81	69.68
1280	24162	0.0000	985.00	1,141.22	67.69
1281	24166	0.0000	995.00	1,132.03	59.38
1282	24176	0.0000	1,025.00	1,230.23	88.93
1283	24226	0.0272	1,042.72	1,230.23	81.25
1284	24228	0.0000	1,046.29	1,230.23	79.70
1285	24230	0.0272	1,046.29	1,144.23	42.44
1286	24232	0.0000	1,002.61	1,002.50	-0.05
1287	2446	0.0000	983.14	1,129.76	63.53
1288	2452	0.0000	975.00	1,129.63	67.00
1289	246	0.0000	965.18	1,128.06	70.57
1290	248	0.0000	965.45	1,128.06	70.45
1291	2486	0.0000	985.83	1,130.08	62.50
1292	2518	0.0000	985.49	1,130.09	62.66
1293	252	0.0000	963.90	1,128.03	71.12
1294	2552	0.0000	987.74	1,130.16	61.71
1295	2562	0.0000	988.21	1,130.13	61.49
1296	2572	0.0000	990.76	1,130.24	60.44
1297	2578	0.0000	989.85	1,130.30	60.86
1298	2598	0.0000	995.00	1,130.24	58.60
1299	2612	0.0000	985.31	1,130.09	62.73
1300	2616	0.0000	983.26	1,129.95	63.56
1301	2618	0.0000	982.18	1,129.86	63.99
1302	2642	0.0000	985.00	1,129.46	62.59
1303	2654	0.0000	980.43	1,129.46	64.57
1304	2668	0.0000	985.00	1,129.43	62.58
1305	2682	0.0000	974.99	1,129.17	66.81

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1306	2688	0.0000	972.89	1,129.02	67.65
1307	2692	0.0000	971.54	1,128.93	68.20
1308	2696	0.0000	968.59	1,128.77	69.40
1309	2708	0.0000	975.00	1,128.64	66.57
1310	2716	0.0000	963.22	1,128.53	71.63
1311	272	0.2546	961.32	1,127.55	72.03
1312	2720	0.0000	935.24	1,127.54	83.32
1313	2722	0.1389	934.49	1,127.19	83.50
1314	2740	0.0000	987.42	1,131.10	62.26
1315	2742	0.0000	1,050.42	1,144.23	40.65
1316	2746	0.0000	1,050.14	1,144.23	40.77
1317	2776	0.0000	1,044.85	1,144.23	43.06
1318	2782	0.0000	995.00	1,131.00	58.93
1319	28	0.0000	970.69	1,133.64	70.61
1320	2802	0.0000	995.00	1,131.00	58.93
1321	2812	0.0000	1,000.61	1,131.00	56.50
1322	2818	0.0000	1,000.19	1,131.00	56.68
1323	2830	0.0000	983.52	1,131.26	64.01
1324	2842	0.0000	982.73	1,131.29	64.37
1325	2874	0.0000	983.14	1,131.27	64.18
1326	2880	0.0000	983.42	1,131.27	64.07
1327	2890	0.0000	983.54	1,131.27	64.01
1328	2894	0.0000	983.55	1,131.26	64.00
1329	2896	0.0000	983.97	1,131.26	63.82
1330	2914	0.0000	981.95	1,131.32	64.72
1331	2920	0.0000	982.22	1,131.26	64.58
1332	294	0.0000	965.00	1,127.77	70.53
1333	2954	0.0000	976.70	1,130.84	66.79
1334	2956	0.0000	976.75	1,130.84	66.77

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1335	2960	0.0000	976.84	1,130.84	66.73
1336	2970	0.0000	978.43	1,130.84	66.04
1337	298	0.0000	957.07	1,127.77	73.97
1338	2990	0.0000	985.00	1,130.85	63.20
1339	3006	0.0000	978.67	1,130.85	65.94
1340	3014	0.0000	982.84	1,131.16	64.27
1341	3018	0.0000	982.96	1,131.13	64.21
1342	302	0.0000	961.00	1,127.94	72.34
1343	3020	0.0000	984.34	1,131.12	63.60
1344	3022	0.0000	983.61	1,131.12	63.92
1345	3032	0.0000	983.41	1,131.14	64.01
1346	3036	0.0000	983.79	1,131.14	63.85
1347	304	0.0000	960.19	1,127.94	72.69
1348	3042	0.0000	983.33	1,131.14	64.05
1349	3046	0.0000	983.68	1,131.14	63.90
1350	3054	0.0272	984.02	1,131.14	63.75
1351	306	0.0000	963.76	1,128.08	71.20
1352	3076	0.0000	975.00	1,131.15	67.66
1353	3078	0.0272	983.91	1,131.15	63.80
1354	3120	0.0000	985.00	1,131.10	63.31
1355	3122	0.0000	985.00	1,131.10	63.31
1356	3130	0.0000	985.00	1,131.10	63.31
1357	3142	0.0000	985.00	1,131.10	63.31
1358	3164	0.0000	985.00	1,131.10	63.31
1359	3192	0.0000	995.00	1,133.63	60.07
1360	3194	0.0000	995.00	1,133.71	60.10
1361	3200	0.0000	995.00	1,133.63	60.07
1362	3204	0.0000	991.89	1,133.35	61.30
1363	3222	0.0000	975.00	1,126.99	65.86

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1364	3238	0.0000	988.12	1,131.10	61.95
1365	3262	0.0000	1,000.22	1,002.50	0.99
1366	3274	0.0966	938.77	1,127.41	81.74
1367	3290	0.0000	992.48	1,130.64	59.87
1368	3308	0.0000	993.99	1,130.79	59.27
1369	3316	0.0000	993.87	1,130.79	59.33
1370	3326	0.0000	995.12	1,130.79	58.79
1371	3340	0.0000	995.21	1,130.78	58.74
1372	3344	0.0000	985.00	1,130.79	63.17
1373	3346	0.0000	994.77	1,130.78	58.93
1374	3362	0.0000	978.38	1,128.99	65.26
1375	3364	0.0000	979.05	1,129.02	64.98
1376	3368	0.0000	977.99	1,128.99	65.43
1377	338	0.0272	957.29	1,128.43	74.15
1378	3380	0.0000	987.65	1,131.96	62.53
1379	340	0.0000	956.62	1,128.51	74.48
1380	3482	0.0000	979.47	1,129.05	64.81
1381	3502	0.0000	979.22	1,128.92	64.86
1382	3506	0.0000	978.68	1,128.92	65.10
1383	3508	0.0000	980.92	1,128.86	64.10
1384	3516	0.3240	978.78	1,128.86	65.03
1385	3566	0.0000	919.11	1,117.11	85.79
1386	3628	0.0272	986.33	1,143.80	68.23
1387	3634	0.0231	983.80	1,131.95	64.20
1388	3636	0.0000	983.80	1,131.95	64.20
1389	3646	0.0000	1,005.00	1,131.01	54.60
1390	3664	0.0272	935.00	1,089.61	66.99
1391	3680	0.0000	945.00	1,089.92	62.80
1392	374	0.0000	990.18	1,133.54	62.12

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1393	3760	0.0503	1,025.00	1,144.60	51.82
1394	3782	0.0272	1,022.05	1,144.85	53.21
1395	3784	0.0272	1,000.92	1,140.92	60.66
1396	38	0.0000	985.00	1,130.79	63.17
1397	3816	0.0000	1,007.16	1,138.37	56.85
1398	382	0.0000	990.12	1,133.55	62.15
1399	3830	0.0000	1,002.62	1,138.14	58.72
1400	3834	0.0000	1,008.28	1,138.14	56.27
1401	3838	0.0000	985.10	1,138.21	66.34
1402	3842	0.0000	1,001.72	1,138.29	59.17
1403	3854	0.0544	945.86	1,089.61	62.29
1404	3856	0.0272	948.08	1,089.44	61.25
1405	3870	0.0775	945.56	1,137.27	83.07
1406	3886	0.0000	980.94	1,138.24	68.16
1407	3896	0.0272	976.65	1,139.06	70.37
1408	3916	0.0000	995.00	1,144.70	64.87
1409	3926	0.0544	945.00	1,089.60	62.66
1410	3944	0.0544	987.28	1,139.96	66.16
1411	4006	0.0272	1,032.40	1,143.52	48.15
1412	402	0.0000	995.00	1,133.59	60.05
1413	4036	0.0000	950.00	1,090.07	60.69
1414	4056	0.0272	972.83	1,138.99	72.00
1415	406	0.0000	995.00	1,133.59	60.05
1416	4076	0.0272	1,002.84	1,144.53	61.40
1417	410	0.0000	995.00	1,133.47	60.00
1418	4116	0.0000	944.79	1,089.92	62.89
1419	412	0.0000	995.00	1,133.54	60.03
1420	4138	0.0000	937.81	1,089.95	65.92
1421	4142	0.0000	1,027.42	1,143.75	50.41

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1422	4182	0.0000	1,026.33	1,144.17	51.06
1423	42	0.0000	987.49	1,131.10	62.23
1424	4212	0.0272	1,025.00	1,144.15	51.63
1425	4218	0.0272	1,033.64	1,144.15	47.88
1426	422	0.0000	987.43	1,133.54	63.31
1427	4258	0.0000	1,023.29	1,144.17	52.38
1428	4262	0.0000	985.59	1,143.80	68.55
1429	4264	0.0000	985.42	1,143.80	68.63
1430	4268	0.0000	994.91	1,143.80	64.51
1431	4274	0.0000	986.88	1,144.46	68.28
1432	4278	0.0000	1,002.25	1,144.68	61.71
1433	4284	0.0000	981.17	1,144.47	70.76
1434	4288	0.0272	980.74	1,144.47	70.94
1435	4294	0.0000	984.48	1,143.66	68.97
1436	4298	0.0272	985.00	1,143.41	68.64
1437	430	0.0000	989.83	1,133.52	62.26
1438	4306	0.0272	964.84	1,138.19	75.11
1439	4316	0.0000	946.83	1,138.30	82.96
1440	4326	0.0000	945.00	1,138.16	83.70
1441	4342	0.0272	945.00	1,138.16	83.70
1442	4368	0.0272	1,002.91	1,144.50	61.35
1443	4372	0.0000	995.00	1,144.44	64.75
1444	4376	0.0000	991.88	1,144.44	66.10
1445	4424	0.0272	1,005.00	1,144.16	60.30
1446	4438	0.0272	1,009.42	1,144.09	58.35
1447	4448	0.0272	1,028.28	1,143.55	49.95
1448	4466	0.0272	1,023.77	1,144.98	52.52
1449	4480	0.0503	1,015.00	1,144.98	56.32
1450	4494	0.0272	1,027.82	1,144.79	50.69

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1451	4496	0.0000	1,032.13	1,144.79	48.82
1452	450	0.0000	995.00	1,133.55	60.03
1453	4502	0.0272	1,026.30	1,145.11	51.48
1454	4546	0.0272	985.37	1,139.52	66.79
1455	4570	0.0000	980.58	1,139.10	68.69
1456	4576	0.0272	973.57	1,139.10	71.73
1457	4632	0.0544	983.42	1,140.87	68.22
1458	4646	0.0000	1,002.64	1,138.43	58.84
1459	4664	0.0000	1,004.60	1,138.86	58.17
1460	4692	0.0272	1,021.12	1,144.09	53.28
1461	4694	0.0544	1,024.49	1,144.08	51.82
1462	472	0.0000	998.50	1,131.18	57.49
1463	474	0.0000	998.18	1,131.18	57.63
1464	4774	0.0000	986.60	1,138.05	65.62
1465	4778	0.0000	990.08	1,138.05	64.11
1466	4798	0.0000	984.62	1,138.09	66.50
1467	4814	0.0272	945.00	1,089.50	62.61
1468	4844	0.0272	944.27	1,089.55	62.95
1469	4882	0.0272	980.70	1,139.14	68.65
1470	4902	0.0000	968.65	1,138.27	73.50
1471	4910	0.0000	974.39	1,138.27	71.01
1472	4930	0.0000	980.75	1,139.04	68.59
1473	4998	0.0272	1,008.48	1,144.94	59.13
1474	5016	0.0272	952.74	1,089.61	59.31
1475	5028	0.0000	991.42	1,144.46	66.31
1476	5042	0.0000	1,004.03	1,144.82	61.00
1477	5056	0.1359	994.72	1,143.01	64.26
1478	5070	0.0272	999.78	1,144.49	62.71
1479	5074	0.0000	1,000.66	1,144.51	62.33

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1480	5078	0.0272	1,000.24	1,144.53	62.52
1481	510	0.0000	997.16	1,131.10	58.04
1482	5104	0.0272	924.93	1,089.75	71.42
1483	5128	0.0272	1,010.00	1,145.13	58.55
1484	5158	0.0000	932.83	1,089.69	67.97
1485	5202	0.0000	965.00	1,129.06	71.09
1486	5210	0.0000	954.73	1,129.06	75.54
1487	5224	0.0000	959.26	1,126.93	72.66
1488	5228	0.0000	959.93	1,126.93	72.36
1489	5232	0.0000	954.91	1,126.02	74.14
1490	5250	0.0000	1,005.00	1,127.98	53.29
1491	5252	0.0000	985.00	1,127.98	61.95
1492	5254	0.0000	995.06	1,127.98	57.60
1493	5258	0.0000	995.51	1,127.98	57.40
1494	5270	0.0000	990.42	1,230.21	103.90
1495	5278	0.0000	1,005.34	1,144.12	60.13
1496	5282	0.0000	1,001.89	1,144.12	61.63
1497	5328	0.0000	955.00	1,128.42	75.14
1498	5330	0.0000	964.30	1,128.41	71.11
1499	5360	0.0000	965.68	1,128.43	70.52
1500	5362	0.0000	964.37	1,128.43	71.09
1501	538	0.0000	997.71	1,131.21	57.85
1502	5386	0.0000	963.68	1,128.43	71.39
1503	5402	0.0000	963.83	1,128.44	71.32
1504	5416	0.0000	1,009.00	1,144.12	58.55
1505	5434	0.0000	985.00	1,144.12	68.95
1506	5442	0.0000	989.69	1,144.12	66.92
1507	5448	0.0000	992.70	1,144.12	65.61
1508	5474	0.0000	985.00	1,144.12	68.95

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1509	5480	0.0000	983.98	1,144.12	69.39
1510	550	0.0272	986.07	1,129.30	62.06
1511	5576	0.0000	1,004.06	1,144.12	60.69
1512	5594	0.0000	1,004.43	1,144.12	60.53
1513	5614	0.0000	1,004.59	1,144.12	60.46
1514	5620	0.0000	1,004.99	1,144.12	60.29
1515	5622	0.0000	1,003.17	1,144.12	61.08
1516	5640	0.0000	1,016.39	1,144.12	55.35
1517	5642	0.0000	1,005.00	1,144.12	60.28
1518	5660	0.0000	1,006.35	1,144.12	59.70
1519	5666	0.0000	1,003.91	1,144.12	60.75
1520	5684	0.0000	1,026.14	1,144.12	51.12
1521	5722	0.0000	915.00	1,117.11	87.58
1522	5732	0.0000	919.26	1,117.11	85.73
1523	5734	0.0000	994.48	1,144.12	64.84
1524	5736	0.0000	981.04	1,144.12	70.66
1525	574	0.0000	982.74	1,129.30	63.50
1526	5750	0.0000	995.34	1,144.12	64.47
1527	5786	0.0272	953.93	1,128.26	75.54
1528	58	0.0000	989.50	1,144.12	66.99
1529	580	0.0000	1,006.73	1,144.12	59.53
1530	5824	0.0000	955.20	1,128.27	74.99
1531	5826	0.0000	955.30	1,128.27	74.95
1532	5828	0.0000	955.87	1,128.27	74.70
1533	5838	0.0000	998.23	1,131.01	57.53
1534	5846	0.0000	997.84	1,131.01	57.70
1535	5848	0.0000	1,005.00	1,131.01	54.60
1536	5858	0.0000	1,056.83	1,144.23	37.87
1537	5876	0.0000	1,052.69	1,144.23	39.66

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1538	5880	0.0000	1,044.12	1,144.23	43.38
1539	5882	0.0000	1,058.69	1,144.23	37.06
1540	5888	0.0000	1,054.17	1,144.23	39.02
1541	5908	0.0000	1,045.00	1,144.23	42.99
1542	5920	0.0000	965.00	1,130.72	71.81
1543	5922	0.0000	961.54	1,131.02	73.44
1544	5926	0.0463	977.36	1,131.45	66.77
1545	5938	0.0000	951.79	1,128.54	76.59
1546	5962	0.0000	963.61	1,128.53	71.46
1547	5964	0.0000	963.53	1,128.53	71.50
1548	598	0.0000	1,005.97	1,144.12	59.86
1549	5980	0.0000	964.83	1,089.90	54.19
1550	6004	0.0000	947.34	1,128.43	78.47
1551	6026	0.0000	945.87	1,130.55	80.02
1552	6028	0.0000	965.00	1,130.55	71.73
1553	6030	0.0000	946.09	1,130.55	79.93
1554	6032	0.0000	946.37	1,130.55	79.80
1555	6046	0.0000	1,007.19	1,230.22	96.64
1556	6052	0.0000	1,027.17	1,230.22	87.98
1557	6072	0.0000	975.10	1,143.43	72.94
1558	6100	0.0000	1,037.88	1,144.23	46.08
1559	6112	0.0000	1,002.99	1,144.12	61.15
1560	6116	0.0000	1,041.53	1,144.23	44.50
1561	612	0.0000	997.12	1,144.12	63.70
1562	6120	0.0000	917.77	1,127.77	91.00
1563	6124	0.0000	917.39	1,127.80	91.17
1564	6130	0.0463	916.00	1,129.33	92.44
1565	6138	0.0000	914.45	1,128.96	92.95
1566	6140	0.0000	915.96	1,128.62	92.14

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1567	6142	0.0231	915.71	1,128.62	92.25
1568	6154	0.0000	985.99	1,131.97	63.25
1569	6176	0.0926	995.00	1,131.45	59.12
1570	6222	0.0000	940.63	1,125.51	80.11
1571	6236	0.0000	1,003.38	1,144.12	60.98
1572	6238	0.0000	1,004.01	1,144.12	60.71
1573	6284	0.0000	985.11	1,144.45	69.04
1574	6286	0.0000	984.26	1,128.92	62.68
1575	6292	0.0000	983.82	1,128.92	62.87
1576	6308	0.0000	984.51	1,128.92	62.57
1577	6322	0.0000	981.95	1,128.93	63.68
1578	6338	0.0000	983.42	1,128.93	63.05
1579	634	0.0000	992.07	1,144.12	65.88
1580	6348	0.0000	982.30	1,128.95	63.54
1581	6350	0.0000	981.90	1,128.93	63.71
1582	6362	0.0000	948.65	1,128.22	77.81
1583	6388	0.0272	952.09	1,128.23	76.32
1584	6390	0.0000	954.30	1,128.23	75.36
1585	6392	0.0000	954.84	1,128.32	75.17
1586	6394	0.0000	950.29	1,128.21	77.09
1587	64	0.0000	995.00	1,133.56	60.04
1588	6400	0.0272	952.38	1,128.21	76.19
1589	6406	0.0000	950.08	1,128.21	77.18
1590	6408	0.0272	952.57	1,128.20	76.10
1591	6414	0.0272	945.00	1,128.21	79.39
1592	6420	0.0000	956.03	1,128.34	74.66
1593	6436	0.0000	954.97	1,128.32	75.11
1594	6456	0.0000	960.75	1,128.45	72.67
1595	6460	0.0000	985.00	1,129.61	62.66

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1596	6474	0.0000	973.91	1,135.37	69.96
1597	6488	0.0000	970.64	1,131.47	69.69
1598	6494	0.0000	971.89	1,131.46	69.14
1599	650	0.0000	998.17	1,144.12	63.24
1600	6518	0.0000	995.00	1,130.94	58.90
1601	6538	0.0000	1,021.23	1,144.08	53.23
1602	6556	0.0000	1,015.00	1,144.07	55.93
1603	6568	0.0000	1,018.41	1,144.05	54.44
1604	6570	0.0000	1,018.53	1,144.04	54.38
1605	6572	0.0000	1,018.13	1,144.12	54.59
1606	6574	0.1852	1,022.43	1,144.12	52.73
1607	6596	0.0000	1,046.01	1,144.23	42.56
1608	66	0.0272	971.93	1,127.95	67.60
1609	6600	0.0000	1,045.76	1,144.23	42.66
1610	6604	0.0000	1,046.25	1,144.23	42.45
1611	6608	0.0000	1,046.06	1,144.23	42.53
1612	6642	0.0000	1,046.16	1,144.23	42.49
1613	6652	0.0000	1,047.79	1,144.23	41.79
1614	6654	0.0000	1,046.98	1,144.23	42.14
1615	6658	0.0000	1,045.85	1,144.23	42.63
1616	6670	0.0000	1,042.72	1,144.23	43.98
1617	6682	0.0000	1,042.32	1,144.23	44.16
1618	6686	0.0000	954.64	1,128.89	75.50
1619	6692	0.0000	986.72	1,131.95	62.93
1620	6698	0.0231	984.06	1,131.95	64.08
1621	6704	0.0000	1,025.40	1,144.18	51.47
1622	6720	0.0000	988.11	1,132.44	62.54
1623	6728	0.0000	977.43	1,131.52	66.77
1624	6730	0.0000	995.00	1,131.39	59.10

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1625	6740	0.0000	982.39	1,130.98	64.39
1626	6742	0.0272	995.00	1,130.98	58.92
1627	6746	0.0000	955.00	1,128.45	75.16
1628	6748	0.0272	954.46	1,128.38	75.36
1629	676	0.0000	999.31	1,144.12	62.74
1630	6762	0.0000	988.63	1,132.16	62.19
1631	678	0.0000	1,003.59	1,144.12	60.89
1632	6784	0.0000	981.66	1,143.76	70.24
1633	6824	0.0926	981.76	1,143.69	70.16
1634	6846	0.0272	928.20	1,089.62	69.94
1635	6850	0.0272	927.83	1,089.50	70.05
1636	6854	0.0000	969.45	1,131.80	70.35
1637	6858	0.0000	968.86	1,131.80	70.60
1638	6862	0.0000	987.78	1,131.44	62.25
1639	6886	0.0000	995.00	1,132.04	59.38
1640	6914	0.0000	995.00	1,132.15	59.43
1641	6920	0.0000	995.00	1,132.15	59.43
1642	6924	0.0000	983.40	1,132.18	64.47
1643	6930	0.0000	984.67	1,132.19	63.92
1644	6956	0.0272	988.04	1,131.80	62.29
1645	698	0.0000	946.06	1,090.05	62.39
1646	6980	0.0000	955.00	1,128.48	75.17
1647	70	0.0272	971.25	1,127.96	67.90
1648	7032	0.0000	966.10	1,128.48	70.36
1649	7048	0.0000	955.00	1,128.45	75.16
1650	7056	0.0000	960.84	1,128.45	72.63
1651	7070	0.0000	955.96	1,128.45	74.74
1652	7074	0.0000	955.00	1,129.71	75.70
1653	708	0.0000	947.05	1,090.05	61.96

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1654	7090	0.0000	916.33	1,129.17	92.23
1655	7092	0.0000	917.42	1,129.29	91.80
1656	7102	0.0000	915.75	1,129.15	92.46
1657	7134	0.3009	913.85	1,128.43	92.98
1658	7136	0.0000	913.91	1,128.56	93.01
1659	7138	0.0000	913.95	1,128.56	92.99
1660	7140	0.0000	1,001.57	1,144.46	61.92
1661	7148	0.0000	1,007.52	1,144.46	59.34
1662	7152	0.0000	979.16	1,143.44	71.18
1663	7154	0.0000	979.26	1,143.45	71.14
1664	7156	0.0000	1,028.01	1,230.23	87.62
1665	7158	0.0000	1,025.41	1,230.23	88.75
1666	7164	0.0000	1,033.18	1,153.96	52.33
1667	7166	0.0000	1,025.82	1,153.96	55.52
1668	7180	0.0000	1,005.94	1,144.21	59.91
1669	7198	0.0231	1,005.00	1,144.21	60.32
1670	7204	0.0000	1,005.46	1,144.22	60.12
1671	7206	0.0000	982.55	1,144.45	70.15
1672	7220	0.0000	986.16	1,144.49	68.61
1673	7224	0.0000	965.00	1,130.55	71.73
1674	7232	0.0000	945.00	1,130.55	80.40
1675	7234	0.0000	945.00	1,130.55	80.40
1676	7238	0.0000	965.00	1,130.55	71.73
1677	7258	0.0000	917.72	1,127.77	91.02
1678	7260	0.0000	919.88	1,127.76	90.08
1679	7292	0.0000	921.54	1,127.76	89.36
1680	7322	0.0000	995.00	1,132.13	59.42
1681	7324	0.0000	995.00	1,132.08	59.40
1682	7366	0.0000	995.00	1,132.16	59.43

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1683		7370	0.0000	995.00	1,132.16	59.43
1684		7372	0.0000	995.00	1,132.16	59.43
1685		7380	0.0000	970.25	1,133.66	70.81
1686		7382	0.0000	970.23	1,133.66	70.81
1687		7384	0.0000	971.73	1,133.66	70.17
1688		7386	0.0000	970.09	1,133.66	70.88
1689		7410	0.0000	995.00	1,131.97	59.35
1690		7412	0.0231	995.00	1,131.97	59.35
1691		7424	0.0000	995.00	1,131.98	59.35
1692		7426	0.0463	995.00	1,131.98	59.35
1693		7442	0.0231	975.42	1,131.59	67.67
1694		7462	0.0000	985.00	1,131.62	63.53
1695		7466	0.0000	985.00	1,131.63	63.53
1696		7470	0.0000	975.00	1,131.10	67.64
1697		7480	0.0272	998.56	1,130.30	57.08
1698		7496	0.0463	999.78	1,130.36	56.58
1699		7524	0.0000	1,006.53	1,131.00	53.93
1700		7528	0.0000	1,006.71	1,131.00	53.86
1701		7538	0.0231	1,004.45	1,131.00	54.84
1702		7552	0.0000	1,004.80	1,131.00	54.68
1703		756	0.0000	970.00	1,144.12	75.45
1704		7568	0.0000	1,007.35	1,130.97	53.57
1705		7576	0.0000	1,006.23	1,130.96	54.05
1706		7588	0.0000	1,006.82	1,130.93	53.78
1707		7594	0.0000	1,008.05	1,130.92	53.24
1708		7598	0.0000	1,007.49	1,130.93	53.48
1709		76	0.0000	993.09	1,131.03	59.77
1710		7600	0.0000	1,008.54	1,130.92	53.03
1711		7614	0.0231	1,007.19	1,130.92	53.61

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1712	7616	0.0000	1,015.00	1,131.00	50.26
1713	7650	0.0000	998.82	1,130.29	56.97
1714	7666	0.2315	1,001.29	1,130.23	55.87
1715	7698	0.0000	1,015.00	1,130.93	50.23
1716	7738	0.0000	985.64	1,131.90	63.38
1717	7740	0.0000	984.07	1,131.94	64.08
1718	7742	0.0000	984.16	1,131.95	64.04
1719	7746	0.0000	984.05	1,131.95	64.09
1720	7748	0.0000	984.25	1,131.91	63.98
1721	7752	0.0000	985.71	1,131.94	63.36
1722	7754	0.0463	984.65	1,131.97	63.83
1723	7768	0.0000	1,015.00	1,131.00	50.26
1724	7796	0.0000	984.60	1,131.91	63.83
1725	7804	0.0000	985.72	1,131.93	63.35
1726	7812	0.0000	985.20	1,131.96	63.59
1727	7822	0.0000	991.45	1,137.28	63.19
1728	7830	0.0000	988.31	1,137.28	64.55
1729	7832	0.0000	985.00	1,137.28	65.98
1730	7838	0.0000	990.15	1,137.28	63.75
1731	7858	0.0000	985.00	1,137.28	65.98
1732	7860	0.0000	985.00	1,137.28	65.98
1733	7862	0.0000	993.02	1,137.28	62.51
1734	7864	0.0000	992.58	1,137.28	62.70
1735	7870	0.0000	994.53	1,137.28	61.85
1736	788	0.0000	999.47	1,144.12	62.67
1737	7908	0.0231	993.38	1,130.97	59.62
1738	7918	0.0000	994.22	1,130.97	59.26
1739	7966	0.0000	985.00	1,130.99	63.26
1740	7970	0.0000	985.00	1,130.99	63.26

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1741	7988	0.0463	994.84	1,130.97	58.98
1742	7990	0.0000	985.00	1,130.98	63.25
1743	8016	0.0463	994.12	1,131.01	59.31
1744	8022	0.0000	995.00	1,131.69	59.23
1745	8038	0.0000	995.00	1,131.69	59.23
1746	8064	0.0000	985.91	1,131.74	63.19
1747	8072	0.0231	985.38	1,131.74	63.42
1748	8082	0.0000	984.72	1,131.77	63.72
1749	8084	0.0000	985.10	1,131.83	63.58
1750	8098	0.0000	975.00	1,131.68	67.89
1751	8102	0.0000	988.25	1,131.44	62.04
1752	8104	0.0000	995.00	1,131.44	59.12
1753	8110	0.0463	988.44	1,131.10	61.81
1754	8114	0.0000	991.07	1,134.12	61.98
1755	8122	0.0000	995.00	1,134.12	60.28
1756	8132	0.0000	989.80	1,134.12	62.53
1757	8136	0.0000	989.99	1,134.12	62.45
1758	8150	0.0000	995.00	1,134.12	60.28
1759	8158	0.0000	995.00	1,134.12	60.28
1760	8162	0.0000	984.40	1,130.79	63.43
1761	8166	0.0231	984.51	1,130.72	63.35
1762	8184	0.0000	965.00	1,130.55	71.73
1763	8212	0.0000	983.18	1,130.79	63.96
1764	8218	0.0000	982.73	1,130.79	64.16
1765	8232	0.0000	945.11	1,125.28	78.07
1766	8240	0.0000	985.00	1,130.65	63.11
1767	8268	0.0000	1,005.00	1,140.54	58.73
1768	8272	0.0272	985.88	1,129.74	62.33
1769	8274	0.0000	1,003.42	1,130.94	55.25

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1770	828	0.0000	1,015.37	1,144.12	55.79
1771	8282	0.0272	1,009.44	1,130.83	52.60
1772	8284	0.0000	985.00	1,133.83	64.49
1773	8286	0.0000	985.00	1,133.90	64.52
1774	8288	0.0000	965.00	1,125.79	69.67
1775	8290	0.0000	965.00	1,125.79	69.67
1776	8292	0.0000	909.32	1,101.67	83.34
1777	8296	0.0000	975.00	1,131.26	67.71
1778	8298	0.0000	983.88	1,130.79	63.66
1779	830	0.0000	1,018.58	1,144.12	54.40
1780	8312	0.0000	983.73	1,130.79	63.72
1781	8314	0.0000	936.37	1,101.67	71.62
1782	8350	0.0000	931.24	1,089.70	68.66
1783	8354	0.0000	929.75	1,089.69	69.30
1784	836	0.0000	1,016.75	1,144.12	55.19
1785	8362	0.0000	934.93	1,089.70	67.06
1786	8398	0.0000	987.35	1,131.95	62.65
1787	8402	0.0000	982.58	1,131.95	64.72
1788	8428	0.0000	989.10	1,131.95	61.90
1789	8432	0.0000	989.11	1,131.95	61.89
1790	8452	0.0000	975.00	1,131.95	68.01
1791	8472	0.0000	905.00	1,128.56	96.87
1792	8478	0.0000	915.14	1,128.56	92.48
1793	8488	0.0000	910.95	1,128.56	94.29
1794	8500	0.0000	912.02	1,128.56	93.83
1795	8516	0.0000	908.27	1,128.56	95.45
1796	8518	0.0000	908.58	1,128.56	95.32
1797	8524	0.0000	909.27	1,128.56	95.02
1798	8526	0.0000	909.59	1,128.56	94.88

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1799	8528	0.0000	909.54	1,128.56	94.90
1800	8530	0.0000	909.96	1,128.56	94.72
1801	8536	0.0000	910.08	1,128.56	94.67
1802	8538	0.0000	905.00	1,128.56	96.87
1803	8546	0.0000	910.58	1,128.56	94.45
1804	8552	0.0000	913.13	1,128.56	93.35
1805	8556	0.0000	913.23	1,128.56	93.30
1806	8558	0.0000	913.13	1,128.56	93.35
1807	8564	0.0000	913.87	1,128.56	93.02
1808	8588	0.0000	965.00	1,131.58	72.18
1809	8606	0.0000	985.00	1,130.65	63.11
1810	8608	0.0000	985.00	1,130.65	63.11
1811	8612	0.0000	976.15	1,130.65	66.94
1812	8616	0.0000	976.79	1,130.65	66.67
1813	8632	0.0231	987.48	1,131.94	62.60
1814	8666	0.0000	987.66	1,132.00	62.54
1815	8672	0.0000	964.19	1,129.59	71.67
1816	868	0.0000	1,028.14	1,144.12	50.26
1817	8682	0.0272	965.00	1,129.59	71.32
1818	8690	0.0000	962.18	1,129.45	72.48
1819	8706	0.0000	965.00	1,129.45	71.26
1820	8714	0.0000	955.52	1,128.89	75.12
1821	8718	0.0000	959.00	1,128.91	73.62
1822	8750	0.0000	965.00	1,128.86	71.00
1823	8762	0.0000	955.50	1,128.89	75.13
1824	8768	0.0000	940.72	1,124.66	79.70
1825	878	0.0000	1,010.42	1,144.12	57.93
1826	8780	0.0000	943.72	1,124.66	78.40
1827	8792	0.0000	977.35	1,133.83	67.80

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1828	8822	0.0000	937.45	1,125.51	81.49
1829	8842	0.0000	941.10	1,125.51	79.91
1830	8844	0.0000	940.71	1,125.51	80.07
1831	8846	0.0000	935.00	1,125.51	82.55
1832	8862	0.0000	924.06	1,128.56	88.61
1833	8876	0.0000	920.27	1,128.62	90.28
1834	8878	0.0000	912.59	1,128.81	93.69
1835	888	0.0000	1,020.00	1,144.12	53.78
1836	8882	0.0000	987.72	1,053.23	28.38
1837	8884	0.0000	990.42	1,052.86	27.05
1838	8886	0.0000	982.12	1,130.84	64.44
1839	8890	0.0000	1,037.07	1,144.23	46.43
1840	890	0.0000	1,020.00	1,144.12	53.78
1841	8914	0.0000	1,023.23	1,144.12	52.38
1842	8934	0.0000	968.63	1,128.94	69.46
1843	8938	0.0000	969.75	1,128.96	68.99
1844	8942	0.0000	974.85	1,129.21	66.88
1845	8946	0.0775	961.13	1,128.46	72.50
1846	8952	0.0231	911.71	1,113.79	87.56
1847	896	0.0000	1,018.83	1,144.12	54.29
1848	8960	0.0000	995.00	1,132.08	59.40
1849	8964	0.0000	989.63	1,132.18	61.77
1850	8968	0.0000	988.69	1,132.31	62.23
1851	8982	0.0000	977.31	1,131.48	66.80
1852	8984	0.0000	1,034.00	1,230.23	85.03
1853	8986	0.0000	1,034.00	1,230.23	85.03
1854	8988	0.0000	1,034.00	1,157.50	53.51
1855	8990	0.0000	1,034.00	1,157.23	53.40
1856	8992	0.0000	965.00	1,131.94	72.34

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1857	8994	0.0000	967.56	1,131.80	71.17
1858	8996	0.0000	967.66	1,131.84	71.14
1859	900	0.0000	1,023.86	1,144.12	52.11
1860	9002	0.0000	965.00	1,131.14	71.99
1861	9004	0.0000	967.22	1,133.67	72.12
1862	9006	0.0000	970.41	1,133.67	70.74
1863	9008	0.0000	965.00	1,133.67	73.09
1864	9010	0.0231	965.00	1,131.48	72.14
1865	9018	0.0000	977.85	1,131.46	66.56
1866	9020	0.0000	973.67	1,130.49	67.95
1867	9024	0.0272	973.03	1,131.35	68.60
1868	9028	0.0272	962.20	1,131.35	73.29
1869	9044	0.0000	974.45	1,131.46	68.03
1870	9050	0.0000	974.32	1,131.46	68.09
1871	9056	0.0000	973.00	1,131.46	68.66
1872	9058	0.0000	973.13	1,131.46	68.60
1873	9064	0.0000	972.34	1,131.47	68.95
1874	9080	0.0000	975.39	1,129.59	66.81
1875	9082	0.0000	985.00	1,129.62	62.66
1876	9090	0.0000	995.00	1,131.89	59.31
1877	9112	0.0000	997.53	1,131.21	57.92
1878	9114	0.0000	1,005.00	1,131.24	54.70
1879	9124	0.0735	983.96	1,131.55	63.95
1880	9126	0.0000	1,015.00	1,131.00	50.26
1881	9132	0.0000	1,015.00	1,131.00	50.26
1882	9134	0.0272	995.00	1,130.63	58.77
1883	9148	0.0000	987.20	1,131.99	62.74
1884	9150	0.0000	987.28	1,131.99	62.71
1885	9160	0.0000	995.00	1,131.96	59.34

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1886	9162	0.0000	995.00	1,131.95	59.34
1887	9164	0.0000	995.00	1,131.95	59.34
1888	9184	0.0000	1,025.46	1,144.21	51.45
1889	9190	0.0000	1,038.67	1,144.19	45.72
1890	92	0.0000	991.45	1,131.05	60.49
1891	9214	0.0272	1,043.19	1,144.17	43.76
1892	922	0.0000	1,015.45	1,144.12	55.75
1893	9226	0.0000	1,025.00	1,144.15	51.63
1894	9240	0.0000	1,046.29	1,144.23	42.44
1895	9246	0.0272	1,047.03	1,143.75	41.91
1896	9250	0.0272	1,038.42	1,143.85	45.68
1897	926	0.0000	1,010.00	1,144.12	58.11
1898	9266	0.0000	1,029.47	1,143.59	49.45
1899	9274	0.0272	1,045.00	1,143.70	42.77
1900	9322	0.0000	1,019.20	1,144.20	54.16
1901	9328	0.0000	1,013.89	1,144.20	56.46
1902	9332	0.0272	1,002.59	1,144.61	61.54
1903	9336	0.0272	1,004.20	1,144.69	60.87
1904	9340	0.0000	1,023.75	1,145.91	52.93
1905	9346	0.0272	993.43	1,144.54	65.48
1906	9350	0.0272	991.99	1,144.53	66.09
1907	9356	0.0000	1,010.00	1,145.49	58.71
1908	936	0.0000	1,008.28	1,144.12	58.86
1909	9360	0.0000	1,005.00	1,145.22	60.76
1910	9390	0.0272	983.62	1,143.43	69.24
1911	9396	0.0000	984.34	1,143.37	68.91
1912	9404	0.0000	985.01	1,143.57	68.70
1913	9416	0.0000	987.58	1,144.62	68.05
1914	9420	0.0000	1,006.59	1,139.94	57.78

Base Year Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1915	9448	0.0000	982.47	1,138.29	67.52
1916	9496	0.0544	959.56	1,089.60	56.35
1917	9506	0.0272	948.87	1,089.81	61.07
1918	9510	0.0000	945.00	1,089.85	62.76
1919	9512	0.0000	951.61	1,090.08	60.00
1920	9516	0.0000	952.16	1,090.08	59.76
1921	952	0.0000	1,005.00	1,144.12	60.28
1922	9520	0.0000	965.66	1,137.31	74.38
1923	9522	0.0000	962.14	1,137.30	75.90
1924	9540	0.0000	945.00	1,137.44	83.39
1925	9544	0.0000	955.06	1,138.11	79.32
1926	9546	0.0000	945.00	1,138.37	83.79
1927	9550	0.0000	911.56	1,089.54	77.12
1928	9578	0.0272	934.54	1,089.61	67.19
1929	9582	0.0272	932.56	1,089.61	68.05
1930	9584	0.0000	942.07	1,089.72	63.98
1931	9596	0.0000	927.66	1,089.70	70.21
1932	9608	0.0272	925.00	1,089.60	71.32
1933	9622	0.0000	930.84	1,089.81	68.88
1934	9632	0.0000	937.85	1,090.11	65.97
1935	9638	0.0000	947.03	1,090.11	62.00
1936	964	0.0000	1,011.18	1,144.12	57.60
1937	9640	0.0000	979.79	1,090.38	47.92
1938	9644	0.0000	975.00	1,090.39	50.00
1939	9646	0.0000	1,034.00	1,156.81	53.21
1940	9648	0.0000	1,025.00	1,156.72	57.07
1941	9652	0.0000	1,030.09	1,230.21	86.71
1942	9660	0.0000	1,005.00	1,078.08	31.67
1943	9668	0.0000	995.75	1,130.82	58.52

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1944		9670	0.0000	993.29	1,130.81	59.59
1945		9690	0.0272	953.63	1,128.28	75.68
1946		9702	0.0000	959.45	1,128.31	73.16
1947		9710	0.0272	960.42	1,128.27	72.73
1948		9718	0.0000	960.01	1,128.26	72.91
1949		9726	0.0272	962.28	1,128.28	71.93
1950		9732	0.0000	963.98	1,128.27	71.19
1951		9738	0.0000	962.18	1,128.30	71.98
1952		9744	0.0272	965.53	1,128.22	70.50
1953		9794	0.0272	941.28	1,127.74	80.79
1954		9798	0.0272	941.45	1,127.55	80.64
1955		9804	0.0272	943.52	1,127.81	79.85
1956		9816	0.0000	947.13	1,128.02	78.38
1957		9818	0.0000	946.07	1,128.02	78.84
1958		9826	0.0272	955.00	1,128.08	75.00
1959		9842	0.0000	959.52	1,128.41	73.18
1960		9864	0.0272	963.03	1,128.38	71.65
1961		9868	0.0000	965.00	1,128.38	70.79
1962		9872	0.0000	924.00	936.99	5.63
1963		9874	0.0000	940.22	1,128.47	81.57
1964		9876	0.0000	940.11	1,128.47	81.62
1965		988	0.0000	1,007.91	1,144.12	59.02
1966		9880	0.0231	954.72	1,128.43	75.27
1967		9882	0.0000	955.01	1,128.32	75.10
1968		9884	0.0272	945.00	1,128.33	79.44
1969		9886	0.0000	965.00	1,128.38	70.79
1970		9898	0.0000	964.65	1,128.49	70.99
1971		9900	0.0272	967.98	1,128.47	69.54
1972		9908	0.0000	975.00	1,128.54	66.53

Base Year Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1973		9910	0.0000	975.00	1,128.54	66.53
1974		9922	0.0000	965.00	1,128.54	70.86
1975		9926	0.0272	958.77	1,128.71	73.63
1976		9928	0.0000	976.18	1,129.22	66.31
1977		9932	0.0000	976.17	1,129.24	66.33
1978		9948	0.0272	976.88	1,130.82	66.70
1979		9962	0.0463	980.78	1,130.83	65.02
1980		9966	0.0000	976.25	1,130.83	66.98
1981		9992	0.0000	976.33	1,130.85	66.95

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Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1		106205	190.67	12.00	120.00	0.01	0.03	0.000	0.000
2		10671D	1,051.83	6.00	100.00	0.02	0.15	0.04	0.04
3		106766	264.16	16.00	125.00	0.35	0.38	0.01	0.05
4		10676B	191.00	6.00	100.00	0.03	0.20	0.01	0.07
5		106770	48.13	6.00	100.00	0.03	0.20	0.00	0.07
6		1067B4	21.07	6.00	100.00	0.03	0.22	0.00	0.08
7		1067BF	453.93	6.00	100.00	-0.03	0.23	0.04	0.09
8		1070A5	583.34	6.00	100.00	-0.01	0.11	0.01	0.02
9		1073F9	198.58	6.00	100.00	0.000000	0.0000	0.00	0.00
10		11	37.21	36.00	140.00	-5.18	1.13	0.00	0.11
11		125	462.43	16.00	125.00	-2.62	2.90	0.94	2.03
12		135	109.30	24.00	130.00	0.000000	0.00	0.00	0.00
13		137	282.78	24.00	120.00	3.27	1.61	0.13	0.46
14		139	329.34	24.00	130.00	0.00	0.00	0.00	0.00
15		1390E7	979.86	8.00	110.00	0.06	0.25	0.06	0.06
16		139210	235.53	12.00	120.00	0.05	0.10	0.00	0.01
17		139211	281.97	12.00	120.00	0.05	0.09	0.00	0.01
18		139213	176.00	6.00	100.00	-0.00	0.03	0.000	0.00
19		13921F	421.13	8.00	110.00	0.02	0.10	0.01	0.01
20		139220	212.31	6.00	100.00	-0.01	0.07	0.00	0.01
21		139225	321.19	6.00	100.00	-0.01	0.07	0.00	0.01
22		139226	614.44	6.00	100.00	0.04	0.30	0.09	0.14
23		139227	593.29	6.00	100.00	0.03	0.23	0.05	0.08
24		139228	276.42	6.00	100.00	-0.01	0.07	0.00	0.01
25		13922C	275.83	6.00	100.00	0.03	0.26	0.03	0.11
26		13923D	176.00	6.00	100.00	-0.00	0.03	0.000	0.00
27		13923E	907.96	6.00	100.00	-0.00	0.02	0.000	0.000
28		139248	648.59	12.00	120.00	0.00	0.01	0.00	0.00
29		139249	176.00	6.00	100.00	0.04	0.33	0.03	0.17
30		13995C	1,014.54	8.00	110.00	0.06	0.25	0.06	0.06
31		13996E	43.12	8.00	110.00	-0.11	0.50	0.01	0.22

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
32		13E8C5	98.21	8.00	110.00	0.01	0.03	0.000	0.00
33		13F24E	385.45	6.00	100.00	-0.02	0.18	0.02	0.06
34		13F24F	50.96	6.00	100.00	-0.05	0.38	0.01	0.22
35		13FCB6	44.93	6.00	100.00	-0.02	0.18	0.00	0.06
36		13FCCF	240.10	8.00	110.00	0.000	0.00	0.00	0.00
37		13FCF9	858.15	8.00	110.00	0.000	0.00	0.00	0.00
38		141	114.14	24.00	130.00	3.81	1.88	0.06	0.53
39		142A4F	26.05	4.00	90.00	-0.000000	0.0000	0.00	0.00
40		142A55	267.95	4.00	90.00	0.00	0.00	0.00	0.00
41		142A56	5.00	4.00	90.00	-0.000000	0.0000	0.00	0.00
42		142D22	346.55	16.00	125.00	0.50	0.56	0.03	0.10
43		142D28	22.92	6.00	100.00	0.01	0.12	0.000	0.02
44		142D29	14.92	6.00	100.00	0.01	0.12	0.000	0.02
45		142D30	59.94	6.00	100.00	0.01	0.12	0.00	0.03
46		142D3E	1,208.23	6.00	100.00	0.01	0.12	0.03	0.03
47		142D86	454.57	16.00	125.00	0.52	0.57	0.05	0.10
48		143	428.24	12.00	120.00	0.00	0.00	0.00	0.00
49		145	14.65	12.00	120.00	-0.000000	0.000000	0.00	0.00
50		147	431.93	16.00	125.00	0.00	0.00	0.00	0.00
51		147716	252.13	8.00	110.00	0.08	0.34	0.03	0.11
52		14771C	198.83	8.00	110.00	0.06	0.27	0.01	0.07
53		147727	1,678.23	8.00	110.00	-0.02	0.07	0.01	0.01
54		147774	6.51	8.00	110.00	-0.02	0.07	0.000	0.02
55		147780	478.48	8.00	110.00	-0.02	0.07	0.00	0.01
56		1491B5	53.26	8.00	110.00	0.00	0.00	0.00	0.00
57		1491B9	395.94	6.00	100.00	0.00	0.00	0.00	0.00
58		1491BA	41.47	6.00	100.00	0.00	0.00	0.00	0.00
59		1491C0	126.70	8.00	110.00	0.00	0.00	0.00	0.00
60		1491D6	116.29	6.00	100.00	0.00	0.00	0.00	0.00
61		1491DE	24.66	6.00	100.00	0.00	0.00	0.00	0.00
62		1491DF	117.74	6.00	100.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
63		14DD20	116.79	16.00	125.00	-0.99	1.09	0.04	0.33
64		14E00C	756.56	8.00	110.00	0.00	0.00	0.00	0.00
65		14E00D	383.82	16.00	125.00	-0.25	0.28	0.01	0.03
66		14EC3A	504.38	8.00	110.00	0.000000	0.00000	0.00	0.00
67		14EC75	1,140.45	16.00	125.00	-0.03	0.03	0.000	0.000
68		15	10.99	36.00	140.00	0.05	0.01	0.00	0.00
69		151	682.10	24.00	130.00	0.00	0.00	0.00	0.00
70		155	318.46	16.00	125.00	-0.000000	0.00000	0.00	0.00
71		157	603.42	12.00	120.00	0.10	0.20	0.01	0.02
72		159	260.91	8.00	110.00	0.000000	0.00000	0.00	0.00
73		15B63E	20.00	12.00	120.00	-0.34	0.67	0.00	0.20
74		15C320	187.00	6.00	100.00	-0.000000	0.0000	0.00	0.00
75		15C323	161.36	8.00	110.00	-0.11	0.48	0.03	0.21
76		15FCCF	9.00	16.00	125.00	0.01	0.01	0.00	0.00
77		15FCD6	486.99	12.00	90.00	-0.30	0.59	0.13	0.28
78		161	882.49	6.00	100.00	-0.01	0.08	0.01	0.01
79		163	637.56	8.00	110.00	-0.03	0.12	0.01	0.01
80		165	215.03	8.00	110.00	-0.03	0.12	0.00	0.01
81		1653	759.19	16.00	125.00	-2.71	3.01	1.65	2.17
82		1663	1,735.55	12.00	120.00	-0.90	1.78	2.15	1.24
83		167	217.94	8.00	110.00	-0.03	0.12	0.00	0.02
84		1675	4,380.17	16.00	125.00	-0.61	0.67	0.59	0.14
85		169	920.73	8.00	110.00	-0.01	0.06	0.00	0.00
86		1695	2,645.45	12.00	120.00	-0.90	1.78	3.27	1.24
87		17	7.03	36.00	140.00	5.12	1.12	0.000	0.10
88		1703	88.29	12.00	120.00	-0.02	0.04	0.000	0.00
89		171	829.40	6.00	100.00	0.01	0.05	0.00	0.01
90		173	235.06	6.00	100.00	0.04	0.30	0.03	0.15
91		175	132.26	12.00	120.00	-0.23	0.45	0.01	0.10
92		177	352.22	12.00	120.00	-0.13	0.25	0.01	0.03
93		179	440.29	12.00	120.00	-0.09	0.18	0.01	0.02

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
94		181	432.94	12.00	120.00	-0.32	0.63	0.08	0.18
95		18139F	698.20	6.00	100.00	0.02	0.14	0.02	0.04
96		1813C1	372.20	6.00	100.00	-0.06	0.46	0.12	0.32
97		183	274.33	12.00	120.00	0.17	0.34	0.02	0.06
98		185	590.74	12.00	120.00	-0.14	0.28	0.02	0.04
99		187	805.33	6.00	100.00	-0.01	0.11	0.02	0.02
100		189	289.44	12.00	120.00	-0.15	0.29	0.01	0.04
101		19	682.03	12.00	120.00	-0.65	1.28	0.46	0.67
102		191	593.28	12.00	120.00	-0.19	0.37	0.04	0.07
103		193	1,360.07	6.00	100.00	-0.02	0.15	0.05	0.04
104		195	689.38	6.00	100.00	-0.01	0.11	0.01	0.02
105		197	452.00	6.00	100.00	0.00	0.00	0.00	0.00
106		199	483.92	8.00	110.00	0.00	0.00	0.00	0.00
107		19DE63	19.68	12.00	120.00	0.03	0.06	0.00	0.00
108		19DE69	998.82	12.00	120.00	0.00	0.00	0.00	0.00
109		19DEDB	19.61	6.00	100.00	0.04	0.33	0.00	0.17
110		19DEE7	369.33	12.00	120.00	-0.01	0.02	0.000	0.000
111		19DEFB	656.03	8.00	110.00	0.03	0.14	0.01	0.02
112		19DF59	876.46	8.00	110.00	0.000000	0.00000	0.00	0.00
113		19E02F	2,272.41	8.00	110.00	0.03	0.14	0.05	0.02
114		19E0A6	1,222.10	8.00	110.00	-0.01	0.06	0.01	0.00
115		1AC260	484.00	8.00	110.00	0.21	0.95	0.35	0.72
116		1AC2B7	774.79	8.00	110.00	-0.14	0.60	0.24	0.31
117		1AC2E4	109.28	12.00	120.00	0.00	0.00	0.00	0.00
118		1AC2E5	89.25	12.00	120.00	0.24	0.47	0.01	0.11
119		1AC2E6	286.91	12.00	120.00	-0.24	0.47	0.03	0.11
120		1AC34D	127.09	8.00	110.00	-0.24	1.07	0.11	0.90
121		1AC3DC	1,227.77	8.00	110.00	-0.11	0.47	0.24	0.20
122		1AC40C	59.86	8.00	110.00	-0.07	0.33	0.01	0.10
123		1C2670	170.00	4.00	90.00	0.00	0.00	0.00	0.00
124		1D729B	182.60	6.00	100.00	0.03	0.21	0.01	0.08

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
125		1DFD09	89.36	12.00	120.00	0.73	1.44	0.08	0.84
126		1DFD39	1,052.12	8.00	110.00	0.14	0.60	0.33	0.32
127		201	280.00	6.00	100.00	-0.01	0.11	0.01	0.02
128		203	185.00	6.00	100.00	-0.01	0.05	0.000	0.00
129		204084	157.37	8.00	110.00	-0.13	0.56	0.04	0.27
130		20408A	801.31	6.00	100.00	0.03	0.22	0.06	0.08
131		204090	640.96	6.00	100.00	0.000	0.00	0.00	0.00
132		204093	234.86	6.00	100.00	0.01	0.11	0.00	0.02
133		204096	2,665.85	16.00	125.00	1.22	1.36	1.32	0.50
134		20409F	233.64	6.00	100.00	-0.04	0.29	0.03	0.13
135		2040A5	629.91	16.00	125.00	2.19	2.42	0.92	1.46
136		2040CF	477.78	16.00	125.00	0.02	0.03	0.000	0.000
137		2040D5	507.17	8.00	110.00	-0.16	0.72	0.22	0.44
138		205	303.14	6.00	100.00	-0.02	0.19	0.02	0.06
139		207	1,276.49	6.00	100.00	0.02	0.15	0.05	0.04
140		209	200.97	8.00	110.00	-0.04	0.17	0.01	0.03
141		21	154.67	8.00	110.00	0.02	0.10	0.00	0.01
142		210D77	45.34	12.00	120.00	0.00	0.01	0.00	0.00
143		210D91	630.83	8.00	110.00	0.00	0.02	0.000	0.000
144		210D94	24.86	8.00	110.00	0.00	0.02	0.00	0.00
145		210D99	691.10	8.00	110.00	0.00	0.02	0.000	0.000
146		210DAA	314.17	8.00	110.00	0.00	0.00	0.00	0.00
147		210DAE	123.45	8.00	110.00	0.00	0.02	0.000	0.000
148		210DBF	162.29	6.00	100.00	0.000	0.01	0.00	0.00
149		210DDE	692.80	8.00	110.00	0.00	0.02	0.000	0.000
150		210E06	427.14	8.00	110.00	0.00	0.02	0.000	0.000
151		210E13	120.71	6.00	100.00	-0.000000	0.0000	0.00	0.00
152		210E1F	124.21	6.00	100.00	0.00	0.00	0.00	0.00
153		210E20	28.05	8.00	110.00	-0.00	0.02	0.00	0.00
154		210E25	291.81	8.00	110.00	0.00	0.02	0.000	0.000
155		210F40	308.92	6.00	100.00	-0.03	0.26	0.03	0.11

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
156		210F44	170.43	6.00	100.00	-0.02	0.18	0.01	0.06
157		210F45	362.83	6.00	100.00	-0.03	0.26	0.04	0.11
158		210F49	213.58	20.00	130.00	-0.17	0.12	0.000	0.00
159		210F4E	34.17	8.00	110.00	0.13	0.58	0.01	0.29
160		210F8D	737.30	6.00	100.00	-0.01	0.08	0.01	0.01
161		211	280.01	6.00	100.00	0.02	0.12	0.01	0.03
162		212F53	359.01	8.00	110.00	0.00	0.00	0.00	0.00
163		213	631.49	6.00	100.00	-0.01	0.05	0.00	0.01
164		213447	472.52	8.00	110.00	-0.01	0.04	0.000	0.00
165		2145EE	1,584.47	16.00	125.00	2.62	2.90	3.21	2.03
166		21461B	1,381.83	16.00	125.00	4.08	4.52	6.38	4.62
167		21467D	392.22	16.00	125.00	5.12	5.68	2.76	7.05
168		215	760.94	6.00	100.00	0.01	0.07	0.01	0.01
169		217	689.84	6.00	100.00	-0.00	0.02	0.000	0.000
170		219	280.06	6.00	100.00	0.02	0.13	0.01	0.03
171		2207AC	1,318.39	6.00	100.00	-0.00	0.02	0.00	0.00
172		2207AE	647.66	6.00	100.00	0.01	0.04	0.00	0.00
173		2207B4	1,618.51	6.00	100.00	0.03	0.22	0.13	0.08
174		2207CC	14.01	6.00	100.00	-0.04	0.30	0.00	0.15
175		2207D3	369.24	6.00	100.00	-0.03	0.22	0.03	0.08
176		2207D7	628.81	6.00	100.00	0.04	0.33	0.11	0.17
177		2207FD	652.94	6.00	100.00	0.00	0.03	0.00	0.00
178		22080A	647.66	6.00	100.00	0.01	0.08	0.01	0.01
179		220896	664.72	6.00	100.00	-0.01	0.07	0.01	0.01
180		220898	777.37	6.00	100.00	0.04	0.33	0.13	0.17
181		2208DE	653.34	6.00	100.00	-0.01	0.06	0.01	0.01
182		220901	700.81	6.00	100.00	-0.01	0.09	0.01	0.02
183		22093B	620.68	6.00	100.00	0.04	0.30	0.09	0.15
184		22094E	319.93	6.00	100.00	0.00	0.00	0.00	0.00
185		220950	3,206.64	6.00	100.00	0.00	0.03	0.01	0.00
186		220951	663.74	6.00	100.00	0.01	0.06	0.01	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
187		221	632.14	6.00	100.00	0.02	0.15	0.02	0.04
188		223	239.26	6.00	100.00	-0.01	0.06	0.00	0.01
189		225	314.26	6.00	100.00	-0.01	0.07	0.00	0.01
190		227	273.97	6.00	100.00	0.00	0.00	0.00	0.00
191		229	374.42	8.00	110.00	0.00	0.00	0.00	0.00
192		22D047	91.68	8.00	110.00	0.02	0.11	0.00	0.01
193		22D048	84.45	16.00	125.00	0.81	0.90	0.02	0.23
194		22D09A	326.53	8.00	110.00	0.00	0.00	0.00	0.00
195		22D0F0	385.57	6.00	100.00	0.06	0.50	0.15	0.38
196		22D0F9	50.35	8.00	110.00	-0.02	0.11	0.000	0.01
197		22D106	236.80	8.00	110.00	0.00	0.00	0.00	0.00
198		22DA7E	221.39	8.00	110.00	0.00	0.00	0.00	0.00
199		22E35E	844.32	6.00	100.00	-0.00	0.02	0.000	0.000
200		22F263	105.00	12.00	120.00	-0.00	0.01	0.00	0.00
201		22F284	344.73	8.00	110.00	0.01	0.03	0.000	0.00
202		23095F	639.10	8.00	110.00	0.02	0.07	0.00	0.01
203		230969	273.83	24.00	130.00	-1.18	0.58	0.02	0.06
204		23097F	274.58	8.00	110.00	0.000	0.00	0.00	0.00
205		230989	30.00	6.00	100.00	0.01	0.11	0.000	0.02
206		23098F	585.09	6.00	100.00	-0.06	0.46	0.19	0.32
207		2309AE	122.83	8.00	110.00	0.000000	0.00000	0.00	0.00
208		2309C0	122.81	8.00	110.00	0.000000	0.00000	0.00	0.00
209		230E73	110.79	6.00	100.00	0.00	0.00	0.00	0.00
210		230F0A	626.71	6.00	100.00	-0.05	0.37	0.13	0.21
211		230F34	231.52	24.00	130.00	0.25	0.13	0.000	0.00
212		231	1,064.16	6.00	100.00	-0.03	0.22	0.09	0.08
213		232A89	41.33	24.00	130.00	-0.27	0.14	0.000	0.00
214		232AB1	24.00	8.00	110.00	0.02	0.08	0.000	0.01
215		232B14	1,198.19	24.00	130.00	-0.29	0.14	0.01	0.00
216		233	518.23	12.00	120.00	0.20	0.40	0.04	0.08
217		2331	479.00	24.00	130.00	-0.92	0.45	0.02	0.04

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
218		235	279.93	12.00	120.00	-0.21	0.41	0.02	0.08
219		2365	824.85	16.00	125.00	-0.86	0.96	0.21	0.26
220		2369	1,810.01	8.00	110.00	-0.04	0.18	0.06	0.03
221		237	280.20	12.00	120.00	0.23	0.45	0.03	0.10
222		2371	1,677.49	12.00	120.00	-0.08	0.15	0.02	0.01
223		2381	42.30	16.00	125.00	-2.10	2.33	0.06	1.36
224		239	429.77	12.00	120.00	-0.35	0.70	0.09	0.22
225		23B19	73.36	16.00	125.00	-2.89	3.21	0.18	2.44
226		23B1C	1,285.95	16.00	125.00	0.52	0.57	0.13	0.10
227		23B1F	976.44	16.00	125.00	0.49	0.54	0.09	0.09
228		23B4A	44.00	12.00	120.00	-0.000000	0.00000	0.00	0.00
229		23BDE	161.88	16.00	125.00	0.52	0.57	0.02	0.10
230		23BE1	1,260.00	16.00	125.00	0.52	0.57	0.13	0.10
231		23C01	7.87	6.00	100.00	0.03	0.22	0.000	0.08
232		23C48	95.83	24.00	130.00	-0.34	0.17	0.000	0.01
233		23C5E	1,181.15	24.00	130.00	-0.33	0.16	0.01	0.01
234		23C91	150.00	6.00	100.00	0.00	0.00	0.00	0.00
235		23CAA	314.17	12.00	120.00	0.03	0.07	0.000	0.00
236		23CAD	31.08	12.00	120.00	0.03	0.07	0.000	0.00
237		23CB9	97.99	16.00	125.00	1.07	1.18	0.04	0.39
238		23CC5	104.96	16.00	125.00	2.37	2.63	0.18	1.69
239		23D04	294.32	8.00	110.00	-0.13	0.58	0.09	0.29
240		23D8B	1,770.93	16.00	125.00	1.56	1.73	1.39	0.78
241		23DC1	96.01	12.00	120.00	-2.62	5.15	0.85	8.87
242		23DD4	1,730.78	16.00	125.00	0.07	0.07	0.00	0.00
243		23E2C	1,695.81	16.00	125.00	-0.64	0.71	0.25	0.15
244		23E3D1	70.99	6.00	100.00	-0.24	1.88	0.31	4.30
245		23E3F3	259.93	8.00	110.00	-0.24	1.05	0.23	0.89
246		23FC5	5,177.47	16.00	125.00	-1.71	1.89	4.76	0.92
247		2401	334.92	12.00	120.00	0.83	1.64	0.36	1.07
248		24068	3,851.91	16.00	125.00	1.03	1.14	1.40	0.36

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
249		2407	706.18	12.00	120.00	-0.02	0.04	0.000	0.00
250		240D6	192.69	16.00	125.00	-0.22	0.24	0.00	0.02
251		240DE	553.41	16.00	125.00	-0.22	0.24	0.01	0.02
252		241	407.39	12.00	120.00	0.26	0.50	0.05	0.12
253		24143	80.25	16.00	125.00	2.37	2.63	0.14	1.69
254		24293	1,314.29	6.00	100.00	0.04	0.33	0.23	0.17
255		243	1,421.61	6.00	100.00	-0.02	0.15	0.06	0.04
256		2433	56.80	24.00	130.00	-0.92	0.45	0.00	0.04
257		24351	682.79	6.00	100.00	-0.06	0.48	0.24	0.35
258		24357	200.57	6.00	100.00	0.13	1.03	0.28	1.42
259		2443B	252.02	6.00	100.00	-0.02	0.16	0.01	0.04
260		24483	200.08	6.00	100.00	0.04	0.30	0.03	0.14
261		2449F	380.32	6.00	100.00	0.02	0.16	0.02	0.05
262		244A2	1,230.60	6.00	100.00	0.03	0.26	0.14	0.11
263		244A5	170.52	6.00	100.00	0.13	0.99	0.22	1.31
264		244B4	276.95	6.00	100.00	-0.03	0.26	0.03	0.11
265		245	666.84	6.00	100.00	-0.04	0.35	0.13	0.20
266		246034	341.48	8.00	110.00	0.00	0.00	0.00	0.00
267		24603B	132.10	4.00	90.00	0.00	0.00	0.00	0.00
268		246048	72.61	8.00	110.00	0.00	0.00	0.00	0.00
269		246054	30.79	6.00	100.00	0.00	0.00	0.00	0.00
270		24608A	494.42	6.00	100.00	0.00	0.00	0.00	0.00
271		2461DC	730.81	16.00	125.00	-0.03	0.04	0.000	0.000
272		246200	172.27	8.00	110.00	0.00	0.00	0.00	0.00
273		246204	572.00	16.00	125.00	-0.03	0.04	0.000	0.000
274		246268	184.36	8.00	110.00	0.00	0.00	0.00	0.00
275		247	170.12	8.00	110.00	-0.10	0.43	0.03	0.17
276		247C8	776.37	6.00	100.00	0.00	0.03	0.00	0.00
277		247CB	314.03	6.00	100.00	0.06	0.51	0.12	0.39
278		247CE	608.07	12.00	120.00	0.07	0.15	0.01	0.01
279		2483	17.45	16.00	120.00	3.40	3.77	0.06	3.55

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
280		248A7	168.39	6.00	100.00	-0.03	0.21	0.01	0.08
281		248AD	700.64	12.00	120.00	-0.52	1.02	0.31	0.44
282		248B0	622.49	6.00	100.00	0.03	0.27	0.07	0.12
283		248C2	320.22	6.00	100.00	-0.03	0.24	0.03	0.10
284		248D4	249.91	8.00	110.00	-0.09	0.39	0.04	0.14
285		248DA	129.50	6.00	100.00	0.03	0.21	0.01	0.08
286		248E9	263.89	6.00	100.00	0.05	0.36	0.05	0.20
287		248F5	262.66	6.00	100.00	0.03	0.21	0.02	0.08
288		248FE	1,062.94	6.00	100.00	0.01	0.11	0.02	0.02
289		249	736.54	6.00	100.00	-0.05	0.41	0.19	0.26
290		2491C	529.82	6.00	100.00	-0.03	0.26	0.06	0.11
291		2492B	120.50	6.00	100.00	-0.13	0.99	0.16	1.31
292		24E1A	567.65	8.00	110.00	-0.10	0.45	0.11	0.19
293		24E53	290.00	8.00	110.00	-0.12	0.52	0.07	0.24
294		24E62	333.00	6.00	100.00	-0.03	0.23	0.03	0.09
295		24E98	230.42	8.00	110.00	-0.08	0.37	0.03	0.13
296		24F02	448.76	12.00	120.00	-0.98	1.94	0.65	1.45
297		24F53	442.98	6.00	100.00	-0.05	0.41	0.12	0.26
298		24F80	468.38	8.00	110.00	-0.11	0.47	0.09	0.20
299		24F98	357.14	8.00	110.00	-0.06	0.28	0.03	0.07
300		24FDD	246.89	8.00	110.00	-0.11	0.49	0.05	0.21
301		2503B	241.14	12.00	120.00	-0.44	0.87	0.08	0.33
302		250B9	230.50	6.00	100.00	-0.12	0.94	0.28	1.20
303		251	879.87	6.00	100.00	-0.03	0.20	0.06	0.07
304		2513	1,324.31	16.00	120.00	-3.40	3.77	4.71	3.56
305		2517	877.13	16.00	120.00	-3.59	3.98	3.45	3.93
306		2525	2,012.55	12.00	120.00	-0.88	1.73	2.37	1.18
307		2527	199.53	12.00	120.00	0.00	0.00	0.00	0.00
308		252F9	156.89	12.00	120.00	-0.29	0.58	0.02	0.16
309		252FF	130.98	12.00	120.00	-0.29	0.58	0.02	0.16
310		253	377.72	12.00	120.00	-0.27	0.53	0.05	0.13

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
311		25302	146.91	12.00	120.00	-0.29	0.58	0.02	0.16
312		25308	238.68	12.00	120.00	-0.38	0.74	0.06	0.25
313		25317	34.32	6.00	100.00	-0.04	0.28	0.00	0.12
314		2531A	150.08	6.00	100.00	0.04	0.28	0.02	0.12
315		25323	97.37	6.00	100.00	0.04	0.28	0.01	0.12
316		25326	170.86	12.00	120.00	-0.32	0.63	0.03	0.18
317		25329	145.00	12.00	120.00	-0.35	0.70	0.03	0.22
318		25336	202.78	6.00	100.00	-0.02	0.19	0.01	0.06
319		25339	276.00	6.00	100.00	-0.01	0.06	0.00	0.01
320		2533C	155.21	6.00	100.00	-0.01	0.06	0.00	0.01
321		2533F	53.23	6.00	100.00	0.01	0.06	0.000	0.01
322		25342	88.18	6.00	100.00	-0.01	0.06	0.000	0.01
323		25345	251.00	6.00	100.00	0.01	0.06	0.00	0.01
324		2534B	258.93	6.00	100.00	-0.01	0.12	0.01	0.03
325		25351	356.34	6.00	100.00	-0.02	0.18	0.02	0.06
326		2535A	273.00	6.00	100.00	-0.05	0.37	0.06	0.22
327		25369	156.99	6.00	100.00	-0.03	0.24	0.01	0.09
328		2536C	550.56	6.00	100.00	0.00	0.02	0.000	0.00
329		25375	270.13	6.00	100.00	-0.06	0.45	0.08	0.31
330		25378	142.68	6.00	100.00	0.03	0.21	0.01	0.08
331		2537B	44.53	6.00	100.00	-0.03	0.21	0.00	0.08
332		2537E	56.44	6.00	100.00	0.00000	0.0000	0.00	0.00
333		25381	43.55	6.00	100.00	0.06	0.45	0.01	0.31
334		25384	347.86	6.00	100.00	0.00000	0.0000	0.00	0.00
335		25387	260.96	6.00	100.00	-0.03	0.21	0.02	0.08
336		25390	323.45	6.00	100.00	-0.06	0.45	0.10	0.31
337		2539C	260.61	6.00	100.00	-0.01	0.07	0.00	0.01
338		253A2	103.16	8.00	110.00	-0.07	0.33	0.01	0.10
339		253A5	239.83	6.00	100.00	-0.05	0.36	0.05	0.21
340		253AB	40.09	6.00	100.00	0.00	0.00	0.00	0.00
341		253AE	122.78	6.00	100.00	-0.04	0.29	0.02	0.13

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
342		253BD	87.00	6.00	100.00	0.04	0.29	0.01	0.13
343		253C0	255.27	6.00	100.00	-0.04	0.29	0.03	0.13
344		253C6	342.61	6.00	100.00	0.01	0.07	0.00	0.01
345		253C9	266.73	6.00	100.00	-0.03	0.21	0.02	0.08
346		253CC	47.24	6.00	100.00	0.01	0.07	0.000	0.01
347		253D5	146.39	6.00	100.00	0.03	0.21	0.01	0.08
348		253DB	79.15	6.00	100.00	-0.03	0.21	0.01	0.08
349		253E1	182.00	6.00	100.00	-0.03	0.21	0.01	0.08
350		253E7	54.16	8.00	110.00	0.00	0.00	0.00	0.00
351		2541	2,725.53	16.00	125.00	-3.40	3.77	8.99	3.30
352		2543	795.27	16.00	125.00	-3.40	3.77	2.62	3.30
353		255	199.00	8.00	110.00	-0.10	0.43	0.03	0.17
354		2565	3,579.72	16.00	120.00	-3.40	3.77	12.73	3.56
355		257	170.00	12.00	120.00	0.24	0.47	0.02	0.11
356		25762	173.17	6.00	100.00	-0.05	0.37	0.04	0.22
357		25765	345.85	6.00	100.00	-0.02	0.16	0.02	0.04
358		25771	263.98	6.00	100.00	-0.00	0.01	0.000	0.000
359		25774	263.34	6.00	100.00	-0.03	0.20	0.02	0.07
360		25777	43.20	6.00	100.00	0.03	0.21	0.00	0.08
361		2577A	248.65	8.00	110.00	0.03	0.12	0.00	0.02
362		2577D	442.07	6.00	100.00	-0.01	0.11	0.01	0.02
363		25786	198.54	6.00	100.00	-0.09	0.70	0.14	0.69
364		2579	394.07	12.00	120.00	0.03	0.05	0.000	0.00
365		25798	206.33	6.00	100.00	-0.03	0.21	0.02	0.08
366		257A7	271.11	12.00	120.00	-0.20	0.39	0.02	0.08
367		257B0	1,012.34	6.00	100.00	0.02	0.17	0.05	0.05
368		259	196.00	8.00	110.00	0.03	0.12	0.00	0.02
369		25E259	84.14	8.00	110.00	0.03	0.12	0.00	0.02
370		25E25B	13.02	6.00	100.00	-0.03	0.21	0.000	0.07
371		25E264	387.08	8.00	110.00	-0.03	0.12	0.01	0.02
372		25E28F	1,026.27	6.00	100.00	-0.03	0.21	0.08	0.08

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
373		25F775	1,346.93	8.00	110.00	-0.0000	0.000	0.00	0.00
374		25F79F	291.84	8.00	110.00	-0.00000	0.0000	0.00	0.00
375		25F7A1	461.51	8.00	110.00	-0.000	0.00	0.00	0.00
376		25F7A6	688.04	8.00	110.00	0.000	0.00	0.00	0.00
377		2608A2	60.28	12.00	110.00	0.000000	0.00000	0.00	0.00
378		2608BB	1,377.05	12.00	110.00	0.00	0.00	0.00	0.00
379		261	617.00	6.00	100.00	0.01	0.10	0.01	0.02
380		26237	171.85	12.00	120.00	-0.33	0.65	0.03	0.19
381		2623D	273.00	6.00	100.00	-0.02	0.18	0.02	0.06
382		26246	45.60	6.00	100.00	0.02	0.19	0.00	0.06
383		2624C	126.55	6.00	100.00	-0.04	0.28	0.02	0.12
384		2624F	384.51	6.00	100.00	-0.04	0.28	0.05	0.12
385		26255	100.82	6.00	100.00	-0.06	0.45	0.03	0.31
386		26258	150.75	6.00	100.00	0.06	0.51	0.06	0.38
387		26261	69.13	6.00	100.00	0.01	0.07	0.000	0.01
388		26267	92.55	6.00	100.00	-0.03	0.21	0.01	0.08
389		2628B	287.43	6.00	100.00	-0.14	1.11	0.47	1.63
390		26297	798.88	12.00	120.00	0.32	0.62	0.14	0.18
391		262A0	835.52	24.00	130.00	-2.02	1.00	0.14	0.16
392		262A6	998.09	24.00	130.00	-2.87	1.41	0.31	0.31
393		262A9	374.27	24.00	130.00	-1.84	0.91	0.05	0.14
394		262BB	170.78	6.00	100.00	-0.03	0.21	0.01	0.07
395		262C1	304.00	24.00	130.00	-2.85	1.40	0.09	0.31
396		262C8	900.10	24.00	130.00	-2.89	1.43	0.28	0.32
397		262CB	457.73	24.00	130.00	-2.89	1.43	0.14	0.32
398		263	827.02	6.00	100.00	-0.01	0.05	0.00	0.01
399		2630F	1,175.66	24.00	130.00	-1.89	0.93	0.17	0.14
400		263E8	98.69	12.00	120.00	0.00	0.00	0.00	0.00
401		263FE	785.26	6.00	100.00	-0.03	0.27	0.09	0.12
402		2640D	1,278.11	6.00	100.00	-0.03	0.26	0.15	0.11
403		26425	277.78	6.00	100.00	-0.02	0.16	0.01	0.05

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
404		26431	316.85	8.00	110.00	-0.03	0.12	0.01	0.02
405		26434	222.54	12.00	120.00	0.37	0.74	0.05	0.24
406		26440	425.06	8.00	110.00	0.03	0.12	0.01	0.02
407		26446	241.89	12.00	120.00	0.23	0.46	0.02	0.10
408		26449	151.73	12.00	120.00	0.29	0.57	0.02	0.15
409		2644F	280.07	12.00	120.00	-0.20	0.39	0.02	0.07
410		26455	231.64	6.00	100.00	0.00	0.00	0.00	0.00
411		26458	232.08	6.00	100.00	-0.05	0.40	0.06	0.24
412		2645E	281.46	12.00	120.00	-0.13	0.26	0.01	0.03
413		26464	332.86	8.00	110.00	0.05	0.24	0.02	0.06
414		26467	128.00	12.00	120.00	-0.000000	0.00000	0.00	0.00
415		2646A	673.87	6.00	100.00	-0.05	0.38	0.15	0.22
416		26473	330.90	8.00	110.00	0.00	0.00	0.00	0.00
417		26495	258.78	6.00	100.00	0.03	0.21	0.02	0.08
418		264A1	1,501.60	6.00	100.00	-0.01	0.08	0.02	0.01
419		265	368.27	16.00	125.00	-0.18	0.20	0.01	0.01
420		266C28	1,179.40	8.00	110.00	0.000	0.00	0.00	0.00
421		266C30	873.67	8.00	110.00	-0.000	0.00	0.00	0.00
422		266C47	291.84	8.00	110.00	0.000	0.00	0.00	0.00
423		266C82	366.89	8.00	110.00	0.00	0.00	0.00	0.00
424		266C91	342.66	8.00	110.00	0.000	0.00	0.00	0.00
425		266C9C	599.43	8.00	110.00	0.000	0.00	0.00	0.00
426		266CB9	153.03	8.00	110.00	0.000000	0.00000	0.00	0.00
427		266CE5	486.72	8.00	110.00	-0.000	0.00	0.00	0.00
428		266CE7	300.63	8.00	110.00	-0.000	0.00	0.00	0.00
429		266CE8	134.86	8.00	110.00	-0.000	0.00	0.00	0.00
430		266D10	789.35	8.00	110.00	0.000	0.000	0.00	0.00
431		266D45	557.76	8.00	110.00	0.000000	0.00000	0.00	0.00
432		266D71	1,163.72	8.00	110.00	0.000	0.00	0.00	0.00
433		266D76	289.10	8.00	110.00	0.000	0.00	0.00	0.00
434		267	510.11	12.00	120.00	0.03	0.05	0.000	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
435		2682F2	373.32	8.00	110.00	0.000	0.00	0.00	0.00
436		2682F5	389.38	8.00	110.00	0.000	0.00	0.00	0.00
437		268305	715.38	8.00	110.00	0.000	0.00	0.00	0.00
438		26836C	1,302.73	8.00	110.00	0.00	0.00	0.00	0.00
439		268380	532.11	8.00	110.00	0.000	0.00	0.00	0.00
440		268397	943.44	8.00	110.00	0.000	0.00	0.00	0.00
441		2683B6	999.95	8.00	110.00	0.000	0.000	0.00	0.00
442		2683CF	347.10	8.00	110.00	0.000	0.00	0.00	0.00
443		2683F3	784.79	8.00	110.00	0.000	0.00	0.00	0.00
444		269	97.00	12.00	120.00	0.46	0.91	0.03	0.36
445		26B8E1	173.00	8.00	110.00	-0.03	0.12	0.00	0.02
446		26B8EA	349.49	6.00	100.00	-0.02	0.14	0.01	0.03
447		26B8EB	366.38	8.00	110.00	0.01	0.04	0.000	0.00
448		26B913	274.76	6.00	100.00	0.01	0.07	0.00	0.01
449		26B942	1,304.70	6.00	100.00	-0.00	0.02	0.00	0.00
450		26B963	720.52	6.00	100.00	-0.01	0.07	0.01	0.01
451		26B965	267.24	6.00	100.00	-0.01	0.05	0.00	0.01
452		26B9AD	173.05	6.00	100.00	-0.03	0.21	0.01	0.07
453		26B9BE	202.21	12.00	120.00	-0.09	0.18	0.00	0.02
454		26CC43	446.50	12.00	120.00	-0.00	0.01	0.00	0.00
455		26CC81	807.05	8.00	110.00	0.000	0.00	0.00	0.00
456		26CC9F	1,486.90	8.00	110.00	0.000	0.00	0.00	0.00
457		26CCC8	298.46	12.00	120.00	-0.00	0.01	0.00	0.00
458		26DA7C	711.11	12.00	120.00	-0.01	0.02	0.000	0.000
459		26DA93	23.87	8.00	110.00	0.02	0.07	0.000	0.01
460		26DAAC	26.93	8.00	110.00	-0.01	0.05	0.000	0.00
461		26E30	447.94	12.00	120.00	-0.01	0.03	0.000	0.000
462		26E37	322.88	8.00	110.00	0.01	0.06	0.00	0.00
463		26E5F	429.99	12.00	120.00	-0.02	0.05	0.000	0.00
464		26E69	551.59	8.00	110.00	0.00	0.00	0.00	0.00
465		26E875	519.46	12.00	120.00	0.83	1.64	0.56	1.07

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
466		26E87D	490.82	12.00	120.00	-0.000000	0.00000	0.00	0.00
467		26E884	406.32	10.00	115.00	0.00	0.00	0.00	0.00
468		26E9F7	855.81	12.00	120.00	0.00	0.00	0.00	0.00
469		26F9E	898.15	6.00	100.00	-0.04	0.28	0.11	0.13
470		26FA4	499.38	6.00	100.00	-0.03	0.22	0.04	0.08
471		27	23.75	16.00	125.00	1.36	1.51	0.01	0.60
472		2705	79.78	12.00	120.00	0.03	0.05	0.000	0.00
473		2707	677.36	8.00	110.00	-0.00	0.02	0.000	0.000
474		271	36.79	12.00	120.00	-0.69	1.37	0.03	0.76
475		2713	1,961.71	16.00	125.00	-0.19	0.21	0.03	0.02
476		273	31.77	24.00	130.00	0.000000	0.00	0.00	0.00
477		2731	159.27	12.00	120.00	-0.46	0.90	0.06	0.35
478		2735	1,261.00	24.00	130.00	-1.18	0.58	0.08	0.06
479		2736A	157.35	6.00	100.00	0.000000	0.0000	0.00	0.00
480		273F5	270.00	6.00	100.00	0.02	0.14	0.01	0.04
481		2741E	1,288.00	16.00	125.00	0.86	0.96	0.33	0.26
482		27421	1,507.88	16.00	125.00	0.69	0.77	0.26	0.17
483		27427	324.92	12.00	120.00	0.13	0.25	0.01	0.03
484		27433	30.02	8.00	110.00	-0.17	0.74	0.01	0.46
485		27436	196.73	8.00	110.00	0.04	0.19	0.01	0.04
486		2744B	52.58	8.00	110.00	-0.06	0.27	0.00	0.07
487		27457	580.53	6.00	100.00	-0.01	0.09	0.01	0.02
488		2745D	548.87	6.00	100.00	-0.02	0.14	0.02	0.04
489		2746C	991.27	6.00	100.00	0.01	0.05	0.01	0.01
490		2753	204.20	16.00	120.00	-0.000000	0.000000	0.00	0.00
491		275D7	132.04	6.00	100.00	0.04	0.34	0.02	0.18
492		2764AB	774.63	6.00	100.00	0.03	0.22	0.07	0.08
493		2764D2	169.44	6.00	100.00	0.03	0.21	0.01	0.08
494		2764E1	236.81	6.00	100.00	0.14	1.07	0.36	1.52
495		2764F3	291.81	6.00	100.00	-0.03	0.23	0.03	0.09
496		276517	378.95	6.00	100.00	0.05	0.36	0.08	0.21

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
497		276520	278.52	6.00	100.00	0.10	0.80	0.25	0.89
498		276538	563.88	8.00	110.00	-0.12	0.54	0.15	0.26
499		276550	720.87	6.00	100.00	-0.03	0.23	0.07	0.09
500		276568	765.01	8.00	110.00	-0.06	0.26	0.05	0.07
501		27657A	254.00	8.00	110.00	-0.01	0.04	0.000	0.00
502		27657D	179.12	6.00	100.00	0.00	0.00	0.00	0.00
503		2765BC	820.22	6.00	100.00	-0.03	0.22	0.06	0.08
504		2765FB	108.55	6.00	100.00	0.00	0.00	0.00	0.00
505		276604	202.45	8.00	110.00	-0.02	0.09	0.00	0.01
506		276610	419.79	8.00	110.00	0.00	0.00	0.00	0.00
507		27662E	535.00	8.00	110.00	-0.02	0.09	0.00	0.01
508		27664F	1,185.94	8.00	110.00	-0.02	0.08	0.01	0.01
509		27665E	913.79	8.00	110.00	-0.04	0.17	0.03	0.03
510		27669A	994.40	6.00	100.00	0.02	0.18	0.05	0.05
511		2766E8	618.66	8.00	110.00	0.17	0.75	0.29	0.47
512		2766EB	952.72	6.00	100.00	0.07	0.54	0.40	0.42
513		2766FA	262.66	8.00	110.00	0.20	0.87	0.16	0.61
514		276712	1,585.87	8.00	110.00	0.04	0.19	0.06	0.04
515		276721	273.32	6.00	100.00	-0.09	0.70	0.19	0.69
516		276727	216.45	6.00	100.00	0.00	0.00	0.00	0.00
517		276739	374.74	6.00	100.00	-0.06	0.49	0.13	0.35
518		27675D	285.00	8.00	110.00	0.07	0.32	0.03	0.10
519		276769	658.86	8.00	110.00	-0.01	0.02	0.000	0.000
520		27676F	632.67	6.00	100.00	-0.01	0.11	0.01	0.02
521		276775	349.94	6.00	100.00	0.02	0.13	0.01	0.03
522		2767A8	1,054.73	6.00	100.00	-0.04	0.30	0.15	0.14
523		2767B1	189.00	8.00	110.00	-0.00	0.01	0.00	0.00
524		2767ED	144.31	6.00	100.00	-0.000000	0.0000	0.00	0.00
525		276802	141.57	6.00	100.00	-0.03	0.21	0.01	0.08
526		27680B	134.82	6.00	100.00	-0.09	0.69	0.09	0.68
527		276829	82.98	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
528		276841	304.43	8.00	110.00	-0.03	0.12	0.01	0.02
529		276850	532.25	8.00	110.00	0.03	0.12	0.01	0.02
530		27685C	300.09	8.00	110.00	0.02	0.11	0.00	0.01
531		276880	1,155.55	8.00	110.00	0.03	0.13	0.02	0.02
532		276883	1,362.49	8.00	110.00	0.01	0.05	0.00	0.00
533		2768D7	974.11	6.00	100.00	-0.03	0.23	0.08	0.09
534		276F08	634.33	6.00	100.00	-0.02	0.19	0.04	0.06
535		276F4D	1,006.04	8.00	110.00	-0.03	0.14	0.02	0.02
536		276F53	470.83	8.00	110.00	0.00	0.00	0.00	0.00
537		276F59	747.25	8.00	110.00	-0.29	1.29	0.97	1.29
538		276F62	600.77	8.00	110.00	0.00	0.00	0.00	0.00
539		276F68	760.71	6.00	100.00	-0.01	0.06	0.01	0.01
540		276F93	674.67	8.00	110.00	-0.00	0.01	0.000	0.000
541		276FAE	280.00	6.00	100.00	-0.07	0.52	0.11	0.40
542		276FC6	216.05	6.00	100.00	0.00	0.00	0.00	0.00
543		276FDB	582.62	8.00	110.00	0.01	0.03	0.000	0.00
544		277002	270.00	8.00	110.00	-0.12	0.54	0.07	0.25
545		27700E	593.82	8.00	110.00	0.05	0.22	0.03	0.05
546		277011	246.13	6.00	100.00	-0.05	0.40	0.06	0.24
547		277044	462.30	8.00	110.00	0.09	0.40	0.07	0.15
548		27704A	1,495.40	8.00	110.00	-0.10	0.45	0.27	0.18
549		27705C	921.23	6.00	100.00	0.02	0.15	0.04	0.04
550		277062	355.77	8.00	110.00	-0.03	0.12	0.01	0.02
551		277065	1,609.81	6.00	100.00	-0.01	0.11	0.04	0.02
552		277068	295.25	8.00	110.00	0.00	0.00	0.00	0.00
553		277217	6.28	16.00	125.00	0.32	0.36	0.000	0.06
554		277DD	175.08	6.00	100.00	0.01	0.05	0.00	0.01
555		277E0	122.42	6.00	100.00	-0.06	0.48	0.04	0.35
556		277F8	583.49	6.00	100.00	-0.01	0.07	0.01	0.01
557		27822	198.49	6.00	100.00	-0.06	0.44	0.06	0.29
558		27825	123.25	6.00	100.00	-0.07	0.58	0.06	0.48

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
559		2782E	326.93	6.00	100.00	0.01	0.07	0.00	0.01
560		27834	219.00	6.00	100.00	0.00	0.00	0.00	0.00
561		2783D	175.00	6.00	100.00	0.05	0.42	0.05	0.27
562		27847	1,128.84	6.00	100.00	-0.02	0.14	0.04	0.04
563		2784D	205.82	6.00	100.00	0.02	0.14	0.01	0.04
564		2786E	186.68	8.00	110.00	0.01	0.03	0.000	0.00
565		27874	394.19	8.00	110.00	0.05	0.21	0.02	0.04
566		27883	432.58	12.00	120.00	-0.14	0.27	0.02	0.04
567		278A7	405.99	12.00	120.00	-0.06	0.11	0.00	0.01
568		278DB	52.77	16.00	125.00	-0.86	0.96	0.01	0.26
569		278E8	807.94	16.00	125.00	-1.14	1.26	0.35	0.43
570		278FE	48.00	16.00	125.00	-0.34	0.38	0.00	0.05
571		27904	1,024.19	16.00	125.00	-0.61	0.67	0.14	0.14
572		2790D	245.82	16.00	125.00	0.19	0.21	0.00	0.02
573		2797F	270.24	16.00	125.00	0.07	0.08	0.000	0.00
574		27988	124.00	6.00	100.00	-0.000000	0.0000	0.00	0.00
575		279889	210.25	6.00	100.00	0.09	0.69	0.14	0.68
576		2798B	300.00	8.00	110.00	0.03	0.12	0.00	0.02
577		2798E	254.00	8.00	110.00	-0.03	0.12	0.00	0.02
578		27991	135.00	6.00	100.00	0.00	0.00	0.00	0.00
579		27994	300.00	8.00	110.00	0.00	0.00	0.00	0.00
580		27997	270.00	8.00	110.00	0.10	0.46	0.05	0.19
581		2799A	193.00	8.00	110.00	0.00	0.00	0.00	0.00
582		2799D	134.00	6.00	100.00	0.00	0.00	0.00	0.00
583		279A0	132.50	6.00	100.00	0.00	0.00	0.00	0.00
584		279A3	270.00	8.00	110.00	0.08	0.34	0.03	0.11
585		279A6	720.73	6.00	100.00	0.09	0.74	0.55	0.76
586		279AC	244.00	8.00	110.00	0.07	0.29	0.02	0.08
587		279AF	270.00	8.00	110.00	0.12	0.51	0.06	0.23
588		279B2	771.86	6.00	100.00	0.06	0.50	0.29	0.37
589		279B5	802.96	6.00	100.00	-0.03	0.24	0.07	0.09

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
590		279BB	158.00	6.00	100.00	0.00	0.00	0.00	0.00
591		279C7	126.98	6.00	100.00	0.000000	0.0000	0.00	0.00
592		279CA	307.00	6.00	100.00	-0.01	0.10	0.01	0.02
593		279CD	464.86	8.00	110.00	0.20	0.88	0.30	0.64
594		27A3E	270.00	6.00	100.00	-0.01	0.10	0.01	0.02
595		27A6F	270.00	8.00	110.00	0.19	0.82	0.15	0.56
596		27BF43	236.44	8.00	110.00	-0.23	1.02	0.20	0.84
597		27F42	151.90	6.00	100.00	0.00	0.00	0.00	0.00
598		27F48	270.00	6.00	100.00	0.02	0.16	0.01	0.05
599		27F4B	303.10	6.00	100.00	-0.05	0.38	0.07	0.22
600		27F4E	156.23	6.00	100.00	0.00	0.00	0.00	0.00
601		27F57	270.00	16.00	125.00	0.28	0.31	0.01	0.03
602		27F5A	270.00	16.00	125.00	0.30	0.34	0.01	0.04
603		27F5D	270.00	16.00	125.00	0.42	0.47	0.02	0.07
604		27F60	568.59	8.00	110.00	0.00	0.00	0.00	0.00
605		27F63	223.00	8.00	110.00	0.00	0.00	0.00	0.00
606		27F66	172.61	8.00	110.00	0.09	0.41	0.03	0.15
607		27F69	116.39	6.00	100.00	0.00	0.00	0.00	0.00
608		27F75	134.41	6.00	100.00	0.00	0.00	0.00	0.00
609		27F78	346.00	8.00	110.00	-0.03	0.12	0.01	0.02
610		27F7E	135.00	6.00	100.00	0.09	0.73	0.10	0.75
611		27F81	270.00	16.00	125.00	-0.57	0.63	0.03	0.12
612		27F87	118.18	6.00	100.00	-0.000000	0.0000	0.00	0.00
613		27F8D	272.02	8.00	110.00	0.03	0.12	0.00	0.02
614		27F96	346.00	8.00	110.00	-0.03	0.12	0.01	0.02
615		27F9C	573.98	8.00	110.00	0.00	0.00	0.00	0.00
616		27FA5	134.98	6.00	100.00	0.00	0.00	0.00	0.00
617		27FAB	270.00	8.00	110.00	-0.10	0.45	0.05	0.18
618		27FB1	135.00	6.00	100.00	0.00	0.00	0.00	0.00
619		27FB4	300.00	8.00	110.00	0.16	0.72	0.13	0.44
620		27FB7	300.00	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
621		27FBD	294.00	8.00	110.00	-0.03	0.12	0.00	0.02
622		27FC3	134.00	6.00	100.00	0.000000	0.0000	0.00	0.00
623		27FC6	427.00	8.00	110.00	-0.03	0.12	0.01	0.02
624		27FC9	134.00	6.00	100.00	0.00	0.00	0.00	0.00
625		283	2,637.89	24.00	125.00	-0.72	0.36	0.07	0.03
626		2841	208.46	12.00	125.00	0.01	0.02	0.000	0.000
627		2871	657.27	16.00	125.00	0.00	0.00	0.00	0.00
628		2875	557.44	16.00	125.00	0.00	0.00	0.00	0.00
629		2877	138.91	8.00	110.00	-0.02	0.10	0.00	0.01
630		2885F	300.00	8.00	110.00	0.000000	0.00000	0.00	0.00
631		28862	135.00	6.00	100.00	0.000000	0.0000	0.00	0.00
632		28865	270.00	16.00	125.00	0.62	0.69	0.04	0.14
633		28868	270.00	16.00	125.00	0.68	0.75	0.05	0.17
634		2886B	288.30	16.00	125.00	0.79	0.87	0.06	0.22
635		2886E	124.70	16.00	125.00	0.79	0.87	0.03	0.22
636		2887A	480.57	8.00	110.00	0.00	0.00	0.00	0.00
637		2887D	468.77	8.00	110.00	-0.03	0.12	0.01	0.02
638		28880	408.23	8.00	110.00	0.000000	0.00000	0.00	0.00
639		28883	964.73	6.00	100.00	0.08	0.65	0.59	0.61
640		2888C	471.48	8.00	110.00	0.00	0.00	0.00	0.00
641		28892	571.78	16.00	125.00	0.00	0.00	0.00	0.00
642		2889B	287.80	8.00	110.00	-0.13	0.56	0.08	0.28
643		2889E	270.50	8.00	110.00	-0.16	0.69	0.11	0.41
644		288A1	423.50	8.00	110.00	0.03	0.12	0.01	0.02
645		288B0	210.20	8.00	110.00	-0.12	0.53	0.05	0.25
646		288B3	178.10	8.00	110.00	-0.09	0.40	0.03	0.15
647		288BF	172.00	6.00	100.00	0.01	0.05	0.00	0.01
648		288C8	433.00	8.00	110.00	0.00	0.00	0.00	0.00
649		288CB	435.00	8.00	110.00	0.00	0.00	0.00	0.00
650		288D1	1,201.87	8.00	110.00	-0.06	0.25	0.08	0.06
651		288D4	388.30	6.00	100.00	0.02	0.16	0.02	0.05

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
652		288DA	928.30	6.00	100.00	-0.01	0.10	0.02	0.02
653		288E3	172.00	6.00	100.00	-0.06	0.48	0.06	0.35
654		29	17.99	4.00	90.00	0.00	0.00	0.00	0.00
655		29007	499.86	16.00	125.00	0.15	0.17	0.01	0.01
656		2901C	288.30	16.00	125.00	0.84	0.93	0.07	0.25
657		2901F	179.15	16.00	125.00	0.81	0.90	0.04	0.23
658		29022	270.00	16.00	125.00	0.96	1.06	0.09	0.32
659		29025	277.11	16.00	125.00	-1.06	1.18	0.11	0.38
660		29031	468.00	8.00	110.00	-0.03	0.12	0.01	0.02
661		29037	474.00	8.00	110.00	-0.03	0.12	0.01	0.02
662		2903A	474.00	8.00	110.00	-0.03	0.12	0.01	0.02
663		29040	288.28	8.00	110.00	-0.15	0.67	0.11	0.38
664		29043	270.02	8.00	110.00	-0.09	0.40	0.04	0.15
665		29046	272.28	8.00	110.00	-0.17	0.76	0.13	0.49
666		29052	434.00	8.00	110.00	0.00	0.00	0.00	0.00
667		29058	435.00	8.00	110.00	0.03	0.12	0.01	0.02
668		2905E	414.00	8.00	110.00	-0.03	0.12	0.01	0.02
669		29064	405.00	8.00	110.00	0.05	0.22	0.02	0.05
670		29070	579.15	6.00	100.00	0.09	0.70	0.40	0.69
671		2909	4,442.11	16.00	120.00	-3.40	3.77	15.80	3.56
672		2915	138.44	24.00	120.00	0.00000	0.000000	0.00	0.00
673		29589	271.57	16.00	125.00	-1.16	1.29	0.12	0.45
674		2958C	282.17	16.00	125.00	1.27	1.41	0.15	0.53
675		2958F	294.32	16.00	125.00	-1.39	1.54	0.19	0.63
676		295A4	965.48	6.00	100.00	0.08	0.64	0.56	0.58
677		295AD	373.68	8.00	110.00	0.00	0.00	0.00	0.00
678		295B0	666.11	8.00	110.00	-0.08	0.36	0.08	0.12
679		295B3	812.06	8.00	110.00	0.01	0.06	0.00	0.00
680		295C2	270.00	8.00	110.00	-0.20	0.88	0.17	0.64
681		295CB	448.18	8.00	110.00	0.03	0.12	0.01	0.02
682		295D4	399.83	8.00	110.00	-0.03	0.12	0.01	0.02

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
683		295DD	432.82	8.00	110.00	0.00	0.00	0.00	0.00
684		295E0	434.84	8.00	110.00	0.03	0.12	0.01	0.02
685		29666	1,011.33	6.00	100.00	0.08	0.63	0.57	0.56
686		296725	531.86	8.00	110.00	0.20	0.90	0.35	0.66
687		296747	236.10	8.00	110.00	-0.12	0.53	0.06	0.25
688		296749	436.50	8.00	110.00	0.00	0.00	0.00	0.00
689		29679D	111.33	6.00	100.00	0.00	0.00	0.00	0.00
690		2967AF	253.94	8.00	110.00	-0.12	0.53	0.06	0.25
691		2967C0	124.94	8.00	110.00	-0.12	0.53	0.03	0.25
692		2967DC	530.10	8.00	110.00	-0.12	0.53	0.13	0.25
693		298025	819.21	8.00	110.00	-0.02	0.11	0.01	0.01
694		29CCA	270.49	8.00	110.00	-0.15	0.64	0.10	0.36
695		29CD6	745.78	16.00	125.00	-1.64	1.82	0.64	0.86
696		29CE2	284.41	16.00	125.00	-1.47	1.63	0.20	0.70
697		29CF1	368.77	8.00	110.00	0.03	0.12	0.01	0.02
698		29CF4	155.03	6.00	100.00	-0.03	0.21	0.01	0.08
699		29CFA	303.54	6.00	100.00	0.03	0.20	0.02	0.07
700		29CFD	155.00	6.00	100.00	0.00	0.00	0.00	0.00
701		29D00	809.70	6.00	100.00	-0.08	0.63	0.46	0.57
702		29D0C	271.97	6.00	100.00	-0.08	0.63	0.16	0.57
703		29D0F	10.00	16.00	125.00	-1.72	1.91	0.01	0.94
704		29D15	168.00	16.00	125.00	-1.83	2.03	0.18	1.04
705		29D1B	34.00	16.00	125.00	-1.76	1.95	0.03	0.98
706		29D24	982.96	8.00	110.00	0.17	0.76	0.47	0.48
707		29D3C	321.81	8.00	110.00	-0.25	1.10	0.31	0.95
708		29D5A	411.28	8.00	110.00	-0.03	0.12	0.01	0.02
709		29D63	236.44	6.00	100.00	-0.10	0.81	0.22	0.92
710		29D69	136.37	6.00	100.00	0.00	0.00	0.00	0.00
711		29D6C	280.00	6.00	100.00	-0.10	0.81	0.26	0.91
712		29D72	129.26	6.00	100.00	0.00	0.00	0.00	0.00
713		29D75	712.53	6.00	100.00	0.10	0.81	0.65	0.92

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
714		29DA9	497.74	8.00	110.00	-0.03	0.12	0.01	0.02
715		29F2B7	1,387.88	24.00	130.00	-0.72	0.36	0.03	0.02
716		29F730	1,171.78	12.00	120.00	0.000000	0.00000	0.00	0.00
717		2A05E1	126.00	4.00	90.00	0.00	0.00	0.00	0.00
718		2A05E3	145.02	8.00	110.00	-0.12	0.53	0.04	0.25
719		2A1F21	54.09	6.00	100.00	0.02	0.12	0.00	0.02
720		2A1F2D	270.71	8.00	110.00	-0.02	0.07	0.00	0.01
721		2A1F43	453.16	24.00	130.00	0.89	0.44	0.02	0.04
722		2A2018	328.62	6.00	100.00	-0.02	0.12	0.01	0.03
723		2A2031	134.17	6.00	100.00	-0.02	0.12	0.00	0.03
724		2A2052	189.13	4.00	90.00	0.000000	0.0000	0.00	0.00
725		2A465	270.00	8.00	110.00	-0.30	1.35	0.38	1.39
726		2A48A	188.48	8.00	110.00	0.35	1.55	0.34	1.80
727		2A48D	87.85	8.00	110.00	-0.33	1.44	0.14	1.59
728		2A490	270.00	8.00	110.00	-0.22	0.97	0.21	0.77
729		2A496	375.00	8.00	110.00	0.21	0.94	0.27	0.72
730		2A4DE	367.00	8.00	110.00	0.00	0.00	0.00	0.00
731		2A605	463.00	8.00	110.00	-0.03	0.12	0.01	0.02
732		2A63B2	973.67	6.00	100.00	0.08	0.60	0.51	0.52
733		2A750	1,067.20	8.00	110.00	-0.00	0.02	0.000	0.000
734		2A782	270.00	6.00	100.00	0.07	0.58	0.13	0.50
735		2A7B3	366.64	8.00	110.00	0.00	0.00	0.00	0.00
736		2A800	321.58	8.00	110.00	-0.05	0.21	0.01	0.04
737		2A894	270.00	8.00	110.00	-0.08	0.36	0.03	0.12
738		2A8BA	64.36	8.00	110.00	0.11	0.50	0.01	0.22
739		2A8BD	222.90	8.00	110.00	-0.13	0.60	0.07	0.31
740		2A8C0	93.05	8.00	110.00	-0.13	0.60	0.03	0.31
741		2A8C6	270.00	8.00	110.00	-0.10	0.46	0.05	0.19
742		2AA1E	168.70	8.00	110.00	0.00	0.00	0.00	0.00
743		2AA78	270.00	6.00	100.00	-0.03	0.24	0.03	0.09
744		2AB59	165.10	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
745		2AC7A	270.00	6.00	100.00	-0.03	0.24	0.03	0.09
746		2AE8F	387.00	8.00	110.00	0.13	0.56	0.11	0.28
747		2AE92	387.00	8.00	110.00	-0.07	0.32	0.04	0.10
748		2AE95	321.77	8.00	110.00	0.10	0.45	0.06	0.18
749		2AEAD	355.00	8.00	110.00	0.00	0.00	0.00	0.00
750		2AEC0	530.78	8.00	110.00	-0.03	0.12	0.01	0.02
751		2AECC	354.64	8.00	110.00	0.000000	0.00000	0.00	0.00
752		2B18E	325.33	8.00	110.00	0.06	0.25	0.02	0.06
753		2B191	325.33	8.00	110.00	-0.03	0.13	0.01	0.02
754		2B194	387.01	8.00	110.00	0.03	0.13	0.01	0.02
755		2B1A0	468.29	8.00	110.00	0.00	0.00	0.00	0.00
756		2B1A3	387.01	8.00	110.00	-0.00	0.01	0.000	0.000
757		2B1B8	186.00	6.00	100.00	0.00	0.00	0.00	0.00
758		2B1BF	484.89	8.00	110.00	0.00	0.00	0.00	0.00
759		2B1C8	202.00	6.00	100.00	0.00	0.00	0.00	0.00
760		2B1CB	532.25	8.00	110.00	-0.000000	0.00000	0.00	0.00
761		2B1D1	352.13	8.00	110.00	0.00	0.00	0.00	0.00
762		2B1D7	365.88	8.00	110.00	0.000000	0.00000	0.00	0.00
763		2B1E7	545.78	8.00	110.00	0.00	0.00	0.00	0.00
764		2B21C	55.11	24.00	130.00	-0.67	0.33	0.00	0.02
765		2B22B	434.00	24.00	130.00	0.25	0.13	0.00	0.00
766		2B22E	41.38	24.00	130.00	0.25	0.13	0.000	0.00
767		2B231	175.20	24.00	130.00	0.25	0.13	0.000	0.00
768		2B234	452.24	24.00	130.00	-0.25	0.13	0.00	0.00
769		2B23A	86.92	16.00	125.00	-0.00000	0.00000	0.00	0.00
770		2B246	84.45	16.00	125.00	-0.17	0.19	0.00	0.01
771		2B24C	665.49	16.00	125.00	-0.23	0.25	0.01	0.02
772		2B255	30.24	24.00	130.00	-0.92	0.45	0.00	0.04
773		2B25F	59.07	8.00	110.00	-0.04	0.16	0.00	0.03
774		2B2A5	1,254.02	24.00	125.00	0.25	0.13	0.00	0.00
775		2B403	42.91	24.00	130.00	0.34	0.17	0.000	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
776		2B443	643.75	16.00	125.00	-0.21	0.23	0.01	0.02
777		2B46F	635.12	16.00	125.00	-0.35	0.39	0.03	0.05
778		2B49C	274.61	16.00	125.00	-0.37	0.40	0.01	0.05
779		2B4AE	664.97	16.00	125.00	-0.22	0.25	0.01	0.02
780		2B4BD	688.18	16.00	125.00	-0.27	0.29	0.02	0.03
781		2B539	172.00	8.00	110.00	0.16	0.70	0.07	0.42
782		2B5CF	191.25	8.00	110.00	-0.14	0.63	0.06	0.34
783		2B5D2	169.61	8.00	110.00	0.11	0.49	0.04	0.22
784		2B5EF	838.75	24.00	130.00	0.39	0.19	0.01	0.01
785		2B624	169.50	8.00	110.00	0.18	0.78	0.09	0.50
786		2B627	188.50	8.00	110.00	-0.15	0.66	0.07	0.37
787		2B62A	699.51	24.00	130.00	0.07	0.03	0.000	0.000
788		2B64A	154.00	6.00	100.00	-0.000000	0.0000	0.00	0.00
789		2B6A2	861.44	24.00	130.00	-0.46	0.23	0.01	0.01
790		2B6A5	499.12	24.00	130.00	-0.70	0.35	0.01	0.02
791		2B6CA	70.00	8.00	110.00	-0.17	0.75	0.03	0.47
792		2B7B6	549.03	6.00	100.00	-0.08	0.65	0.33	0.61
793		2B7CE	546.66	6.00	100.00	-0.09	0.68	0.35	0.65
794		2B7D4	116.87	8.00	110.00	-0.17	0.75	0.05	0.47
795		2B7E9	439.20	6.00	100.00	0.01	0.10	0.01	0.02
796		2B7EC	611.00	6.00	100.00	-0.02	0.15	0.02	0.04
797		2BB61	440.00	6.00	100.00	-0.02	0.17	0.02	0.05
798		2BBA9	881.20	6.00	100.00	-0.02	0.18	0.05	0.06
799		2BBBB	269.20	6.00	100.00	0.01	0.11	0.01	0.02
800		2BBF9	269.20	6.00	100.00	-0.03	0.25	0.03	0.10
801		2BC66	170.00	6.00	100.00	-0.01	0.10	0.00	0.02
802		2BC6C	269.20	6.00	100.00	0.02	0.14	0.01	0.04
803		2BC6F	1,169.11	6.00	100.00	-0.04	0.33	0.20	0.17
804		2BC7E	679.58	6.00	100.00	-0.03	0.23	0.06	0.09
805		2BC8B	186.00	8.00	110.00	-0.24	1.06	0.17	0.89
806		2BC91	890.79	6.00	100.00	-0.06	0.46	0.28	0.31

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
807		2BC97	352.83	8.00	110.00	0.05	0.22	0.02	0.05
808		2BC9D	306.84	8.00	110.00	0.07	0.33	0.03	0.10
809		2BCA0	561.79	6.00	100.00	-0.02	0.18	0.03	0.06
810		2BCAC	257.83	8.00	110.00	0.12	0.55	0.07	0.27
811		2C1AC	270.00	8.00	110.00	-0.00	0.02	0.000	0.000
812		2C1B2	611.34	8.00	110.00	-0.01	0.06	0.00	0.00
813		2C1C4	625.84	6.00	100.00	-0.03	0.21	0.04	0.07
814		2C1CE	233.43	6.00	100.00	-0.02	0.18	0.01	0.06
815		2C1D7	426.47	6.00	100.00	0.04	0.29	0.06	0.14
816		2C1EF	359.78	6.00	100.00	-0.03	0.25	0.04	0.10
817		2C210	1,281.51	6.00	100.00	0.03	0.23	0.11	0.09
818		2C21D	171.13	8.00	110.00	0.05	0.22	0.01	0.05
819		2C220	458.68	8.00	110.00	-0.03	0.12	0.01	0.02
820		2C223	421.81	8.00	110.00	0.00	0.00	0.00	0.00
821		2C5DE	172.27	6.00	100.00	0.06	0.47	0.06	0.34
822		2C91E	448.59	8.00	110.00	0.10	0.44	0.08	0.17
823		2C924	1,006.35	6.00	100.00	-0.02	0.14	0.03	0.03
824		2C930	270.00	6.00	100.00	-0.00	0.02	0.000	0.00
825		2C937	270.00	6.00	100.00	0.04	0.28	0.04	0.13
826		2C95A	233.50	6.00	100.00	-0.03	0.23	0.02	0.09
827		2C9A6	192.22	24.00	130.00	0.07	0.03	0.00	0.00
828		2C9BB	539.49	24.00	130.00	0.06	0.03	0.000	0.000
829		2CA1B2	258.04	24.00	130.00	-7.53	3.71	0.48	1.86
830		2CA973	226.96	8.00	110.00	0.00	0.00	0.00	0.00
831		2CB3FA	421.53	6.00	100.00	-0.00	0.03	0.000	0.00
832		2CB8D3	125.99	8.00	110.00	-0.24	1.06	0.11	0.90
833		2CB8F9	104.23	8.00	110.00	0.000000	0.00000	0.00	0.00
834		2CB914	235.07	16.00	125.00	-1.95	2.16	0.28	1.18
835		2CB948	64.35	16.00	125.00	-1.95	2.16	0.08	1.17
836		2CBC81	1,113.29	8.00	110.00	0.01	0.03	0.00	0.000
837		2CBD09	634.18	6.00	100.00	-0.00	0.02	0.000	0.000

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
838		2CBD11	105.46	6.00	100.00	-0.000000	0.0000	0.00	0.00
839		2CBD4F	111.98	8.00	110.00	0.01	0.03	0.000	0.00
840		2CBD58	232.27	6.00	100.00	-0.00	0.02	0.000	0.00
841		2CD1B1	10.30	8.00	110.00	-0.09	0.41	0.00	0.17
842		2CD1C1	648.01	8.00	110.00	0.09	0.42	0.10	0.16
843		2CD1F7	136.78	8.00	110.00	0.07	0.30	0.01	0.09
844		2CD1FC	506.58	8.00	110.00	0.04	0.18	0.02	0.03
845		2CD20E	257.67	8.00	110.00	0.00	0.00	0.00	0.00
846		2CD24C	136.11	8.00	110.00	-0.000000	0.00000	0.00	0.00
847		2CD24F	134.37	8.00	110.00	-0.00000	0.0000	0.00	0.00
848		2CD253	143.00	8.00	110.00	0.000000	0.00000	0.00	0.00
849		2CD25A	127.00	6.00	100.00	0.000000	0.0000	0.00	0.00
850		2CD289	290.92	8.00	110.00	0.01	0.03	0.000	0.000
851		2CD29F	276.82	8.00	110.00	-0.08	0.33	0.03	0.10
852		2CD2AD	891.63	8.00	110.00	-0.08	0.33	0.09	0.11
853		2E38D7	320.55	8.00	110.00	0.02	0.09	0.00	0.01
854		2E38D8	194.00	8.00	110.00	0.02	0.09	0.00	0.01
855		2E3933	495.00	8.00	110.00	0.01	0.05	0.00	0.00
856		2E393C	23.97	8.00	110.00	0.02	0.09	0.000	0.01
857		2E393E	15.46	8.00	110.00	0.02	0.09	0.000	0.01
858		2E395C	1,008.55	8.00	110.00	-0.01	0.04	0.00	0.00
859		2E3B78	296.22	8.00	110.00	-0.07	0.32	0.03	0.10
860		2E3B7B	577.96	8.00	110.00	0.08	0.34	0.06	0.11
861		2E3B8F	762.72	8.00	110.00	0.03	0.14	0.02	0.02
862		2E3B97	667.67	8.00	110.00	-0.04	0.17	0.02	0.03
863		2E3B9B	156.70	8.00	110.00	-0.02	0.09	0.00	0.01
864		2E3BA7	118.59	8.00	110.00	0.07	0.32	0.01	0.10
865		2E3BAD	191.24	8.00	110.00	0.03	0.14	0.00	0.02
866		2E3BB4	114.08	6.00	100.00	0.000000	0.0000	0.00	0.00
867		2E5A7D	742.94	16.00	125.00	-0.03	0.04	0.000	0.000
868		2E5AAB	132.08	12.00	120.00	0.03	0.07	0.000	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
869		2E5AC0	441.24	12.00	120.00	0.03	0.06	0.000	0.00
870		2E5AD5	710.41	12.00	120.00	-0.01	0.01	0.00	0.00
871		2E5B32	1,387.26	12.00	120.00	0.03	0.07	0.00	0.00
872		2E6813	184.70	6.00	100.00	0.00	0.00	0.00	0.00
873		2E6E6D	132.33	8.00	110.00	0.00	0.00	0.00	0.00
874		2E7AB	37.00	12.00	120.00	0.000000	0.00000	0.00	0.00
875		2E7B4	2,669.51	16.00	125.00	-1.43	1.59	1.78	0.67
876		2E7C0	374.03	16.00	125.00	2.10	2.33	0.51	1.36
877		2E7C3	331.32	16.00	125.00	-2.71	3.01	0.72	2.17
878		2E7D2	169.58	16.00	125.00	-2.71	3.01	0.37	2.17
879		2E7DB	3,702.98	16.00	125.00	-2.71	3.01	8.03	2.17
880		2E7EA	1,531.18	16.00	125.00	-2.10	2.33	2.08	1.36
881		2E8AD	2,672.99	16.00	125.00	-2.71	3.01	5.80	2.17
882		2E9EA	126.00	8.00	110.00	0.00	0.00	0.00	0.00
883		2EA1D	862.50	16.00	125.00	-0.49	0.55	0.08	0.09
884		2EA20	376.86	16.00	125.00	-0.49	0.55	0.03	0.09
885		2EA4C1	1,504.02	16.00	125.00	0.81	0.90	0.35	0.23
886		2EAA7	116.00	8.00	110.00	0.00	0.00	0.00	0.00
887		2EAF3	898.97	16.00	125.00	-2.62	2.90	1.82	2.03
888		2EAFF	115.50	8.00	110.00	0.00	0.00	0.00	0.00
889		2EB05	855.10	16.00	125.00	2.62	2.90	1.73	2.03
890		2EB0E	1,395.38	16.00	125.00	-0.49	0.55	0.13	0.09
891		2EB1D	218.42	8.00	110.00	0.000000	0.00000	0.00	0.00
892		2EB25	100.00	8.00	110.00	0.00	0.00	0.00	0.00
893		2EB3C	135.95	8.00	110.00	-0.03	0.11	0.00	0.01
894		2EB93	148.43	8.00	110.00	-0.12	0.53	0.04	0.25
895		2EBA4	45.60	8.00	110.00	0.12	0.53	0.01	0.25
896		2EBD0	388.34	8.00	110.00	0.02	0.10	0.00	0.01
897		2EBD3	766.16	8.00	110.00	0.07	0.32	0.08	0.10
898		2EBE3	963.42	8.00	110.00	0.01	0.04	0.00	0.00
899		2EC57	996.03	8.00	110.00	0.14	0.62	0.33	0.33

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
900	2ECC6	971.10	8.00	110.00	0.06	0.25	0.06	0.06
901	2ED1A	53.01	8.00	110.00	-0.06	0.25	0.00	0.06
902	2ED26	122.01	8.00	110.00	0.00	0.00	0.00	0.00
903	2ED65	58.93	6.00	100.00	0.04	0.28	0.01	0.13
904	2ED74	1,651.96	6.00	100.00	0.03	0.22	0.13	0.08
905	2ED82	59.60	8.00	110.00	0.01	0.04	0.000	0.00
906	2ED8E	2,931.26	6.00	100.00	0.00	0.00	0.00	0.00
907	2EE56	214.01	8.00	110.00	0.00	0.01	0.00	0.00
908	2EE71	222.00	8.00	110.00	-0.05	0.24	0.01	0.06
909	2EE74	264.00	8.00	110.00	-0.12	0.51	0.06	0.23
910	2EE77	120.98	8.00	110.00	-0.30	1.33	0.17	1.37
911	2EE7D	960.51	6.00	100.00	0.02	0.13	0.03	0.03
912	2EE8B	329.24	4.00	90.00	0.03	0.48	0.22	0.68
913	2EE8E	289.00	4.00	90.00	-0.03	0.48	0.20	0.68
914	2EE91	854.94	6.00	100.00	-0.02	0.18	0.05	0.06
915	2EE94	245.00	6.00	100.00	0.03	0.25	0.03	0.11
916	2EE97	54.00	6.00	100.00	-0.00	0.02	0.00	0.00
917	2EEA3	546.69	8.00	110.00	0.01	0.04	0.00	0.00
918	2EEA6	849.95	6.00	100.00	-0.00	0.01	0.000	0.000
919	2EEA9	853.19	4.00	90.00	0.01	0.13	0.05	0.06
920	2EEAF	339.16	6.00	100.00	0.08	0.63	0.20	0.58
921	2EEB2	216.00	6.00	100.00	0.08	0.61	0.12	0.54
922	2EEBA	103.79	8.00	110.00	-0.11	0.48	0.02	0.20
923	2EEBD	244.97	8.00	110.00	0.11	0.47	0.05	0.20
924	2EEC0	154.00	6.00	100.00	0.03	0.21	0.01	0.08
925	2EEF87	326.15	12.00	120.00	-0.45	0.89	0.11	0.34
926	2EEFB7	650.36	6.00	100.00	-0.03	0.25	0.07	0.11
927	2EEFE9	187.00	6.00	100.00	-0.03	0.25	0.02	0.11
928	2EEFF5	435.54	12.00	120.00	-0.42	0.82	0.13	0.30
929	2EEFF8	639.76	12.00	120.00	-0.38	0.75	0.16	0.25
930	2EEFF9	287.20	12.00	120.00	-0.41	0.82	0.08	0.29

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
931		2EEFFB	507.73	12.00	120.00	-0.42	0.83	0.15	0.30
932		2EF016	549.70	12.00	120.00	-0.54	1.07	0.26	0.48
933		2EF08F	1,014.27	12.00	120.00	-0.10	0.21	0.02	0.02
934		2EF0A5	179.49	6.00	100.00	-0.10	0.82	0.17	0.93
935		2EF54	253.00	6.00	100.00	0.00	0.04	0.000	0.00
936		2EF72	253.04	8.00	110.00	0.08	0.35	0.03	0.11
937		2EF85	270.01	8.00	110.00	0.06	0.26	0.02	0.07
938		2EFE7	413.27	16.00	125.00	0.01	0.01	0.00	0.00
939		2EFEE	916.36	24.00	130.00	-0.67	0.33	0.02	0.02
940		2EFF1	1,508.15	24.00	130.00	-0.74	0.36	0.04	0.03
941		2F003	89.50	12.00	120.00	-0.07	0.15	0.00	0.01
942		2F009	124.18	8.00	110.00	-0.01	0.06	0.000	0.00
943		2F04E	823.39	8.00	110.00	0.01	0.06	0.00	0.00
944		2F083	1,267.50	8.00	110.00	0.12	0.52	0.30	0.24
945		2F159	443.89	24.00	130.00	-0.48	0.24	0.01	0.01
946		2F1B4	212.46	8.00	110.00	0.01	0.04	0.000	0.00
947		2F1E2	516.62	8.00	110.00	0.01	0.03	0.000	0.00
948		2F201	590.41	24.00	130.00	-0.37	0.18	0.00	0.01
949		2F204	35.14	24.00	130.00	-0.67	0.33	0.000	0.02
950		2F215	759.67	8.00	110.00	0.15	0.66	0.28	0.37
951		2F237	276.39	8.00	110.00	-0.02	0.10	0.00	0.01
952		2F291	547.66	12.00	120.00	-0.46	0.90	0.19	0.35
953		2F2F5	10.00	12.00	120.00	0.46	0.90	0.00	0.35
954		2F376	30.24	16.00	125.00	1.80	1.99	0.03	1.01
955		2F3B2	2,036.38	12.00	120.00	-0.39	0.77	0.53	0.26
956		2F420	687.02	12.00	120.00	-0.000000	0.00000	0.00	0.00
957		2F451	284.71	16.00	125.00	-2.19	2.42	0.41	1.46
958		2F460	1,875.37	16.00	125.00	-2.19	2.42	2.73	1.46
959		2F487	1,886.65	12.00	120.00	-0.39	0.77	0.49	0.26
960		2F549	1,325.65	24.00	130.00	-1.18	0.58	0.08	0.06
961		2F572	13.21	24.00	120.00	-1.18	0.58	0.000	0.07

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
962		2F6C8	260.58	6.00	100.00	0.05	0.40	0.06	0.24
963		2F714	21.00	8.00	110.00	0.03	0.15	0.000	0.02
964		2F721C	247.00	12.00	120.00	0.00	0.00	0.00	0.00
965		2F7DA	204.74	8.00	110.00	-0.07	0.33	0.02	0.10
966		2F7E9	133.73	8.00	110.00	0.05	0.21	0.01	0.04
967		2F841	45.00	8.00	110.00	-0.03	0.15	0.00	0.02
968		2F844	84.08	8.00	110.00	-0.03	0.15	0.00	0.02
969		2F871	219.98	8.00	110.00	0.01	0.03	0.000	0.00
970		2F8A3	1,274.18	6.00	100.00	0.06	0.45	0.39	0.31
971		2F950	37.69	6.00	100.00	0.08	0.63	0.02	0.58
972		2F956	32.15	6.00	100.00	0.07	0.54	0.01	0.44
973		2F95F	1,274.83	6.00	100.00	0.06	0.48	0.44	0.34
974		2FA4D2	390.73	12.00	120.00	0.47	0.93	0.14	0.37
975		2FA4D6	1,322.21	12.00	120.00	0.44	0.86	0.43	0.32
976		2FA4F9	209.66	12.00	120.00	-0.50	0.98	0.09	0.41
977		2FA500	209.85	6.00	100.00	-0.06	0.45	0.07	0.31
978		2FA66A	259.22	6.00	100.00	0.04	0.35	0.05	0.20
979		2FA66D	427.00	6.00	100.00	-0.04	0.35	0.08	0.20
980		2FA66F	319.20	8.00	110.00	0.00	0.00	0.00	0.00
981		2FA67E	305.82	6.00	100.00	-0.04	0.35	0.06	0.20
982		2FA6E4	779.90	6.00	100.00	-0.03	0.22	0.06	0.08
983		2FA701	620.00	6.00	100.00	0.02	0.14	0.02	0.03
984		2FA725	183.71	6.00	100.00	-0.03	0.23	0.02	0.09
985		2FA761	1,506.33	6.00	100.00	-0.05	0.37	0.32	0.21
986		2FA76D	235.64	6.00	100.00	-0.00	0.01	0.000	0.000
987		2FA7A1	1,632.52	6.00	100.00	-0.02	0.14	0.06	0.03
988		2FA96C	386.68	6.00	100.00	-0.06	0.49	0.14	0.36
989		2FA96F	274.53	6.00	100.00	0.04	0.33	0.05	0.17
990		2FA981	1,184.57	6.00	100.00	-0.02	0.12	0.03	0.03
991		2FA99B	137.86	6.00	100.00	-0.02	0.12	0.00	0.03
992		2FA9C9	301.95	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
993	2FA9FA	418.13	6.00	100.00	-0.04	0.33	0.07	0.17
994	2FAA0C	1,028.27	6.00	100.00	-0.02	0.17	0.05	0.05
995	2FAA3D	499.30	6.00	100.00	-0.02	0.16	0.02	0.04
996	2FAA56	679.87	6.00	100.00	-0.02	0.16	0.03	0.04
997	2FAA77	183.63	8.00	110.00	0.00	0.00	0.00	0.00
998	2FABBD	264.94	12.00	120.00	0.08	0.16	0.00	0.02
999	2FABF4	837.97	6.00	100.00	0.02	0.17	0.04	0.05
1000	2FAC0E	202.41	12.00	120.00	0.06	0.12	0.00	0.01
1001	2FAC0F	518.05	12.00	120.00	0.04	0.07	0.00	0.00
1002	2FAC33	510.00	6.00	100.00	0.05	0.43	0.14	0.28
1003	2FAC34	292.98	8.00	110.00	0.09	0.41	0.05	0.15
1004	2FAC3E	279.99	6.00	100.00	0.04	0.28	0.04	0.13
1005	2FAC46	280.01	6.00	100.00	0.06	0.45	0.09	0.31
1006	2FAC8F	949.46	6.00	100.00	-0.04	0.30	0.14	0.15
1007	2FACD2	1,033.29	6.00	100.00	0.04	0.28	0.13	0.13
1008	2FACF0	285.28	6.00	100.00	-0.00	0.02	0.000	0.00
1009	2FACFC	268.69	8.00	110.00	0.00	0.00	0.00	0.00
1010	2FAD01	428.39	6.00	100.00	-0.00	0.02	0.000	0.00
1011	2FAE67	301.44	6.00	100.00	0.01	0.07	0.00	0.01
1012	2FAE8F	280.00	6.00	100.00	-0.02	0.14	0.01	0.04
1013	2FAE90	921.73	6.00	100.00	-0.04	0.28	0.12	0.13
1014	2FAEB0	687.91	6.00	100.00	0.02	0.14	0.03	0.04
1015	2FAEE5	1,041.95	6.00	100.00	-0.02	0.14	0.04	0.03
1016	2FAF2A	1,976.36	6.00	100.00	-0.03	0.21	0.14	0.07
1017	2FB08C	257.43	12.00	120.00	0.12	0.23	0.01	0.03
1018	2FB201	1,097.73	6.00	100.00	-0.03	0.20	0.08	0.07
1019	2FB232	339.04	6.00	100.00	0.00	0.04	0.00	0.00
1020	2FB233	1,057.94	6.00	100.00	0.03	0.24	0.10	0.10
1021	2FB2E3	156.89	6.00	100.00	-0.04	0.28	0.02	0.13
1022	2FB2E8	236.69	6.00	100.00	-0.03	0.21	0.02	0.07
1023	2FB301	392.61	6.00	100.00	-0.04	0.28	0.05	0.13

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1024		2FB328	1,024.33	6.00	100.00	-0.01	0.07	0.01	0.01
1025		2FB33C	1,190.78	6.00	100.00	-0.00	0.03	0.00	0.00
1026		2FB362	458.57	6.00	100.00	-0.01	0.07	0.00	0.01
1027		2FB36B	758.41	6.00	100.00	0.01	0.04	0.00	0.00
1028		2FB4C6	336.75	8.00	110.00	0.00	0.00	0.00	0.00
1029		2FB4E6	1,669.61	6.00	100.00	-0.03	0.25	0.18	0.11
1030		2FB543	559.08	6.00	100.00	0.02	0.16	0.03	0.05
1031		2FB564	821.75	6.00	100.00	0.01	0.09	0.01	0.02
1032		2FB580	532.12	6.00	100.00	0.01	0.09	0.01	0.02
1033		2FB586	257.42	8.00	110.00	0.00	0.00	0.00	0.00
1034		2FB58F	270.10	6.00	100.00	-0.01	0.09	0.00	0.02
1035		2FB59E	246.39	8.00	110.00	0.000000	0.00000	0.00	0.00
1036		2FB798	244.81	8.00	110.00	0.000000	0.00000	0.00	0.00
1037		2FD29	656.33	6.00	100.00	-0.00	0.03	0.00	0.00
1038		2FD2F	132.18	6.00	100.00	0.00	0.03	0.000	0.00
1039		2FD92	1,274.50	6.00	100.00	0.06	0.47	0.42	0.33
1040		2FDAE	1,273.89	10.00	115.00	0.19	0.53	0.22	0.17
1041		2FDB7	21.11	10.00	115.00	0.14	0.39	0.00	0.09
1042		2FDC0	1,273.57	6.00	100.00	0.03	0.27	0.15	0.12
1043		2FDC6	1,273.29	6.00	100.00	0.03	0.26	0.14	0.11
1044		2FDCF	21.00	6.00	100.00	0.02	0.15	0.000	0.04
1045		2FDD2	222.00	8.00	110.00	0.02	0.09	0.00	0.01
1046		2FDE2	195.26	8.00	110.00	0.03	0.15	0.01	0.03
1047		2FE88	719.46	16.00	125.00	-0.31	0.34	0.03	0.04
1048		2FF10	20.92	12.00	120.00	-0.00000	0.00000	0.00	0.00
1049		2FF1D	191.13	12.00	120.00	-0.22	0.44	0.02	0.09
1050		2FF20	12.79	12.00	100.00	-0.18	0.35	0.00	0.09
1051		2FF30	1,137.75	8.00	110.00	-0.08	0.35	0.13	0.12
1052		2FFB21	281.32	8.00	110.00	0.01	0.02	0.000	0.000
1053		2FFB26	187.50	8.00	110.00	0.01	0.02	0.000	0.000
1054		2FFB53	184.92	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1055		2FFB5F	182.41	8.00	110.00	-0.000000	0.00000	0.00	0.00
1056		2FFB63	106.67	8.00	110.00	-0.01	0.02	0.00	0.00
1057		2FFB6C	214.70	8.00	110.00	0.00	0.02	0.000	0.000
1058		2FFB6F	1,855.73	8.00	110.00	-0.000	0.00	0.000	0.0000
1059		2FFB83	427.43	8.00	110.00	-0.01	0.02	0.000	0.000
1060		2FFB8D	313.86	8.00	110.00	0.000	0.00	0.00	0.00
1061		2FFF4	2,659.32	16.00	125.00	0.01	0.01	0.000	0.0000
1062		30065	488.82	12.00	120.00	-0.00000	0.0000	0.00	0.00
1063		30085	266.02	6.00	100.00	0.00	0.00	0.00	0.00
1064		30088	10.33	6.00	100.00	-0.06	0.46	0.00	0.32
1065		3008B	450.91	6.00	100.00	-0.06	0.46	0.14	0.32
1066		30091	151.00	6.00	100.00	-0.04	0.32	0.02	0.16
1067		30140	865.64	16.00	125.00	0.81	0.90	0.20	0.23
1068		3018E	25.11	8.00	110.00	-0.04	0.18	0.000	0.03
1069		30199	128.85	6.00	100.00	-0.06	0.46	0.04	0.32
1070		301A5	360.88	16.00	125.00	0.42	0.46	0.02	0.07
1071		301AB	114.73	16.00	125.00	0.32	0.36	0.00	0.04
1072		301BB	253.75	12.00	120.00	0.20	0.39	0.02	0.07
1073		301D8	16.99	16.00	125.00	0.43	0.48	0.00	0.07
1074		302045	127.89	8.00	110.00	-0.01	0.06	0.000	0.00
1075		302070	168.00	6.00	100.00	0.00	0.00	0.00	0.00
1076		30207C	516.00	8.00	110.00	-0.01	0.06	0.00	0.00
1077		302083	657.71	8.00	110.00	-0.07	0.29	0.05	0.08
1078		3024A	1,512.12	6.00	100.00	0.02	0.13	0.04	0.03
1079		3032D	69.99	6.00	100.00	0.06	0.45	0.02	0.30
1080		303A4	1,185.51	6.00	100.00	0.03	0.23	0.10	0.09
1081		30419	244.46	6.00	100.00	-0.06	0.47	0.08	0.33
1082		306C0	443.19	4.00	90.00	0.00	0.05	0.00	0.01
1083		30707	397.90	10.00	115.00	0.00	0.00	0.00	0.00
1084		30739	273.19	8.00	110.00	-0.04	0.17	0.01	0.03
1085		3073F	565.42	8.00	110.00	0.02	0.10	0.01	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1086		3077C	3,940.82	8.00	110.00	0.24	1.05	3.50	0.89
1087		307E4	149.85	6.00	100.00	0.00	0.00	0.00	0.00
1088		30805	242.72	6.00	100.00	-0.12	0.95	0.29	1.21
1089		3080B	110.00	6.00	100.00	0.14	1.13	0.18	1.68
1090		3080E	577.99	6.00	100.00	0.02	0.18	0.03	0.06
1091		30811	110.00	8.00	110.00	0.21	0.92	0.08	0.69
1092		30823	749.62	8.00	110.00	-0.04	0.16	0.02	0.03
1093		30826	20.52	6.00	100.00	-0.03	0.22	0.00	0.08
1094		30844	265.70	8.00	110.00	-0.04	0.17	0.01	0.03
1095		30847	20.24	8.00	110.00	0.10	0.46	0.00	0.19
1096		3084D	109.01	6.00	100.00	0.02	0.19	0.01	0.06
1097		30859	454.26	6.00	100.00	0.06	0.46	0.14	0.32
1098		3098F	13.28	6.00	100.00	-0.14	1.11	0.02	1.63
1099		309C6	268.02	6.00	100.00	0.02	0.16	0.01	0.05
1100		30A03	520.83	8.00	110.00	-0.07	0.30	0.04	0.09
1101		30A18	898.20	8.00	110.00	-0.03	0.12	0.01	0.02
1102		30A63	308.16	8.00	110.00	-0.07	0.29	0.03	0.08
1103		30A86	269.00	8.00	110.00	-0.07	0.30	0.02	0.09
1104		30AF0	329.06	12.00	120.00	0.42	0.82	0.10	0.30
1105		30AF3	1,160.74	12.00	120.00	0.42	0.82	0.34	0.30
1106		30B55	362.41	6.00	100.00	-0.12	0.95	0.44	1.21
1107		30B58	154.87	6.00	100.00	-0.12	0.93	0.18	1.17
1108		31	30.25	12.00	120.00	0.67	1.32	0.02	0.71
1109		31789E	882.24	8.00	110.00	-0.000000	0.00000	0.00	0.00
1110		3178BB	636.97	8.00	110.00	0.03	0.14	0.01	0.02
1111		3225F	270.61	8.00	110.00	-0.20	0.88	0.17	0.63
1112		322C5	105.93	8.00	110.00	0.35	1.55	0.19	1.80
1113		322D9	1,225.25	16.00	125.00	-1.56	1.73	0.95	0.78
1114		32324	1,743.63	24.00	130.00	-0.67	0.33	0.04	0.02
1115		32332	217.67	6.00	100.00	0.00	0.00	0.00	0.00
1116		3233F	96.36	6.00	100.00	-0.07	0.53	0.04	0.41

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1117		3234F	979.53	6.00	100.00	-0.01	0.07	0.01	0.01
1118		32365	195.50	8.00	110.00	0.27	1.20	0.22	1.13
1119		32380	162.90	6.00	100.00	-0.05	0.43	0.05	0.28
1120		32391	6.96	10.00	115.00	0.42	1.18	0.01	0.77
1121		323BE	29.29	24.00	130.00	-0.36	0.18	0.000	0.00
1122		328B2D	846.46	12.00	120.00	0.06	0.12	0.01	0.01
1123		32EF79	99.24	12.00	120.00	0.000000	0.00000	0.00	0.00
1124		33CC4E	363.89	8.00	110.00	0.09	0.40	0.05	0.14
1125		33EE21	287.77	8.00	110.00	-0.000000	0.00000	0.00	0.00
1126		343	3,956.68	24.00	130.00	0.25	0.13	0.01	0.00
1127		349CC1	116.67	24.00	130.00	0.31	0.15	0.000	0.00
1128		35	15.40	24.00	130.00	0.64	0.31	0.000	0.02
1129		354831	612.95	6.00	100.00	0.02	0.13	0.02	0.03
1130		354843	680.34	6.00	100.00	0.02	0.13	0.02	0.03
1131		354888	487.37	6.00	100.00	-0.02	0.13	0.01	0.03
1132		35488E	106.22	6.00	100.00	0.00	0.00	0.00	0.00
1133		354897	504.85	6.00	100.00	0.02	0.13	0.02	0.03
1134		3548B2	431.50	8.00	110.00	0.00	0.00	0.00	0.00
1135		3548C8	146.41	6.00	100.00	0.00	0.00	0.00	0.00
1136		355B5B	40.26	16.00	125.00	0.20	0.22	0.000	0.02
1137		355BA5	230.45	12.00	120.00	0.83	1.64	0.25	1.07
1138		355BA9	1,917.04	12.00	120.00	0.83	1.64	2.05	1.07
1139		355BAF	1,337.46	12.00	120.00	0.83	1.64	1.43	1.07
1140		355BDD	29.59	16.00	125.00	0.83	0.92	0.01	0.24
1141		355C25	488.36	10.00	115.00	-0.21	0.60	0.11	0.22
1142		355C2A	179.90	12.00	120.00	0.62	1.22	0.11	0.62
1143		355C4C	401.36	12.00	120.00	0.62	1.22	0.25	0.62
1144		355C52	1,742.80	16.00	125.00	0.83	0.92	0.43	0.24
1145		355CF5	98.12	8.00	110.00	0.00	0.00	0.00	0.00
1146		355D34	536.64	10.00	115.00	0.21	0.60	0.12	0.22
1147		355D37	89.86	10.00	115.00	0.00000	0.00000	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1148		355D3D	205.00	10.00	115.00	0.000000	0.00000	0.00	0.00
1149		355D4F	108.00	6.00	100.00	0.00	0.00	0.00	0.00
1150		355D88	491.47	10.00	115.00	-0.000000	0.00000	0.00	0.00
1151		355DA3	493.43	8.00	110.00	-0.000000	0.00000	0.00	0.00
1152		355DE7	580.02	10.00	115.00	-0.21	0.60	0.13	0.22
1153		355E0A	90.42	16.00	125.00	0.83	0.92	0.02	0.24
1154		35ACD	261.14	8.00	110.00	-0.09	0.40	0.04	0.15
1155		35B3D	269.20	8.00	110.00	-0.12	0.52	0.06	0.24
1156		35D1D5	157.56	8.00	110.00	0.17	0.76	0.08	0.48
1157		35D1DB	345.30	8.00	110.00	0.15	0.66	0.13	0.38
1158		35D25B	289.54	8.00	110.00	-0.02	0.10	0.00	0.01
1159		35D25E	187.05	8.00	110.00	-0.11	0.49	0.04	0.21
1160		35D274	277.03	8.00	110.00	0.09	0.39	0.04	0.14
1161		35E89	953.94	6.00	100.00	0.03	0.27	0.11	0.12
1162		35F26	566.62	6.00	100.00	0.02	0.16	0.03	0.05
1163		35FF8	465.81	8.00	110.00	0.08	0.35	0.05	0.11
1164		36080	532.48	6.00	100.00	-0.01	0.10	0.01	0.02
1165		36095	337.34	8.00	110.00	0.02	0.11	0.00	0.01
1166		36098	301.10	8.00	110.00	0.04	0.17	0.01	0.03
1167		360C2B	1,052.15	6.00	100.00	-0.02	0.17	0.05	0.05
1168		360C46	400.87	8.00	110.00	0.000000	0.00000	0.00	0.00
1169		360C57	274.00	8.00	110.00	-0.02	0.10	0.00	0.01
1170		360C5F	265.44	8.00	110.00	-0.08	0.37	0.03	0.13
1171		360C61	256.36	6.00	100.00	0.03	0.21	0.02	0.07
1172		360C63	211.68	8.00	110.00	0.06	0.28	0.02	0.08
1173		360C86	104.85	6.00	100.00	0.000000	0.0000	0.00	0.00
1174		360CCC	410.78	6.00	100.00	-0.03	0.21	0.03	0.07
1175		360CCE	472.70	6.00	100.00	0.01	0.05	0.00	0.01
1176		360D17	215.55	8.00	110.00	-0.11	0.49	0.05	0.21
1177		360D1A	873.95	6.00	100.00	-0.02	0.15	0.04	0.04
1178		360D24	216.54	8.00	110.00	-0.09	0.40	0.03	0.15

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1179		360D5F	972.36	6.00	100.00	0.01	0.05	0.00	0.01
1180		360DA4	880.25	8.00	110.00	0.02	0.07	0.00	0.01
1181		360DCD	198.06	8.00	110.00	-0.02	0.10	0.00	0.01
1182		361FD	661.77	6.00	100.00	-0.01	0.07	0.01	0.01
1183		362E0	269.52	6.00	100.00	-0.02	0.14	0.01	0.03
1184		36497	931.05	6.00	100.00	0.03	0.20	0.06	0.07
1185		364A66	1,311.39	8.00	110.00	0.08	0.35	0.15	0.11
1186		364F9	270.01	6.00	100.00	-0.03	0.23	0.02	0.09
1187		366FB	310.00	6.00	100.00	0.02	0.16	0.01	0.05
1188		36879	269.00	6.00	100.00	0.01	0.08	0.00	0.01
1189		368E7	690.64	6.00	100.00	-0.02	0.18	0.04	0.06
1190		36919	600.49	6.00	100.00	0.03	0.20	0.04	0.07
1191		36956	749.00	6.00	100.00	0.01	0.11	0.02	0.02
1192		36959	439.00	6.00	100.00	0.00	0.01	0.000	0.000
1193		36990	480.00	6.00	100.00	0.02	0.12	0.01	0.03
1194		369DD1	797.60	12.00	120.00	-0.000	0.000	0.00	0.00
1195		369DD2	747.27	12.00	120.00	-0.000	0.00	0.00	0.00
1196		369DF6	191.63	8.00	110.00	0.000	0.00	0.00	0.00
1197		369E12	541.86	8.00	110.00	0.00	0.00	0.00	0.00
1198		369E2C	273.72	12.00	120.00	-0.00000	0.00000	0.00	0.00
1199		369E2D	630.58	12.00	120.00	-0.00000	0.00000	0.00	0.00
1200		369E5E	875.62	12.00	120.00	-0.00000	0.00000	0.00	0.00
1201		369E7C	54.16	20.00	130.00	-0.00000	0.00000	0.00	0.00
1202		369EB3	802.93	20.00	130.00	0.00000	0.00000	0.00	0.00
1203		36A111	316.27	8.00	110.00	0.000	0.00	0.00	0.00
1204		36A122	288.75	8.00	110.00	-0.000	0.00	0.00	0.00
1205		36A12E	206.18	8.00	110.00	-0.000	0.000	0.00	0.00
1206		36A13A	273.45	6.00	100.00	0.000	0.00	0.00	0.00
1207		36A149	282.15	8.00	110.00	0.00	0.00	0.00	0.00
1208		36A169	169.95	6.00	100.00	0.000	0.00	0.00	0.00
1209		36A196	267.30	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1210		36A1BA	293.94	8.00	110.00	0.000	0.00	0.00	0.00
1211		36A1BE	302.73	8.00	110.00	0.00000	0.0000	0.00	0.00
1212		36A1EC	297.68	8.00	110.00	-0.000000	0.00000	0.00	0.00
1213		36A1F4	374.73	8.00	110.00	0.000000	0.00000	0.00	0.00
1214		36AD9	269.20	6.00	100.00	-0.02	0.17	0.01	0.05
1215		36AFA	785.99	6.00	100.00	0.03	0.27	0.09	0.12
1216		36BCF	586.88	6.00	100.00	-0.02	0.17	0.03	0.05
1217		36FDE	199.48	8.00	110.00	0.00	0.00	0.00	0.00
1218		37	389.78	6.00	100.00	0.02	0.18	0.02	0.06
1219		37142	181.69	6.00	100.00	0.03	0.23	0.02	0.09
1220		371E0E	663.44	8.00	110.00	0.000	0.000	0.00	0.00
1221		371E11	262.31	8.00	110.00	-0.000	0.000	0.00	0.00
1222		371E16	705.13	6.00	100.00	0.000	0.01	0.00	0.00
1223		371E35	361.19	8.00	110.00	0.00	0.00	0.00	0.00
1224		371E62	1,332.92	8.00	110.00	0.000	0.00	0.00	0.00
1225		371E9F	718.51	8.00	110.00	0.000	0.000	0.00	0.00
1226		37439	318.69	6.00	100.00	-0.03	0.27	0.04	0.12
1227		375	1,525.35	16.00	125.00	-0.61	0.67	0.21	0.14
1228		37543	107.61	6.00	100.00	0.03	0.27	0.01	0.12
1229		37546	355.29	6.00	100.00	0.01	0.05	0.00	0.00
1230		3755B	1,234.28	6.00	100.00	-0.03	0.27	0.15	0.12
1231		376BE	844.24	6.00	100.00	-0.03	0.25	0.08	0.10
1232		377	1,580.22	16.00	125.00	-0.65	0.72	0.24	0.15
1233		377333	2,179.81	12.00	120.00	0.00	0.00	0.00	0.00
1234		377349	553.93	12.00	120.00	0.00	0.00	0.00	0.00
1235		37776	56.59	12.00	120.00	-0.20	0.39	0.00	0.08
1236		3778B	343.59	12.00	120.00	-0.23	0.46	0.03	0.10
1237		377B2E	300.00	8.00	110.00	0.00	0.00	0.00	0.00
1238		377B31	908.99	6.00	100.00	0.04	0.29	0.13	0.14
1239		377B47	224.88	6.00	100.00	0.04	0.29	0.03	0.14
1240		377B8	340.81	12.00	120.00	-0.01	0.02	0.000	0.000

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1241		379	450.92	12.00	120.00	-0.55	1.09	0.23	0.50
1242		3795B6	450.19	8.00	110.00	0.00	0.00	0.00	0.00
1243		3795C3	409.35	6.00	100.00	0.000	0.00	0.00	0.00
1244		3795DC	36.47	6.00	100.00	0.000	0.00	0.00	0.00
1245		3795FE	1,069.08	8.00	110.00	0.0000	0.000	0.00	0.00
1246		379601	545.17	6.00	100.00	0.000	0.00	0.00	0.00
1247		37962B	611.33	8.00	110.00	-0.0000	0.000	0.00	0.00
1248		379663	399.24	8.00	110.00	0.00	0.00	0.00	0.00
1249		3796A8	709.38	6.00	100.00	0.000	0.00	0.00	0.00
1250		37A7C	183.04	6.00	100.00	0.000	0.00	0.00	0.00
1251		37AED	230.80	6.00	100.00	0.05	0.41	0.06	0.25
1252		37AF3	372.02	6.00	100.00	0.02	0.19	0.02	0.06
1253		37C45	521.34	6.00	100.00	0.00	0.03	0.000	0.00
1254		37CAB	574.83	6.00	100.00	-0.02	0.19	0.04	0.06
1255		37D54	197.41	6.00	100.00	-0.02	0.18	0.01	0.06
1256		37D60	157.11	6.00	100.00	-0.03	0.25	0.02	0.10
1257		37D63	151.76	6.00	100.00	-0.03	0.25	0.02	0.10
1258		37D6C	219.26	6.00	100.00	-0.04	0.30	0.03	0.14
1259		37D99	503.02	6.00	100.00	-0.05	0.37	0.10	0.21
1260		37D9C	594.81	6.00	100.00	-0.01	0.07	0.01	0.01
1261		37DAF	303.56	6.00	100.00	0.01	0.08	0.00	0.01
1262		37DB6	616.91	12.00	120.00	0.06	0.11	0.00	0.01
1263		37DC1	30.27	12.00	120.00	-0.01	0.02	0.00	0.00
1264		37E17	730.65	12.00	120.00	-0.12	0.24	0.02	0.03
1265		37E6E	966.75	6.00	100.00	-0.01	0.11	0.02	0.02
1266		37F2B	286.54	6.00	100.00	-0.04	0.32	0.05	0.16
1267		37F7C	190.03	6.00	100.00	-0.07	0.53	0.08	0.42
1268		37F8A	379.15	6.00	100.00	0.01	0.11	0.01	0.02
1269		37FC27	1,178.97	8.00	110.00	0.00	0.00	0.00	0.00
1270		37FC65	746.42	8.00	110.00	-0.05	0.24	0.04	0.06
1271		380D0	313.59	6.00	100.00	-0.03	0.26	0.03	0.11

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1272		381	1,294.82	8.00	110.00	-0.24	1.05	1.15	0.89
1273		38143	187.50	6.00	100.00	-0.07	0.53	0.08	0.42
1274		381C47	362.73	6.00	100.00	0.03	0.23	0.03	0.09
1275		381CE7	963.42	6.00	100.00	0.03	0.23	0.08	0.09
1276		381D07	106.71	6.00	100.00	0.00	0.00	0.00	0.00
1277		3822D	731.43	6.00	100.00	-0.01	0.06	0.01	0.01
1278		38259D	579.94	6.00	100.00	0.01	0.09	0.01	0.02
1279		3825B9	430.33	6.00	100.00	0.03	0.23	0.04	0.09
1280		3825BA	149.18	6.00	100.00	0.02	0.15	0.01	0.04
1281		3825CA	413.36	6.00	100.00	0.01	0.06	0.00	0.01
1282		3825D1	167.23	8.00	110.00	0.04	0.18	0.01	0.03
1283		3825F5	615.14	6.00	100.00	0.02	0.13	0.02	0.03
1284		3825FC	413.46	6.00	100.00	0.00	0.03	0.000	0.00
1285		3825FD	119.49	8.00	110.00	-0.16	0.71	0.05	0.42
1286		382612	430.14	6.00	100.00	-0.00	0.02	0.000	0.000
1287		382613	201.22	8.00	110.00	0.07	0.30	0.02	0.08
1288		382626	450.82	8.00	110.00	0.08	0.37	0.06	0.13
1289		382632	179.93	8.00	110.00	-0.16	0.70	0.07	0.41
1290		38263E	125.65	8.00	110.00	0.24	1.06	0.11	0.90
1291		38263F	28.87	8.00	110.00	0.08	0.36	0.00	0.12
1292		38264E	148.78	8.00	110.00	0.06	0.27	0.01	0.07
1293		383	1,381.88	16.00	125.00	-0.63	0.69	0.20	0.14
1294		3837E	143.91	6.00	100.00	0.00	0.00	0.00	0.00
1295		383DD	174.30	8.00	110.00	0.00	0.00	0.00	0.00
1296		385	1,259.00	16.00	120.00	-0.17	0.18	0.02	0.01
1297		38514	183.17	6.00	100.00	0.00	0.00	0.00	0.00
1298		38561	145.77	8.00	110.00	0.00	0.00	0.00	0.00
1299		3858E	281.30	6.00	100.00	0.04	0.29	0.04	0.13
1300		38591	261.04	6.00	100.00	-0.04	0.29	0.03	0.13
1301		3859A	289.29	6.00	100.00	0.00	0.00	0.00	0.00
1302		385A6	298.21	6.00	100.00	0.04	0.29	0.04	0.13

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1303		385AC	714.03	6.00	100.00	0.04	0.29	0.09	0.13
1304		3860D	1,081.00	6.00	100.00	-0.02	0.14	0.04	0.03
1305		386FE	620.60	6.00	100.00	-0.02	0.19	0.04	0.06
1306		387	123.00	16.00	125.00	-0.19	0.21	0.00	0.01
1307		387C27	625.95	16.00	125.00	0.15	0.16	0.01	0.01
1308		387C4B	376.96	12.00	120.00	-0.35	0.69	0.08	0.21
1309		389E4	295.95	8.00	110.00	0.000000	0.00000	0.00	0.00
1310		38AD61	556.07	8.00	110.00	-0.06	0.25	0.03	0.06
1311		38AE3	296.35	12.00	120.00	0.28	0.55	0.04	0.14
1312		38AE6	305.78	12.00	120.00	0.30	0.59	0.05	0.16
1313		38AEC	935.72	12.00	120.00	0.29	0.57	0.14	0.15
1314		38AF8	634.08	12.00	120.00	0.21	0.42	0.05	0.09
1315		38AFD	200.20	6.00	100.00	-0.03	0.27	0.02	0.12
1316		38B77	357.54	12.00	120.00	0.34	0.67	0.07	0.20
1317		38C25	102.50	6.00	100.00	-0.000000	0.0000	0.00	0.00
1318		38C33	247.41	12.00	120.00	0.34	0.67	0.05	0.20
1319		38C39	993.48	12.00	120.00	-0.34	0.67	0.20	0.20
1320		38C4BF	385.80	6.00	100.00	-0.07	0.55	0.17	0.44
1321		38C4D1	300.90	6.00	100.00	-0.07	0.55	0.13	0.44
1322		38C523	220.01	6.00	100.00	-0.03	0.26	0.02	0.11
1323		38C535	159.83	6.00	100.00	0.000000	0.0000	0.00	0.00
1324		38C58F	207.17	6.00	100.00	0.00	0.00	0.00	0.00
1325		38C593	503.95	6.00	100.00	-0.07	0.55	0.22	0.44
1326		38C5BF	635.25	6.00	100.00	0.09	0.73	0.48	0.75
1327		38C601	280.00	6.00	100.00	0.09	0.73	0.21	0.74
1328		38C682	136.50	6.00	100.00	-0.09	0.73	0.10	0.74
1329		38C684	135.31	6.00	100.00	0.06	0.47	0.05	0.34
1330		38C685	278.57	6.00	100.00	-0.03	0.26	0.03	0.11
1331		38C688	157.71	6.00	100.00	0.00	0.00	0.00	0.00
1332		38C6B	102.50	8.00	110.00	0.00	0.00	0.00	0.00
1333		38CB3	102.50	8.00	110.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1334	38CB9	220.66	12.00	120.00	0.34	0.67	0.04	0.20
1335	38D09	554.46	12.00	120.00	-0.42	0.84	0.17	0.31
1336	38D0F	384.37	12.00	120.00	-0.22	0.44	0.04	0.09
1337	38D18	119.36	6.00	100.00	0.00	0.00	0.00	0.00
1338	38D1B	255.24	8.00	110.00	0.03	0.12	0.00	0.02
1339	38D34	173.73	8.00	110.00	-0.09	0.42	0.03	0.16
1340	38D37	220.30	8.00	110.00	-0.03	0.12	0.00	0.01
1341	38D3D	277.43	8.00	110.00	0.06	0.27	0.02	0.07
1342	38E3FA	1,960.12	6.00	100.00	0.03	0.26	0.21	0.11
1343	38E4F7	641.76	6.00	100.00	-0.06	0.47	0.21	0.33
1344	39	29.02	6.00	100.00	0.00	0.00	0.00	0.00
1345	3907BE	182.06	6.00	100.00	-0.15	1.20	0.34	1.88
1346	390C10	202.01	8.00	110.00	0.05	0.22	0.01	0.05
1347	390C63	241.35	8.00	110.00	0.05	0.22	0.01	0.05
1348	390C69	263.83	8.00	110.00	0.00	0.00	0.00	0.00
1349	390C7A	382.34	8.00	110.00	0.00	0.00	0.00	0.00
1350	390CA7	206.07	8.00	110.00	0.000000	0.00000	0.00	0.00
1351	390CBF	277.75	8.00	110.00	0.05	0.22	0.01	0.05
1352	390EB	681.10	8.00	110.00	-0.05	0.24	0.04	0.06
1353	391E08	177.75	6.00	100.00	0.03	0.21	0.01	0.08
1354	393	5,386.02	16.00	125.00	-0.31	0.34	0.21	0.04
1355	39518	448.03	8.00	110.00	-0.03	0.11	0.01	0.01
1356	39552	204.09	8.00	110.00	0.000	0.00	0.00	0.00
1357	39555	270.46	8.00	110.00	0.02	0.09	0.00	0.01
1358	395A6	275.36	8.00	110.00	0.05	0.20	0.01	0.04
1359	39600	676.33	8.00	110.00	0.03	0.14	0.01	0.02
1360	39759	526.07	8.00	110.00	-0.02	0.09	0.00	0.01
1361	398BC	550.71	8.00	110.00	-0.10	0.44	0.10	0.18
1362	39946	306.40	8.00	110.00	-0.05	0.20	0.01	0.04
1363	39A0F	571.39	8.00	110.00	-0.03	0.12	0.01	0.02
1364	39A1A	388.44	10.00	110.00	0.03	0.08	0.00	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1365		39A1D	331.46	8.00	110.00	0.12	0.54	0.09	0.26
1366		39A20	567.89	8.00	110.00	0.10	0.46	0.11	0.19
1367		39BFB	132.01	16.00	125.00	0.25	0.28	0.00	0.03
1368		39BFD	132.03	8.00	110.00	0.00	0.00	0.00	0.00
1369		39C03	591.20	8.00	110.00	0.03	0.12	0.01	0.02
1370		39C0D	379.84	8.00	110.00	0.00	0.00	0.00	0.00
1371		39C16	476.52	8.00	110.00	0.00	0.00	0.00	0.00
1372		39C26	182.00	8.00	110.00	0.08	0.36	0.02	0.12
1373		39C2A	285.72	8.00	110.00	0.03	0.12	0.00	0.02
1374		3A17A	182.03	8.00	110.00	0.08	0.37	0.02	0.13
1375		3A18F	377.80	8.00	110.00	0.000000	0.00000	0.00	0.00
1376		3A19E	309.65	8.00	110.00	-0.00	0.01	0.000	0.000
1377		3A1A4	340.66	8.00	110.00	0.05	0.23	0.02	0.05
1378		3A1BF	124.58	8.00	110.00	0.00	0.00	0.00	0.00
1379		3A1C3	146.22	6.00	100.00	0.00	0.00	0.00	0.00
1380		3A277	590.87	6.00	100.00	0.11	0.91	0.66	1.12
1381		3A385	377.88	8.00	110.00	-0.06	0.25	0.02	0.06
1382		3A42A	238.33	6.00	100.00	-0.03	0.21	0.02	0.08
1383		3A430	171.28	6.00	100.00	-0.15	1.17	0.31	1.81
1384		3A433	227.11	6.00	100.00	0.06	0.50	0.08	0.37
1385		3A5B84	598.34	8.00	110.00	0.05	0.23	0.03	0.05
1386		3A5BA2	204.14	8.00	110.00	0.02	0.07	0.00	0.01
1387		3A682	243.72	6.00	100.00	0.00	0.00	0.00	0.00
1388		3A75E	365.55	8.00	110.00	0.04	0.16	0.01	0.03
1389		3A761	449.51	8.00	110.00	-0.09	0.42	0.07	0.16
1390		3A7AE	1,138.72	6.00	100.00	0.10	0.81	1.03	0.91
1391		3A85F	260.30	6.00	100.00	0.05	0.38	0.06	0.22
1392		3A9C9	290.17	8.00	110.00	-0.17	0.76	0.14	0.48
1393		3A9D2	444.32	8.00	110.00	0.00	0.01	0.00	0.00
1394		3A9E1	390.83	8.00	110.00	0.00	0.01	0.000	0.000
1395		3A9F0	912.63	6.00	100.00	0.000	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1396		3A9F9	22.41	8.00	110.00	0.000	0.00	0.00	0.00
1397		3AA08	1,030.26	6.00	100.00	0.000	0.00	0.00	0.00
1398		3AA0B	313.73	8.00	110.00	-0.00	0.01	0.00	0.00
1399		3AA11	706.67	8.00	110.00	0.00	0.01	0.000	0.000
1400		3AA17	698.27	8.00	110.00	0.00	0.01	0.000	0.000
1401		3AA38	287.84	8.00	110.00	0.00	0.00	0.00	0.00
1402		3AA3E	94.11	8.00	110.00	0.00	0.00	0.00	0.00
1403		3AA4D	508.23	8.00	110.00	-0.00	0.01	0.000	0.000
1404		3AA56	224.79	6.00	100.00	-0.000000	0.0000	0.00	0.00
1405		3AAE5	9.41	6.00	100.00	0.00	0.00	0.00	0.00
1406		3ABCD	493.73	8.00	110.00	-0.000000	0.00000	0.00	0.00
1407		3AD5E	131.55	6.00	100.00	0.00	0.00	0.00	0.00
1408		3ADA4	370.28	8.00	110.00	0.00	0.00	0.00	0.00
1409		3AE2C	526.86	8.00	110.00	0.00	0.01	0.00	0.00
1410		3AE80	381.65	8.00	110.00	0.00	0.01	0.000	0.000
1411		3AEAC	268.02	6.00	100.00	0.00	0.00	0.00	0.00
1412		3AEC5	38.30	6.00	100.00	0.000	0.00	0.00	0.00
1413		3AEC8	369.71	8.00	110.00	0.00	0.01	0.000	0.000
1414		3B005	136.14	6.00	100.00	0.00	0.00	0.00	0.00
1415		3B041	152.54	8.00	110.00	0.00	0.01	0.00	0.00
1416		3B0B7	213.52	6.00	100.00	0.00	0.00	0.00	0.00
1417		3B0D7	567.05	8.00	110.00	0.00	0.00	0.00	0.00
1418		3B0EC	387.57	8.00	110.00	0.02	0.07	0.00	0.01
1419		3B101	357.42	8.00	110.00	-0.01	0.05	0.00	0.00
1420		3B122	1,042.85	8.00	110.00	-0.03	0.12	0.02	0.02
1421		3B29D	239.11	8.00	110.00	-0.02	0.07	0.00	0.01
1422		3B2C3	240.63	6.00	100.00	0.00	0.00	0.00	0.00
1423		3B2C6	394.43	8.00	110.00	0.02	0.07	0.00	0.01
1424		3B2FF	1,127.16	8.00	110.00	-0.01	0.05	0.00	0.00
1425		3B3BE	241.05	6.00	100.00	-0.000000	0.0000	0.00	0.00
1426		3B432	800.33	6.00	100.00	-0.02	0.18	0.05	0.06

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1427		3B435	181.64	6.00	100.00	0.03	0.21	0.01	0.08
1428		3B438	245.52	8.00	110.00	0.03	0.12	0.00	0.02
1429		3B43E	104.87	8.00	110.00	0.00	0.00	0.00	0.00
1430		3B441	100.08	6.00	100.00	0.00	0.00	0.00	0.00
1431		3B462	348.00	6.00	100.00	-0.07	0.52	0.14	0.40
1432		3B46E	833.08	8.00	110.00	-0.08	0.34	0.09	0.11
1433		3B712	144.00	8.00	110.00	-0.17	0.76	0.07	0.48
1434		3B7BE	163.55	6.00	100.00	0.00	0.00	0.00	0.00
1435		3B811	585.18	8.00	110.00	0.11	0.50	0.13	0.22
1436		3B81A	108.64	8.00	110.00	-0.11	0.48	0.02	0.21
1437		3B81D	742.93	8.00	110.00	-0.17	0.74	0.34	0.46
1438		3B820	599.15	6.00	100.00	0.03	0.24	0.06	0.09
1439		3B82F	154.00	8.00	110.00	-0.00	0.01	0.00	0.00
1440		3B853	678.90	6.00	100.00	0.05	0.37	0.15	0.22
1441		3B85F	1,126.11	8.00	110.00	-0.00	0.02	0.000	0.000
1442		3BD8A	533.22	6.00	100.00	-0.01	0.05	0.00	0.01
1443		3BE7F	108.91	16.00	125.00	1.49	1.65	0.08	0.72
1444		3BE88	137.86	16.00	125.00	-1.47	1.63	0.10	0.70
1445		3BE8C	272.23	16.00	125.00	-0.99	1.09	0.09	0.33
1446		3BE9B	1,535.11	16.00	125.00	-3.40	3.77	5.06	3.30
1447		3BEA7	1,791.43	16.00	125.00	-3.40	3.77	5.91	3.30
1448		3BEB3	691.31	16.00	125.00	-3.40	3.77	2.28	3.30
1449		3BEB9	818.41	16.00	125.00	-3.40	3.77	2.70	3.30
1450		3BEC5	201.49	16.00	125.00	-0.03	0.03	0.000	0.000
1451		3BF25	141.00	8.00	110.00	0.00	0.00	0.00	0.00
1452		3BF40	141.00	8.00	110.00	0.03	0.12	0.00	0.02
1453		3BF52	192.31	12.00	120.00	-0.87	1.71	0.22	1.15
1454		3BF68	141.31	8.00	110.00	0.00	0.00	0.00	0.00
1455		3C00A	6,888.21	12.00	120.00	0.03	0.05	0.01	0.00
1456		3C0AD	238.98	12.00	120.00	0.03	0.05	0.000	0.00
1457		3C1C3	946.05	12.00	120.00	-0.95	1.87	1.28	1.36

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1458	3C1C6	53.50	12.00	120.00	0.25	0.49	0.01	0.11
1459	3C1D8	25.09	12.00	120.00	-0.68	1.35	0.02	0.74
1460	3C265	93.35	8.00	110.00	0.00	0.00	0.00	0.00
1461	3C32A	444.28	8.00	110.00	-0.13	0.59	0.13	0.30
1462	3C339	100.01	8.00	110.00	0.00	0.00	0.00	0.00
1463	3C348	118.01	8.00	110.00	0.00	0.00	0.00	0.00
1464	3C378	29.97	8.00	110.00	0.30	1.34	0.04	1.38
1465	3C39E	105.00	8.00	110.00	0.00	0.00	0.00	0.00
1466	3C3E8	102.00	8.00	110.00	0.03	0.12	0.00	0.02
1467	3C42C	1,288.84	12.00	125.00	-0.88	1.73	1.41	1.09
1468	3C435	421.91	12.00	120.00	-0.88	1.73	0.50	1.18
1469	3C438	15.44	12.00	120.00	-0.23	0.46	0.00	0.10
1470	3C4AD	1,283.00	12.00	120.00	-0.88	1.73	1.51	1.18
1471	3C510	1,030.95	16.00	125.00	-5.12	5.68	7.26	7.05
1472	3C5BA	180.32	8.00	110.00	0.07	0.29	0.01	0.08
1473	3C5C3	210.93	8.00	110.00	0.09	0.41	0.03	0.15
1474	3C5D8	1,056.42	8.00	110.00	0.16	0.73	0.47	0.44
1475	3C5E7	896.14	8.00	110.00	0.09	0.41	0.14	0.15
1476	3C5FE	293.93	8.00	110.00	0.09	0.38	0.04	0.14
1477	3C601	210.33	8.00	110.00	0.07	0.29	0.02	0.08
1478	3C9BB	147.77	16.00	125.00	3.35	3.71	0.47	3.20
1479	3C9BE	790.86	16.00	125.00	-1.78	1.97	0.78	0.99
1480	3C9C1	499.17	16.00	125.00	-1.32	1.47	0.29	0.57
1481	3C9C7	658.53	16.00	125.00	-0.99	1.09	0.22	0.33
1482	3C9CD	119.30	16.00	125.00	-0.99	1.09	0.04	0.33
1483	3C9D3	1,005.58	16.00	125.00	-0.87	0.96	0.26	0.26
1484	3C9D6	553.04	16.00	125.00	-0.000000	0.00000	0.00	0.00
1485	3C9D9	599.78	16.00	125.00	-0.000000	0.00000	0.00	0.00
1486	3C9DC	77.53	16.00	125.00	0.00	0.00	0.00	0.00
1487	3C9EE	170.26	12.00	120.00	0.03	0.05	0.000	0.00
1488	3C9F4	702.18	12.00	120.00	0.03	0.05	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1489		3C9F7	900.87	12.00	120.00	0.03	0.05	0.00	0.00
1490		3C9FD	606.02	12.00	120.00	0.02	0.05	0.000	0.00
1491		3CA12	1,735.47	16.00	125.00	-3.59	3.98	6.33	3.65
1492		3CA18	139.90	12.00	120.00	0.87	1.71	0.16	1.15
1493		3CA1B	327.58	12.00	120.00	0.64	1.26	0.21	0.66
1494		3CA1E	135.79	12.00	120.00	-0.34	0.67	0.03	0.20
1495		3CA21	497.46	8.00	110.00	-0.44	1.94	1.37	2.75
1496		3CA27	1,445.70	8.00	110.00	-0.42	1.84	3.59	2.49
1497		3CA2D	47.78	8.00	110.00	-0.39	1.72	0.10	2.19
1498		3CA40	737.36	12.00	120.00	-0.03	0.05	0.00	0.00
1499		3CA4F	637.34	12.00	120.00	-0.68	1.33	0.46	0.73
1500		3CA55	880.20	12.00	120.00	-0.62	1.22	0.54	0.61
1501		3CA58	801.75	12.00	120.00	-0.58	1.14	0.43	0.54
1502		3CA61	1,127.27	12.00	120.00	-0.56	1.11	0.58	0.52
1503		3CAE9	2,977.59	16.00	125.00	-0.03	0.03	0.00	0.000
1504		3CAEF	744.62	16.00	125.00	1.09	1.21	0.30	0.40
1505		3CB6A	86.00	12.00	120.00	0.00	0.01	0.00	0.00
1506		3CC05	382.26	20.00	130.00	-0.05	0.04	0.000	0.000
1507		3CC0B	544.53	20.00	130.00	-0.03	0.02	0.00	0.00
1508		3CC50	1,004.69	8.00	110.00	0.04	0.20	0.04	0.04
1509		3CC65	444.83	8.00	110.00	0.04	0.20	0.02	0.04
1510		3CC8E	324.44	8.00	110.00	0.000000	0.00000	0.00	0.00
1511		3CCEE	290.00	8.00	110.00	-0.10	0.45	0.05	0.18
1512		3CD0C	323.88	8.00	110.00	-0.01	0.05	0.000	0.00
1513		3CD1E	166.63	8.00	110.00	-0.31	1.36	0.24	1.43
1514		3CD21	220.71	6.00	100.00	0.00	0.00	0.00	0.00
1515		3CD36	765.39	8.00	110.00	-0.12	0.52	0.18	0.24
1516		3CD42	303.06	8.00	110.00	-0.07	0.33	0.03	0.10
1517		3CD45	262.32	6.00	100.00	0.02	0.13	0.01	0.03
1518		3CD51	177.35	8.00	110.00	-0.09	0.39	0.02	0.14
1519		3CD54	87.20	6.00	100.00	-0.08	0.61	0.05	0.54

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1520		3CD5D	419.03	8.00	110.00	-0.10	0.46	0.08	0.19
1521		3D586	965.72	6.00	100.00	-0.05	0.37	0.21	0.21
1522		3D73F	183.67	8.00	110.00	-0.22	0.97	0.14	0.76
1523		3DDDC	150.50	8.00	110.00	0.37	1.63	0.30	1.99
1524		3DDE8	255.85	8.00	110.00	0.26	1.17	0.27	1.07
1525		3DDEB	242.98	8.00	110.00	-0.07	0.33	0.02	0.10
1526		3DDF7	121.77	6.00	100.00	-0.03	0.21	0.01	0.08
1527		3DE06	282.78	6.00	100.00	0.07	0.53	0.12	0.42
1528		3DE15	178.95	6.00	100.00	-0.03	0.21	0.01	0.08
1529		3DE1B	351.70	6.00	100.00	0.01	0.11	0.01	0.02
1530		3DE33	239.55	6.00	100.00	0.00	0.00	0.00	0.00
1531		3DE36	604.38	6.00	100.00	-0.01	0.11	0.01	0.02
1532		3DE3C	135.98	6.00	100.00	-0.03	0.21	0.01	0.08
1533		3E424	272.06	6.00	100.00	0.11	0.85	0.27	0.98
1534		3E42A	388.98	6.00	100.00	0.13	1.06	0.58	1.49
1535		3E43C	946.13	6.00	100.00	-0.10	0.80	0.85	0.90
1536		3E43F	133.00	6.00	100.00	-0.03	0.21	0.01	0.08
1537		3E788	150.01	6.00	100.00	0.26	2.08	0.78	5.20
1538		3E7E2	432.18	6.00	100.00	-0.18	1.44	1.13	2.62
1539		3E857	182.39	6.00	100.00	0.03	0.21	0.01	0.08
1540		3E859	205.34	8.00	110.00	-0.07	0.29	0.02	0.08
1541		3E85F	219.93	8.00	110.00	0.000000	0.00000	0.00	0.00
1542		3E868	279.98	8.00	110.00	0.00	0.00	0.00	0.00
1543		3E86B	118.56	6.00	100.00	0.00	0.00	0.00	0.00
1544		3E86E	109.06	6.00	100.00	0.00	0.00	0.00	0.00
1545		3E874	138.00	6.00	100.00	0.000000	0.0000	0.00	0.00
1546		3E880	125.00	6.00	100.00	0.00	0.00	0.00	0.00
1547		3E88C	279.52	8.00	110.00	-0.07	0.29	0.02	0.08
1548		3E88F	393.23	6.00	100.00	-0.07	0.52	0.16	0.40
1549		3E895	260.83	6.00	100.00	-0.07	0.52	0.11	0.40
1550		3E8A7	341.70	6.00	100.00	-0.07	0.52	0.14	0.40

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1551		3E8CB	146.00	6.00	100.00	0.00	0.00	0.00	0.00
1552		3E8CE	295.31	8.00	110.00	-0.11	0.47	0.06	0.20
1553		3E8D7	308.57	6.00	100.00	-0.05	0.37	0.07	0.21
1554		3E8DA	110.86	8.00	110.00	-0.11	0.47	0.02	0.19
1555		3EB23	159.21	6.00	100.00	0.00	0.00	0.00	0.00
1556		3EBCE	308.22	6.00	100.00	-0.07	0.52	0.12	0.40
1557		3ED45	200.25	8.00	110.00	-0.07	0.30	0.02	0.09
1558		3ED48	198.50	8.00	110.00	-0.10	0.42	0.03	0.16
1559		3ED8D	297.12	8.00	110.00	0.00	0.00	0.00	0.00
1560		3ED9C	1,200.07	8.00	110.00	0.02	0.07	0.01	0.01
1561		3EDA5	410.01	8.00	110.00	-0.000000	0.00000	0.00	0.00
1562		3EDAB	470.29	8.00	110.00	0.02	0.07	0.00	0.01
1563		3EDBD	341.41	8.00	110.00	-0.02	0.09	0.00	0.01
1564		3F25F	1,032.82	8.00	110.00	0.05	0.21	0.05	0.05
1565		3F265	510.05	8.00	110.00	-0.06	0.27	0.04	0.07
1566		3F279	206.05	8.00	110.00	0.00	0.00	0.00	0.00
1567		3F297	181.30	8.00	110.00	0.00	0.00	0.00	0.00
1568		3F29D	143.18	8.00	110.00	0.00	0.00	0.00	0.00
1569		3F2AC	156.44	8.00	110.00	-0.03	0.12	0.00	0.02
1570		3F57D	398.22	8.00	110.00	0.05	0.23	0.02	0.05
1571		3F589	278.13	8.00	110.00	-0.03	0.12	0.00	0.02
1572		3F58F	264.67	8.00	110.00	-0.000000	0.00000	0.00	0.00
1573		3F59B	278.95	8.00	110.00	0.05	0.23	0.01	0.05
1574		3F685	348.65	8.00	110.00	0.08	0.35	0.04	0.11
1575		3F6CF	309.15	8.00	110.00	0.00	0.00	0.00	0.00
1576		3F6D2	311.23	8.00	110.00	0.08	0.35	0.03	0.11
1577		3F6E4	286.02	8.00	110.00	0.00	0.00	0.00	0.00
1578		3F6EA	125.98	6.00	100.00	0.00	0.00	0.00	0.00
1579		3F86F	157.06	6.00	100.00	-0.000000	0.0000	0.00	0.00
1580		3F9FC	274.34	6.00	100.00	-0.04	0.34	0.05	0.19
1581		3FA1D	199.94	8.00	110.00	-0.20	0.89	0.13	0.65

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1582		3FA57	257.62	6.00	100.00	0.01	0.07	0.00	0.01
1583		3FA60	838.59	6.00	100.00	-0.04	0.30	0.12	0.14
1584		3FA86	536.92	6.00	100.00	-0.06	0.47	0.18	0.33
1585		3FB5A	202.64	6.00	100.00	0.03	0.21	0.02	0.08
1586		3FB93	445.21	6.00	100.00	-0.01	0.08	0.01	0.01
1587		3FC05	275.00	6.00	100.00	0.08	0.65	0.16	0.60
1588		3FC1D	181.10	8.00	110.00	-0.21	0.91	0.12	0.68
1589		3FC30	1,149.79	6.00	100.00	0.04	0.30	0.16	0.14
1590		40396	237.00	8.00	110.00	0.00	0.00	0.00	0.00
1591		403D3	145.00	4.00	90.00	0.02	0.41	0.07	0.50
1592		4048D	238.29	8.00	110.00	0.00	0.00	0.00	0.00
1593		40492	169.75	8.00	110.00	0.02	0.10	0.00	0.01
1594		404B0	192.15	8.00	110.00	0.03	0.14	0.00	0.02
1595		404BF	344.18	8.00	110.00	0.00	0.00	0.00	0.00
1596		404C2	256.50	6.00	100.00	0.00	0.00	0.00	0.00
1597		404C5	145.69	6.00	100.00	0.00	0.00	0.00	0.00
1598		404E0	303.04	6.00	100.00	0.05	0.37	0.06	0.21
1599		404F5	249.86	6.00	100.00	-0.06	0.49	0.09	0.35
1600		40507	291.73	6.00	100.00	-0.01	0.06	0.00	0.01
1601		40510	921.78	6.00	100.00	0.04	0.31	0.14	0.15
1602		40522	1,117.58	6.00	100.00	-0.04	0.33	0.19	0.17
1603		40528	156.02	8.00	110.00	0.27	1.20	0.18	1.13
1604		4052E	1,175.36	8.00	110.00	0.16	0.73	0.53	0.45
1605		4054F	625.15	6.00	100.00	0.03	0.22	0.05	0.08
1606		4055B	262.83	8.00	110.00	-0.08	0.34	0.03	0.11
1607		40A04	196.57	6.00	100.00	-0.03	0.21	0.02	0.08
1608		40B3A	206.85	8.00	110.00	0.01	0.03	0.000	0.00
1609		40B56	300.18	8.00	110.00	0.06	0.27	0.02	0.07
1610		40B5C	596.19	8.00	110.00	0.12	0.53	0.15	0.25
1611		40FAA	900.73	8.00	110.00	0.06	0.26	0.06	0.07
1612		40FCF	194.89	6.00	100.00	0.000000	0.0000	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1613		40FD5	323.60	8.00	110.00	0.06	0.26	0.02	0.07
1614		40FD8	122.46	6.00	100.00	-0.000000	0.0000	0.00	0.00
1615		40FED	291.03	8.00	110.00	-0.01	0.04	0.000	0.00
1616		40FF3	107.99	6.00	100.00	0.00	0.00	0.00	0.00
1617		40FF6	345.40	8.00	110.00	-0.000000	0.00000	0.00	0.00
1618		40FF9	159.12	6.00	100.00	-0.000000	0.0000	0.00	0.00
1619		41	734.01	6.00	100.00	0.21	1.65	2.48	3.37
1620		41005	97.08	6.00	100.00	-0.000000	0.0000	0.00	0.00
1621		4102D	1,577.52	6.00	100.00	-0.01	0.07	0.02	0.01
1622		41039	236.80	8.00	110.00	-0.06	0.26	0.02	0.07
1623		41042	136.61	8.00	110.00	-0.06	0.26	0.01	0.07
1624		4106F	419.31	8.00	110.00	-0.000000	0.00000	0.00	0.00
1625		4162E	124.78	8.00	110.00	-0.000000	0.00000	0.00	0.00
1626		41648	209.61	8.00	110.00	-0.07	0.29	0.02	0.08
1627		41683	261.38	6.00	100.00	-0.02	0.15	0.01	0.04
1628		4172D	322.54	6.00	100.00	-0.04	0.28	0.04	0.13
1629		41739	121.48	8.00	110.00	0.03	0.15	0.00	0.02
1630		4197C	102.21	6.00	100.00	-0.03	0.21	0.01	0.08
1631		4198E	881.62	6.00	100.00	0.02	0.12	0.02	0.03
1632		419A0	251.40	6.00	100.00	0.02	0.14	0.01	0.04
1633		419B0	118.43	8.00	110.00	-0.08	0.38	0.02	0.13
1634		419B3	169.42	8.00	110.00	0.05	0.22	0.01	0.05
1635		419C5	261.48	6.00	100.00	-0.06	0.48	0.09	0.35
1636		419D4	464.76	6.00	100.00	-0.12	0.95	0.57	1.23
1637		41AC7	199.97	8.00	110.00	-0.02	0.09	0.00	0.01
1638		41AD6	30.27	20.00	130.00	-0.38	0.27	0.000	0.02
1639		41B17	575.05	8.00	110.00	0.21	0.91	0.39	0.67
1640		41B3C	434.23	24.00	130.00	-0.61	0.30	0.01	0.02
1641		41B59	531.35	24.00	130.00	-0.91	0.45	0.02	0.04
1642		41BAB	188.91	24.00	130.00	-1.00	0.49	0.01	0.04
1643		41BF2	426.99	24.00	130.00	0.96	0.47	0.02	0.04

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1644		41C72	351.70	24.00	130.00	-1.04	0.51	0.02	0.05
1645		41D4A	673.28	24.00	130.00	0.20	0.10	0.00	0.00
1646		41D5C	564.49	24.00	130.00	-0.20	0.10	0.00	0.00
1647		41D95	62.69	12.00	120.00	-0.000000	0.000000	0.00	0.00
1648		41EA3	378.00	20.00	130.00	-0.05	0.04	0.000	0.000
1649		41F98	638.21	24.00	130.00	-0.12	0.06	0.000	0.000
1650		41FA2	789.08	24.00	130.00	0.04	0.02	0.000	0.000
1651		41FAB	926.41	20.00	130.00	-0.40	0.29	0.02	0.02
1652		41FD8	199.36	8.00	110.00	0.08	0.34	0.02	0.11
1653		41FEA	2,078.75	16.00	125.00	0.03	0.03	0.000	0.000
1654		42013	102.00	16.00	125.00	0.03	0.03	0.000	0.00
1655		42095	1,559.06	16.00	125.00	1.18	1.31	0.73	0.47
1656		420A3	696.60	16.00	125.00	1.09	1.21	0.28	0.40
1657		427	2,044.71	12.00	120.00	0.00	0.00	0.00	0.00
1658		42703	437.59	12.00	120.00	-0.65	1.28	0.29	0.67
1659		42706	231.20	24.00	130.00	0.90	0.44	0.01	0.04
1660		42727	543.30	24.00	130.00	-1.31	0.65	0.04	0.07
1661		42988	884.96	24.00	130.00	-1.31	0.64	0.06	0.07
1662		4299A	550.70	24.00	130.00	-0.86	0.42	0.02	0.03
1663		429A3	640.07	24.00	130.00	-1.35	0.67	0.05	0.08
1664		429AF	1,949.82	24.00	130.00	-1.17	0.58	0.12	0.06
1665		42A16	426.88	12.00	120.00	0.52	1.03	0.19	0.45
1666		42A1C	175.02	8.00	110.00	-0.16	0.72	0.08	0.44
1667		42A22	702.80	12.00	120.00	0.36	0.71	0.16	0.23
1668		42A2E	676.07	12.00	120.00	-0.07	0.13	0.01	0.01
1669		42A34	59.00	8.00	110.00	-0.18	0.81	0.03	0.54
1670		42A37	750.82	16.00	125.00	-0.23	0.26	0.02	0.02
1671		42A3D	278.44	12.00	120.00	0.26	0.52	0.04	0.13
1672		42A40	439.26	16.00	125.00	0.50	0.55	0.04	0.09
1673		42A4C	372.08	16.00	125.00	-0.09	0.10	0.00	0.00
1674		42A60	517.79	8.00	110.00	-0.12	0.53	0.13	0.25

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1675	42A67	807.58	16.00	125.00	-0.71	0.78	0.15	0.18
1676	42A7C	170.41	16.00	125.00	-1.05	1.16	0.06	0.37
1677	42A7F	59.00	8.00	110.00	-0.12	0.53	0.01	0.25
1678	42A82	538.38	16.00	125.00	-1.26	1.40	0.28	0.53
1679	431	1,195.91	24.00	130.00	-1.31	0.64	0.09	0.07
1680	445	119.49	24.00	130.00	3.72	1.83	0.06	0.50
1681	44740	241.00	6.00	100.00	-0.06	0.49	0.08	0.35
1682	44743	241.00	6.00	100.00	-0.12	0.97	0.30	1.26
1683	44746	117.52	6.00	100.00	-0.20	1.58	0.37	3.12
1684	44749	526.40	6.00	100.00	0.04	0.32	0.09	0.16
1685	4475B	160.00	6.00	100.00	0.27	2.11	0.86	5.36
1686	44764	478.34	6.00	100.00	-0.01	0.08	0.01	0.01
1687	4476A	136.19	6.00	100.00	0.14	1.09	0.22	1.58
1688	4476D	821.64	6.00	100.00	-0.04	0.31	0.12	0.15
1689	44770	615.92	6.00	100.00	0.07	0.57	0.29	0.48
1690	44785	175.00	6.00	100.00	0.15	1.17	0.31	1.79
1691	44788	185.00	6.00	100.00	0.05	0.36	0.04	0.20
1692	4478B	160.00	8.00	110.00	0.19	0.86	0.10	0.61
1693	4479D	287.71	8.00	110.00	-0.03	0.12	0.00	0.02
1694	447A3	241.00	6.00	100.00	-0.11	0.83	0.23	0.96
1695	447B2	732.82	6.00	100.00	-0.08	0.65	0.45	0.61
1696	447B8	695.42	6.00	100.00	0.05	0.39	0.17	0.24
1697	447FA	830.57	6.00	100.00	0.07	0.52	0.33	0.40
1698	44806	1,048.53	6.00	100.00	-0.05	0.43	0.29	0.28
1699	4480F	608.32	6.00	100.00	0.06	0.45	0.18	0.30
1700	4481B	280.00	6.00	100.00	-0.08	0.66	0.17	0.62
1701	4481E	135.60	6.00	100.00	-0.12	0.95	0.16	1.21
1702	4482D	95.00	6.00	100.00	0.05	0.39	0.02	0.24
1703	4483C	164.76	6.00	100.00	0.12	0.95	0.20	1.22
1704	4483F	240.67	6.00	100.00	0.08	0.66	0.15	0.62
1705	44845	113.00	8.00	110.00	0.06	0.27	0.01	0.07

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1706		44851	405.10	8.00	110.00	-0.05	0.22	0.02	0.05
1707		4485A	298.30	8.00	110.00	0.06	0.27	0.02	0.07
1708		4486F	270.00	6.00	100.00	0.11	0.85	0.27	1.00
1709		44881	679.66	6.00	100.00	-0.05	0.43	0.19	0.28
1710		44893	275.00	6.00	100.00	0.03	0.21	0.02	0.08
1711		44896	121.00	6.00	100.00	-0.18	1.44	0.32	2.63
1712		44899	609.91	6.00	100.00	-0.08	0.65	0.37	0.61
1713		4489F	592.70	6.00	100.00	-0.08	0.65	0.36	0.60
1714		448BD	453.06	8.00	110.00	-0.03	0.12	0.01	0.02
1715		448C9	2,642.96	6.00	100.00	0.03	0.21	0.19	0.07
1716		448DE	1,533.25	6.00	100.00	-0.07	0.57	0.73	0.48
1717		4496A	260.13	6.00	100.00	-0.07	0.55	0.11	0.44
1718		4499D	240.00	8.00	110.00	0.15	0.65	0.09	0.36
1719		449D3	1,139.92	6.00	100.00	0.01	0.06	0.01	0.01
1720		44A09	797.09	6.00	100.00	0.03	0.27	0.09	0.12
1721		44A63	682.79	6.00	100.00	-0.05	0.40	0.17	0.25
1722		44B29	719.82	6.00	100.00	-0.04	0.30	0.11	0.15
1723		44B3B	708.90	6.00	100.00	-0.06	0.44	0.21	0.30
1724		44B4D	459.21	6.00	100.00	-0.04	0.29	0.06	0.14
1725		44B5F	565.50	6.00	100.00	0.05	0.38	0.12	0.22
1726		44B95	403.71	6.00	100.00	0.00	0.03	0.000	0.00
1727		44BB9	152.89	6.00	100.00	0.16	1.28	0.33	2.13
1728		44C5E	733.58	8.00	110.00	0.00	0.00	0.00	0.00
1729		45	36.76	12.00	120.00	0.43	0.85	0.01	0.31
1730		45053	408.23	8.00	110.00	-0.10	0.45	0.07	0.18
1731		455	89.58	16.00	125.00	-1.26	1.39	0.05	0.52
1732		461	931.61	12.00	120.00	-1.34	2.65	2.41	2.59
1733		463	165.08	12.00	120.00	-1.61	3.17	0.59	3.60
1734		465	287.69	6.00	100.00	-0.05	0.38	0.07	0.23
1735		467	3.86	6.00	100.00	0.02	0.19	0.000	0.06
1736		469	454.52	6.00	100.00	-0.02	0.12	0.01	0.03

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1737		471	366.66	8.00	110.00	-0.21	0.93	0.26	0.71
1738		473	340.74	6.00	100.00	0.05	0.37	0.07	0.21
1739		475	76.20	6.00	100.00	0.05	0.37	0.02	0.21
1740		482B5	176.00	8.00	110.00	0.13	0.59	0.05	0.30
1741		482D2	135.41	6.00	100.00	-0.07	0.55	0.06	0.45
1742		48315	490.00	6.00	100.00	0.04	0.33	0.08	0.17
1743		48318	134.59	6.00	100.00	0.06	0.50	0.05	0.37
1744		4837D	490.00	6.00	100.00	0.04	0.31	0.07	0.15
1745		484E1	269.83	6.00	100.00	-0.01	0.07	0.00	0.01
1746		48647	641.57	6.00	100.00	-0.02	0.16	0.03	0.05
1747		48687	223.00	6.00	100.00	-0.12	0.96	0.28	1.23
1748		4868A	233.01	6.00	100.00	0.03	0.20	0.02	0.07
1749		48697	270.00	6.00	100.00	-0.10	0.76	0.22	0.80
1750		48915	300.00	6.00	100.00	0.00	0.01	0.000	0.000
1751		4898E	270.00	6.00	100.00	-0.05	0.37	0.06	0.22
1752		4899A	1,806.75	6.00	100.00	0.05	0.38	0.41	0.23
1753		489CF	172.60	6.00	100.00	0.03	0.21	0.01	0.08
1754		489DB	379.81	6.00	100.00	-0.07	0.59	0.19	0.50
1755		489E1	177.10	6.00	100.00	-0.10	0.80	0.16	0.89
1756		48AA4	178.29	6.00	100.00	0.00	0.00	0.00	0.00
1757		48DB8	255.00	8.00	110.00	0.12	0.55	0.07	0.26
1758		48E55	248.02	6.00	100.00	0.07	0.53	0.10	0.41
1759		48E83	138.23	6.00	100.00	0.08	0.62	0.08	0.56
1760		48F3C	255.50	6.00	100.00	0.04	0.35	0.05	0.19
1761		49084	597.87	8.00	110.00	0.10	0.43	0.10	0.17
1762		4909C	568.34	6.00	100.00	0.06	0.48	0.20	0.35
1763		490B6	691.24	8.00	110.00	0.00	0.00	0.00	0.00
1764		49222	529.27	8.00	110.00	0.07	0.29	0.04	0.08
1765		4942E	248.09	8.00	110.00	0.00	0.00	0.00	0.00
1766		494E0	568.76	6.00	100.00	0.04	0.30	0.08	0.15
1767		495C5	283.23	6.00	100.00	0.04	0.30	0.04	0.15

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1768		495CB	806.31	6.00	100.00	0.01	0.04	0.00	0.00
1769		4979C	735.83	6.00	100.00	0.01	0.05	0.00	0.00
1770		497A9	116.80	6.00	100.00	-0.02	0.12	0.00	0.03
1771		497AC	58.01	8.00	110.00	-0.02	0.07	0.000	0.01
1772		497B5	175.81	6.00	100.00	0.08	0.64	0.10	0.59
1773		49832	260.70	6.00	100.00	0.05	0.40	0.06	0.24
1774		498E9	615.00	6.00	100.00	0.000	0.00	0.00	0.00
1775		498EF	453.83	6.00	100.00	0.06	0.46	0.15	0.32
1776		499	61.11	8.00	110.00	-0.17	0.76	0.03	0.48
1777		49A3C	846.52	6.00	100.00	-0.00	0.04	0.00	0.00
1778		49ABE	112.74	8.00	110.00	0.00	0.00	0.00	0.00
1779		49AC1	240.26	8.00	110.00	0.07	0.30	0.02	0.09
1780		49AF6	711.50	6.00	100.00	-0.01	0.07	0.01	0.01
1781		49B2C	145.00	8.00	110.00	0.02	0.10	0.00	0.01
1782		49B2F	240.00	8.00	110.00	0.02	0.10	0.00	0.01
1783		49CA2	509.96	8.00	110.00	0.05	0.23	0.03	0.05
1784		49CAB	185.59	8.00	110.00	0.05	0.23	0.01	0.05
1785		49CB1	289.55	6.00	100.00	0.05	0.42	0.08	0.27
1786		49CD2	154.01	8.00	110.00	0.00	0.00	0.00	0.00
1787		49D72	759.07	6.00	100.00	-0.02	0.12	0.02	0.03
1788		49EB8	291.61	6.00	100.00	-0.05	0.38	0.06	0.22
1789		49F79	592.10	6.00	100.00	0.06	0.50	0.22	0.37
1790		49F7C	417.15	6.00	100.00	-0.01	0.09	0.01	0.02
1791		49FF1	898.59	6.00	100.00	-0.03	0.25	0.09	0.10
1792		49FF4	144.70	6.00	100.00	-0.10	0.77	0.12	0.82
1793		4A030	165.00	8.00	110.00	-0.16	0.71	0.07	0.43
1794		4A082	602.58	6.00	100.00	0.04	0.31	0.09	0.15
1795		4A08E	519.19	6.00	100.00	0.000	0.00	0.00	0.00
1796		4A119	183.80	8.00	110.00	0.00	0.02	0.000	0.000
1797		4A728	202.85	6.00	100.00	0.15	1.17	0.36	1.79
1798		4A772	322.17	6.00	100.00	-0.02	0.16	0.01	0.04

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1799		4A808	168.22	6.00	100.00	-0.000000	0.0000	0.00	0.00
1800		4A8DD	312.22	6.00	100.00	0.03	0.21	0.02	0.08
1801		4A9C0	121.96	6.00	100.00	0.00	0.00	0.00	0.00
1802		4A9F6	487.39	6.00	100.00	0.16	1.24	0.97	1.99
1803		4AA16	937.22	6.00	100.00	0.03	0.22	0.08	0.08
1804		4AF6C	180.24	12.00	120.00	-0.60	1.19	0.11	0.59
1805		4AF72	404.28	12.00	120.00	-0.47	0.93	0.15	0.37
1806		4B04C	62.21	12.00	120.00	0.27	0.52	0.01	0.13
1807		4B04F	997.14	12.00	120.00	0.34	0.68	0.21	0.21
1808		4B052	37.85	8.00	110.00	-0.08	0.35	0.00	0.11
1809		4B06D	330.26	12.00	120.00	0.19	0.37	0.02	0.07
1810		4B08E	57.88	8.00	110.00	0.04	0.17	0.00	0.03
1811		4B0AA	995.85	12.00	120.00	-0.15	0.29	0.04	0.04
1812		4B1BB	287.39	8.00	110.00	-0.03	0.13	0.01	0.02
1813		4B26D	163.70	24.00	130.00	3.27	1.61	0.06	0.40
1814		4B282	1,064.14	24.00	130.00	-2.25	1.11	0.21	0.20
1815		4B290	589.99	24.00	130.00	-2.30	1.13	0.12	0.21
1816		4B296	338.20	24.00	130.00	-2.30	1.13	0.07	0.21
1817		4B72E	211.03	6.00	100.00	0.01	0.07	0.00	0.01
1818		4B747	604.22	4.00	90.00	-0.000	0.01	0.000	0.000
1819		4B74D	219.67	6.00	100.00	-0.01	0.07	0.00	0.01
1820		4B750	180.00	4.00	90.00	-0.01	0.12	0.01	0.05
1821		4B753	397.99	6.00	100.00	-0.01	0.06	0.00	0.01
1822		4B756	156.59	6.00	100.00	-0.03	0.26	0.02	0.11
1823		4B769	26.00	4.00	90.00	-0.01	0.13	0.00	0.06
1824		4B77A	31.86	6.00	100.00	-0.06	0.48	0.01	0.34
1825		4B790	606.06	6.00	100.00	-0.02	0.19	0.04	0.06
1826		4B796	598.07	6.00	100.00	-0.01	0.09	0.01	0.02
1827		4B799	423.18	3.00	90.00	0.05	1.71	4.20	9.93
1828		4B7CE	308.00	6.00	100.00	-0.10	0.81	0.28	0.92
1829		4B7D1	103.82	6.00	100.00	0.07	0.56	0.05	0.46

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1830		4B7FC	924.00	4.00	90.00	0.00	0.02	0.00	0.00
1831		4B80E	103.92	6.00	100.00	0.03	0.21	0.01	0.08
1832		4B811	101.71	4.00	90.00	0.00	0.00	0.00	0.00
1833		4B814	159.10	6.00	100.00	-0.06	0.47	0.05	0.33
1834		4B83D	506.00	4.00	90.00	-0.02	0.43	0.28	0.55
1835		4B848	995.83	4.00	90.00	-0.00	0.08	0.02	0.02
1836		4B864	311.30	6.00	100.00	0.05	0.40	0.08	0.24
1837		4B89E	116.00	4.00	90.00	-0.01	0.21	0.02	0.15
1838		4B916	382.99	4.00	90.00	0.02	0.41	0.19	0.49
1839		4B923	539.06	6.00	100.00	-0.22	1.74	2.01	3.73
1840		4B931	79.19	6.00	100.00	-0.22	1.74	0.30	3.73
1841		4B96E	636.57	6.00	100.00	-0.05	0.38	0.14	0.22
1842		4C062	767.32	6.00	100.00	-0.04	0.29	0.11	0.14
1843		4C07F	294.22	6.00	100.00	0.03	0.27	0.04	0.12
1844		4C082	656.00	6.00	100.00	0.02	0.17	0.03	0.05
1845		4C085	644.05	6.00	100.00	0.01	0.09	0.01	0.02
1846		4C08E	8.90	6.00	100.00	0.04	0.30	0.00	0.15
1847		4C0FD	1,294.25	6.00	100.00	0.02	0.13	0.04	0.03
1848		4C41D	1,292.17	6.00	100.00	0.02	0.14	0.05	0.04
1849		4C4E9	1,285.47	6.00	100.00	0.01	0.05	0.01	0.01
1850		4C5A4	1,296.95	12.00	120.00	-0.04	0.09	0.01	0.00
1851		4D48B	544.94	12.00	120.00	-0.17	0.33	0.03	0.05
1852		4D49B	276.80	6.00	100.00	0.05	0.40	0.07	0.25
1853		4D4AB	504.53	12.00	120.00	-0.22	0.43	0.04	0.09
1854		4D4F2	218.39	8.00	110.00	-0.13	0.59	0.07	0.30
1855		4D51E	300.06	12.00	120.00	-0.27	0.54	0.04	0.14
1856		4D54C	558.33	12.00	120.00	-0.33	0.64	0.10	0.19
1857		4D55E	179.69	6.00	100.00	0.000	0.00	0.00	0.00
1858		4D588	425.11	12.00	120.00	-0.33	0.64	0.08	0.19
1859		4D5AA	227.12	12.00	120.00	-0.35	0.69	0.05	0.22
1860		4D5C0	53.00	12.00	120.00	0.08	0.15	0.000	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1861		4D5DE	217.67	6.00	100.00	-0.03	0.21	0.02	0.08
1862		4D61A	410.28	8.00	110.00	0.000000	0.00000	0.00	0.00
1863		4D63C	190.12	16.00	125.00	0.34	0.38	0.01	0.05
1864		4D65F	596.84	16.00	125.00	-0.27	0.29	0.02	0.03
1865		4D665	509.98	8.00	110.00	-0.00	0.02	0.000	0.000
1866		4D66B	823.10	8.00	110.00	0.09	0.41	0.13	0.16
1867		4D6BF	646.57	16.00	125.00	-0.04	0.04	0.000	0.000
1868		4D6D1	645.55	16.00	125.00	-0.29	0.32	0.02	0.03
1869		4D6EE	188.21	8.00	110.00	0.04	0.16	0.00	0.03
1870		4D700	249.36	16.00	125.00	-0.32	0.36	0.01	0.04
1871		4D72E	494.54	12.00	120.00	0.03	0.06	0.00	0.00
1872		4D747	174.05	8.00	110.00	-0.00	0.02	0.000	0.000
1873		4D788	337.64	8.00	110.00	0.06	0.26	0.02	0.07
1874		4D7AF	533.76	8.00	110.00	-0.04	0.19	0.02	0.04
1875		4DF46	1,169.99	6.00	100.00	-0.00	0.01	0.000	0.000
1876		4DF7D	679.04	6.00	100.00	-0.00	0.02	0.000	0.000
1877		4DF9D	308.18	6.00	100.00	0.00	0.03	0.000	0.00
1878		4E016	331.97	8.00	110.00	0.00	0.00	0.00	0.00
1879		4E032	485.23	8.00	110.00	0.00	0.00	0.00	0.00
1880		4E3E4	227.79	8.00	110.00	-0.14	0.62	0.08	0.33
1881		4E421	217.00	6.00	100.00	-0.12	0.96	0.27	1.23
1882		4E464	485.54	12.00	120.00	-0.68	1.34	0.36	0.73
1883		4E6B6	127.78	20.00	130.00	-6.69	4.75	0.46	3.62
1884		4E6BC	84.76	20.00	130.00	-6.69	4.75	0.31	3.62
1885		4E873	120.16	10.00	115.00	0.00	0.00	0.00	0.00
1886		4E985	229.27	24.00	130.00	0.92	0.45	0.01	0.04
1887		4E988	8.88	24.00	130.00	0.92	0.45	0.000	0.04
1888		4E98B	92.80	20.00	130.00	0.92	0.65	0.01	0.09
1889		4E991	66.08	20.00	130.00	0.92	0.65	0.01	0.09
1890		4EA57	59.80	16.00	125.00	5.12	5.68	0.42	7.04
1891		4EA63	109.28	16.00	125.00	0.05	0.06	0.000	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1892		4EAF7	336.73	12.00	120.00	1.42	2.79	0.96	2.86
1893		4EB00	77.42	24.00	120.00	1.18	0.58	0.01	0.07
1894		4EC3E	527.78	12.00	100.00	0.00	0.00	0.00	0.00
1895		50136	883.66	12.00	120.00	-0.03	0.05	0.00	0.00
1896		5017E	573.82	8.00	110.00	-0.05	0.23	0.03	0.05
1897		501A3	1,213.60	12.00	120.00	0.39	0.77	0.32	0.26
1898		501B8	1,344.54	12.00	120.00	-0.16	0.32	0.07	0.05
1899		501D1	543.69	12.00	120.00	0.56	1.09	0.27	0.50
1900		5027B	1,200.34	12.00	120.00	0.00	0.00	0.00	0.00
1901		50377	1,325.38	12.00	120.00	0.00	0.00	0.00	0.00
1902		5041D	453.95	12.00	120.00	0.07	0.14	0.01	0.01
1903		504A0	760.76	12.00	120.00	-0.26	0.51	0.09	0.12
1904		504FE	172.28	8.00	110.00	0.00	0.00	0.00	0.00
1905		50508	76.08	8.00	110.00	0.00	0.00	0.00	0.00
1906		50513	1,067.92	12.00	120.00	-0.28	0.56	0.15	0.14
1907		5052E	917.51	12.00	120.00	-0.11	0.23	0.02	0.03
1908		5053A	1,392.54	12.00	120.00	-0.07	0.14	0.02	0.01
1909		50540	290.51	12.00	120.00	-0.26	0.51	0.04	0.12
1910		50543	1,350.83	12.00	120.00	-0.28	0.55	0.19	0.14
1911		5055B	564.43	12.00	120.00	0.67	1.32	0.40	0.71
1912		50564	89.28	8.00	110.00	-0.00	0.02	0.000	0.00
1913		507	779.59	12.00	120.00	0.03	0.05	0.00	0.00
1914		50717	299.90	8.00	110.00	0.02	0.08	0.00	0.01
1915		50729	1,108.18	12.00	120.00	0.03	0.05	0.00	0.00
1916		5075C	473.80	12.00	120.00	0.03	0.06	0.000	0.00
1917		5076E	458.03	12.00	120.00	-0.02	0.04	0.000	0.00
1918		50862	300.74	12.00	120.00	-0.93	1.82	0.39	1.30
1919		50868	416.94	12.00	120.00	-0.32	0.63	0.08	0.18
1920		50921	47.79	6.00	100.00	0.00	0.00	0.00	0.00
1921		50934	2,124.55	12.00	120.00	-0.39	0.77	0.56	0.26
1922		50B08	245.78	8.00	110.00	-0.02	0.09	0.00	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1923		50C33	546.30	4.00	90.00	0.00	0.00	0.00	0.00
1924		50CFA	561.81	16.00	125.00	0.000000	0.000000	0.00	0.00
1925		50CFB	381.61	16.00	125.00	0.00	0.00	0.00	0.00
1926		51	21.33	12.00	120.00	1.42	2.79	0.06	2.86
1927		537	0.64	6.00	100.00	-0.07	0.56	0.000	0.57
1928		55	23.70	12.00	120.00	0.46	0.90	0.01	0.35
1929		583	225.06	12.00	120.00	-0.25	0.49	0.03	0.11
1930		585	40.45	12.00	120.00	-0.03	0.06	0.000	0.00
1931		59	19.59	24.00	130.00	6.69	3.30	0.03	1.49
1932		593	56.86	6.00	100.00	0.03	0.23	0.00	0.09
1933		599	26.44	6.00	100.00	-0.03	0.27	0.00	0.12
1934		5AA4F	281.61	6.00	100.00	0.07	0.51	0.11	0.39
1935		5AAA5	914.34	6.00	100.00	0.04	0.34	0.17	0.18
1936		5D66D	773.35	8.00	110.00	0.01	0.04	0.00	0.00
1937		5D6AB	173.76	8.00	110.00	-0.01	0.04	0.000	0.00
1938		5D71F	203.47	8.00	110.00	0.06	0.25	0.01	0.06
1939		5D7C2	197.39	8.00	110.00	0.00	0.00	0.00	0.00
1940		5D803	196.39	8.00	110.00	0.00	0.00	0.00	0.00
1941		5D81A	356.82	8.00	110.00	0.03	0.12	0.01	0.02
1942		5D879	156.80	6.00	100.00	0.01	0.11	0.00	0.02
1943		5D8CF	188.27	8.00	110.00	0.000000	0.00000	0.00	0.00
1944		5D8D1	43.13	10.00	115.00	-0.12	0.34	0.00	0.08
1945		5D8D4	58.25	10.00	115.00	-0.12	0.34	0.00	0.08
1946		5D974	224.32	6.00	100.00	0.04	0.29	0.03	0.14
1947		5D977	230.16	8.00	110.00	0.11	0.49	0.05	0.21
1948		5D978	37.19	8.00	110.00	0.14	0.61	0.01	0.32
1949		5DB3E	141.98	8.00	110.00	0.16	0.70	0.06	0.41
1950		5DB3F	262.01	8.00	110.00	0.07	0.32	0.03	0.10
1951		5DB40	267.01	8.00	110.00	-0.01	0.06	0.00	0.00
1952		5DB41	21.00	8.00	110.00	-0.07	0.33	0.00	0.10
1953		5DB4F	426.87	16.00	125.00	2.62	2.90	0.87	2.03

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1954		5E2F4	214.39	6.00	100.00	0.03	0.24	0.02	0.10
1955		5E2FF	243.00	6.00	100.00	0.01	0.05	0.00	0.00
1956		5E354	27.23	6.00	100.00	0.02	0.15	0.00	0.04
1957		5E355	246.00	6.00	100.00	0.01	0.08	0.00	0.01
1958		5E36D	14.70	6.00	100.00	0.00	0.03	0.00	0.00
1959		5E39B	39.58	10.00	115.00	0.14	0.39	0.00	0.10
1960		5E488	85.01	8.00	110.00	-0.03	0.15	0.00	0.02
1961		5E48B	33.00	8.00	110.00	0.04	0.17	0.00	0.03
1962		5E991	696.15	6.00	100.00	0.05	0.40	0.18	0.25
1963		5E999	172.21	8.00	110.00	-0.15	0.69	0.07	0.40
1964		5EA5E	303.46	8.00	110.00	0.00	0.00	0.00	0.00
1965		5EB1C	270.02	6.00	100.00	0.05	0.40	0.07	0.25
1966		5EBA3	1,216.19	6.00	100.00	0.03	0.23	0.11	0.09
1967		5EC56	117.07	6.00	100.00	-0.08	0.61	0.06	0.54
1968		5F67B	189.72	8.00	110.00	-0.10	0.45	0.04	0.19
1969		5F683	193.66	12.00	120.00	0.41	0.80	0.05	0.28
1970		5F698	873.77	6.00	100.00	0.02	0.19	0.06	0.06
1971		5F699	220.74	6.00	100.00	0.06	0.45	0.07	0.31
1972		5F69B	168.52	6.00	100.00	0.07	0.54	0.07	0.43
1973		5F69D	334.07	8.00	110.00	0.000000	0.00000	0.00	0.00
1974		5F6CC	500.98	6.00	100.00	-0.03	0.26	0.06	0.11
1975		5F6EE	146.45	6.00	100.00	-0.15	1.20	0.28	1.89
1976		5F752	532.51	6.00	100.00	-0.07	0.54	0.23	0.43
1977		5F89C	281.31	6.00	100.00	-0.08	0.67	0.18	0.63
1978		600E3	250.28	8.00	110.00	0.04	0.16	0.01	0.03
1979		600FB	109.24	8.00	110.00	0.04	0.16	0.00	0.03
1980		6010D	228.00	8.00	110.00	0.00	0.00	0.00	0.00
1981		60118	154.61	8.00	110.00	0.04	0.16	0.00	0.03
1982		6011B	553.97	8.00	110.00	-0.01	0.04	0.000	0.000
1983		6011C	25.77	8.00	110.00	0.03	0.13	0.000	0.01
1984		6014C	138.27	8.00	110.00	-0.01	0.06	0.000	0.00

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1985	6014E	217.85	8.00	110.00	-0.04	0.16	0.01	0.03
1986	60151	169.88	8.00	110.00	-0.04	0.16	0.00	0.03
1987	6019F	169.08	8.00	110.00	0.00	0.00	0.00	0.00
1988	601D2	150.60	8.00	110.00	0.00	0.00	0.00	0.00
1989	60C68	312.34	8.00	110.00	0.00	0.00	0.00	0.00
1990	60CD4	315.03	8.00	110.00	0.04	0.16	0.01	0.03
1991	60CD5	197.13	8.00	110.00	0.04	0.16	0.01	0.03
1992	60D58	701.79	8.00	110.00	-0.02	0.09	0.01	0.01
1993	60D7D	561.97	8.00	110.00	0.02	0.08	0.00	0.01
1994	60E32	276.23	8.00	110.00	0.00	0.00	0.00	0.00
1995	60E68	183.46	8.00	110.00	-0.04	0.16	0.01	0.03
1996	61	16.68	6.00	100.00	0.01	0.05	0.00	0.00
1997	61034	897.27	12.00	120.00	-0.76	1.50	0.81	0.90
1998	61B2A	795.68	12.00	120.00	0.71	1.39	0.62	0.79
1999	61B3C	491.28	12.00	120.00	-0.57	1.12	0.26	0.52
2000	61B43	780.52	12.00	120.00	-0.11	0.22	0.02	0.03
2001	61B49	735.67	12.00	120.00	-0.30	0.60	0.12	0.17
2002	62D65	1,335.86	16.00	125.00	0.44	0.49	0.10	0.07
2003	62D66	1,306.36	16.00	125.00	0.43	0.48	0.10	0.07
2004	63	36.60	24.00	130.00	0.92	0.45	0.00	0.04
2005	639	64.75	16.00	125.00	0.47	0.52	0.01	0.08
2006	641	473.90	16.00	125.00	0.47	0.53	0.04	0.09
2007	643	79.94	16.00	125.00	0.49	0.55	0.01	0.09
2008	645	232.92	16.00	125.00	0.48	0.53	0.02	0.09
2009	647	113.30	16.00	125.00	0.42	0.46	0.01	0.07
2010	6483E	1,600.21	8.00	110.00	-0.12	0.53	0.40	0.25
2011	649	467.15	16.00	125.00	0.37	0.41	0.02	0.05
2012	651	279.14	16.00	125.00	0.31	0.35	0.01	0.04
2013	653	283.17	16.00	125.00	0.27	0.30	0.01	0.03
2014	655	2,280.84	16.00	125.00	0.14	0.15	0.02	0.01
2015	657	95.03	16.00	125.00	0.15	0.16	0.000	0.01

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2016		659	367.83	16.00	125.00	0.00	0.00	0.00	0.00
2017		661	234.07	16.00	125.00	-0.02	0.02	0.00	0.00
2018		664A6	1,091.36	8.00	110.00	-0.02	0.08	0.01	0.01
2019		664B5	199.47	8.00	110.00	0.06	0.26	0.01	0.07
2020		664B9	276.79	8.00	110.00	-0.08	0.34	0.03	0.11
2021		664BB	1,017.71	8.00	110.00	0.01	0.06	0.00	0.00
2022		664BE	463.18	12.00	120.00	0.26	0.51	0.06	0.12
2023		664BF	351.00	12.00	120.00	0.22	0.44	0.03	0.09
2024		664C2	70.50	12.00	120.00	-0.14	0.27	0.00	0.04
2025		664C4	239.37	12.00	120.00	0.12	0.23	0.01	0.03
2026		664C5	269.90	12.00	120.00	0.05	0.09	0.00	0.00
2027		664C6	555.80	12.00	120.00	0.04	0.07	0.00	0.00
2028		664D0	355.15	8.00	110.00	-0.09	0.40	0.05	0.15
2029		664D1	270.00	8.00	110.00	-0.10	0.44	0.05	0.18
2030		664F1	435.85	12.00	120.00	0.30	0.58	0.07	0.16
2031		66514	203.99	6.00	100.00	0.01	0.09	0.00	0.01
2032		66530	439.00	12.00	120.00	-0.07	0.14	0.01	0.01
2033		66531	991.82	12.00	120.00	-0.11	0.22	0.03	0.03
2034		6654A	199.12	8.00	110.00	-0.03	0.12	0.00	0.02
2035		66552	49.83	6.00	100.00	-0.02	0.15	0.00	0.04
2036		6655A	188.15	12.00	120.00	-0.12	0.23	0.01	0.03
2037		6656F	846.05	6.00	100.00	0.00	0.03	0.00	0.00
2038		66581	1,068.43	6.00	100.00	-0.00	0.04	0.00	0.00
2039		66595	147.89	12.00	120.00	0.000000	0.00000	0.00	0.00
2040		6659F	237.91	8.00	110.00	0.04	0.16	0.01	0.03
2041		665E6	349.67	8.00	110.00	-0.01	0.06	0.00	0.00
2042		665F9	298.57	8.00	110.00	-0.07	0.31	0.03	0.09
2043		66643	37.98	12.00	120.00	0.06	0.11	0.000	0.01
2044		6666E	73.99	6.00	100.00	-0.02	0.15	0.00	0.04
2045		66670	106.33	12.00	120.00	-0.13	0.26	0.00	0.04
2046		666D8	1,280.11	6.00	100.00	-0.00	0.02	0.00	0.000

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2047		66754	1,361.98	8.00	110.00	0.00	0.01	0.000	0.000
2048		6685F	500.34	6.00	100.00	0.03	0.27	0.06	0.12
2049		6686F	696.52	6.00	100.00	0.01	0.10	0.01	0.02
2050		668B3	376.67	12.00	120.00	-0.41	0.80	0.11	0.28
2051		668BE	266.41	12.00	120.00	-0.47	0.93	0.10	0.37
2052		66919	285.00	8.00	110.00	0.13	0.56	0.08	0.28
2053		6695B	357.27	6.00	100.00	0.00	0.00	0.00	0.00
2054		66A1D	270.01	8.00	110.00	0.04	0.18	0.01	0.03
2055		66A77	1,143.95	6.00	100.00	-0.01	0.10	0.02	0.02
2056		66A7B	896.74	6.00	100.00	-0.01	0.08	0.01	0.01
2057		66A7E	341.19	6.00	100.00	-0.00	0.02	0.000	0.00
2058		66A9E	270.00	8.00	110.00	0.04	0.16	0.01	0.03
2059		66ADA	718.09	6.00	100.00	0.00	0.02	0.000	0.000
2060		66ADB	257.45	8.00	110.00	-0.04	0.17	0.01	0.03
2061		66B10	270.00	6.00	100.00	0.02	0.14	0.01	0.04
2062		66B26	254.85	8.00	110.00	-0.04	0.16	0.01	0.03
2063		66B27	264.84	6.00	100.00	0.00	0.00	0.00	0.00
2064		66B64	270.01	8.00	110.00	-0.03	0.14	0.01	0.02
2065		671	1,989.86	12.00	120.00	0.83	1.64	2.13	1.07
2066		673	811.49	12.00	120.00	0.000000	0.00000	0.00	0.00
2067		675	55.55	12.00	120.00	-0.83	1.64	0.06	1.07
2068		677	1,083.13	12.00	120.00	-0.28	0.55	0.15	0.14
2069		679	34.30	12.00	120.00	-0.08	0.15	0.000	0.01
2070		67AA6	588.44	10.00	115.00	0.64	1.81	1.00	1.71
2071		681	169.32	12.00	120.00	0.000	0.00	0.00	0.00
2072		686C6	101.26	8.00	110.00	0.08	0.33	0.01	0.10
2073		686CC	427.47	8.00	110.00	0.03	0.15	0.01	0.03
2074		6AF42	281.26	8.00	110.00	0.03	0.15	0.01	0.02
2075		6AF44	483.45	8.00	110.00	0.01	0.07	0.00	0.01
2076		6AF45	7.38	6.00	100.00	-0.01	0.12	0.000	0.03
2077		6AF46	501.72	6.00	100.00	-0.01	0.10	0.01	0.02

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2078		6AF6D	643.84	6.00	100.00	-0.01	0.06	0.01	0.01
2079		6AFC8	179.43	8.00	110.00	-0.01	0.07	0.000	0.00
2080		6B000	903.45	6.00	100.00	-0.01	0.12	0.02	0.02
2081		6BD91	1,097.96	12.00	120.00	-0.41	0.82	0.32	0.29
2082		6BD95	60.36	12.00	120.00	-0.44	0.86	0.02	0.32
2083		6BDB7	17.67	8.00	110.00	0.02	0.09	0.000	0.01
2084		6BDD6	30.00	8.00	110.00	0.00	0.01	0.00	0.00
2085		6BE40	303.31	12.00	120.00	-0.49	0.96	0.12	0.39
2086		6D054	1,026.76	6.00	100.00	-0.01	0.05	0.01	0.01
2087		6D090	308.63	6.00	100.00	-0.03	0.27	0.04	0.12
2088		6D092	466.88	6.00	100.00	-0.04	0.34	0.08	0.18
2089		70BFB	372.55	6.00	100.00	-0.01	0.06	0.00	0.01
2090		72407	324.57	8.00	110.00	-0.02	0.08	0.00	0.01
2091		72420	67.00	8.00	110.00	-0.02	0.10	0.000	0.01
2092		73EBF	633.04	8.00	110.00	0.00	0.00	0.00	0.00
2093		77EF7	179.50	12.00	120.00	-0.07	0.14	0.00	0.01
2094		77EF9	444.52	12.00	120.00	0.12	0.23	0.01	0.03
2095		77EFD	226.53	12.00	120.00	-0.24	0.48	0.02	0.11
2096		77F00	342.19	12.00	120.00	-0.27	0.53	0.04	0.13
2097		77F0A	178.60	8.00	110.00	0.04	0.19	0.01	0.04
2098		7D052	281.80	6.00	100.00	0.00	0.00	0.00	0.00
2099		7D059	112.48	6.00	100.00	0.00	0.00	0.00	0.00
2100		7D05F	269.32	8.00	110.00	-0.12	0.53	0.07	0.25
2101		7D073	181.38	6.00	100.00	0.000000	0.0000	0.00	0.00
2102		7D171	151.86	16.00	125.00	-0.31	0.34	0.01	0.04
2103		7D172	261.00	16.00	125.00	-0.25	0.28	0.01	0.03
2104		7D173	1,229.90	16.00	125.00	-1.14	1.26	0.53	0.43
2105		7D178	128.81	16.00	125.00	1.36	1.51	0.08	0.60
2106		7D1E7	1,307.30	6.00	100.00	0.12	0.93	1.53	1.17
2107		7D1F4	309.26	16.00	125.00	2.62	2.90	0.63	2.03
2108		7D20D	661.25	16.00	125.00	2.62	2.90	1.34	2.03

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2109		7D38F	573.00	8.00	110.00	0.00	0.00	0.00	0.00
2110		7D390	215.07	8.00	110.00	-0.46	2.03	0.64	2.98
2111		7D391	270.00	6.00	100.00	0.10	0.79	0.23	0.86
2112		7D39D	53.98	6.00	100.00	-0.04	0.29	0.01	0.14
2113		7D39E	218.69	6.00	100.00	-0.03	0.24	0.02	0.09
2114		7D39F	455.23	6.00	100.00	-0.02	0.18	0.02	0.05
2115		7D3A0	97.14	6.00	100.00	-0.03	0.22	0.01	0.08
2116		7D3A9	267.43	6.00	100.00	-0.02	0.15	0.01	0.04
2117		7DB03	2,269.91	6.00	100.00	-0.01	0.07	0.02	0.01
2118		7DB2F	846.54	6.00	100.00	0.03	0.22	0.07	0.08
2119		7DB44	1,109.10	6.00	100.00	0.05	0.42	0.29	0.26
2120		7DB5C	1,109.41	6.00	100.00	0.06	0.46	0.36	0.32
2121		7DB77	164.84	6.00	100.00	0.00	0.00	0.00	0.00
2122		7DB86	269.96	6.00	100.00	0.06	0.47	0.09	0.33
2123		7E85D	95.37	16.00	125.00	0.23	0.25	0.00	0.02
2124		7E86B	345.01	16.00	125.00	0.23	0.25	0.01	0.02
2125		7E8C6	345.98	12.00	120.00	-0.23	0.46	0.03	0.10
2126		7EF77	141.27	8.00	110.00	0.00	0.00	0.00	0.00
2127		7EF86	144.00	6.00	100.00	0.06	0.49	0.05	0.36
2128		7EF89	711.34	8.00	110.00	0.00	0.00	0.00	0.00
2129		7EF8F	5.00	16.00	125.00	-1.14	1.26	0.00	0.44
2130		7EF95	20.00	6.00	100.00	-0.06	0.46	0.01	0.32
2131		7EFA4	360.70	8.00	110.00	-0.09	0.39	0.05	0.14
2132		8980F	360.65	8.00	110.00	0.14	0.61	0.12	0.32
2133		898A5	141.64	8.00	110.00	0.00	0.00	0.00	0.00
2134		898DD	249.30	6.00	100.00	-0.10	0.76	0.20	0.80
2135		89902	637.91	8.00	110.00	0.06	0.26	0.04	0.07
2136		8B006	145.03	6.00	100.00	-0.11	0.91	0.16	1.12
2137		8B012	987.66	6.00	100.00	-0.01	0.07	0.01	0.01
2138		8B02D	487.61	10.00	115.00	0.64	1.81	0.83	1.71
2139		8B036	270.00	12.00	120.00	0.33	0.66	0.05	0.19

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2140		8B039	1,510.38	6.00	100.00	-0.03	0.21	0.12	0.08
2141		8B04E	720.51	8.00	110.00	-0.000000	0.00000	0.00	0.00
2142		8B057	308.38	8.00	110.00	0.00	0.00	0.00	0.00
2143		8B05F	323.98	8.00	110.00	-0.03	0.12	0.01	0.02
2144		8B062	25.42	6.00	100.00	0.02	0.17	0.00	0.05
2145		8B065	20.79	10.00	115.00	-0.000000	0.00000	0.00	0.00
2146		8B077	743.91	12.00	120.00	0.35	0.68	0.16	0.21
2147		8B092	644.00	6.00	100.00	0.03	0.23	0.05	0.09
2148		8B0A1	1,364.83	4.00	90.00	-0.01	0.16	0.11	0.08
2149		8B0A4	264.01	6.00	100.00	-0.09	0.68	0.17	0.66
2150		8B0A7	146.90	4.00	90.00	0.03	0.50	0.11	0.72
2151		8B0AA	225.43	6.00	100.00	-0.01	0.08	0.00	0.01
2152		8B0AD	620.27	24.00	130.00	-2.49	1.23	0.15	0.24
2153		8B0B3	419.87	6.00	100.00	0.07	0.54	0.18	0.42
2154		8B0D1	543.93	6.00	100.00	0.02	0.12	0.02	0.03
2155		8B0DD	1,219.33	6.00	100.00	-0.04	0.33	0.20	0.17
2156		8B0E0	1,708.28	6.00	100.00	0.02	0.17	0.08	0.05
2157		8B0F2	848.25	16.00	125.00	1.49	1.65	0.61	0.71
2158		8B0FE	43.81	8.00	110.00	-0.00	0.02	0.00	0.00
2159		8B110	169.95	8.00	110.00	0.07	0.29	0.01	0.08
2160		8B11C	1,114.38	8.00	110.00	-0.00	0.02	0.000	0.000
2161		8B12E	477.30	6.00	100.00	-0.15	1.18	0.88	1.83
2162		8B143	1,852.23	16.00	125.00	-1.86	2.06	1.99	1.08
2163		8B14F	109.58	16.00	125.00	-0.03	0.03	0.00	0.00
2164		8B16A	284.15	8.00	110.00	0.07	0.30	0.02	0.09
2165		8B16D	403.63	8.00	110.00	0.01	0.06	0.00	0.00
2166		8B179	79.58	12.00	120.00	0.46	0.91	0.03	0.36
2167		8B17C	59.00	12.00	120.00	0.00	0.00	0.00	0.00
2168		8B17F	22.00	12.00	120.00	-0.000000	0.00000	0.00	0.00
2169		8B182	396.42	8.00	110.00	0.03	0.12	0.01	0.02
2170		8B185	207.78	6.00	100.00	0.07	0.54	0.09	0.43

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2171		8B188	126.99	6.00	100.00	0.09	0.69	0.09	0.67
2172		8B1A3	269.93	6.00	100.00	-0.04	0.35	0.05	0.19
2173		8B1B5	903.00	6.00	100.00	-0.02	0.19	0.06	0.06
2174		8B1BE	200.17	8.00	110.00	0.16	0.71	0.09	0.43
2175		8B1CD	91.20	24.00	140.00	-0.00000	0.000000	0.00	0.00
2176		8B1D0	1,911.87	16.00	125.00	-0.90	0.99	0.53	0.28
2177		8B29C	579.65	10.00	115.00	-0.09	0.26	0.03	0.05
2178		8B29F	104.43	8.00	110.00	0.17	0.76	0.05	0.48
2179		8B2AE	577.49	10.00	115.00	0.41	1.17	0.44	0.76
2180		8B2BA	141.67	8.00	110.00	0.05	0.21	0.01	0.04
2181		8B2C3	770.01	6.00	100.00	0.01	0.07	0.01	0.01
2182		8B2D2	1,133.15	6.00	100.00	-0.01	0.11	0.02	0.02
2183		8B2D8	554.90	12.00	120.00	0.09	0.18	0.01	0.02
2184		8B2E1	317.00	8.00	110.00	-0.02	0.08	0.00	0.01
2185		8B2E7	146.90	8.00	110.00	0.00	0.00	0.00	0.00
2186		8B2F8	425.03	8.00	110.00	0.00	0.00	0.00	0.00
2187		8B304	1,064.07	12.00	120.00	-0.90	1.78	1.32	1.24
2188		8B319	223.62	36.00	140.00	5.18	1.13	0.03	0.11
2189		8B322	1,292.92	6.00	100.00	0.01	0.11	0.03	0.02
2190		8B32E	1,304.87	6.00	100.00	-0.02	0.18	0.07	0.05
2191		8B33D	778.06	24.00	130.00	-4.26	2.10	0.50	0.65
2192		8B376	498.30	20.00	130.00	-0.05	0.04	0.000	0.000
2193		8B388	637.78	6.00	100.00	-0.05	0.38	0.14	0.22
2194		8B397	269.40	6.00	100.00	-0.01	0.04	0.00	0.00
2195		8B39A	1,421.55	6.00	100.00	0.00	0.03	0.00	0.00
2196		8B3B4	2,609.62	16.00	125.00	1.22	1.36	1.30	0.50
2197		8B7E4	52.55	8.00	110.00	-0.04	0.16	0.00	0.03
2198		8B7EB	287.84	8.00	110.00	-0.000000	0.00000	0.00	0.00
2199		8B7FE	204.74	8.00	110.00	0.00	0.00	0.00	0.00
2200		8B816	466.23	12.00	120.00	0.30	0.60	0.08	0.16
2201		8B858	598.41	12.00	120.00	-0.15	0.30	0.03	0.05

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2202		8B899	128.08	12.00	120.00	-0.46	0.90	0.05	0.35
2203		8C218	138.18	8.00	110.00	0.03	0.13	0.00	0.02
2204		8C504	295.00	8.00	110.00	0.03	0.13	0.01	0.02
2205		8C50E	489.00	6.00	100.00	0.01	0.07	0.00	0.01
2206		8C511	197.77	6.00	100.00	0.02	0.15	0.01	0.04
2207		8C514	264.00	8.00	110.00	0.03	0.13	0.00	0.02
2208		8C520	190.63	12.00	120.00	-0.42	0.82	0.06	0.30
2209		8C550	1,227.15	12.00	120.00	0.12	0.23	0.03	0.03
2210		8C56B	108.87	6.00	100.00	-0.10	0.80	0.10	0.89
2211		8C56E	542.62	6.00	100.00	-0.04	0.33	0.09	0.17
2212		8C57D	458.03	6.00	100.00	0.01	0.09	0.01	0.02
2213		8C634	1,160.57	6.00	100.00	0.00	0.03	0.00	0.00
2214		8C63E	258.09	12.00	120.00	-0.28	0.56	0.04	0.14
2215		8C7FA	258.78	6.00	100.00	-0.06	0.46	0.08	0.32
2216		8C803	1,209.35	6.00	100.00	-0.00	0.03	0.00	0.00
2217		8C806	575.21	6.00	100.00	0.05	0.38	0.13	0.22
2218		8C80C	597.00	8.00	110.00	0.17	0.74	0.27	0.46
2219		8C85F	1,405.84	6.00	100.00	-0.01	0.08	0.02	0.01
2220		8C878	343.46	16.00	125.00	-0.93	1.03	0.10	0.30
2221		8C8DA	525.84	8.00	110.00	-0.10	0.46	0.10	0.19
2222		8C8E3	849.04	6.00	100.00	0.04	0.30	0.12	0.14
2223		8C8EC	285.00	6.00	100.00	0.02	0.18	0.02	0.06
2224		8C8EF	270.00	12.00	120.00	0.39	0.78	0.07	0.27
2225		8C8FB	765.85	6.00	100.00	0.02	0.13	0.03	0.03
2226		8C914	881.87	6.00	100.00	-0.01	0.04	0.00	0.00
2227		8C91A	859.22	6.00	100.00	-0.01	0.06	0.01	0.01
2228		8C92C	801.04	6.00	100.00	0.02	0.13	0.02	0.03
2229		8C932	240.20	8.00	110.00	-0.05	0.24	0.01	0.06
2230		8C948	190.00	12.00	120.00	-0.25	0.48	0.02	0.11
2231		8C95E	906.98	8.00	110.00	-0.02	0.09	0.01	0.01
2232		8C985	869.62	8.00	110.00	-0.01	0.03	0.00	0.00

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2233	8C98F	56.19	16.00	125.00	-1.10	1.22	0.02	0.41
2234	8C9AC	41.42	12.00	120.00	0.03	0.05	0.00	0.00
2235	8C9CC	648.35	6.00	100.00	0.03	0.27	0.08	0.12
2236	8C9D2	478.00	6.00	100.00	-0.01	0.08	0.01	0.01
2237	8C9D8	1,349.16	16.00	125.00	-0.09	0.10	0.01	0.00
2238	8C9E0	14.12	24.00	130.00	-0.92	0.45	0.000	0.03
2239	8C9E6	332.87	6.00	100.00	0.10	0.81	0.30	0.90
2240	8C9FB	521.13	6.00	100.00	0.02	0.16	0.02	0.05
2241	8CA01	1,248.01	6.00	100.00	-0.02	0.20	0.08	0.07
2242	8CA0D	795.90	6.00	100.00	0.03	0.21	0.06	0.08
2243	8CA10	235.00	6.00	100.00	0.03	0.21	0.02	0.08
2244	8CA23	479.61	6.00	100.00	-0.05	0.38	0.11	0.23
2245	8CA2C	379.84	6.00	100.00	0.07	0.59	0.19	0.50
2246	8CA41	641.31	6.00	100.00	-0.05	0.38	0.14	0.22
2247	8CA72	1,308.65	24.00	130.00	-0.000000	0.00	0.00	0.00
2248	8CB0B	1,339.20	6.00	100.00	-0.02	0.15	0.06	0.04
2249	8CB0E	347.92	8.00	110.00	-0.09	0.40	0.05	0.15
2250	8CB14	280.75	8.00	110.00	-0.07	0.31	0.03	0.09
2251	8CB29	656.45	6.00	100.00	0.01	0.07	0.01	0.01
2252	8CB54	1,299.23	6.00	100.00	0.02	0.17	0.06	0.05
2253	8CCE2	400.11	24.00	130.00	0.90	0.44	0.01	0.04
2254	8CD7E	926.04	24.00	130.00	-0.85	0.42	0.03	0.03
2255	8CF89	730.46	16.00	125.00	-1.26	1.39	0.38	0.52
2256	8CF8F	236.28	12.00	120.00	0.51	1.01	0.10	0.43
2257	8CFBE	419.93	8.00	110.00	0.00	0.01	0.000	0.000
2258	8CFC2	12.85	16.00	125.00	5.12	5.68	0.09	7.05
2259	8CFC5	83.00	12.00	120.00	-0.34	0.67	0.02	0.20
2260	8CFCF	457.46	12.00	120.00	0.28	0.56	0.07	0.15
2261	8CFDB	1,155.48	6.00	100.00	-0.02	0.16	0.05	0.05
2262	8CFE1	254.66	12.00	120.00	-0.25	0.49	0.03	0.11
2263	8D011	804.41	6.00	100.00	-0.00	0.03	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2264		8D02C	348.06	8.00	110.00	-0.22	0.96	0.26	0.75
2265		8D02F	556.37	8.00	110.00	-0.28	1.24	0.66	1.19
2266		8D0DB	1,377.66	8.00	110.00	-0.16	0.71	0.58	0.42
2267		8D0E7	297.13	8.00	110.00	0.07	0.29	0.02	0.08
2268		8D0ED	213.91	8.00	110.00	0.000000	0.00000	0.00	0.00
2269		8D0F0	1,124.61	12.00	120.00	0.63	1.24	0.71	0.63
2270		8D0F4	1,751.95	12.00	120.00	-0.23	0.46	0.18	0.10
2271		8D100	166.90	12.00	120.00	-0.23	0.46	0.02	0.10
2272		8D109	1,254.78	6.00	100.00	-0.00	0.03	0.00	0.00
2273		8D12E	856.48	6.00	100.00	-0.03	0.20	0.06	0.07
2274		8D14B	394.12	8.00	110.00	-0.05	0.22	0.02	0.05
2275		8D167	120.05	16.00	125.00	-0.99	1.09	0.04	0.33
2276		8D179	291.34	6.00	100.00	-0.09	0.69	0.20	0.68
2277		8D182	188.37	6.00	100.00	-0.03	0.21	0.01	0.08
2278		8D185	187.63	6.00	100.00	-0.09	0.71	0.13	0.72
2279		8D18B	889.96	6.00	100.00	-0.06	0.46	0.28	0.32
2280		8D18E	591.17	6.00	100.00	0.00	0.02	0.000	0.00
2281		8D1A0	514.68	8.00	110.00	-0.06	0.28	0.04	0.07
2282		8D1A4	387.86	16.00	125.00	-1.47	1.63	0.27	0.70
2283		8D1AA	292.21	6.00	100.00	0.09	0.74	0.22	0.77
2284		8D1AD	255.93	6.00	100.00	-0.10	0.75	0.20	0.79
2285		8D1B0	291.61	8.00	110.00	0.06	0.27	0.02	0.07
2286		8D1B3	326.86	6.00	100.00	-0.05	0.37	0.07	0.22
2287		8D1B9	498.00	16.00	125.00	-1.62	1.80	0.42	0.84
2288		8D1BF	383.77	6.00	100.00	0.03	0.22	0.03	0.08
2289		8D1D9	458.64	24.00	130.00	0.20	0.10	0.00	0.00
2290		8D1F8	298.33	20.00	130.00	0.00	0.00	0.00	0.00
2291		8D204	856.34	20.00	130.00	-0.07	0.05	0.000	0.000
2292		8D208	292.00	8.00	110.00	0.14	0.60	0.09	0.31
2293		8D217	1,292.23	8.00	110.00	-0.03	0.15	0.03	0.02
2294		8D223	460.58	8.00	110.00	-0.14	0.64	0.16	0.35

Base Year Maximum Hour Pipe

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2295	8D26F	639.50	20.00	130.00	-0.05	0.04	0.000	0.000
2296	8D297	400.45	24.00	130.00	1.00	0.49	0.02	0.04
2297	8D72E	27.83	6.00	100.00	-0.04	0.34	0.01	0.18
2298	8D733	91.28	8.00	110.00	0.05	0.23	0.00	0.05
2299	8D7D2	1,308.93	6.00	100.00	-0.03	0.22	0.10	0.08
2300	8D7F7	10.00	16.00	125.00	0.49	0.54	0.000	0.09
2301	8E0D6	2,654.15	24.00	130.00	0.00	0.00	0.00	0.00
2302	8E0F7	245.91	8.00	110.00	-0.18	0.79	0.13	0.52
2303	8E116	35.74	8.00	110.00	0.08	0.36	0.00	0.12
2304	8E30B	82.49	8.00	110.00	0.03	0.13	0.00	0.02
2305	8E33C	116.20	24.00	130.00	-2.33	1.15	0.02	0.21
2306	903C4	52.12	16.00	125.00	-1.26	1.39	0.03	0.52
2307	9087C	640.41	8.00	110.00	0.03	0.14	0.01	0.02
2308	9089A	177.13	8.00	110.00	0.02	0.10	0.00	0.01
2309	9089D	186.63	8.00	110.00	0.02	0.10	0.00	0.01
2310	908BD	359.91	8.00	110.00	-0.01	0.04	0.000	0.00
2311	908E6	350.00	8.00	110.00	0.000000	0.00000	0.00	0.00
2312	90918	345.02	8.00	110.00	0.00	0.00	0.00	0.00
2313	90940	635.33	8.00	110.00	-0.02	0.10	0.01	0.01
2314	90BCB	421.39	8.00	110.00	-0.13	0.57	0.12	0.28
2315	90BDF	125.68	6.00	100.00	-0.01	0.07	0.00	0.01
2316	90BE3	178.58	6.00	100.00	0.05	0.39	0.04	0.23
2317	90BEA	587.41	6.00	100.00	0.22	1.77	2.27	3.86
2318	90BFD	1,047.60	6.00	100.00	0.01	0.11	0.03	0.02
2319	90C28	586.73	6.00	100.00	-0.19	1.53	1.73	2.94
2320	90C2D	23.77	10.00	115.00	0.19	0.55	0.00	0.19
2321	90C2E	564.40	6.00	100.00	0.00	0.00	0.00	0.00
2322	90C4E	99.71	6.00	100.00	0.12	0.93	0.12	1.17
2323	90C60	742.96	6.00	100.00	-0.07	0.54	0.32	0.43
2324	90C7A	17.05	6.00	100.00	-0.18	1.38	0.04	2.44
2325	90C7D	577.96	6.00	100.00	0.05	0.40	0.14	0.24

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2326		90C90	68.19	18.00	125.00	5.12	4.49	0.27	3.97
2327		90C93	68.75	18.00	125.00	0.05	0.05	0.000	0.00
2328		90EA3	672.90	12.00	120.00	0.00	0.00	0.00	0.00
2329		90EE4	138.83	8.00	110.00	0.00	0.00	0.00	0.00
2330		92562	2,902.44	12.00	120.00	-0.90	1.78	3.59	1.24
2331		929EB	112.00	16.00	125.00	-3.40	3.77	0.37	3.30
2332		B4CE1	716.07	16.00	125.00	0.89	0.98	0.20	0.27
2333		B4CFD	219.74	16.00	125.00	0.86	0.96	0.06	0.26
2334		C7E85	389.43	12.00	120.00	-0.09	0.18	0.01	0.02
2335		C7E9D	3,581.45	12.00	120.00	0.28	0.55	0.51	0.14
2336		C7EA0	10.00	12.00	120.00	0.28	0.55	0.00	0.15
2337		C7EA6	1,150.45	8.00	110.00	0.000	0.00	0.00	0.00
2338		C7EBA	55.00	8.00	110.00	0.00	0.00	0.00	0.00
2339		C7EC8	590.58	8.00	110.00	0.000	0.00	0.00	0.00
2340		C7F34	453.80	6.00	100.00	-0.000	0.00	0.00	0.00
2341		C841D	485.76	8.00	110.00	0.00	0.00	0.00	0.00
2342		CA404	317.13	8.00	110.00	0.00	0.00	0.00	0.00
2343		CCCCE	158.01	8.00	110.00	-0.03	0.15	0.00	0.02
2344		CCCDD	223.77	8.00	110.00	-0.000000	0.00000	0.00	0.00
2345		CCCFA	644.14	8.00	110.00	0.03	0.15	0.02	0.02
2346		CCD4A	337.24	8.00	110.00	0.16	0.70	0.14	0.42
2347		CCD54	1,287.92	8.00	110.00	0.16	0.70	0.54	0.42
2348		CCD64	397.42	8.00	110.00	0.000000	0.00000	0.00	0.00
2349		CCD86	209.97	8.00	110.00	0.19	0.83	0.12	0.56
2350		CCDB8	388.39	8.00	110.00	0.00	0.00	0.00	0.00
2351		CD3E7	1,246.77	6.00	100.00	0.02	0.16	0.06	0.05
2352		CE017	336.48	8.00	110.00	0.000000	0.00000	0.00	0.00
2353		CE04E	128.63	6.00	100.00	0.00	0.00	0.00	0.00
2354		CE090	234.45	8.00	110.00	0.00	0.00	0.00	0.00
2355		CE094	233.01	8.00	110.00	0.00	0.00	0.00	0.00
2356		CF74D	827.93	6.00	100.00	-0.02	0.19	0.05	0.06

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2357		CF794	618.52	6.00	100.00	-0.02	0.19	0.04	0.06
2358		D2003	270.17	12.00	120.00	0.00000	0.0000	0.00	0.00
2359		D2013	18.67	12.00	120.00	0.00000	0.00000	0.00	0.00
2360		D2016	79.11	12.00	120.00	0.000000	0.00000	0.00	0.00
2361		D2027	470.00	12.00	120.00	-0.00000	0.00000	0.00	0.00
2362		D2032	420.00	12.00	120.00	0.00000	0.00000	0.00	0.00
2363		D203D	99.00	12.00	120.00	0.000000	0.00000	0.00	0.00
2364		D203E	300.79	12.00	120.00	0.000000	0.00000	0.00	0.00
2365		D204E	139.21	12.00	120.00	0.000000	0.00000	0.00	0.00
2366		D2050	99.00	12.00	120.00	0.00	0.00	0.00	0.00
2367		D2056	99.00	12.00	120.00	0.00	0.00	0.00	0.00
2368		D205B	240.00	12.00	120.00	0.000000	0.00000	0.00	0.00
2369		D2066	73.98	12.00	120.00	0.00	0.00	0.00	0.00
2370		D2094	600.00	12.00	120.00	0.000000	0.00000	0.00	0.00
2371		D209D	228.87	12.00	120.00	-0.000000	0.00000	0.00	0.00
2372		D20A7	420.97	12.00	120.00	0.000000	0.00000	0.00	0.00
2373		D20AA	452.13	12.00	120.00	0.00	0.00	0.00	0.00
2374		D252B	135.34	8.00	110.00	-0.01	0.06	0.000	0.00
2375		D2547	785.03	8.00	110.00	0.000000	0.00000	0.00	0.00
2376		D254C	155.91	6.00	100.00	0.000000	0.0000	0.00	0.00
2377		D2671	136.90	6.00	100.00	0.00	0.00	0.00	0.00
2378		D38FC	839.74	6.00	100.00	-0.000	0.00	0.00	0.00
2379		D3931	140.03	6.00	100.00	0.00	0.00	0.00	0.00
2380		D3946	138.03	6.00	100.00	0.000000	0.0000	0.00	0.00
2381		D3947	364.62	6.00	100.00	0.000	0.00	0.000	0.000
2382		D81FC	2,997.46	10.00	115.00	0.00	0.00	0.00	0.00
2383		DBA89	322.01	8.00	110.00	-0.000000	0.00000	0.00	0.00
2384		DBABE	228.45	8.00	110.00	-0.000000	0.00000	0.00	0.00
2385		DBB0F	276.20	8.00	110.00	0.00	0.01	0.000	0.000
2386		DBB1E	13.34	12.00	120.00	-0.19	0.37	0.000	0.06
2387		DBB21	20.19	6.00	100.00	-0.22	1.74	0.08	3.73

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2388		DBDF3	1,262.26	8.00	110.00	-0.08	0.35	0.15	0.12
2389		DBDFB	771.00	6.00	100.00	-0.05	0.42	0.20	0.26
2390		DBE31	1,324.24	12.00	120.00	-0.60	1.19	0.78	0.59
2391		DBED8	281.01	8.00	110.00	0.000000	0.00000	0.00	0.00
2392		DBEDE	158.02	8.00	110.00	-0.000000	0.00000	0.00	0.00
2393		DBEE8	35.00	8.00	110.00	0.09	0.40	0.01	0.15
2394		DBF3A	1,182.11	8.00	110.00	0.01	0.04	0.00	0.00
2395		DC06F	1,103.99	8.00	110.00	0.00	0.00	0.00	0.00
2396		DC140	139.83	4.00	90.00	-0.02	0.41	0.07	0.50
2397		DC145	230.85	8.00	110.00	0.07	0.29	0.02	0.08
2398		DF4E0	2,168.77	16.00	125.00	-2.19	2.42	3.16	1.46
2399		E2875	477.94	10.00	115.00	0.00	0.00	0.00	0.00
2400		E2887	479.00	8.00	110.00	0.00	0.00	0.00	0.00
2401		E28AD	565.00	8.00	110.00	0.00	0.00	0.00	0.00
2402		E28BA	72.00	10.00	115.00	0.00	0.00	0.00	0.00
2403		E28BB	268.06	10.00	115.00	0.00	0.00	0.00	0.00
2404		E4D39	190.00	4.00	90.00	0.05	0.82	0.34	1.82
2405		E4D4A	206.68	8.00	110.00	0.00	0.00	0.00	0.00
2406		E5A59	908.13	8.00	110.00	-0.02	0.10	0.01	0.01
2407		E5ADA	187.66	24.00	130.00	-2.89	1.43	0.06	0.32
2408		E5ADB	719.97	8.00	110.00	0.05	0.21	0.03	0.04
2409		E5B17	537.95	8.00	110.00	0.00	0.00	0.00	0.00
2410		E5B55	841.56	6.00	100.00	0.02	0.19	0.05	0.06
2411		E5B87	255.87	8.00	110.00	0.000000	0.00000	0.00	0.00
2412		E8FE9	638.64	16.00	125.00	0.09	0.10	0.00	0.00
2413		E8FFE	387.39	8.00	110.00	-0.05	0.22	0.02	0.05
2414		E9019	184.18	8.00	110.00	0.06	0.28	0.01	0.08
2415		E913B	166.00	8.00	110.00	0.06	0.28	0.01	0.08
2416		E9140	137.45	8.00	110.00	0.05	0.21	0.01	0.04
2417		E9161	1,445.00	8.00	110.00	0.02	0.07	0.01	0.01
2418		E919A	420.00	6.00	100.00	0.00	0.00	0.00	0.00

Base Year Maximum Hour Pipe

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2419		E923E	226.11	8.00	110.00	0.02	0.07	0.00	0.01
2420		EE8E6	627.58	12.00	120.00	0.000000	0.00000	0.00	0.00
2421		EE911	114.00	6.00	100.00	0.00	0.00	0.00	0.00
2422		EE914	231.00	12.00	120.00	0.000000	0.00000	0.00	0.00
2423		EE91A	187.00	10.00	115.00	0.00	0.00	0.00	0.00
2424		EE956	712.70	12.00	120.00	0.000000	0.00000	0.00	0.00
2425		EE976	302.00	8.00	110.00	0.00	0.00	0.00	0.00
2426		EE992	13.00	12.00	120.00	0.000000	0.00000	0.00	0.00
2427		EE999	705.00	8.00	110.00	0.00	0.00	0.00	0.00
2428		F5387	142.42	6.00	100.00	0.03	0.20	0.01	0.07
2429		F53A1	202.00	6.00	100.00	0.03	0.20	0.01	0.07
2430		F53AA	326.17	6.00	100.00	0.03	0.20	0.02	0.07
2431		F53B9	190.00	6.00	100.00	0.00	0.00	0.00	0.00

APPENDIX D
BASE YEAR FIRE FLOW REPORT

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1		1000	0.00	72.34	1,173.28	5.04	24.66	5.37	20.00
2		10006	0.00	66.28	1,127.96	5.04	58.58	14.64	20.00
3		1002	0.00	75.08	1,173.28	5.04	23.85	5.29	20.00
4		10034	0.00	62.89	1,127.96	5.04	44.46	8.15	20.00
5		10046	0.00	61.95	1,127.94	5.04	1.12	4.10	20.00
6		10050	0.00	61.61	1,127.94	5.04	-4.85	3.89	20.00
7		10060	0.00	62.71	1,127.95	5.04	37.84	6.83	20.00
8		10064	0.00	62.92	1,127.94	5.04	36.73	6.65	20.00
9		10084	0.00	62.09	1,127.92	5.04	42.46	7.76	20.00
10		10096	0.02	61.61	1,127.91	5.04	43.11	8.01	20.00
11		10106	0.02	62.75	1,127.96	5.04	10.96	4.54	20.00
12		10112	0.00	63.38	1,128.01	5.04	57.38	16.20	20.00
13		10116	0.02	62.08	1,127.95	5.04	20.34	5.08	20.00
14		10134	0.00	61.68	1,127.90	5.04	45.28	8.57	20.00
15		10146	0.01	60.54	1,127.77	5.04	56.88	20.43	20.00
16		1016	0.00	72.92	1,173.28	5.04	10.34	4.52	20.00
17		10180	0.02	60.99	1,126.12	5.04	2.44	4.15	20.00
18		10184	0.00	60.58	1,126.14	5.04	20.27	5.06	20.00
19		10186	0.03	60.46	1,126.12	5.04	-13.59	3.64	20.00
20		102	0.00	58.61	1,127.50	5.04	39.83	7.56	20.00
21		10208	0.02	51.58	1,125.42	5.04	-57.94	2.53	20.00
22		10210	0.00	52.10	1,125.42	5.04	-44.33	2.72	20.00
23		10214	0.03	52.87	1,125.42	5.04	-49.04	2.71	20.00
24		10222	0.02	54.58	1,125.56	5.04	49.75	16.27	20.00
25		10230	0.04	56.53	1,125.47	5.04	-8.52	3.69	20.00
26		10254	0.04	52.30	1,125.70	5.04	-34.94	2.95	20.00
27		1028	0.00	71.85	1,173.28	5.04	1.09	4.13	20.00
28		10292	0.02	56.66	1,125.76	5.04	31.73	6.28	20.00
29		10296	0.02	52.27	1,125.76	5.04	12.67	4.51	20.00
30		10300	0.02	52.16	1,125.82	5.04	8.70	4.28	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
31		10304	0.02	47.99	1,125.75	5.04	-21.81	3.05	20.00
32		10308	0.02	46.37	1,125.74	5.04	-29.83	2.80	20.00
33		10312	0.07	50.07	1,125.74	5.04	-50.63	2.64	20.00
34		10332	0.00	48.15	1,126.12	5.04	35.99	8.19	20.00
35		1036	0.00	72.42	1,173.28	5.04	-6.37	3.90	20.00
36		10404	0.00	76.31	1,124.05	5.04	58.16	11.23	20.00
37		10444	0.00	71.02	1,134.31	5.04	52.93	9.33	20.00
38		10454	0.00	69.50	1,136.14	5.04	30.30	5.74	20.00
39		10466	0.02	65.66	1,129.81	5.04	-27.84	3.39	20.00
40		10484	0.02	66.95	1,129.86	5.04	-1.52	4.09	20.00
41		10488	0.00	66.00	1,129.88	5.04	13.50	4.68	20.00
42		10490	0.00	65.85	1,129.92	5.04	29.53	5.75	20.00
43		10492	0.02	64.51	1,129.84	5.04	-710.45	1.07	20.00
44		10498	0.02	64.74	1,129.89	5.04	9.69	4.50	20.00
45		1050	0.00	74.48	1,173.28	5.04	-12.12	3.78	20.00
46		10500	0.00	62.91	1,129.90	5.04	40.65	7.37	20.00
47		10526	0.03	62.65	1,129.89	5.04	47.56	9.37	20.00
48		10548	0.00	61.79	1,130.03	5.04	50.64	11.05	20.00
49		10550	0.00	61.72	1,130.05	5.04	51.96	11.99	20.00
50		10556	0.02	62.68	1,129.70	5.04	31.10	6.03	20.00
51		10560	0.00	67.03	1,129.70	5.04	28.95	5.69	20.00
52		10562	0.00	62.75	1,129.69	5.04	0.39	4.07	20.00
53		10568	0.00	64.29	1,129.68	5.04	32.62	6.13	20.00
54		10578	0.00	63.52	1,129.64	5.04	16.58	4.82	20.00
55		10582	0.00	59.81	1,131.72	5.04	11.91	4.56	20.00
56		10590	0.00	71.45	1,089.99	5.04	31.65	5.53	20.00
57		10600	0.00	75.20	1,128.55	5.04	57.44	9.61	20.00
58		10612	0.00	71.23	1,128.53	5.04	39.19	6.55	20.00
59		10628	0.00	70.47	1,128.39	5.04	9.16	4.53	20.00
60		10632	0.00	70.55	1,128.39	5.04	34.26	6.06	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
61		10644	0.00	70.13	1,128.34	5.04	39.47	6.64	20.00
62		10656	0.01	69.89	1,128.30	5.04	48.27	8.10	20.00
63		10678	0.00	70.02	1,127.72	5.04	63.01	16.42	20.00
64		10682	0.01	66.19	1,127.77	5.04	47.61	8.47	20.00
65		10686	0.00	69.81	1,128.29	5.04	55.15	10.17	20.00
66		10690	0.00	76.49	1,146.82	5.04	68.36	26.65	20.00
67		10694	0.03	77.49	1,123.33	5.04	54.07	9.22	20.00
68		10716	0.03	74.55	1,126.84	5.04	7.60	4.53	20.00
69		10720	0.00	73.20	1,126.87	5.04	-9.66	3.95	20.00
70		10730	0.00	64.60	1,089.99	5.04	-18.68	3.96	20.00
71		10736	0.02	70.89	1,090.07	5.04	-96.99	2.88	20.00
72		10762	0.02	97.86	1,170.85	5.04	-4.29	4.28	20.00
73		10768	0.00	85.69	1,171.16	5.04	-64.67	3.02	20.00
74		10772	0.00	66.83	1,173.31	5.04	22.53	5.24	20.00
75		10778	0.03	60.38	1,126.14	5.04	-45.80	2.99	20.00
76		108	0.00	61.75	1,127.50	5.04	20.35	5.06	20.00
77		10802	0.00	55.71	1,125.77	5.04	44.01	9.53	20.00
78		10812	0.00	62.75	1,129.81	5.04	-39.36	3.10	20.00
79		10816	0.02	65.81	1,126.89	5.04	14.59	4.75	20.00
80		10856	0.00	81.05	1,122.68	5.04	58.00	9.75	20.00
81		10860	0.00	71.69	1,124.99	5.04	48.67	8.50	20.00
82		10868	0.00	63.76	1,129.66	5.04	27.07	5.59	20.00
83		10872	0.02	62.04	1,129.67	5.04	22.81	5.26	20.00
84		10878	0.02	66.25	1,127.90	5.04	-0.97	4.11	20.00
85		10890	0.00	75.18	1,128.52	5.04	48.47	7.57	20.00
86		10894	0.00	66.30	1,128.01	5.04	62.37	21.37	20.00
87		10898	0.01	64.49	1,127.96	5.04	56.30	13.81	20.00
88		1090	0.00	76.67	1,126.95	5.04	55.75	8.89	20.00
89		10906	0.00	64.77	1,127.96	5.04	56.31	13.57	20.00
90		10912	0.04	66.28	1,127.96	5.04	59.18	15.37	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
91		10920	0.02	64.00	1,127.98	5.04	56.74	14.74	20.00
92		10924	0.02	66.29	1,127.99	5.04	59.55	15.70	20.00
93		10930	0.00	62.18	1,127.93	5.04	39.50	7.15	20.00
94		10958	0.00	80.08	1,173.50	5.04	29.14	5.62	20.00
95		10960	0.00	80.11	1,173.48	5.04	23.52	5.24	20.00
96		10962	0.00	64.42	1,129.68	5.04	33.33	6.21	20.00
97		10970	0.00	59.47	1,173.14	5.04	-7.04	3.57	20.00
98		10980	0.00	83.18	1,126.97	5.04	78.34	23.56	20.00
99		10982	0.00	79.08	1,126.97	5.04	74.27	22.83	20.00
100		10994	0.00	70.23	1,135.14	5.04	41.96	7.00	20.00
101		10996	0.00	64.56	1,129.93	5.04	54.42	12.28	20.00
102		10998	0.02	64.84	1,129.90	5.04	40.12	7.12	20.00
103		11034	0.00	73.86	1,126.87	5.04	-12.17	3.89	20.00
104		11042	0.00	70.61	1,089.99	5.04	30.49	5.48	20.00
105		11052	0.00	85.64	1,172.86	5.04	20.80	5.08	20.00
106		11054	0.00	87.45	1,172.86	5.04	22.89	5.18	20.00
107		11058	0.00	60.79	1,090.07	5.04	22.45	5.15	20.00
108		11060	0.00	61.46	1,090.06	5.04	22.92	5.17	20.00
109		11098	0.00	88.96	1,230.30	5.04	16.70	4.92	20.00
110		11100	0.00	89.05	1,230.30	5.04	17.12	4.94	20.00
111		11104	0.06	81.45	1,173.33	5.04	32.33	5.91	20.00
112		11134	0.02	73.55	1,171.70	5.04	7.59	4.41	20.00
113		11146	0.02	96.58	1,170.85	5.04	-3.84	4.28	20.00
114		11158	0.00	85.64	1,171.18	5.04	-67.54	2.98	20.00
115		11166	0.00	73.32	1,173.28	5.04	26.65	5.52	20.00
116		11172	0.00	64.29	1,174.06	5.04	23.50	5.34	20.00
117		11174	0.00	55.82	1,173.82	5.04	13.34	4.46	20.00
118		11178	0.00	59.49	1,173.55	5.04	15.68	4.69	20.00
119		11190	0.00	56.82	1,126.13	5.04	3.46	4.11	20.00
120		11194	0.02	56.85	1,126.20	5.04	9.42	4.39	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
121		11198	0.00	60.75	1,126.10	5.04	-0.76	4.02	20.00
122		11210	0.00	56.73	1,125.92	5.04	47.18	11.01	20.00
123		11216	0.02	52.76	1,125.76	5.04	19.16	4.98	20.00
124		11224	0.02	53.27	1,126.03	5.04	-1.44	3.85	20.00
125		11238	0.02	74.28	1,173.47	5.04	-47.50	3.11	20.00
126		11240	0.02	66.93	1,129.87	5.04	-8.15	3.88	20.00
127		11242	0.02	65.86	1,129.86	5.04	-35.92	3.25	20.00
128		11244	0.00	66.08	1,129.82	5.04	-379.60	1.45	20.00
129		11246	0.02	65.63	1,129.84	5.04	-17.29	3.62	20.00
130		11262	0.02	69.78	1,126.90	5.04	1.95	4.26	20.00
131		11282	0.00	74.62	1,124.35	5.04	58.53	12.18	20.00
132		11284	0.02	58.34	1,129.65	5.04	9.49	4.39	20.00
133		11286	0.00	64.85	1,129.69	5.04	17.79	4.90	20.00
134		11292	0.00	64.41	1,129.68	5.04	32.61	6.13	20.00
135		11294	0.00	64.90	1,129.69	5.04	16.72	4.84	20.00
136		11324	0.00	63.29	1,127.74	5.04	-72.75	2.68	20.00
137		11330	0.04	65.70	1,127.95	5.04	52.81	10.55	20.00
138		1134	0.00	74.33	1,126.96	5.04	-11.54	3.92	20.00
139		11340	0.02	66.50	1,127.95	5.04	32.32	6.01	20.00
140		11356	0.00	71.96	1,127.00	5.04	11.14	4.62	20.00
141		11374	0.01	83.98	1,122.68	5.04	28.56	5.51	20.00
142		11414	0.00	76.23	1,124.05	5.04	30.82	5.75	20.00
143		11424	0.00	72.01	1,171.20	5.04	-69.61	2.69	20.00
144		11430	0.00	84.90	1,171.18	5.04	-66.84	2.98	20.00
145		11434	0.00	79.23	1,171.17	5.04	-75.42	2.79	20.00
146		11448	0.02	80.00	1,171.71	5.04	4.44	4.37	20.00
147		11452	0.02	80.80	1,171.78	5.04	-38.63	3.33	20.00
148		11466	0.00	79.57	1,173.51	5.04	33.18	5.97	20.00
149		11470	0.00	76.00	1,173.22	5.04	21.72	5.15	20.00
150		11472	0.00	81.56	1,173.22	5.04	11.73	4.65	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
151	11474	0.00	23.76	1,058.17	5.04	-10.06	1.05	20.00
152	11482	0.00	100.72	1,230.29	5.04	-102.08	3.09	20.00
153	11494	0.00	73.98	1,124.36	5.04	55.80	10.79	20.00
154	1150	0.00	74.32	1,126.97	5.04	53.15	8.60	20.00
155	11508	0.00	61.73	1,130.06	5.04	52.58	12.50	20.00
156	11522	0.00	63.39	1,129.64	5.04	20.30	5.06	20.00
157	11524	0.01	63.54	1,129.60	5.04	-1.64	4.01	20.00
158	1154	0.00	73.98	1,126.98	5.04	57.56	9.96	20.00
159	11542	0.00	71.01	1,128.89	5.04	67.42	25.63	20.00
160	11548	0.00	77.76	1,126.93	5.04	58.88	9.60	20.00
161	11560	0.00	94.76	1,127.98	5.04	71.88	9.83	20.00
162	11562	0.00	94.80	1,127.97	5.04	80.74	13.27	20.00
163	11564	0.00	93.32	1,127.97	5.04	80.04	13.59	20.00
164	11566	0.00	92.46	1,230.29	5.04	-215.43	2.33	20.00
165	11576	0.00	58.18	1,173.33	5.04	13.45	4.51	20.00
166	11578	0.00	66.47	1,128.41	5.04	-2.12	4.06	20.00
167	11592	0.00	71.49	1,090.00	5.04	31.89	5.54	20.00
168	11594	0.00	69.33	1,090.00	5.04	29.96	5.46	20.00
169	11596	0.00	64.58	1,173.32	5.04	5.88	4.19	20.00
170	11606	0.01	68.65	1,173.32	5.04	24.40	5.39	20.00
171	11612	0.02	69.82	1,129.93	5.04	30.63	5.79	20.00
172	11614	0.02	69.01	1,129.96	5.04	57.17	11.77	20.00
173	11624	0.00	71.48	1,129.96	5.04	-28.01	3.50	20.00
174	11682	0.03	71.43	1,129.81	5.04	44.11	7.28	20.00
175	11686	0.00	68.90	1,129.96	5.04	57.28	11.89	20.00
176	11688	0.00	64.17	1,129.93	5.04	54.23	12.37	20.00
177	11690	0.00	63.93	1,129.92	5.04	54.24	12.52	20.00
178	11692	0.04	63.17	1,129.92	5.04	53.85	12.74	20.00
179	11694	0.03	63.03	1,129.92	5.04	53.80	12.78	20.00
180	11696	0.00	62.63	1,129.92	5.04	53.56	12.82	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
181	11702	0.02	61.29	1,126.45	5.04	25.21	5.45	20.00
182	11704	0.02	57.37	1,126.38	5.04	19.72	5.03	20.00
183	11706	0.02	61.30	1,126.48	5.04	46.18	9.02	20.00
184	11710	0.00	74.51	1,132.63	5.04	68.60	21.13	20.00
185	11728	0.02	70.49	1,127.67	5.04	40.62	6.83	20.00
186	11750	0.00	92.33	1,128.52	5.04	77.87	12.66	20.00
187	11752	0.00	95.65	1,127.97	5.04	81.11	13.08	20.00
188	11762	0.00	77.99	1,173.02	5.04	-285.21	1.75	20.00
189	11776	0.00	76.89	1,173.48	5.04	-129.52	2.38	20.00
190	11784	0.00	69.75	1,126.99	5.04	61.57	14.89	20.00
191	11788	0.00	70.22	1,126.98	5.04	62.04	15.00	20.00
192	11790	0.00	69.33	1,126.99	5.04	62.41	16.59	20.00
193	11794	0.00	70.19	1,126.99	5.04	63.62	17.30	20.00
194	11810	0.00	66.98	1,125.68	5.04	-13.27	3.73	20.00
195	11820	0.00	81.13	1,122.68	5.04	50.69	7.90	20.00
196	1184	0.00	74.41	1,126.97	5.04	14.73	4.79	20.00
197	11866	0.02	60.62	1,090.00	5.04	-86.95	2.78	20.00
198	11888	0.00	55.76	1,090.00	5.04	-157.75	2.04	20.00
199	1192	0.00	75.64	1,126.97	5.04	-51.33	3.21	20.00
200	11920	0.02	62.57	1,129.85	5.04	46.10	8.88	20.00
201	11974	0.00	74.52	1,126.99	5.04	7.59	4.50	20.00
202	11976	0.00	70.98	1,126.99	5.04	10.39	4.58	20.00
203	11986	0.01	70.51	1,126.99	5.04	53.39	9.39	20.00
204	11988	0.02	71.10	1,126.99	5.04	3.06	4.32	20.00
205	11994	0.03	67.03	1,129.70	5.04	28.18	5.65	20.00
206	12032	0.00	62.87	1,127.93	5.04	-106.17	2.38	20.00
207	12036	0.00	62.50	1,127.94	5.04	35.14	6.45	20.00
208	1204	0.00	75.44	1,126.97	5.04	4.22	4.39	20.00
209	12044	0.00	62.68	1,127.93	5.04	34.44	6.35	20.00
210	12054	0.00	63.62	1,127.94	5.04	5.58	4.30	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
211		1206	0.00	74.91	1,126.96	5.04	51.92	8.25	20.00
212		12070	0.00	64.08	1,127.95	5.04	25.44	5.42	20.00
213		12090	0.00	63.10	1,127.95	5.04	40.57	7.27	20.00
214		12118	0.00	57.59	1,127.90	5.04	-153.09	1.96	20.00
215		12130	0.02	61.22	1,127.90	5.04	40.50	7.46	20.00
216		12144	0.02	62.75	1,128.04	5.04	58.20	18.69	20.00
217		1216	0.00	74.53	1,126.96	5.04	50.98	8.10	20.00
218		12170	0.01	63.98	1,127.97	5.04	56.32	14.32	20.00
219		12224	0.00	64.61	1,127.96	5.04	55.87	13.26	20.00
220		12228	0.00	63.33	1,127.96	5.04	56.08	14.69	20.00
221		1224	0.00	78.85	1,126.96	5.04	36.97	6.09	20.00
222		12252	0.01	63.83	1,127.96	5.04	40.98	7.31	20.00
223		12264	0.00	65.91	1,127.95	5.04	49.07	8.95	20.00
224		12266	0.00	65.93	1,127.95	5.04	47.17	8.40	20.00
225		12280	0.00	65.67	1,127.96	5.04	53.86	11.09	20.00
226		12284	0.00	65.63	1,127.96	5.04	54.22	11.33	20.00
227		12286	0.00	65.39	1,127.96	5.04	54.58	11.68	20.00
228		12320	0.00	62.00	1,127.91	5.04	47.50	9.27	20.00
229		12330	0.00	61.97	1,127.91	5.04	47.18	9.15	20.00
230		12340	0.00	66.18	1,127.74	5.04	9.22	4.48	20.00
231		12404	0.00	66.89	1,128.74	5.04	63.35	24.50	20.00
232		12408	0.00	66.68	1,128.90	5.04	62.29	22.02	20.00
233		12416	0.04	67.38	1,128.00	5.04	61.07	17.01	20.00
234		1242	0.00	75.45	1,126.95	5.04	56.25	9.23	20.00
235		12424	0.00	69.42	1,128.30	5.04	63.65	18.41	20.00
236		12446	0.00	70.81	1,128.53	5.04	8.46	4.50	20.00
237		1246	0.00	75.95	1,126.95	5.04	62.56	11.60	20.00
238		12462	0.00	75.16	1,128.47	5.04	40.87	6.57	20.00
239		12470	0.00	70.81	1,128.47	5.04	2.23	4.27	20.00
240		12478	0.00	70.82	1,128.44	5.04	0.42	4.21	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
241		12492	0.00	71.07	1,128.41	5.04	-4.48	4.06	20.00
242		12498	0.00	70.78	1,128.41	5.04	17.69	4.92	20.00
243		12510	0.00	70.47	1,128.31	5.04	15.10	4.79	20.00
244		12542	0.00	66.44	1,128.34	5.04	19.25	5.00	20.00
245		12556	0.00	69.58	1,128.30	5.04	29.40	5.67	20.00
246		12560	0.00	69.97	1,128.31	5.04	46.19	7.66	20.00
247		12568	0.00	70.28	1,128.36	5.04	36.13	6.26	20.00
248		12576	0.00	70.32	1,128.37	5.04	35.87	6.23	20.00
249		12582	0.00	70.79	1,128.41	5.04	33.84	6.02	20.00
250		12596	0.00	70.95	1,128.44	5.04	34.40	6.07	20.00
251		1260	0.00	76.30	1,126.95	5.04	54.10	8.55	20.00
252		12600	0.00	69.78	1,128.04	5.04	35.64	6.22	20.00
253		12632	0.00	66.22	1,127.83	5.04	-26.70	3.43	20.00
254		12642	0.00	69.72	1,127.83	5.04	13.46	4.71	20.00
255		12646	0.00	66.23	1,127.84	5.04	4.77	4.31	20.00
256		12652	0.00	70.36	1,127.70	5.04	62.81	15.77	20.00
257		12666	0.00	78.88	1,126.88	5.04	8.14	4.55	20.00
258		12668	0.00	78.69	1,126.90	5.04	27.35	5.43	20.00
259		12686	0.00	79.92	1,126.76	5.04	-103.61	2.70	20.00
260		12706	0.02	80.27	1,126.91	5.04	56.80	8.73	20.00
261		12714	0.02	82.69	1,126.70	5.04	-134.79	2.53	20.00
262		12716	0.01	62.70	1,129.69	5.04	14.80	4.73	20.00
263		12718	0.00	62.70	1,129.69	5.04	15.18	4.74	20.00
264		1272	0.00	76.85	1,126.96	5.04	62.14	10.99	20.00
265		12722	0.00	66.76	1,129.69	5.04	18.65	4.96	20.00
266		12726	0.00	62.37	1,129.70	5.04	35.16	6.54	20.00
267		12728	0.03	62.37	1,129.69	5.04	34.61	6.49	20.00
268		12732	0.00	67.03	1,129.69	5.04	-3.85	4.00	20.00
269		12734	0.00	67.03	1,129.69	5.04	-6.96	3.90	20.00
270		12738	0.00	62.74	1,129.69	5.04	0.32	4.06	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
271		12740	0.00	58.36	1,129.69	5.04	-4.20	3.81	20.00
272		12754	0.00	78.11	1,136.27	5.04	70.91	20.50	20.00
273		1276	0.00	77.23	1,126.95	5.04	62.73	11.17	20.00
274		12764	0.00	80.97	1,141.87	5.04	72.11	21.75	20.00
275		12766	0.00	80.26	1,140.53	5.04	71.77	21.13	20.00
276		12768	0.00	61.79	1,129.84	5.04	30.48	5.96	20.00
277		12770	0.00	61.76	1,129.84	5.04	29.99	5.90	20.00
278		12772	0.02	62.10	1,129.83	5.04	34.16	6.41	20.00
279		12774	0.02	62.39	1,129.84	5.04	39.92	7.33	20.00
280		12776	0.00	63.87	1,129.66	5.04	28.89	5.75	20.00
281		12778	0.02	63.93	1,129.66	5.04	18.23	4.94	20.00
282		12786	0.00	64.12	1,129.68	5.04	11.79	4.57	20.00
283		12790	0.00	64.18	1,129.68	5.04	32.13	6.08	20.00
284		12796	0.02	63.65	1,129.66	5.04	-12.43	3.69	20.00
285		12804	0.00	62.93	1,129.64	5.04	-5.56	3.86	20.00
286		12808	0.00	63.20	1,129.65	5.04	-7.31	3.81	20.00
287		12826	0.00	62.69	1,129.69	5.04	-2.69	3.96	20.00
288		12846	0.03	67.14	1,089.96	5.04	15.04	4.89	20.00
289		12848	0.02	60.61	1,089.87	5.04	-88.44	2.80	20.00
290		12866	0.00	82.39	1,127.00	5.04	75.79	18.94	20.00
291		12872	0.00	73.36	1,124.33	5.04	54.54	10.41	20.00
292		12882	0.00	71.87	1,124.33	5.04	-54.26	0.61	20.00
293		1292	0.00	70.58	1,134.04	5.04	61.05	15.75	20.00
294		12986	0.01	78.57	1,123.14	5.04	57.58	10.24	20.00
295		12996	0.00	78.26	1,124.09	5.04	62.92	13.43	20.00
296		12998	0.00	84.96	1,121.09	5.04	55.81	8.54	20.00
297		1300	0.00	75.11	1,133.21	5.04	55.40	9.47	20.00
298		13018	0.00	69.14	1,124.57	5.04	45.15	8.11	20.00
299		13032	0.00	69.14	1,124.57	5.04	48.11	8.97	20.00
300		13034	0.00	68.36	1,124.57	5.04	44.79	8.13	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
301		13046	0.00	75.69	1,123.95	5.04	36.64	6.30	20.00
302		1306	0.00	73.55	1,133.21	5.04	-20.12	3.67	20.00
303		13062	0.00	72.87	1,124.30	5.04	37.19	6.45	20.00
304		13064	0.08	73.17	1,124.24	5.04	54.96	10.84	20.00
305		13114	0.00	71.71	1,124.30	5.04	53.21	10.31	20.00
306		13138	0.00	69.15	1,124.57	5.04	45.41	8.17	20.00
307		13184	0.00	69.14	1,124.57	5.04	51.53	10.38	20.00
308		13214	0.00	69.15	1,124.58	5.04	50.83	9.98	20.00
309		13218	0.00	69.14	1,124.56	5.04	47.91	8.91	20.00
310		1324	0.00	73.42	1,133.21	5.04	33.90	6.01	20.00
311		13254	0.00	76.32	1,124.05	5.04	49.82	8.26	20.00
312		1328	0.00	75.12	1,133.21	5.04	52.35	8.61	20.00
313		13344	0.00	73.20	1,123.95	5.04	49.71	8.71	20.00
314		13382	0.00	86.40	1,111.69	5.04	34.76	5.92	20.00
315		13392	0.00	80.89	1,111.69	5.04	19.66	5.02	20.00
316		134	0.00	57.73	1,127.46	5.04	-2.47	3.89	20.00
317		1340	0.00	77.28	1,133.36	5.04	0.88	4.28	20.00
318		1342	0.00	77.28	1,133.36	5.04	58.30	9.94	20.00
319		1344	0.00	77.32	1,133.21	5.04	47.56	7.43	20.00
320		13446	0.00	5.63	937.00	5.04	5.61	-214.25	19.95
321		13458	0.00	64.28	1,129.68	5.04	28.13	5.67	20.00
322		13494	0.00	69.31	1,127.74	5.04	63.59	18.41	20.00
323		13498	0.00	68.92	1,128.00	5.04	63.54	19.13	20.00
324		13522	0.00	75.47	1,126.97	5.04	-13.03	3.90	20.00
325		13534	0.00	73.39	1,126.97	5.04	1.71	4.28	20.00
326		13542	0.00	70.17	1,126.95	5.04	42.70	7.07	20.00
327		13568	0.00	73.50	1,126.96	5.04	16.45	4.86	20.00
328		13602	0.00	72.67	1,126.95	5.04	55.07	9.42	20.00
329		13606	0.00	72.13	1,127.00	5.04	67.11	21.25	20.00
330		1362	0.00	82.05	1,130.29	5.04	61.06	9.81	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
331		13620	0.00	70.22	1,127.06	5.04	64.72	19.47	20.00
332		1364	0.00	71.62	1,130.29	5.04	39.86	6.73	20.00
333		13640	0.00	73.29	1,126.99	5.04	68.18	21.16	20.00
334		13646	0.01	74.98	1,126.98	5.04	69.98	21.77	20.00
335		13650	0.00	76.54	1,126.97	5.04	71.76	22.68	20.00
336		13656	0.00	77.08	1,126.97	5.04	72.42	23.13	20.00
337		13660	0.00	79.60	1,126.91	5.04	-57.23	3.19	20.00
338		13670	0.00	78.97	1,126.91	5.04	-12.82	3.94	20.00
339		13684	0.00	78.54	1,126.90	5.04	27.47	5.44	20.00
340		13694	0.00	72.85	1,126.99	5.04	66.32	17.96	20.00
341		13706	0.00	74.28	1,126.97	5.04	66.33	16.15	20.00
342		13720	0.02	75.81	1,126.95	5.04	67.13	15.61	20.00
343		13724	0.10	76.40	1,126.94	5.04	67.81	16.00	20.00
344		13748	0.00	77.74	1,126.93	5.04	67.90	14.74	20.00
345		13762	0.00	78.51	1,126.93	5.04	68.44	14.70	20.00
346		138	0.00	59.21	1,127.54	5.04	16.63	4.81	20.00
347		13838	0.00	73.63	1,126.94	5.04	68.12	19.84	20.00
348		13844	0.00	65.94	1,126.89	5.04	48.49	8.75	20.00
349		13848	0.02	67.50	1,126.91	5.04	62.68	20.24	20.00
350		13866	0.00	74.59	1,126.94	5.04	63.55	12.80	20.00
351		13888	0.03	62.84	1,130.02	5.04	-28.66	3.33	20.00
352		13890	0.01	62.83	1,130.00	5.04	-57.76	2.84	20.00
353		13914	0.02	66.93	1,129.81	5.04	-135.09	2.26	20.00
354		13926	0.00	64.28	1,129.84	5.04	-1,184.37	0.81	20.00
355		13930	0.02	62.75	1,129.82	5.04	-438.51	1.32	20.00
356		13936	0.00	62.83	1,130.00	5.04	-57.60	2.83	20.00
357		13946	0.03	65.63	1,128.24	5.04	-8,107.21	0.31	20.00
358		13948	0.00	66.25	1,129.84	5.04	15.94	4.80	20.00
359		13952	0.02	66.15	1,129.82	5.04	-12.44	3.75	20.00
360		13954	0.00	67.16	1,129.82	5.04	-83.29	2.65	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
361		13956	0.00	67.23	1,129.82	5.04	-71.02	2.78	20.00
362		13958	0.00	62.75	1,129.81	5.04	-25.35	3.36	20.00
363		1396	0.00	72.69	1,132.76	5.04	57.33	11.02	20.00
364		13966	0.02	56.06	1,125.89	5.04	54.42	25.84	20.00
365		13972	0.00	56.38	1,125.94	5.04	54.71	25.86	20.00
366		14012	0.00	52.60	1,125.99	5.04	44.43	11.39	20.00
367		14016	0.00	52.78	1,126.00	5.04	39.70	8.52	20.00
368		1402	0.00	77.63	1,133.06	5.04	63.39	12.28	20.00
369		14024	0.00	56.74	1,125.94	5.04	49.84	13.51	20.00
370		14026	0.00	56.73	1,125.93	5.04	49.98	13.65	20.00
371		14044	0.00	56.91	1,125.64	5.04	53.72	20.04	20.00
372		14060	0.00	54.64	1,125.76	5.04	51.16	18.05	20.00
373		14062	0.00	56.82	1,126.13	5.04	51.55	15.56	20.00
374		14066	0.00	60.13	1,126.14	5.04	54.10	15.11	20.00
375		14082	0.00	72.97	1,173.40	5.04	-134.71	2.27	20.00
376		14090	0.02	69.05	1,173.63	5.04	-187.83	1.95	20.00
377		14100	0.02	70.38	1,173.55	5.04	-22.50	3.46	20.00
378		14142	0.02	56.20	1,125.65	5.04	41.88	8.57	20.00
379		14156	0.02	52.29	1,125.68	5.04	4.58	4.08	20.00
380		14160	0.02	56.51	1,125.71	5.04	23.18	5.32	20.00
381		14174	0.02	56.57	1,125.70	5.04	3.45	4.11	20.00
382		14206	0.02	56.81	1,125.77	5.04	-28.21	3.19	20.00
383		1422	0.00	77.28	1,133.35	5.04	63.96	12.85	20.00
384		14220	0.00	57.11	1,125.90	5.04	3.02	4.10	20.00
385		14222	0.00	56.93	1,125.90	5.04	19.74	5.02	20.00
386		14228	0.00	57.14	1,125.88	5.04	10.85	4.46	20.00
387		14246	0.02	52.40	1,125.42	5.04	-41.65	2.79	20.00
388		14258	0.00	53.54	1,125.48	5.04	14.62	4.63	20.00
389		14260	0.00	53.34	1,125.48	5.04	2.05	3.96	20.00
390		14278	0.02	50.93	1,126.01	5.04	13.28	4.53	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
391		14286	0.02	48.13	1,126.07	5.04	6.66	4.08	20.00
392		14322	0.00	50.69	1,125.75	5.04	-46.33	2.67	20.00
393		1434	0.00	77.34	1,133.49	5.04	64.96	13.63	20.00
394		14364	0.00	54.58	1,125.76	5.04	-54.89	2.68	20.00
395		14388	0.02	52.61	1,125.84	5.04	24.38	5.48	20.00
396		14414	0.00	58.96	1,126.09	5.04	-99.84	2.34	20.00
397		14420	0.02	59.32	1,126.09	5.04	-4.69	3.87	20.00
398		14432	0.02	60.01	1,126.08	5.04	-118.53	2.24	20.00
399		14438	0.00	60.37	1,126.09	5.04	-25.86	3.32	20.00
400		1446	0.00	70.83	1,134.00	5.04	61.10	15.50	20.00
401		14470	0.00	61.28	1,126.12	5.04	17.51	4.88	20.00
402		14476	0.00	61.62	1,126.13	5.04	13.99	4.68	20.00
403		14510	0.00	60.29	1,126.14	5.04	42.27	7.93	20.00
404		14528	0.06	55.46	1,125.18	5.04	-190.03	1.76	20.00
405		14598	0.03	55.48	1,125.21	5.04	-144.22	1.94	20.00
406		14606	0.02	52.15	1,125.36	5.04	-49.45	2.64	20.00
407		14630	0.03	56.30	1,125.39	5.04	-61.03	2.64	20.00
408		14640	0.02	60.95	1,125.66	5.04	-2.78	3.95	20.00
409		14646	0.00	56.53	1,125.47	5.04	-4.22	3.79	20.00
410		14652	0.02	55.02	1,125.48	5.04	8.01	4.29	20.00
411		14664	0.03	53.04	1,125.44	5.04	-16.75	3.34	20.00
412		14674	0.00	55.68	1,125.53	5.04	27.29	5.74	20.00
413		1470	0.00	70.65	1,134.04	5.04	61.06	15.68	20.00
414		1472	0.00	75.76	1,128.57	5.04	43.26	6.95	20.00
415		14722	0.03	56.16	1,125.31	5.04	-35.27	3.03	20.00
416		14790	0.02	57.76	1,125.06	5.04	-63.03	2.61	20.00
417		14810	0.02	54.02	1,125.48	5.04	27.14	5.79	20.00
418		1482	0.00	62.64	1,090.24	5.04	-171.69	2.12	20.00
419		14828	0.03	56.82	1,125.25	5.04	-17.29	3.42	20.00
420		14840	0.02	57.21	1,125.13	5.04	-31.64	3.08	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
421		14852	0.02	60.67	1,125.01	5.04	-78.57	2.52	20.00
422		1486	0.00	55.10	1,090.26	5.04	-197.51	1.83	20.00
423		14866	0.02	55.76	1,125.45	5.04	4.09	4.11	20.00
424		14876	0.02	57.14	1,125.51	5.04	-47.07	2.84	20.00
425		14878	0.02	57.15	1,125.66	5.04	-56.61	2.72	20.00
426		1488	0.00	53.80	1,090.26	5.04	-120.97	2.24	20.00
427		14884	0.00	61.02	1,125.83	5.04	-39.85	3.07	20.00
428		14896	0.00	55.83	1,125.54	5.04	43.90	9.68	20.00
429		14914	0.00	57.79	1,125.83	5.04	37.44	7.18	20.00
430		14922	0.00	52.61	1,125.43	5.04	-30.80	2.98	20.00
431		14934	0.02	54.34	1,125.52	5.04	38.59	7.97	20.00
432		1494	0.00	60.81	1,090.25	5.04	-148.06	2.22	20.00
433		14940	0.02	52.23	1,125.54	5.04	16.83	4.80	20.00
434		14942	0.00	55.40	1,125.58	5.04	45.95	11.04	20.00
435		14944	0.02	55.93	1,125.42	5.04	-4.81	3.77	20.00
436		14946	0.02	52.20	1,125.46	5.04	-7.29	3.59	20.00
437		14948	0.02	54.65	1,125.53	5.04	17.71	4.88	20.00
438		14984	0.09	58.22	1,124.97	5.04	-89.28	2.42	20.00
439		14990	0.02	57.80	1,124.98	5.04	-137.08	2.01	20.00
440		14998	0.00	55.83	1,125.43	5.04	17.73	4.87	20.00
441		150	0.00	61.77	1,127.57	5.04	59.37	25.87	20.00
442		1500	0.00	57.11	1,090.25	5.04	-199.12	1.87	20.00
443		15008	0.02	56.08	1,125.35	5.04	-2.11	3.86	20.00
444		15012	0.02	58.25	1,124.97	5.04	-168.39	1.87	20.00
445		15016	0.02	57.08	1,125.27	5.04	3.55	4.10	20.00
446		15018	0.02	57.29	1,125.22	5.04	-18.93	3.37	20.00
447		15028	0.00	52.23	1,125.55	5.04	46.36	14.35	20.00
448		15032	0.02	57.02	1,125.63	5.04	50.10	13.96	20.00
449		15038	0.06	55.37	1,125.59	5.04	51.21	17.61	20.00
450		15040	0.00	55.30	1,125.58	5.04	50.88	17.08	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
451		15054	0.06	54.56	1,125.54	5.04	45.81	11.69	20.00
452		15060	0.00	55.84	1,125.55	5.04	49.43	14.38	20.00
453		15068	0.00	58.05	1,125.87	5.04	52.95	16.33	20.00
454		1508	0.00	62.92	1,090.24	5.04	-114.93	2.52	20.00
455		15098	0.00	58.79	1,126.08	5.04	56.39	23.44	20.00
456		15166	0.00	58.21	1,126.09	5.04	56.24	25.41	20.00
457		15184	0.00	61.73	1,127.47	5.04	59.39	26.13	20.00
458		15188	0.00	57.11	1,126.31	5.04	55.20	25.83	20.00
459		15214	0.00	64.32	1,173.44	5.04	20.15	5.05	20.00
460		15246	0.00	88.96	1,230.30	5.04	16.39	4.91	20.00
461		15256	0.00	86.86	1,230.30	5.04	5.39	4.55	20.00
462		15278	0.00	59.92	1,173.29	5.04	14.87	4.63	20.00
463		15284	0.00	65.23	1,173.31	5.04	20.87	5.11	20.00
464		15292	0.00	63.02	1,173.31	5.04	18.69	4.94	20.00
465		15302	0.00	57.11	1,173.33	5.04	11.55	4.35	20.00
466		15304	0.00	57.33	1,173.33	5.04	12.13	4.39	20.00
467		15310	0.00	66.40	1,173.31	5.04	21.28	5.14	20.00
468		15352	0.00	59.32	1,173.30	5.04	14.68	4.61	20.00
469		15386	0.00	80.52	1,171.44	5.04	11.83	4.64	20.00
470		15398	0.02	80.81	1,171.50	5.04	7.25	4.48	20.00
471		15404	0.02	81.71	1,171.45	5.04	-47.49	3.19	20.00
472		15414	0.03	76.68	1,171.49	5.04	-39.50	3.23	20.00
473		15438	0.02	85.15	1,171.51	5.04	8.93	4.58	20.00
474		15444	0.00	81.54	1,171.44	5.04	9.49	4.55	20.00
475		15454	0.02	83.76	1,171.42	5.04	-42.46	3.29	20.00
476		15476	0.02	83.16	1,171.42	5.04	-97.72	2.69	20.00
477		15510	0.00	87.06	1,171.18	5.04	-79.81	2.89	20.00
478		15542	0.00	81.68	1,171.19	5.04	-144.29	2.33	20.00
479		15552	0.00	88.74	1,171.16	5.04	-113.29	2.64	20.00
480		15566	0.00	81.72	1,171.19	5.04	-163.76	2.23	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
481	15570	0.00	76.43	1,171.20	5.04	-111.21	2.44	20.00
482	15614	0.00	82.23	1,171.19	5.04	-105.84	2.59	20.00
483	1562	0.00	74.20	1,126.97	5.04	38.96	6.41	20.00
484	15622	0.00	80.99	1,171.19	5.04	-196.60	2.08	20.00
485	15626	0.00	80.43	1,171.19	5.04	-281.75	1.80	20.00
486	15632	0.00	85.21	1,171.18	5.04	-146.77	2.38	20.00
487	15666	0.03	93.19	1,170.85	5.04	-10.99	4.09	20.00
488	1568	0.00	87.28	1,173.28	5.04	-58.58	3.19	20.00
489	15686	0.00	90.23	1,170.86	5.04	-21.77	3.79	20.00
490	1572	0.00	76.24	1,173.28	5.04	-38.03	3.28	20.00
491	15722	0.02	80.28	1,171.44	5.04	-154.05	2.28	20.00
492	15752	0.02	80.61	1,171.45	5.04	-25.29	3.57	20.00
493	15766	0.00	75.05	1,171.19	5.04	-92.85	2.55	20.00
494	15784	0.00	74.53	1,171.14	5.04	-121.74	2.33	20.00
495	15786	0.00	77.16	1,171.14	5.04	-81.33	2.69	20.00
496	15788	0.00	72.45	1,171.14	5.04	-222.41	1.84	20.00
497	15794	0.00	80.65	1,171.14	5.04	-38.10	3.35	20.00
498	15804	0.00	81.98	1,171.11	5.04	-24.11	3.62	20.00
499	15810	0.00	85.56	1,172.45	5.04	-42.70	3.36	20.00
500	15818	0.00	88.67	1,172.45	5.04	-13.44	3.95	20.00
501	15824	0.01	88.24	1,172.42	5.04	-692.59	1.30	20.00
502	15836	0.00	85.73	1,172.92	5.04	1.46	4.32	20.00
503	1584	0.00	63.04	1,129.58	5.04	-19.80	3.46	20.00
504	15846	0.02	57.10	1,089.97	5.04	-2.40	4.27	20.00
505	15860	0.02	63.52	1,089.84	5.04	-304.77	1.67	20.00
506	15910	0.02	81.14	1,171.14	5.04	-45.97	3.23	20.00
507	15920	0.02	76.79	1,171.11	5.04	-60.00	2.91	20.00
508	15928	0.00	78.08	1,171.17	5.04	-97.69	2.57	20.00
509	15954	0.00	80.65	1,171.13	5.04	-67.05	2.90	20.00
510	15972	0.00	82.63	1,171.11	5.04	-13.26	3.87	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
511		15984	0.00	64.25	1,173.29	5.04	6.34	4.21	20.00
512		15996	0.00	70.07	1,173.28	5.04	3.65	4.19	20.00
513		16008	0.00	64.37	1,173.29	5.04	-36.05	3.05	20.00
514		16012	0.02	66.95	1,173.28	5.04	-14.24	3.58	20.00
515		16016	0.00	70.77	1,173.28	5.04	-11.36	3.72	20.00
516		16018	0.00	63.97	1,173.29	5.04	-62.63	2.67	20.00
517		16020	0.00	62.52	1,173.29	5.04	-18.01	3.36	20.00
518		16022	0.00	66.63	1,173.28	5.04	2.71	4.10	20.00
519		16046	0.02	57.15	1,173.29	5.04	3.46	3.93	20.00
520		16096	0.00	64.25	1,173.27	5.04	-32.76	3.10	20.00
521		16104	0.02	64.65	1,173.28	5.04	-13.05	3.55	20.00
522		16120	0.00	67.97	1,173.27	5.04	-74.03	2.64	20.00
523		16148	0.00	64.16	1,173.27	5.04	-54.29	2.77	20.00
524		16160	0.02	64.25	1,173.29	5.04	10.47	4.43	20.00
525		16162	0.00	72.04	1,171.25	5.04	-41.26	3.05	20.00
526		16168	0.00	65.56	1,171.30	5.04	-102.25	2.27	20.00
527		16178	0.00	77.03	1,171.43	5.04	-4.56	4.02	20.00
528		16222	0.00	76.52	1,171.60	5.04	3.81	4.29	20.00
529		16230	0.00	71.38	1,171.60	5.04	-85.97	2.55	20.00
530		16234	0.00	67.99	1,171.22	5.04	-117.80	2.22	20.00
531		16238	0.00	70.95	1,171.21	5.04	-40.04	3.04	20.00
532		16256	0.00	73.84	1,171.39	5.04	-75.20	2.69	20.00
533		16258	0.00	66.72	1,171.34	5.04	-106.97	2.27	20.00
534		16270	0.00	75.46	1,171.43	5.04	-30.27	3.36	20.00
535		16272	0.00	67.88	1,171.34	5.04	-179.18	1.91	20.00
536		16276	0.00	66.91	1,171.30	5.04	-158.88	1.98	20.00
537		16280	0.00	62.30	1,171.25	5.04	-144.75	1.94	20.00
538		16282	0.00	64.35	1,171.25	5.04	-79.67	2.42	20.00
539		16288	0.02	85.26	1,171.77	5.04	-131.72	2.50	20.00
540		16318	0.02	73.35	1,172.82	5.04	-17.32	3.62	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
541	16332	0.02	76.94	1,172.60	5.04	-134.13	2.36	20.00
542	16350	0.02	79.53	1,172.51	5.04	-40.19	3.30	20.00
543	16352	0.00	77.48	1,172.61	5.04	-62.45	2.95	20.00
544	16354	0.00	71.03	1,173.11	5.04	25.42	5.44	20.00
545	16358	0.02	85.12	1,171.51	5.04	5.66	4.46	20.00
546	16370	0.02	86.02	1,171.46	5.04	-76.76	2.92	20.00
547	16414	0.02	84.05	1,171.46	5.04	-152.65	2.34	20.00
548	16416	0.02	83.85	1,171.45	5.04	-225.59	2.03	20.00
549	16426	0.02	85.07	1,171.45	5.04	-173.42	2.26	20.00
550	16434	0.02	74.85	1,172.12	5.04	-52.42	3.02	20.00
551	16438	0.02	72.29	1,172.23	5.04	18.32	4.95	20.00
552	16442	0.00	57.76	1,173.73	5.04	1.26	3.85	20.00
553	16448	0.02	54.33	1,173.68	5.04	-11.93	3.29	20.00
554	16456	0.02	65.30	1,173.59	5.04	-15.88	3.50	20.00
555	16468	0.02	64.35	1,173.51	5.04	-40.45	2.98	20.00
556	16478	0.02	55.98	1,173.67	5.04	-31.65	2.89	20.00
557	16538	0.02	64.34	1,173.49	5.04	-87.60	2.43	20.00
558	16544	0.00	61.60	1,173.54	5.04	3.85	4.05	20.00
559	16556	0.00	60.08	1,173.67	5.04	-144.89	1.94	20.00
560	16562	0.03	58.73	1,173.55	5.04	-97.26	2.22	20.00
561	16564	0.00	72.64	1,173.28	5.04	17.11	4.87	20.00
562	16572	0.00	73.77	1,173.28	5.04	-17.36	3.63	20.00
563	16592	0.02	64.43	1,173.07	5.04	-8.83	3.65	20.00
564	16604	0.00	67.95	1,173.27	5.04	14.89	4.71	20.00
565	16614	0.02	56.07	1,173.33	5.04	9.44	4.22	20.00
566	16622	0.00	80.62	1,230.30	5.04	-10.66	4.08	20.00
567	16642	0.00	91.86	1,107.01	5.04	68.22	10.67	20.00
568	16644	0.00	94.28	1,170.68	5.04	6.84	4.55	20.00
569	16650	0.00	84.17	1,171.10	5.04	11.33	4.65	20.00
570	16654	0.00	85.04	1,171.25	5.04	15.82	4.84	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
571		16658	0.00	79.91	1,171.43	5.04	15.65	4.81	20.00
572		16662	0.02	75.44	1,171.60	5.04	12.98	4.68	20.00
573		16678	0.00	97.80	1,170.72	5.04	-5.81	4.23	20.00
574		16684	0.02	93.87	1,171.23	5.04	-10.78	4.09	20.00
575		16692	0.00	89.89	1,172.45	5.04	6.51	4.51	20.00
576		16696	0.00	85.58	1,172.93	5.04	29.08	5.56	20.00
577		16698	0.00	82.80	1,173.13	5.04	30.16	5.66	20.00
578		1670	0.00	61.40	1,128.92	5.04	57.07	19.06	20.00
579		16702	0.00	86.39	1,109.37	5.04	51.55	8.15	20.00
580		16714	0.00	41.99	1,080.54	5.04	18.67	4.96	20.00
581		16724	0.00	35.43	1,075.59	5.04	9.79	3.59	20.00
582		16726	0.00	101.18	1,230.29	5.04	-95.04	3.16	20.00
583		16736	0.00	85.52	1,230.30	5.04	-87.58	3.02	20.00
584		1676	0.00	62.37	1,128.60	5.04	58.17	19.45	20.00
585		16760	0.00	76.03	1,173.22	5.04	23.52	5.26	20.00
586		16764	0.00	80.33	1,173.22	5.04	29.46	5.65	20.00
587		16770	0.00	80.92	1,173.40	5.04	32.80	5.90	20.00
588		16774	0.00	72.60	1,173.63	5.04	27.29	5.58	20.00
589		16778	0.00	69.14	1,174.27	5.04	29.41	5.84	20.00
590		16780	0.00	64.74	1,174.09	5.04	24.32	5.41	20.00
591		16890	0.02	57.89	1,090.02	5.04	-3.75	4.24	20.00
592		16892	0.00	85.89	1,108.23	5.04	55.60	8.82	20.00
593		16898	0.02	98.01	1,170.72	5.04	-16.85	4.00	20.00
594		16908	0.00	91.63	1,171.23	5.04	-24.55	3.76	20.00
595		16914	0.00	82.02	1,173.03	5.04	14.46	4.77	20.00
596		16916	0.00	81.51	1,173.13	5.04	17.90	4.93	20.00
597		16954	0.00	73.03	1,173.33	5.04	29.55	5.77	20.00
598		16956	0.00	74.65	1,173.33	5.04	30.97	5.87	20.00
599		17028	0.00	82.87	1,173.22	5.04	14.85	4.79	20.00
600		17030	0.02	81.43	1,173.33	5.04	16.74	4.89	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
601		17032	0.00	78.20	1,173.40	5.04	14.61	4.76	20.00
602		17072	0.02	74.42	1,173.22	5.04	-28.36	3.42	20.00
603		17080	0.02	72.89	1,173.23	5.04	-61.42	2.89	20.00
604		17094	0.02	75.77	1,173.29	5.04	-33.67	3.35	20.00
605		17180	0.02	72.22	1,173.35	5.04	-42.62	3.13	20.00
606		17208	0.00	89.73	1,171.14	5.04	-246.47	2.03	20.00
607		17212	0.00	89.32	1,171.14	5.04	-106.71	2.70	20.00
608		17220	0.02	98.00	1,171.17	5.04	-111.55	2.82	20.00
609		17226	0.02	91.75	1,171.14	5.04	-65.67	3.13	20.00
610		17234	0.00	89.32	1,171.14	5.04	-95.20	2.79	20.00
611		1724	0.00	74.49	1,126.91	5.04	29.19	5.58	20.00
612		17242	0.00	89.32	1,171.14	5.04	-159.92	2.37	20.00
613		17246	0.00	53.43	1,127.98	5.04	-151.66	2.71	20.00
614		17310	0.00	52.60	1,127.98	5.04	-280.65	2.08	20.00
615		17320	0.00	53.29	1,127.98	5.04	-265.29	2.21	20.00
616		17344	0.00	53.15	1,127.98	5.04	-158.80	2.67	20.00
617		17346	0.02	45.07	1,127.97	5.04	-282.01	1.85	20.00
618		17352	0.00	61.95	1,127.98	5.04	-137.32	2.90	20.00
619		17354	0.00	55.66	1,127.98	5.04	-134.98	2.84	20.00
620		1736	0.00	74.49	1,126.91	5.04	-67.64	2.98	20.00
621		17360	0.00	61.95	1,127.98	5.04	-199.56	2.57	20.00
622		17384	0.00	88.95	1,230.29	5.04	-162.84	2.53	20.00
623		17388	0.00	86.39	1,230.29	5.04	-292.95	1.98	20.00
624		17396	0.00	98.17	1,230.29	5.04	-125.36	2.88	20.00
625		17406	0.00	96.45	1,230.29	5.04	-133.37	2.81	20.00
626		17412	0.00	89.28	1,230.29	5.04	-160.69	2.54	20.00
627		17414	0.00	85.58	1,230.29	5.04	-174.21	2.42	20.00
628		17418	0.00	85.44	1,230.29	5.04	-246.74	2.11	20.00
629		1742	0.00	57.14	1,126.44	5.04	55.16	25.54	20.00
630		17432	0.00	77.39	1,230.29	5.04	-191.97	2.21	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
631	1746	0.00	56.26	1,126.31	5.04	41.29	8.29	20.00
632	17512	0.00	62.96	1,230.29	5.04	-346.61	1.50	20.00
633	17514	0.00	62.96	1,230.29	5.04	-347.10	1.50	20.00
634	17524	0.00	94.34	1,230.29	5.04	-142.37	2.72	20.00
635	1758	0.00	56.80	1,126.42	5.04	-42.29	2.93	20.00
636	17598	0.00	101.95	1,230.29	5.04	-191.51	2.55	20.00
637	17600	0.00	91.70	1,230.29	5.04	-200.72	2.38	20.00
638	17602	0.00	94.70	1,230.29	5.04	-284.50	2.11	20.00
639	17606	0.00	78.76	1,230.29	5.04	-225.40	2.09	20.00
640	17612	0.00	68.09	1,230.29	5.04	-318.11	1.65	20.00
641	17616	0.00	81.48	1,230.29	5.04	-187.75	2.29	20.00
642	17620	0.00	62.59	1,230.29	5.04	-346.89	1.50	20.00
643	17622	0.00	62.55	1,230.29	5.04	-351.93	1.49	20.00
644	17626	0.00	76.39	1,230.29	5.04	-190.30	2.20	20.00
645	17634	0.00	62.63	1,230.29	5.04	-362.18	1.47	20.00
646	17638	0.00	53.53	1,230.29	5.04	-402.88	1.24	20.00
647	17666	0.00	77.08	1,173.42	5.04	7.94	4.45	20.00
648	17668	0.00	78.64	1,173.43	5.04	13.15	4.69	20.00
649	17690	0.02	73.86	1,173.37	5.04	-10.06	3.82	20.00
650	17704	0.02	72.99	1,173.45	5.04	-147.19	2.21	20.00
651	17736	0.02	64.50	1,173.30	5.04	5.39	4.18	20.00
652	1774	0.00	56.92	1,126.42	5.04	47.15	10.79	20.00
653	17740	0.02	60.31	1,173.30	5.04	-21.89	3.22	20.00
654	17744	0.00	58.73	1,173.30	5.04	-65.17	2.49	20.00
655	17752	0.00	58.25	1,173.30	5.04	-72.70	2.40	20.00
656	17756	0.00	60.66	1,173.30	5.04	-51.34	2.71	20.00
657	17762	0.02	63.41	1,173.30	5.04	-54.47	2.76	20.00
658	17776	0.02	66.60	1,173.30	5.04	-51.50	2.88	20.00
659	17818	0.00	83.78	1,172.86	5.04	18.17	4.95	20.00
660	17824	0.02	64.16	1,173.14	5.04	-19.14	3.38	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
661	17838	0.02	60.23	1,173.18	5.04	-5.02	3.68	20.00
662	17840	0.02	64.21	1,173.18	5.04	-71.05	2.58	20.00
663	17848	0.02	64.97	1,173.22	5.04	5.63	4.20	20.00
664	17866	0.00	55.60	1,173.31	5.04	2.93	3.85	20.00
665	17884	0.00	58.47	1,173.31	5.04	5.93	4.07	20.00
666	17886	0.00	58.21	1,173.31	5.04	-0.94	3.76	20.00
667	17894	0.03	58.00	1,173.30	5.04	-5.13	3.63	20.00
668	17946	0.20	61.02	1,173.02	5.04	-14.73	3.57	20.00
669	17952	0.00	56.08	1,173.13	5.04	-10.09	3.37	20.00
670	17958	0.02	71.46	1,089.91	5.04	-73.54	3.17	20.00
671	17962	0.00	65.23	1,089.98	5.04	-62.67	3.20	20.00
672	17964	0.00	67.15	1,089.98	5.04	-124.21	2.57	20.00
673	17966	0.02	70.98	1,089.95	5.04	-9.19	4.23	20.00
674	17984	0.00	83.00	1,172.89	5.04	21.29	5.11	20.00
675	17990	0.00	82.89	1,172.89	5.04	9.94	4.59	20.00
676	17994	0.00	81.14	1,172.86	5.04	4.28	4.37	20.00
677	18002	0.00	45.53	1,090.38	5.04	-35.59	3.31	20.00
678	18012	0.00	58.61	1,090.27	5.04	26.97	5.37	20.00
679	18016	0.00	65.22	1,090.18	5.04	30.62	5.52	20.00
680	18026	0.00	70.58	1,090.05	5.04	32.23	5.56	20.00
681	18050	0.00	69.01	1,090.07	5.04	-131.35	2.51	20.00
682	18072	0.02	70.95	1,090.04	5.04	-74.74	3.16	20.00
683	18076	0.02	71.31	1,089.97	5.04	-20.72	4.00	20.00
684	18106	0.00	61.02	1,090.03	5.04	-82.92	2.88	20.00
685	18108	0.00	62.84	1,090.03	5.04	-234.91	1.89	20.00
686	18118	0.00	68.66	1,090.02	5.04	-41.52	3.59	20.00
687	18122	0.00	72.82	1,090.02	5.04	-53.36	3.46	20.00
688	18128	0.00	71.50	1,090.02	5.04	-152.06	2.49	20.00
689	18136	0.00	62.84	1,090.04	5.04	-107.78	2.67	20.00
690	18146	0.00	69.93	1,090.01	5.04	30.62	5.49	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
691		18152	0.00	67.28	1,089.99	5.04	27.54	5.36	20.00
692		18172	0.02	71.34	1,089.96	5.04	2.69	4.52	20.00
693		18176	0.02	71.42	1,089.96	5.04	1.63	4.49	20.00
694		18186	0.02	71.42	1,089.95	5.04	-17.17	4.07	20.00
695		18202	0.02	70.95	1,089.93	5.04	-25.06	3.92	20.00
696		1822	0.00	52.92	1,127.11	5.04	10.29	4.36	20.00
697		18242	0.00	70.52	1,089.99	5.04	30.26	5.47	20.00
698		18246	0.00	67.16	1,089.99	5.04	26.88	5.33	20.00
699		18254	0.02	68.84	1,089.96	5.04	-26.40	3.88	20.00
700		18274	0.00	62.91	1,089.97	5.04	-41.81	3.50	20.00
701		18284	0.00	66.51	1,089.99	5.04	-7.20	4.22	20.00
702		18288	0.00	71.50	1,090.01	5.04	5.14	4.57	20.00
703		18298	0.00	69.64	1,089.96	5.04	-20.55	3.97	20.00
704		1830	0.00	57.24	1,127.11	5.04	32.04	6.28	20.00
705		18302	0.00	66.96	1,089.96	5.04	-88.70	2.90	20.00
706		184	0.00	70.07	1,126.72	5.04	-47.24	3.13	20.00
707		1840	0.00	53.53	1,127.09	5.04	27.96	5.87	20.00
708		18402	0.02	74.77	1,089.92	5.04	-45.60	3.62	20.00
709		18410	0.00	79.77	1,089.92	5.04	-91.91	3.09	20.00
710		18416	0.03	71.46	1,089.92	5.04	-45.94	3.59	20.00
711		1842	0.00	57.23	1,127.08	5.04	32.34	6.32	20.00
712		1844	0.00	53.86	1,127.08	5.04	8.94	4.31	20.00
713		1846	0.00	57.22	1,127.06	5.04	15.47	4.73	20.00
714		18468	0.00	76.96	1,126.93	5.04	67.41	14.84	20.00
715		1848	0.00	53.90	1,127.06	5.04	32.44	6.53	20.00
716		18488	0.02	76.17	1,126.87	5.04	-2.56	4.20	20.00
717		18530	0.00	71.90	1,126.86	5.04	1.73	4.26	20.00
718		18536	0.02	72.05	1,126.86	5.04	-24.32	3.60	20.00
719		18542	0.06	74.11	1,126.89	5.04	53.53	8.80	20.00
720		18594	0.03	72.77	1,126.84	5.04	51.32	8.47	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
721		18610	0.02	72.75	1,126.87	5.04	58.77	10.92	20.00
722		18630	0.02	70.12	1,126.84	5.04	41.89	6.99	20.00
723		18632	0.02	73.49	1,126.84	5.04	45.33	7.26	20.00
724		1866	0.00	56.82	1,126.14	5.04	-18.80	3.40	20.00
725		18666	0.00	71.96	1,126.87	5.04	57.43	10.53	20.00
726		18702	0.00	63.24	1,129.93	5.04	54.71	13.43	20.00
727		18706	0.00	63.18	1,129.92	5.04	39.93	7.18	20.00
728		18718	0.25	77.50	1,133.86	5.04	46.61	7.61	20.00
729		1872	0.00	65.34	1,126.65	5.04	-161.08	2.10	20.00
730		18720	0.00	77.50	1,133.87	5.04	46.87	7.40	20.00
731		18722	0.03	78.95	1,127.20	5.04	-116.70	2.62	20.00
732		18726	0.02	74.86	1,127.22	5.04	-33.14	3.46	20.00
733		18734	0.02	74.42	1,127.24	5.04	18.73	4.99	20.00
734		18744	0.02	72.66	1,127.71	5.04	56.51	10.04	20.00
735		18748	0.00	73.06	1,127.65	5.04	67.01	18.83	20.00
736		18756	0.02	69.92	1,127.63	5.04	-36.20	3.33	20.00
737		18766	0.02	71.18	1,127.63	5.04	-8.67	3.95	20.00
738		18770	0.04	70.85	1,127.65	5.04	62.83	15.34	20.00
739		18772	0.02	70.56	1,127.64	5.04	-0.73	4.18	20.00
740		18786	0.00	66.27	1,127.65	5.04	-152.94	2.15	20.00
741		18796	0.01	74.41	1,126.92	5.04	69.52	21.71	20.00
742		18818	0.00	74.47	1,126.87	5.04	43.56	6.92	20.00
743		18828	0.00	65.78	1,126.82	5.04	-9.90	3.82	20.00
744		1884	0.00	65.67	1,126.65	5.04	-133.71	2.26	20.00
745		18842	0.00	61.25	1,126.36	5.04	41.26	7.64	20.00
746		1886	0.00	66.32	1,126.66	5.04	-157.33	2.14	20.00
747		1888	0.00	65.92	1,126.66	5.04	-129.49	2.29	20.00
748		18880	0.00	54.06	1,129.76	5.04	39.53	8.09	20.00
749		18900	0.00	66.64	1,126.90	5.04	62.41	21.87	20.00
750		18902	0.00	58.48	1,129.95	5.04	49.78	12.37	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
751		18920	0.01	72.65	1,129.71	5.04	38.72	6.49	20.00
752		18924	0.00	72.28	1,129.89	5.04	2.01	4.27	20.00
753		18928	0.00	72.61	1,129.73	5.04	41.41	6.80	20.00
754		18932	0.03	71.40	1,129.79	5.04	39.65	6.68	20.00
755		18942	0.00	71.71	1,134.00	5.04	57.48	11.61	20.00
756		18952	0.00	66.15	1,129.83	5.04	18.53	4.95	20.00
757		18956	0.02	71.41	1,129.80	5.04	38.76	6.55	20.00
758		1896	0.00	66.91	1,126.66	5.04	-62.86	2.89	20.00
759		18968	0.02	71.40	1,129.77	5.04	38.08	6.48	20.00
760		18986	0.00	71.47	1,129.95	5.04	55.46	9.99	20.00
761		19044	0.00	71.57	1,130.18	5.04	30.78	5.75	20.00
762		19054	0.00	72.53	1,129.89	5.04	-77.40	2.83	20.00
763		19070	0.01	63.24	1,129.92	5.04	-9.07	3.80	20.00
764		1908	0.00	67.07	1,126.64	5.04	-7.27	3.92	20.00
765		19094	0.00	69.29	1,135.14	5.04	27.46	5.53	20.00
766		19152	0.00	61.93	1,129.84	5.04	30.91	5.98	20.00
767		19170	0.07	58.42	1,129.84	5.04	-0.29	4.03	20.00
768		19224	0.00	61.83	1,129.84	5.04	53.58	13.42	20.00
769		19238	0.00	61.99	1,129.92	5.04	51.33	11.39	20.00
770		19244	0.00	92.02	1,128.51	5.04	75.72	11.75	20.00
771		19262	0.00	83.50	1,126.66	5.04	74.37	18.08	20.00
772		19284	0.00	92.61	1,128.12	5.04	-24.51	3.88	20.00
773		19286	0.00	91.45	1,128.12	5.04	-167.09	2.50	20.00
774		19294	0.00	87.53	1,127.00	5.04	79.79	17.89	20.00
775		19302	0.00	83.56	1,127.83	5.04	41.47	6.37	20.00
776		19310	0.00	91.90	1,128.51	5.04	75.48	11.69	20.00
777		19358	0.00	66.73	1,129.69	5.04	18.86	4.97	20.00
778		19360	0.02	62.37	1,129.70	5.04	35.47	6.61	20.00
779		19362	0.02	67.03	1,129.70	5.04	35.58	6.39	20.00
780		19388	0.02	62.07	1,129.67	5.04	21.21	5.14	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
781		19408	0.00	67.03	1,129.69	5.04	-27.29	3.41	20.00
782		19446	0.00	58.40	1,129.78	5.04	37.13	7.15	20.00
783		19448	0.02	62.92	1,129.75	5.04	34.40	6.41	20.00
784		19458	0.00	62.89	1,129.70	5.04	30.26	5.91	20.00
785		19460	0.00	67.03	1,129.70	5.04	35.12	6.32	20.00
786		19486	0.00	65.79	1,130.26	5.04	56.15	12.66	20.00
787		19488	0.00	64.28	1,130.26	5.04	54.64	12.42	20.00
788		19496	0.00	58.57	1,130.17	5.04	49.15	11.68	20.00
789		1952	0.00	68.13	1,126.77	5.04	-132.18	2.32	20.00
790		19528	0.04	63.42	1,131.37	5.04	19.84	5.07	20.00
791		19534	0.00	62.65	1,129.59	5.04	52.00	11.00	20.00
792		19552	0.00	54.06	1,129.76	5.04	39.44	8.06	20.00
793		19556	0.00	63.61	1,131.79	5.04	14.96	4.75	20.00
794		1958	0.00	68.82	1,126.77	5.04	-94.54	2.61	20.00
795		19580	0.00	59.82	1,131.72	5.04	11.97	4.56	20.00
796		19588	0.01	58.47	1,129.95	5.04	18.46	4.94	20.00
797		19610	0.00	62.21	1,129.85	5.04	36.71	6.74	20.00
798		19620	0.00	58.49	1,129.99	5.04	49.61	12.19	20.00
799		19636	0.01	62.36	1,129.93	5.04	51.35	11.20	20.00
800		19648	0.06	58.47	1,129.94	5.04	49.84	12.50	20.00
801		19698	0.02	64.23	1,129.85	5.04	32.32	6.09	20.00
802		19702	0.00	63.74	1,129.87	5.04	8.21	4.40	20.00
803		19706	0.00	67.11	1,129.87	5.04	-6.21	3.93	20.00
804		19716	0.02	64.77	1,129.86	5.04	29.67	5.81	20.00
805		19720	0.00	65.45	1,129.88	5.04	28.78	5.70	20.00
806		19722	0.02	62.86	1,129.82	5.04	-108.64	2.35	20.00
807		19724	0.00	65.69	1,129.90	5.04	30.91	5.89	20.00
808		19728	0.00	63.63	1,129.87	5.04	13.46	4.66	20.00
809		19730	0.02	64.96	1,129.80	5.04	-1,325.68	0.79	20.00
810		19732	0.02	64.65	1,129.78	5.04	-1,551.13	0.72	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
811		19746	0.00	62.71	1,129.73	5.04	-1,507.04	0.71	20.00
812		19776	0.00	63.17	1,129.92	5.04	25.05	5.41	20.00
813		19778	0.00	63.10	1,129.92	5.04	38.37	6.92	20.00
814		19826	0.00	63.32	1,129.92	5.04	40.75	7.31	20.00
815		19834	0.01	58.31	1,129.57	5.04	-71.51	2.54	20.00
816		19836	0.07	62.11	1,129.57	5.04	-24.87	3.39	20.00
817		19844	0.00	63.98	1,129.67	5.04	29.29	5.79	20.00
818		19854	0.00	79.52	1,141.87	5.04	59.69	10.28	20.00
819		19856	0.00	65.59	1,128.50	5.04	61.48	21.28	20.00
820		1986	0.00	66.73	1,126.72	5.04	-121.70	2.36	20.00
821		19860	0.00	65.02	1,128.40	5.04	60.80	20.68	20.00
822		19868	0.00	75.35	1,133.60	5.04	69.07	20.78	20.00
823		19880	0.00	80.97	1,139.09	5.04	72.92	20.98	20.00
824		19888	0.00	78.30	1,136.27	5.04	58.37	9.59	20.00
825		19900	0.00	74.76	1,132.63	5.04	56.17	9.47	20.00
826		19902	0.00	73.03	1,130.57	5.04	67.96	22.60	20.00
827		19908	0.00	62.13	1,128.40	5.04	44.08	8.17	20.00
828		19934	0.00	90.30	1,123.23	5.04	77.80	18.16	20.00
829		19948	0.00	86.76	1,115.19	5.04	65.43	12.06	20.00
830		1996	0.00	69.48	1,126.72	5.04	-97.67	2.60	20.00
831		19962	0.00	87.63	1,114.83	5.04	66.10	12.02	20.00
832		19972	0.00	88.06	1,123.78	5.04	76.15	18.41	20.00
833		19976	0.00	85.31	1,115.89	5.04	63.94	11.94	20.00
834		19990	0.00	69.72	1,126.89	5.04	64.82	20.72	20.00
835		20004	0.00	74.48	1,126.89	5.04	69.56	21.67	20.00
836		20006	0.04	70.71	1,126.89	5.04	65.80	20.92	20.00
837		20014	0.01	68.47	1,126.88	5.04	63.60	20.54	20.00
838		2002	0.00	68.57	1,126.72	5.04	6.38	4.40	20.00
839		20020	0.00	65.62	1,126.88	5.04	60.28	18.68	20.00
840		20028	0.01	67.68	1,126.88	5.04	62.85	20.44	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
841		20030	0.02	69.37	1,126.82	5.04	54.58	10.21	20.00
842		20034	0.02	72.13	1,126.84	5.04	51.23	8.53	20.00
843		20038	0.02	67.67	1,126.71	5.04	-2.40	4.08	20.00
844		20050	0.02	68.99	1,126.80	5.04	44.36	7.49	20.00
845		20052	0.00	69.79	1,126.82	5.04	0.51	4.20	20.00
846		20060	0.03	69.44	1,126.80	5.04	47.55	8.09	20.00
847		20076	0.01	68.79	1,126.88	5.04	44.93	7.57	20.00
848		20086	0.02	71.77	1,126.85	5.04	28.47	5.58	20.00
849		20090	0.02	70.03	1,126.86	5.04	56.50	10.82	20.00
850		20104	0.05	70.99	1,126.82	5.04	6.19	4.45	20.00
851		20118	0.03	70.69	1,126.84	5.04	46.53	7.72	20.00
852		20156	0.02	69.58	1,126.88	5.04	-4.91	4.04	20.00
853		20158	0.00	68.60	1,126.88	5.04	-1.54	4.12	20.00
854		20176	0.00	70.48	1,126.86	5.04	32.61	5.92	20.00
855		202	0.00	70.13	1,126.81	5.04	-19.73	3.63	20.00
856		20222	0.09	68.87	1,126.79	5.04	42.11	7.21	20.00
857		20256	0.02	67.52	1,126.72	5.04	-13.34	3.76	20.00
858		20260	0.02	67.08	1,126.73	5.04	-13.96	3.73	20.00
859		20264	0.02	67.27	1,126.71	5.04	-4.72	3.99	20.00
860		20274	0.03	67.99	1,126.72	5.04	-1.32	4.13	20.00
861		20286	0.03	66.53	1,126.71	5.04	-31.47	3.35	20.00
862		20290	0.00	68.15	1,126.85	5.04	47.72	8.24	20.00
863		20326	0.00	68.34	1,126.87	5.04	56.88	11.74	20.00
864		20344	0.00	70.88	1,126.89	5.04	-15.91	3.76	20.00
865		20350	0.00	72.41	1,126.90	5.04	67.50	21.25	20.00
866		20410	0.00	66.67	1,126.90	5.04	62.47	21.99	20.00
867		20414	0.02	69.02	1,126.92	5.04	64.04	20.18	20.00
868		20418	0.00	74.42	1,126.95	5.04	69.04	20.36	20.00
869		20422	0.00	77.17	1,126.97	5.04	72.51	23.16	20.00
870		20428	0.00	77.26	1,126.97	5.04	72.60	23.17	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
871	20440	0.00	77.03	1,126.97	5.04	72.29	22.78	20.00
872	20482	0.00	79.20	1,126.98	5.04	74.39	22.86	20.00
873	2050	0.00	65.74	1,126.71	5.04	-28.18	3.40	20.00
874	20510	0.00	77.37	1,126.97	5.04	72.45	22.31	20.00
875	20512	0.00	78.91	1,126.97	5.04	74.21	23.36	20.00
876	20514	0.00	78.31	1,126.97	5.04	73.62	23.27	20.00
877	20518	0.00	60.00	1,126.08	5.04	-43.12	2.98	20.00
878	20522	0.02	59.19	1,126.08	5.04	-1.85	3.94	20.00
879	20526	0.00	59.63	1,126.08	5.04	-2.40	3.92	20.00
880	20532	0.00	59.88	1,126.08	5.04	13.40	4.62	20.00
881	20534	0.00	60.22	1,126.07	5.04	-28.13	3.25	20.00
882	20536	0.00	60.10	1,126.07	5.04	-135.64	2.11	20.00
883	20540	0.00	60.27	1,126.07	5.04	-9.96	3.69	20.00
884	20542	0.00	60.96	1,126.07	5.04	-43.06	3.00	20.00
885	20546	0.00	60.63	1,126.07	5.04	-28.30	3.26	20.00
886	20548	0.00	60.59	1,126.07	5.04	-127.24	2.17	20.00
887	20554	0.02	60.77	1,126.07	5.04	-9.65	3.73	20.00
888	20556	0.00	61.24	1,126.07	5.04	-41.33	3.04	20.00
889	20564	0.02	60.98	1,126.07	5.04	9.80	4.46	20.00
890	20568	0.00	60.53	1,126.07	5.04	9.72	4.44	20.00
891	20574	0.03	56.80	1,126.08	5.04	13.58	4.63	20.00
892	20580	0.00	58.16	1,126.13	5.04	-25.39	3.26	20.00
893	20582	0.02	58.97	1,126.13	5.04	28.25	5.79	20.00
894	20590	0.00	57.62	1,126.16	5.04	-24.06	3.28	20.00
895	20598	0.00	57.13	1,126.38	5.04	-19.48	3.38	20.00
896	20606	0.00	56.69	1,126.45	5.04	-19.67	3.36	20.00
897	20610	0.00	58.41	1,126.17	5.04	35.46	6.79	20.00
898	20620	0.00	58.92	1,126.08	5.04	-42.27	2.96	20.00
899	20626	0.00	59.53	1,126.08	5.04	-41.14	3.00	20.00
900	20630	0.00	60.39	1,126.08	5.04	-44.51	2.97	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
901		20652	0.00	60.04	1,126.08	5.04	12.05	4.55	20.00
902		20654	0.01	60.43	1,126.07	5.04	10.00	4.46	20.00
903		20664	0.02	58.52	1,126.13	5.04	13.89	4.65	20.00
904		20668	0.02	59.63	1,126.12	5.04	-29.69	3.22	20.00
905		20676	0.02	57.93	1,126.16	5.04	16.49	4.81	20.00
906		20692	0.02	58.07	1,126.36	5.04	-13.04	3.58	20.00
907		20700	0.00	57.58	1,126.48	5.04	-20.43	3.37	20.00
908		20706	0.01	61.19	1,126.21	5.04	37.97	7.02	20.00
909		20710	0.02	61.22	1,126.30	5.04	57.61	20.70	20.00
910		2076	0.00	61.06	1,126.14	5.04	-3.54	3.93	20.00
911		20760	0.02	56.89	1,126.29	5.04	-1.68	3.92	20.00
912		20770	0.02	57.96	1,126.30	5.04	54.64	20.67	20.00
913		20778	0.00	61.20	1,126.25	5.04	-34.12	3.18	20.00
914		20780	0.00	57.54	1,126.25	5.04	-106.51	2.25	20.00
915		20782	0.00	58.30	1,126.22	5.04	-14.46	3.54	20.00
916		20784	0.00	58.22	1,126.22	5.04	-87.04	2.43	20.00
917		20786	0.02	59.19	1,126.16	5.04	-4.44	3.87	20.00
918		20790	0.02	59.13	1,126.16	5.04	40.90	7.86	20.00
919		20792	0.02	58.33	1,126.20	5.04	37.35	7.12	20.00
920		20804	0.00	57.20	1,126.31	5.04	55.21	25.43	20.00
921		20806	0.00	57.59	1,126.31	5.04	55.23	23.82	20.00
922		20808	0.00	57.62	1,126.31	5.04	55.24	23.74	20.00
923		20810	0.00	57.87	1,126.29	5.04	-45.01	2.91	20.00
924		20814	0.00	57.81	1,126.29	5.04	-127.48	2.12	20.00
925		20816	0.02	58.09	1,126.28	5.04	-21.29	3.38	20.00
926		20818	0.02	61.22	1,126.28	5.04	-101.07	2.39	20.00
927		20820	0.02	58.99	1,126.29	5.04	14.66	4.71	20.00
928		20832	0.02	60.44	1,126.10	5.04	35.98	6.74	20.00
929		20864	0.02	61.02	1,126.30	5.04	56.94	19.56	20.00
930		20870	0.04	56.89	1,126.30	5.04	52.65	18.30	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
931		20898	0.02	56.81	1,126.11	5.04	31.22	6.22	20.00
932		20902	0.03	59.86	1,126.13	5.04	38.52	7.25	20.00
933		20916	0.02	61.15	1,126.13	5.04	-8.20	3.79	20.00
934		20918	0.00	59.80	1,126.11	5.04	-13.30	3.60	20.00
935		20920	0.02	60.05	1,126.11	5.04	-9.69	3.72	20.00
936		20922	0.02	60.23	1,126.10	5.04	-13.71	3.61	20.00
937		20932	0.03	59.67	1,126.30	5.04	55.83	19.83	20.00
938		20934	0.00	60.07	1,126.30	5.04	14.98	4.72	20.00
939		20994	0.02	61.35	1,126.09	5.04	38.22	7.06	20.00
940		20996	0.02	61.48	1,126.32	5.04	56.95	18.73	20.00
941		20998	0.03	61.11	1,126.30	5.04	11.75	4.58	20.00
942		21000	0.02	60.85	1,126.09	5.04	34.41	6.49	20.00
943		21002	0.02	60.64	1,126.09	5.04	-13.82	3.61	20.00
944		21004	0.00	61.05	1,126.09	5.04	-9.72	3.72	20.00
945		21006	0.02	61.06	1,126.09	5.04	-11.09	3.70	20.00
946		21010	0.02	61.01	1,126.31	5.04	56.60	18.85	20.00
947		21012	0.00	62.05	1,126.33	5.04	57.41	18.63	20.00
948		21014	0.02	60.61	1,126.30	5.04	4.53	4.23	20.00
949		21016	0.02	65.56	1,126.32	5.04	8.70	4.48	20.00
950		21018	0.02	65.57	1,126.33	5.04	8.60	4.47	20.00
951		21024	0.04	65.14	1,126.61	5.04	60.55	20.00	20.00
952		21108	0.02	62.57	1,126.07	5.04	6.62	4.34	20.00
953		21112	0.02	61.64	1,126.07	5.04	5.82	4.29	20.00
954		21114	0.00	61.82	1,126.08	5.04	37.61	6.91	20.00
955		21116	0.02	62.11	1,126.07	5.04	37.85	6.95	20.00
956		21120	0.00	61.37	1,126.08	5.04	-10.58	3.70	20.00
957		21122	0.00	61.87	1,126.07	5.04	-10.85	3.71	20.00
958		21124	0.00	62.41	1,126.07	5.04	37.21	6.81	20.00
959		21128	0.02	63.86	1,126.07	5.04	-14.62	3.66	20.00
960		21130	0.02	62.80	1,126.08	5.04	36.46	6.69	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
961		21132	0.02	62.18	1,126.07	5.04	-10.92	3.72	20.00
962		21136	0.00	65.60	1,126.40	5.04	15.99	4.81	20.00
963		21138	0.00	62.85	1,126.36	5.04	58.13	18.71	20.00
964		21140	0.02	63.41	1,126.38	5.04	58.65	18.81	20.00
965		21142	0.02	63.95	1,126.40	5.04	59.15	18.86	20.00
966		21144	0.02	64.00	1,126.40	5.04	7.44	4.40	20.00
967		21146	0.00	63.40	1,126.38	5.04	5.90	4.32	20.00
968		21148	0.00	62.81	1,126.36	5.04	6.35	4.33	20.00
969		21150	0.00	65.58	1,126.34	5.04	59.21	16.14	20.00
970		21154	0.00	61.17	1,126.18	5.04	-0.14	4.03	20.00
971		21156	0.00	62.89	1,126.18	5.04	-70.20	2.70	20.00
972		21162	0.02	63.87	1,126.08	5.04	-0.75	4.07	20.00
973		21174	0.00	62.62	1,126.07	5.04	-1.64	4.00	20.00
974		21178	0.10	65.44	1,126.03	5.04	-0.81	4.17	20.00
975		21196	0.02	61.28	1,126.43	5.04	26.43	5.56	20.00
976		21206	0.02	61.30	1,126.46	5.04	18.31	4.94	20.00
977		21210	0.02	65.07	1,126.50	5.04	22.10	5.19	20.00
978		21218	0.00	61.31	1,126.50	5.04	37.21	6.85	20.00
979		21222	0.00	65.73	1,126.56	5.04	36.55	6.48	20.00
980		21250	0.00	62.43	1,126.07	5.04	-73.08	2.65	20.00
981		21252	0.02	63.09	1,126.07	5.04	31.75	6.07	20.00
982		21254	0.00	62.67	1,126.03	5.04	-74.83	2.63	20.00
983		21256	0.02	63.33	1,126.08	5.04	31.17	6.00	20.00
984		21258	0.00	61.13	1,126.08	5.04	-75.27	2.60	20.00
985		21262	0.00	61.28	1,126.43	5.04	-45.33	3.00	20.00
986		21264	0.02	64.24	1,126.43	5.04	59.42	18.96	20.00
987		21266	0.02	64.66	1,126.46	5.04	59.87	19.17	20.00
988		21268	0.00	64.86	1,126.43	5.04	-2.96	4.02	20.00
989		21270	0.00	65.59	1,126.46	5.04	-40.23	3.18	20.00
990		21272	0.06	65.24	1,126.46	5.04	-32.09	3.35	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
991		21274	0.00	61.31	1,126.51	5.04	56.55	18.55	20.00
992		21276	0.00	65.47	1,126.56	5.04	-35.17	3.26	20.00
993		21278	0.02	61.34	1,126.56	5.04	56.63	18.78	20.00
994		21280	0.00	66.32	1,126.50	5.04	-38.53	3.22	20.00
995		21282	0.00	65.55	1,126.56	5.04	-1.55	4.07	20.00
996		21284	0.00	65.79	1,126.61	5.04	-97.95	2.51	20.00
997		21286	0.02	65.80	1,126.61	5.04	-14.88	3.70	20.00
998		21288	0.03	65.45	1,126.62	5.04	-39.07	3.21	20.00
999		21290	0.00	66.20	1,126.62	5.04	-119.08	2.35	20.00
1000		21294	0.02	64.10	1,126.19	5.04	24.27	5.36	20.00
1001		21298	0.00	63.51	1,126.25	5.04	0.05	4.08	20.00
1002		21302	0.00	64.34	1,126.25	5.04	12.63	4.62	20.00
1003		21308	0.02	63.69	1,126.18	5.04	35.30	6.48	20.00
1004		21312	0.02	64.05	1,126.25	5.04	33.52	6.24	20.00
1005		21318	0.02	64.77	1,126.34	5.04	8.19	4.44	20.00
1006		21322	0.02	63.94	1,126.34	5.04	2.28	4.19	20.00
1007		21328	0.02	64.37	1,126.34	5.04	35.83	6.51	20.00
1008		21336	0.00	64.49	1,126.52	5.04	-22.35	3.48	20.00
1009		21344	0.03	61.33	1,126.55	5.04	-45.29	3.02	20.00
1010		21348	0.02	65.92	1,126.81	5.04	61.87	21.95	20.00
1011		21358	0.01	65.57	1,126.72	5.04	61.30	21.08	20.00
1012		21364	0.02	64.80	1,126.49	5.04	43.02	7.65	20.00
1013		21366	0.00	61.32	1,126.52	5.04	-93.03	2.45	20.00
1014		21368	0.00	64.83	1,126.55	5.04	-125.80	2.28	20.00
1015		21370	0.00	63.34	1,126.25	5.04	-70.56	2.71	20.00
1016		21372	0.00	63.80	1,126.34	5.04	-69.11	2.73	20.00
1017		21374	0.00	64.58	1,126.25	5.04	-58.90	2.87	20.00
1018		21376	0.00	64.97	1,126.34	5.04	-57.54	2.90	20.00
1019		21392	0.00	66.06	1,126.91	5.04	62.24	22.96	20.00
1020		21406	0.02	83.16	1,126.93	5.04	73.35	15.89	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1021		21410	0.00	77.90	1,126.93	5.04	55.42	8.65	20.00
1022		21414	0.00	79.84	1,126.92	5.04	42.71	6.60	20.00
1023		21438	0.04	78.57	1,126.93	5.04	68.83	15.19	20.00
1024		21444	0.00	87.69	1,127.37	5.04	76.76	15.13	20.00
1025		21450	0.00	78.62	1,126.93	5.04	63.04	10.94	20.00
1026		21454	0.00	79.25	1,126.92	5.04	51.06	7.69	20.00
1027		21458	0.00	78.83	1,126.92	5.04	-18.84	3.81	20.00
1028		21468	0.02	79.75	1,126.88	5.04	-7.88	4.08	20.00
1029		21474	0.00	83.15	1,126.90	5.04	7.68	4.56	20.00
1030		21494	0.00	83.15	1,126.91	5.04	29.34	5.51	20.00
1031		21498	0.00	78.80	1,126.86	5.04	-191.55	2.18	20.00
1032		21500	0.02	81.97	1,126.86	5.04	-71.95	3.06	20.00
1033		21502	0.03	81.01	1,126.86	5.04	-44.44	3.41	20.00
1034		21508	0.00	79.51	1,126.90	5.04	27.97	5.47	20.00
1035		21522	0.02	78.18	1,126.91	5.04	-2.18	4.23	20.00
1036		21524	0.00	79.62	1,126.92	5.04	23.71	5.22	20.00
1037		21546	0.00	78.36	1,126.92	5.04	30.94	5.66	20.00
1038		21566	0.02	79.89	1,126.91	5.04	-25.22	3.71	20.00
1039		21590	0.02	79.97	1,126.94	5.04	70.54	16.06	20.00
1040		21592	0.03	81.43	1,126.96	5.04	72.44	17.16	20.00
1041		21618	0.00	78.93	1,126.90	5.04	-80.20	2.92	20.00
1042		21630	0.00	90.88	1,127.73	5.04	68.43	9.68	20.00
1043		21636	0.00	91.05	1,127.73	5.04	73.06	11.08	20.00
1044		2166	0.00	67.82	1,126.68	5.04	-78.25	2.74	20.00
1045		21662	0.02	61.71	1,128.01	5.04	8.82	4.43	20.00
1046		21710	0.02	61.88	1,128.04	5.04	7.75	4.38	20.00
1047		21726	0.00	61.63	1,128.03	5.04	-71.59	2.66	20.00
1048		21730	0.02	61.99	1,128.03	5.04	51.94	11.68	20.00
1049		2174	0.00	66.51	1,126.65	5.04	-92.19	2.58	20.00
1050		21742	0.03	61.13	1,128.00	5.04	-76.54	2.61	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1051	21746	0.02	61.53	1,128.02	5.04	48.61	9.96	20.00
1052	21750	0.02	62.15	1,128.00	5.04	-129.15	2.20	20.00
1053	21758	0.02	61.15	1,128.01	5.04	45.23	8.74	20.00
1054	21768	0.02	59.82	1,127.89	5.04	-96.62	2.37	20.00
1055	21770	0.00	59.29	1,127.89	5.04	-133.46	2.09	20.00
1056	21776	0.00	57.63	1,128.01	5.04	40.06	7.81	20.00
1057	21784	0.02	61.77	1,128.04	5.04	54.57	14.43	20.00
1058	21786	0.03	62.10	1,128.05	5.04	56.78	17.07	20.00
1059	21794	0.02	59.78	1,127.87	5.04	-150.33	2.02	20.00
1060	21798	0.02	60.14	1,127.88	5.04	-114.98	2.24	20.00
1061	21814	0.02	60.68	1,127.88	5.04	22.94	5.27	20.00
1062	21816	0.00	58.03	1,128.92	5.04	54.98	22.63	20.00
1063	21824	0.00	62.20	1,128.08	5.04	59.54	25.00	20.00
1064	21826	0.00	57.57	1,127.87	5.04	55.01	23.89	20.00
1065	21834	0.00	61.10	1,129.08	5.04	57.98	23.36	20.00
1066	21872	0.00	67.42	1,127.65	5.04	-31.90	3.34	20.00
1067	21876	0.00	67.09	1,127.65	5.04	-86.15	2.63	20.00
1068	2188	0.00	66.88	1,126.66	5.04	-130.56	2.30	20.00
1069	21880	0.00	66.51	1,127.65	5.04	-96.13	2.53	20.00
1070	21884	0.00	66.69	1,127.66	5.04	-58.38	2.93	20.00
1071	21888	0.00	66.13	1,127.66	5.04	-5.31	3.95	20.00
1072	21892	0.00	66.33	1,127.68	5.04	-36.90	3.23	20.00
1073	21896	0.02	66.96	1,127.69	5.04	-24.29	3.50	20.00
1074	21900	0.00	66.95	1,127.70	5.04	-12.79	3.75	20.00
1075	21902	0.00	67.32	1,127.76	5.04	20.27	5.06	20.00
1076	21906	0.00	67.48	1,127.68	5.04	-20.37	3.58	20.00
1077	21910	0.00	68.95	1,127.61	5.04	61.73	15.85	20.00
1078	21918	0.00	69.08	1,127.50	5.04	12.64	4.67	20.00
1079	21926	0.00	68.57	1,127.60	5.04	10.00	4.54	20.00
1080	21930	0.00	67.78	1,127.55	5.04	-45.80	3.13	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1081		21934	0.00	67.60	1,127.55	5.04	-52.33	3.04	20.00
1082		21938	0.00	67.87	1,127.54	5.04	3.86	4.29	20.00
1083		21942	0.00	68.57	1,127.53	5.04	60.74	14.93	20.00
1084		21944	0.00	69.06	1,127.65	5.04	62.43	16.70	20.00
1085		21972	0.02	70.45	1,127.64	5.04	-34.89	3.37	20.00
1086		21988	0.02	70.52	1,127.63	5.04	-139.85	2.31	20.00
1087		21990	0.00	70.51	1,127.63	5.04	-29.50	3.45	20.00
1088		21996	0.00	66.14	1,127.65	5.04	7.05	4.39	20.00
1089		22000	0.00	70.86	1,127.64	5.04	-7.03	3.98	20.00
1090		22002	0.00	71.00	1,127.64	5.04	16.21	4.84	20.00
1091		22030	0.00	66.18	1,127.65	5.04	-15.99	3.67	20.00
1092		22052	0.00	66.18	1,127.65	5.04	5.20	4.32	20.00
1093		2206	0.00	66.52	1,126.58	5.04	0.27	4.15	20.00
1094		22066	0.00	66.61	1,127.65	5.04	-88.17	2.60	20.00
1095		22068	0.00	66.45	1,127.65	5.04	-98.35	2.51	20.00
1096		22070	0.00	66.65	1,127.66	5.04	-70.82	2.78	20.00
1097		22074	0.00	66.37	1,127.68	5.04	-35.94	3.25	20.00
1098		22078	0.00	66.31	1,127.68	5.04	-36.65	3.24	20.00
1099		22082	0.00	66.09	1,127.66	5.04	-3.79	4.00	20.00
1100		22084	0.00	66.18	1,127.65	5.04	-37.31	3.23	20.00
1101		22086	0.03	66.80	1,127.67	5.04	-153.25	2.17	20.00
1102		22096	0.00	67.50	1,127.69	5.04	-19.37	3.60	20.00
1103		22098	0.00	67.45	1,127.65	5.04	-19.22	3.60	20.00
1104		22100	0.00	66.93	1,127.65	5.04	-94.78	2.55	20.00
1105		22102	0.02	70.48	1,127.65	5.04	-79.08	2.78	20.00
1106		22104	0.02	68.02	1,127.61	5.04	-50.41	3.07	20.00
1107		22106	0.02	68.07	1,127.60	5.04	-57.98	2.97	20.00
1108		22116	0.00	68.57	1,127.60	5.04	21.78	5.15	20.00
1109		22118	0.02	68.69	1,127.60	5.04	-27.91	3.47	20.00
1110		22120	0.00	68.26	1,127.55	5.04	-2.62	4.08	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1111		22126	0.00	67.64	1,127.55	5.04	-51.13	3.05	20.00
1112		22128	0.00	67.39	1,127.54	5.04	-47.34	3.10	20.00
1113		22132	0.00	68.35	1,127.41	5.04	60.35	14.64	20.00
1114		22134	0.00	68.68	1,127.46	5.04	60.77	14.83	20.00
1115		22138	0.00	69.30	1,127.53	5.04	4.29	4.33	20.00
1116		22140	0.00	69.35	1,127.53	5.04	4.24	4.33	20.00
1117		22150	0.00	68.79	1,127.57	5.04	61.15	15.23	20.00
1118		22152	0.02	79.12	1,127.60	5.04	48.70	7.40	20.00
1119		22156	0.07	73.12	1,127.60	5.04	-68.78	2.98	20.00
1120		2216	0.00	64.26	1,126.43	5.04	-125.53	2.27	20.00
1121		22170	0.03	72.52	1,127.78	5.04	66.17	18.19	20.00
1122		22176	0.00	73.01	1,127.69	5.04	49.89	8.11	20.00
1123		22178	0.02	72.46	1,127.71	5.04	23.03	5.23	20.00
1124		22186	0.02	74.71	1,127.62	5.04	42.69	6.86	20.00
1125		22196	0.02	74.19	1,127.69	5.04	41.01	6.68	20.00
1126		22204	0.02	74.74	1,127.74	5.04	47.33	7.51	20.00
1127		2224	0.00	64.19	1,126.43	5.04	-96.12	2.48	20.00
1128		22244	0.00	74.03	1,127.66	5.04	48.25	7.71	20.00
1129		22268	0.02	72.21	1,127.68	5.04	-91.40	2.70	20.00
1130		22274	0.02	70.49	1,127.68	5.04	46.89	7.82	20.00
1131		22300	0.02	70.46	1,127.62	5.04	-30.82	3.44	20.00
1132		22312	0.02	72.18	1,127.29	5.04	-123.15	2.45	20.00
1133		22318	0.02	72.51	1,127.32	5.04	-0.64	4.21	20.00
1134		22326	0.02	72.63	1,127.29	5.04	-12.73	3.87	20.00
1135		22334	0.02	71.68	1,127.45	5.04	24.49	5.32	20.00
1136		22338	0.00	71.65	1,127.65	5.04	64.04	16.00	20.00
1137		2236	0.00	65.62	1,126.43	5.04	-48.98	3.03	20.00
1138		22364	0.02	70.32	1,127.28	5.04	20.12	5.06	20.00
1139		22368	0.02	72.54	1,127.29	5.04	-32.71	3.44	20.00
1140		22404	0.10	74.84	1,127.24	5.04	4.48	4.47	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1141		2242	0.00	63.91	1,126.43	5.04	-74.18	2.68	20.00
1142		22458	0.00	70.70	1,136.02	5.04	65.03	24.91	20.00
1143		22524	0.00	72.30	1,129.25	5.04	67.81	24.56	20.00
1144		22526	0.00	75.18	1,127.91	5.04	68.58	21.32	20.00
1145		22540	0.07	70.90	1,135.71	5.04	65.30	24.79	20.00
1146		22550	0.00	65.99	1,126.89	5.04	57.88	14.19	20.00
1147		22554	0.00	66.68	1,126.89	5.04	-21.19	3.56	20.00
1148		22558	0.00	66.01	1,126.89	5.04	57.60	13.84	20.00
1149		22580	0.00	63.80	1,132.53	5.04	58.18	18.40	20.00
1150		22592	0.00	63.95	1,132.53	5.04	57.76	17.26	20.00
1151		22602	0.00	5.23	1,037.06	5.04	-38.50	-99.98	19.99
1152		22608	0.00	80.04	1,171.44	5.04	15.96	4.83	20.00
1153		22616	0.00	4.70	969.50	5.04	-79.09	-2.01	20.00
1154		22622	0.02	66.21	1,129.82	5.04	-50.45	3.02	20.00
1155		22624	0.00	66.24	1,129.82	5.04	-65.85	2.81	20.00
1156		22628	0.00	63.34	1,131.18	5.04	-16.42	3.62	20.00
1157		22640	0.00	70.15	1,126.89	5.04	17.39	4.90	20.00
1158		22646	0.00	5.63	936.99	5.04	5.49	-73.23	19.99
1159		22706	0.00	57.76	1,126.23	5.04	56.29	27.49	20.00
1160		22708	0.00	0.93	1,002.50	5.04	0.74	-60.72	20.00
1161		22710	0.00	81.56	1,173.22	5.04	26.00	5.39	20.00
1162		22720	0.00	70.19	1,128.90	5.04	64.86	19.83	20.00
1163		22724	0.00	67.03	1,126.96	5.04	60.96	17.13	20.00
1164		22726	0.00	70.18	1,126.97	5.04	49.52	8.31	20.00
1165		22728	0.00	66.50	1,126.97	5.04	17.20	4.88	20.00
1166		22730	0.00	66.00	1,127.01	5.04	23.95	5.30	20.00
1167		22732	0.00	66.03	1,127.04	5.04	0.03	4.13	20.00
1168		22734	0.00	69.35	1,126.98	5.04	50.33	8.64	20.00
1169		22736	0.00	69.07	1,126.98	5.04	62.93	17.50	20.00
1170		22738	0.00	70.56	1,126.98	5.04	6.57	4.43	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1171		22740	0.00	70.29	1,126.98	5.04	-15.72	3.75	20.00
1172		22742	0.00	67.63	1,126.97	5.04	11.49	4.60	20.00
1173		22744	0.00	67.28	1,126.98	5.04	60.92	16.72	20.00
1174		22746	0.00	67.69	1,127.01	5.04	61.88	17.76	20.00
1175		22748	0.00	67.36	1,127.03	5.04	60.96	16.68	20.00
1176		22750	0.00	68.44	1,126.99	5.04	62.67	18.06	20.00
1177		22752	0.00	68.74	1,126.99	5.04	61.73	16.13	20.00
1178		22754	0.00	69.40	1,126.99	5.04	50.81	8.77	20.00
1179		22756	0.00	69.60	1,126.96	5.04	63.39	17.49	20.00
1180		22760	0.00	69.23	1,126.96	5.04	48.27	8.16	20.00
1181		22762	0.00	68.11	1,126.97	5.04	-0.96	4.13	20.00
1182		22764	0.00	67.60	1,126.97	5.04	-49.61	3.08	20.00
1183		22766	0.00	67.63	1,126.97	5.04	12.33	4.64	20.00
1184		22768	0.00	65.85	1,126.97	5.04	-291.68	1.65	20.00
1185		22770	0.00	69.53	1,126.96	5.04	-4.54	4.04	20.00
1186		22772	0.00	65.85	1,126.97	5.04	-11.42	3.78	20.00
1187		22774	0.00	70.21	1,127.03	5.04	4.56	4.35	20.00
1188		22776	0.00	70.22	1,127.06	5.04	-31.50	3.42	20.00
1189		22778	0.00	66.35	1,127.08	5.04	18.09	4.93	20.00
1190		22780	0.00	66.52	1,127.07	5.04	9.71	4.51	20.00
1191		22782	0.00	66.45	1,127.13	5.04	58.60	14.46	20.00
1192		22784	0.00	66.51	1,127.09	5.04	58.87	14.76	20.00
1193		22786	0.00	67.42	1,127.06	5.04	-179.97	2.05	20.00
1194		22788	0.00	67.15	1,127.18	5.04	59.25	14.53	20.00
1195		22790	0.00	67.50	1,127.18	5.04	18.51	4.95	20.00
1196		22792	0.00	67.76	1,127.26	5.04	59.99	14.81	20.00
1197		22794	0.00	68.63	1,127.03	5.04	50.61	8.85	20.00
1198		22796	0.00	69.09	1,127.09	5.04	-5.88	3.99	20.00
1199		22798	0.00	68.12	1,127.23	5.04	50.92	9.03	20.00
1200		22800	0.00	70.47	1,126.99	5.04	62.42	15.13	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1201		22802	0.00	69.22	1,126.99	5.04	61.95	15.89	20.00
1202		22804	0.00	69.88	1,126.93	5.04	64.96	20.53	20.00
1203		22806	0.00	60.00	1,127.98	5.04	-106.28	3.10	20.00
1204		22808	0.00	94.59	1,170.67	5.04	6.68	4.55	20.00
1205		22810	0.00	69.34	1,126.88	5.04	64.62	21.06	20.00
1206		22850	0.00	81.48	1,126.97	5.04	76.66	23.29	20.00
1207		2286	0.00	63.15	1,126.38	5.04	-145.21	2.11	20.00
1208		22860	0.00	69.14	1,124.56	5.04	53.24	11.48	20.00
1209		22862	0.00	69.49	1,124.60	5.04	49.39	9.28	20.00
1210		22864	0.00	93.81	1,127.85	5.04	62.04	8.15	20.00
1211		22890	0.00	56.52	1,126.95	5.04	54.31	24.64	20.00
1212		2290	0.06	62.17	1,126.36	5.04	-179.00	1.98	20.00
1213		22900	0.00	56.64	1,125.71	5.04	54.93	25.26	20.00
1214		22902	0.00	73.78	1,171.16	5.04	-97.96	2.48	20.00
1215		22904	0.00	87.68	1,230.30	5.04	-70.11	3.23	20.00
1216		22906	0.00	76.82	1,126.93	5.04	67.70	15.33	20.00
1217		22908	0.00	76.28	1,128.49	5.04	54.31	9.05	20.00
1218		22910	0.00	76.07	1,128.57	5.04	54.09	9.02	20.00
1219		2304	0.00	61.30	1,126.47	5.04	0.86	4.08	20.00
1220		2306	0.00	65.12	1,126.48	5.04	42.19	7.38	20.00
1221		2312	0.00	65.25	1,126.48	5.04	47.17	8.48	20.00
1222		2336	0.00	65.09	1,126.48	5.04	48.79	9.00	20.00
1223		2338	0.00	65.41	1,126.48	5.04	51.78	10.05	20.00
1224		2344	0.00	61.23	1,126.31	5.04	-104.50	2.36	20.00
1225		2350	0.00	63.25	1,126.31	5.04	-122.63	2.28	20.00
1226		2352	0.00	62.91	1,126.30	5.04	-40.61	3.12	20.00
1227		23558	0.08	89.49	1,121.53	5.04	74.34	16.04	20.00
1228		23564	0.00	86.01	1,118.50	5.04	49.99	7.46	20.00
1229		23570	0.08	85.44	1,123.41	5.04	71.58	15.68	20.00
1230		23584	0.20	86.89	1,114.54	5.04	45.63	7.10	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1231		23586	0.01	69.14	1,124.57	5.04	44.43	7.94	20.00
1232		2374	0.00	63.11	1,126.32	5.04	-30.56	3.30	20.00
1233		23934	0.00	83.18	1,126.98	5.04	78.36	23.59	20.00
1234		23936	0.04	87.14	1,127.83	5.04	42.51	6.39	20.00
1235		23958	0.01	87.70	1,127.39	5.04	76.69	15.06	20.00
1236		23960	0.02	83.60	1,126.66	5.04	72.14	14.78	20.00
1237		23962	0.02	83.62	1,126.66	5.04	74.10	17.37	20.00
1238		23968	0.02	83.18	1,126.01	5.04	74.43	20.95	20.00
1239		23982	0.01	72.28	1,125.26	5.04	54.48	10.51	20.00
1240		23984	0.00	69.14	1,124.57	5.04	44.36	7.92	20.00
1241		240	0.00	70.40	1,126.85	5.04	16.64	4.86	20.00
1242		2400	0.00	62.39	1,126.28	5.04	11.37	4.55	20.00
1243		24008	0.00	43.67	1,085.23	5.04	22.55	5.21	20.00
1244		24010	0.07	79.25	1,097.89	5.04	54.79	8.44	20.00
1245		24016	0.00	86.56	1,109.77	5.04	50.43	7.84	20.00
1246		24018	0.00	86.82	1,111.69	5.04	43.90	6.75	20.00
1247		24028	0.00	10.97	1,064.05	5.04	-20.09	-1.84	20.00
1248		24030	0.00	33.91	1,072.99	5.04	7.04	3.29	20.00
1249		24054	0.00	80.92	1,230.30	5.04	-87.04	2.95	20.00
1250		2406	0.00	61.60	1,126.28	5.04	-55.96	2.86	20.00
1251		2412	0.00	65.55	1,126.28	5.04	-18.87	3.60	20.00
1252		24148	0.01	69.14	1,124.57	5.04	47.46	8.77	20.00
1253		24150	0.01	72.93	1,124.57	5.04	44.12	7.46	20.00
1254		24152	0.00	69.14	1,124.58	5.04	51.34	10.28	20.00
1255		24162	0.04	63.53	1,131.63	5.04	16.62	4.88	20.00
1256		24166	0.00	58.53	1,130.08	5.04	49.33	11.89	20.00
1257		24176	0.01	88.96	1,230.30	5.04	20.38	5.07	20.00
1258		24226	0.03	81.28	1,230.30	5.04	-6.40	4.22	20.00
1259		24228	0.00	79.73	1,230.30	5.04	-9.90	4.09	20.00
1260		24230	0.03	55.04	1,173.32	5.04	-1.99	3.66	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1261	2446	0.00	62.03	1,126.29	5.04	-18.58	3.53	20.00
1262	2452	0.00	65.57	1,126.34	5.04	20.32	5.06	20.00
1263	246	0.00	70.05	1,126.84	5.04	-103.23	2.54	20.00
1264	248	0.00	69.93	1,126.84	5.04	-19.50	3.64	20.00
1265	2486	0.00	60.82	1,126.19	5.04	-18.33	3.51	20.00
1266	2518	0.00	60.97	1,126.19	5.04	7.77	4.37	20.00
1267	252	0.00	70.60	1,126.83	5.04	2.15	4.25	20.00
1268	2552	0.00	59.98	1,126.17	5.04	-43.08	3.01	20.00
1269	2562	0.00	59.78	1,126.18	5.04	-142.85	2.08	20.00
1270	2572	0.00	58.66	1,126.15	5.04	-85.15	2.46	20.00
1271	2578	0.00	59.05	1,126.14	5.04	-43.43	2.98	20.00
1272	2598	0.00	56.83	1,126.15	5.04	-51.95	2.79	20.00
1273	2612	0.00	61.04	1,126.19	5.04	53.52	13.61	20.00
1274	2616	0.00	61.95	1,126.23	5.04	53.32	12.63	20.00
1275	2618	0.00	62.43	1,126.26	5.04	53.21	12.20	20.00
1276	2642	0.00	61.26	1,126.39	5.04	42.47	7.85	20.00
1277	2654	0.00	63.24	1,126.39	5.04	41.25	7.36	20.00
1278	2668	0.00	61.27	1,126.40	5.04	50.70	11.08	20.00
1279	2682	0.00	65.64	1,126.48	5.04	55.01	11.73	20.00
1280	2688	0.00	66.59	1,126.58	5.04	56.42	12.23	20.00
1281	2692	0.00	67.20	1,126.63	5.04	57.40	12.63	20.00
1282	2696	0.00	68.52	1,126.73	5.04	60.16	14.27	20.00
1283	2708	0.00	65.78	1,126.81	5.04	59.33	16.34	20.00
1284	2716	0.00	70.92	1,126.88	5.04	66.54	22.44	20.00
1285	272	0.15	71.63	1,126.64	5.04	-33.50	3.52	20.00
1286	2720	0.00	82.85	1,126.45	5.04	73.78	19.03	20.00
1287	2722	0.08	83.01	1,126.08	5.04	74.37	21.11	20.00
1288	2740	0.00	61.64	1,129.69	5.04	-64.91	2.71	20.00
1289	2742	0.00	53.25	1,173.32	5.04	-32.53	2.77	20.00
1290	2746	0.00	53.37	1,173.32	5.04	-130.62	1.84	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1291	2776	0.00	55.67	1,173.33	5.04	-27.27	2.95	20.00
1292	2782	0.00	57.21	1,127.03	5.04	48.81	12.18	20.00
1293	28	0.00	70.77	1,134.01	5.04	61.09	15.56	20.00
1294	2802	0.00	57.26	1,127.16	5.04	44.11	9.19	20.00
1295	2812	0.00	54.84	1,127.16	5.04	47.71	13.08	20.00
1296	2818	0.00	55.04	1,127.22	5.04	48.56	13.94	20.00
1297	2830	0.00	63.36	1,129.75	5.04	34.56	6.40	20.00
1298	2842	0.00	63.71	1,129.76	5.04	27.39	5.61	20.00
1299	2874	0.00	63.52	1,129.75	5.04	-39.35	3.12	20.00
1300	2880	0.00	63.41	1,129.75	5.04	21.18	5.12	20.00
1301	2890	0.00	63.35	1,129.75	5.04	30.06	5.87	20.00
1302	2894	0.00	63.35	1,129.75	5.04	34.77	6.43	20.00
1303	2896	0.00	63.17	1,129.75	5.04	33.70	6.29	20.00
1304	2914	0.00	64.05	1,129.76	5.04	32.71	6.14	20.00
1305	2920	0.00	63.92	1,129.75	5.04	28.77	5.73	20.00
1306	294	0.00	70.08	1,126.73	5.04	-80.39	2.73	20.00
1307	2954	0.00	65.54	1,127.96	5.04	42.59	7.43	20.00
1308	2956	0.00	65.52	1,127.96	5.04	42.09	7.34	20.00
1309	2960	0.00	65.48	1,127.96	5.04	41.36	7.21	20.00
1310	2970	0.00	64.79	1,127.96	5.04	36.87	6.58	20.00
1311	298	0.00	73.51	1,126.73	5.04	-187.10	2.11	20.00
1312	2990	0.00	61.94	1,127.96	5.04	32.85	6.19	20.00
1313	3006	0.00	64.69	1,127.96	5.04	39.35	6.94	20.00
1314	3014	0.00	63.64	1,129.71	5.04	15.92	4.79	20.00
1315	3018	0.00	63.59	1,129.70	5.04	21.41	5.14	20.00
1316	302	0.00	71.84	1,126.79	5.04	-55.79	3.05	20.00
1317	3020	0.00	62.98	1,129.70	5.04	29.87	5.87	20.00
1318	3022	0.00	63.30	1,129.70	5.04	23.56	5.30	20.00
1319	3032	0.00	63.39	1,129.70	5.04	-79.66	2.60	20.00
1320	3036	0.00	63.23	1,129.70	5.04	-13.06	3.66	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1321		304	0.00	72.19	1,126.79	5.04	-140.41	2.32	20.00
1322		3042	0.00	63.43	1,129.70	5.04	-12.10	3.69	20.00
1323		3046	0.00	63.27	1,129.70	5.04	2.69	4.16	20.00
1324		3054	0.02	63.13	1,129.70	5.04	17.28	4.88	20.00
1325		306	0.00	70.66	1,126.84	5.04	3.24	4.29	20.00
1326		3076	0.00	67.04	1,129.71	5.04	-7.42	3.89	20.00
1327		3078	0.02	63.18	1,129.71	5.04	17.00	4.87	20.00
1328		3120	0.00	62.70	1,129.69	5.04	10.17	4.48	20.00
1329		3122	0.00	62.70	1,129.69	5.04	7.64	4.36	20.00
1330		3130	0.00	62.70	1,129.69	5.04	-38.43	3.11	20.00
1331		3142	0.00	62.70	1,129.69	5.04	-94.51	2.44	20.00
1332		3164	0.00	62.70	1,129.69	5.04	-1.42	4.00	20.00
1333		3192	0.00	58.22	1,129.35	5.04	53.08	16.55	20.00
1334		3194	0.00	58.22	1,129.36	5.04	52.98	16.35	20.00
1335		3200	0.00	58.22	1,129.35	5.04	41.64	8.10	20.00
1336		3204	0.00	59.56	1,129.34	5.04	54.87	17.77	20.00
1337		3222	0.00	65.29	1,125.68	5.04	-84.43	2.60	20.00
1338		3238	0.00	61.34	1,129.69	5.04	-75.59	2.58	20.00
1339		3262	0.00	0.99	1,002.50	5.04	0.95	-137.29	19.98
1340		3274	0.06	81.43	1,126.70	5.04	-100.28	2.80	20.00
1341		3290	0.00	57.89	1,126.08	5.04	54.47	19.42	20.00
1342		3308	0.00	57.29	1,126.21	5.04	12.39	4.55	20.00
1343		3316	0.00	57.34	1,126.21	5.04	-868.37	0.89	20.00
1344		3326	0.00	56.79	1,126.19	5.04	27.63	5.73	20.00
1345		3340	0.00	56.78	1,126.26	5.04	36.34	6.99	20.00
1346		3344	0.00	61.17	1,126.18	5.04	59.34	27.35	20.00
1347		3346	0.00	56.98	1,126.27	5.04	55.09	25.81	20.00
1348		3362	0.00	64.66	1,127.61	5.04	13.61	4.67	20.00
1349		3364	0.00	64.38	1,127.63	5.04	10.90	4.54	20.00
1350		3368	0.00	64.83	1,127.61	5.04	-573.03	1.19	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1351	338	0.02	73.57	1,127.08	5.04	67.88	19.68	20.00
1352	3380	0.00	61.66	1,129.95	5.04	36.94	6.78	20.00
1353	340	0.00	73.94	1,127.27	5.04	67.62	18.43	20.00
1354	3482	0.00	64.21	1,127.65	5.04	9.14	4.46	20.00
1355	3502	0.00	64.28	1,127.57	5.04	-40.08	3.13	20.00
1356	3506	0.00	64.51	1,127.57	5.04	19.34	5.00	20.00
1357	3508	0.00	63.52	1,127.53	5.04	-21.94	3.46	20.00
1358	3516	0.19	64.45	1,127.53	5.04	26.90	5.74	20.00
1359	3566	0.00	85.26	1,115.89	5.04	64.37	12.16	20.00
1360	3628	0.02	80.93	1,173.11	5.04	-155.48	2.29	20.00
1361	3634	0.01	63.31	1,129.91	5.04	54.80	13.46	20.00
1362	3636	0.00	63.31	1,129.91	5.04	54.80	13.45	20.00
1363	3646	0.00	53.01	1,127.34	5.04	28.11	5.91	20.00
1364	3664	0.02	67.14	1,089.95	5.04	-127.80	2.53	20.00
1365	3680	0.00	62.84	1,090.04	5.04	-88.65	2.85	20.00
1366	374	0.00	60.30	1,129.35	5.04	40.82	7.60	20.00
1367	3760	0.03	64.33	1,173.46	5.04	-219.92	1.75	20.00
1368	3782	0.02	65.65	1,173.56	5.04	-24.45	3.31	20.00
1369	3784	0.02	74.18	1,172.12	5.04	12.04	4.62	20.00
1370	38	0.00	61.18	1,126.18	5.04	41.22	7.55	20.00
1371	3816	0.00	71.09	1,171.22	5.04	-37.08	3.09	20.00
1372	382	0.00	60.33	1,129.35	5.04	40.44	7.51	20.00
1373	3830	0.00	73.02	1,171.14	5.04	-190.23	1.96	20.00
1374	3834	0.00	70.57	1,171.14	5.04	-203.16	1.87	20.00
1375	3838	0.00	80.62	1,171.16	5.04	-205.98	2.03	20.00
1376	3842	0.00	73.43	1,171.19	5.04	-177.98	2.02	20.00
1377	3854	0.03	62.42	1,089.91	5.04	-37.98	3.57	20.00
1378	3856	0.02	61.43	1,089.84	5.04	-198.48	2.01	20.00
1379	3870	0.05	97.62	1,170.85	5.04	0.06	4.42	20.00
1380	3886	0.00	82.43	1,171.17	5.04	-175.84	2.19	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1381	3896	0.02	84.41	1,171.45	5.04	8.38	4.55	20.00
1382	3916	0.00	77.33	1,173.47	5.04	-133.89	2.36	20.00
1383	3926	0.03	62.79	1,089.91	5.04	-43.03	3.48	20.00
1384	3944	0.03	79.94	1,171.77	5.04	5.46	4.42	20.00
1385	4006	0.02	60.95	1,173.05	5.04	-12.55	3.45	20.00
1386	402	0.00	58.21	1,129.35	5.04	46.24	9.81	20.00
1387	4036	0.00	60.75	1,090.21	5.04	26.79	5.35	20.00
1388	4056	0.02	86.05	1,171.43	5.04	-31.66	3.55	20.00
1389	406	0.00	58.21	1,129.35	5.04	48.06	10.84	20.00
1390	4076	0.02	73.90	1,173.40	5.04	-0.79	4.10	20.00
1391	410	0.00	58.21	1,129.34	5.04	48.15	10.91	20.00
1392	4116	0.00	62.94	1,090.04	5.04	-184.20	2.13	20.00
1393	412	0.00	58.21	1,129.35	5.04	45.98	9.69	20.00
1394	4138	0.00	66.01	1,090.14	5.04	30.28	5.50	20.00
1395	4142	0.00	63.14	1,173.14	5.04	1.19	3.96	20.00
1396	4182	0.00	63.68	1,173.31	5.04	10.86	4.43	20.00
1397	42	0.00	61.62	1,129.69	5.04	-50.41	2.89	20.00
1398	4212	0.02	64.26	1,173.30	5.04	-6.28	3.74	20.00
1399	4218	0.02	60.51	1,173.30	5.04	-18.14	3.32	20.00
1400	422	0.00	61.49	1,129.35	5.04	16.55	4.82	20.00
1401	4258	0.00	65.00	1,173.31	5.04	12.18	4.52	20.00
1402	4262	0.00	81.25	1,173.11	5.04	-168.83	2.21	20.00
1403	4264	0.00	81.33	1,173.11	5.04	-177.86	2.17	20.00
1404	4268	0.00	77.22	1,173.11	5.04	-259.71	1.81	20.00
1405	4274	0.00	80.81	1,173.37	5.04	-38.05	3.35	20.00
1406	4278	0.00	74.18	1,173.46	5.04	-18.53	3.61	20.00
1407	4284	0.00	83.28	1,173.37	5.04	-134.73	2.46	20.00
1408	4288	0.02	83.47	1,173.37	5.04	-4.96	4.11	20.00
1409	4294	0.00	81.71	1,173.06	5.04	-175.74	2.18	20.00
1410	4298	0.02	81.44	1,172.96	5.04	-291.03	1.79	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1411		430	0.00	60.45	1,129.35	5.04	39.67	7.34	20.00
1412		4306	0.02	89.39	1,171.13	5.04	-170.85	2.33	20.00
1413		4316	0.00	97.21	1,171.17	5.04	-15.19	4.01	20.00
1414		4326	0.00	97.98	1,171.13	5.04	-103.74	2.86	20.00
1415		4342	0.02	97.98	1,171.13	5.04	-27.02	3.81	20.00
1416		4368	0.02	73.86	1,173.37	5.04	-15.96	3.67	20.00
1417		4372	0.00	77.28	1,173.35	5.04	-30.17	3.43	20.00
1418		4376	0.00	78.63	1,173.35	5.04	-17.24	3.71	20.00
1419		4424	0.02	72.89	1,173.23	5.04	-57.88	2.93	20.00
1420		4438	0.02	71.00	1,173.27	5.04	14.23	4.71	20.00
1421		4448	0.02	62.73	1,173.06	5.04	-11.62	3.53	20.00
1422		4466	0.02	64.92	1,173.61	5.04	-12.15	3.59	20.00
1423		4480	0.03	68.73	1,173.61	5.04	-22.81	3.43	20.00
1424		4494	0.02	63.14	1,173.54	5.04	-37.27	3.01	20.00
1425		4496	0.00	61.27	1,173.54	5.04	-154.22	1.93	20.00
1426		450	0.00	58.21	1,129.35	5.04	13.41	4.61	20.00
1427		4502	0.02	63.85	1,173.66	5.04	-45.16	2.90	20.00
1428		4546	0.02	80.70	1,171.61	5.04	0.36	4.24	20.00
1429		4570	0.00	82.71	1,171.45	5.04	-260.65	1.89	20.00
1430		4576	0.02	85.74	1,171.45	5.04	-130.25	2.50	20.00
1431		4632	0.03	81.75	1,172.10	5.04	-28.87	3.53	20.00
1432		4646	0.00	73.06	1,171.24	5.04	-25.27	3.44	20.00
1433		4664	0.00	72.27	1,171.39	5.04	-143.23	2.17	20.00
1434		4692	0.02	65.93	1,173.27	5.04	-19.92	3.42	20.00
1435		4694	0.03	64.47	1,173.27	5.04	-20.50	3.38	20.00
1436		472	0.00	55.17	1,125.83	5.04	-32.35	3.07	20.00
1437		474	0.00	55.31	1,125.83	5.04	-88.95	2.34	20.00
1438		4774	0.00	79.95	1,171.11	5.04	-44.98	3.22	20.00
1439		4778	0.00	78.44	1,171.11	5.04	-104.21	2.52	20.00
1440		4798	0.00	80.81	1,171.13	5.04	-32.96	3.44	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1441		4814	0.02	62.77	1,089.87	5.04	-91.69	2.81	20.00
1442		4844	0.02	63.10	1,089.89	5.04	-66.33	3.11	20.00
1443		4882	0.02	82.66	1,171.48	5.04	-21.66	3.70	20.00
1444		4902	0.00	87.76	1,171.19	5.04	-177.95	2.26	20.00
1445		4910	0.00	85.27	1,171.19	5.04	-85.21	2.81	20.00
1446		4930	0.00	82.63	1,171.45	5.04	9.46	4.56	20.00
1447		4998	0.02	71.53	1,173.56	5.04	-24.52	3.44	20.00
1448		5016	0.02	59.43	1,089.91	5.04	-37.13	3.51	20.00
1449		5028	0.00	78.84	1,173.37	5.04	-99.82	2.62	20.00
1450		5042	0.00	73.43	1,173.51	5.04	-1.58	4.06	20.00
1451		5056	0.08	77.17	1,172.81	5.04	-329.09	1.69	20.00
1452		5070	0.02	75.22	1,173.38	5.04	-97.90	2.58	20.00
1453		5074	0.00	74.84	1,173.39	5.04	-7.66	3.89	20.00
1454		5078	0.02	75.03	1,173.40	5.04	-24.67	3.50	20.00
1455		510	0.00	55.78	1,125.89	5.04	31.16	6.20	20.00
1456		5104	0.02	71.54	1,090.04	5.04	-30.38	3.84	20.00
1457		5128	0.02	70.90	1,173.64	5.04	-18.98	3.55	20.00
1458		5158	0.00	68.10	1,089.99	5.04	-77.70	3.06	20.00
1459		5202	0.00	70.84	1,128.49	5.04	31.42	5.86	20.00
1460		5210	0.00	75.29	1,128.49	5.04	46.96	7.55	20.00
1461		5224	0.00	72.22	1,125.93	5.04	52.89	9.71	20.00
1462		5228	0.00	71.93	1,125.93	5.04	38.74	6.61	20.00
1463		5232	0.00	73.63	1,124.84	5.04	57.04	11.49	20.00
1464		5250	0.00	53.29	1,127.98	5.04	-126.68	2.87	20.00
1465		5252	0.00	61.95	1,127.98	5.04	-119.89	3.02	20.00
1466		5254	0.00	57.60	1,127.98	5.04	-115.33	3.00	20.00
1467		5258	0.00	57.40	1,127.98	5.04	-117.81	2.98	20.00
1468		5270	0.00	103.94	1,230.29	5.04	-101.98	3.13	20.00
1469		5278	0.00	72.77	1,173.28	5.04	24.23	5.33	20.00
1470		5282	0.00	74.27	1,173.28	5.04	-36.07	3.28	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1471	5328	0.00	74.52	1,126.99	5.04	39.76	6.48	20.00
1472	5330	0.00	70.49	1,126.99	5.04	62.54	15.35	20.00
1473	5360	0.00	69.90	1,126.99	5.04	-24.21	3.56	20.00
1474	5362	0.00	70.46	1,126.99	5.04	-34.00	3.38	20.00
1475	538	0.00	55.51	1,125.81	5.04	46.28	10.91	20.00
1476	5386	0.00	70.76	1,126.99	5.04	25.74	5.39	20.00
1477	5402	0.00	70.70	1,126.99	5.04	51.30	8.70	20.00
1478	5416	0.00	71.18	1,173.28	5.04	-35.48	3.22	20.00
1479	5434	0.00	81.58	1,173.28	5.04	-40.22	3.35	20.00
1480	5442	0.00	79.55	1,173.28	5.04	-40.94	3.30	20.00
1481	5448	0.00	78.25	1,173.28	5.04	-15.19	3.77	20.00
1482	5474	0.00	81.58	1,173.28	5.04	-20.32	3.71	20.00
1483	5480	0.00	82.02	1,173.28	5.04	-26.38	3.59	20.00
1484	550	0.02	60.76	1,126.30	5.04	35.17	6.56	20.00
1485	5576	0.00	73.33	1,173.28	5.04	-74.49	2.76	20.00
1486	5594	0.00	73.17	1,173.28	5.04	-135.87	2.28	20.00
1487	5614	0.00	73.10	1,173.28	5.04	-56.34	2.96	20.00
1488	5620	0.00	72.92	1,173.28	5.04	-58.56	2.93	20.00
1489	5622	0.00	73.71	1,173.28	5.04	-44.15	3.14	20.00
1490	5640	0.00	67.98	1,173.28	5.04	-78.28	2.60	20.00
1491	5642	0.00	72.92	1,173.28	5.04	-90.14	2.60	20.00
1492	5660	0.00	72.33	1,173.28	5.04	-63.77	2.85	20.00
1493	5666	0.00	73.39	1,173.28	5.04	-102.98	2.50	20.00
1494	5684	0.00	63.76	1,173.28	5.04	-66.34	2.62	20.00
1495	5722	0.00	87.04	1,115.89	5.04	44.26	6.84	20.00
1496	5732	0.00	85.20	1,115.89	5.04	63.39	11.74	20.00
1497	5734	0.00	77.48	1,173.28	5.04	-58.11	3.02	20.00
1498	5736	0.00	83.30	1,173.28	5.04	-48.97	3.25	20.00
1499	574	0.00	62.20	1,126.30	5.04	-92.78	2.48	20.00
1500	5750	0.00	77.10	1,173.28	5.04	-38.32	3.30	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1501		5786	0.02	74.98	1,126.97	5.04	-27.26	3.60	20.00
1502		58	0.00	79.63	1,173.28	5.04	-14.15	3.81	20.00
1503		580	0.00	72.17	1,173.28	5.04	-20.45	3.53	20.00
1504		5824	0.00	74.43	1,126.97	5.04	14.92	4.80	20.00
1505		5826	0.00	74.38	1,126.97	5.04	12.41	4.69	20.00
1506		5828	0.00	74.14	1,126.97	5.04	9.04	4.55	20.00
1507		5838	0.00	55.92	1,127.29	5.04	31.49	6.26	20.00
1508		5846	0.00	56.09	1,127.29	5.04	50.57	15.35	20.00
1509		5848	0.00	53.01	1,127.34	5.04	48.34	16.11	20.00
1510		5858	0.00	50.48	1,173.32	5.04	-366.44	1.14	20.00
1511		5876	0.00	52.27	1,173.32	5.04	-39.96	2.61	20.00
1512		5880	0.00	55.99	1,173.32	5.04	-81.69	2.25	20.00
1513		5882	0.00	49.67	1,173.32	5.04	-104.38	1.88	20.00
1514		5888	0.00	51.63	1,173.32	5.04	-78.08	2.14	20.00
1515		5908	0.00	55.60	1,173.32	5.04	-689.33	0.93	20.00
1516		5920	0.00	71.13	1,129.17	5.04	5.50	4.38	20.00
1517		5922	0.00	72.76	1,129.45	5.04	22.07	5.15	20.00
1518		5926	0.03	66.06	1,129.81	5.04	-3.01	4.04	20.00
1519		5938	0.00	75.87	1,126.89	5.04	71.55	23.78	20.00
1520		5962	0.00	70.75	1,126.89	5.04	64.53	17.72	20.00
1521		5964	0.00	70.78	1,126.88	5.04	66.41	22.42	20.00
1522		598	0.00	72.50	1,173.28	5.04	-90.73	2.59	20.00
1523		5980	0.00	54.24	1,090.02	5.04	2.22	4.36	20.00
1524		6004	0.00	77.84	1,126.97	5.04	73.11	23.01	20.00
1525		6026	0.00	79.91	1,130.29	5.04	-13.68	3.92	20.00
1526		6028	0.00	71.62	1,130.29	5.04	-116.04	2.45	20.00
1527		6030	0.00	79.81	1,130.29	5.04	-48.94	3.28	20.00
1528		6032	0.00	79.69	1,130.29	5.04	-35.95	3.48	20.00
1529		6046	0.00	96.67	1,230.30	5.04	-87.80	3.17	20.00
1530		6052	0.00	88.01	1,230.30	5.04	-87.30	3.06	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1531	6072	0.00	85.72	1,172.92	5.04	28.12	5.49	20.00
1532	6100	0.00	58.69	1,173.33	5.04	0.48	3.84	20.00
1533	6112	0.00	73.79	1,173.28	5.04	26.90	5.53	20.00
1534	6116	0.00	57.11	1,173.33	5.04	-1.58	3.71	20.00
1535	612	0.00	76.33	1,173.28	5.04	-43.08	3.21	20.00
1536	6120	0.00	90.53	1,126.70	5.04	65.10	9.07	20.00
1537	6124	0.00	90.71	1,126.73	5.04	60.77	8.23	20.00
1538	6130	0.03	92.08	1,128.51	5.04	75.92	11.85	20.00
1539	6138	0.00	92.59	1,128.13	5.04	-25.57	3.86	20.00
1540	6140	0.00	91.76	1,127.73	5.04	54.35	7.25	20.00
1541	6142	0.01	91.87	1,127.73	5.04	50.94	6.91	20.00
1542	6154	0.00	62.39	1,129.99	5.04	-7.42	3.82	20.00
1543	6176	0.06	58.44	1,129.87	5.04	23.11	5.35	20.00
1544	6222	0.00	79.57	1,124.26	5.04	0.41	4.28	20.00
1545	6236	0.00	73.62	1,173.28	5.04	25.30	5.41	20.00
1546	6238	0.00	73.35	1,173.28	5.04	25.10	5.39	20.00
1547	6284	0.00	81.56	1,173.35	5.04	32.67	5.88	20.00
1548	6286	0.00	61.55	1,126.31	5.04	33.32	6.26	20.00
1549	6292	0.00	61.74	1,126.31	5.04	7.52	4.36	20.00
1550	6308	0.00	61.44	1,126.31	5.04	33.60	6.30	20.00
1551	6322	0.00	62.56	1,126.34	5.04	51.18	10.83	20.00
1552	6338	0.00	61.93	1,126.34	5.04	14.70	4.72	20.00
1553	634	0.00	78.52	1,173.28	5.04	-45.81	3.21	20.00
1554	6348	0.00	62.41	1,126.34	5.04	57.74	18.67	20.00
1555	6350	0.00	62.59	1,126.35	5.04	57.91	18.71	20.00
1556	6362	0.00	77.21	1,126.84	5.04	-153.81	2.34	20.00
1557	6388	0.02	75.72	1,126.84	5.04	-135.40	2.44	20.00
1558	6390	0.00	74.76	1,126.84	5.04	-306.46	1.74	20.00
1559	6392	0.00	74.54	1,126.88	5.04	-36.69	3.40	20.00
1560	6394	0.00	76.50	1,126.83	5.04	-134.00	2.44	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1561	64	0.00	58.21	1,129.35	5.04	36.05	6.85	20.00
1562	6400	0.02	75.59	1,126.83	5.04	-109.04	2.61	20.00
1563	6406	0.00	76.58	1,126.83	5.04	-133.99	2.44	20.00
1564	6408	0.02	75.50	1,126.83	5.04	-125.99	2.49	20.00
1565	6414	0.02	78.79	1,126.83	5.04	-88.32	2.85	20.00
1566	6420	0.00	74.03	1,126.88	5.04	-2.33	4.16	20.00
1567	6436	0.00	74.49	1,126.88	5.04	-33.14	3.46	20.00
1568	6456	0.00	72.00	1,126.91	5.04	49.68	8.14	20.00
1569	6460	0.00	61.23	1,126.31	5.04	39.33	7.24	20.00
1570	6474	0.00	70.34	1,136.26	5.04	64.68	25.05	20.00
1571	6488	0.00	68.97	1,129.82	5.04	20.61	5.08	20.00
1572	6494	0.00	68.43	1,129.82	5.04	32.45	5.97	20.00
1573	650	0.00	75.88	1,173.28	5.04	-77.81	2.77	20.00
1574	6518	0.00	56.81	1,126.12	5.04	-24.09	3.28	20.00
1575	6538	0.00	65.88	1,173.27	5.04	-37.57	3.06	20.00
1576	6556	0.00	68.58	1,173.27	5.04	-34.26	3.18	20.00
1577	6568	0.00	67.09	1,173.26	5.04	10.48	4.45	20.00
1578	6570	0.00	67.04	1,173.25	5.04	9.57	4.40	20.00
1579	6572	0.00	67.23	1,173.29	5.04	21.15	5.13	20.00
1580	6574	0.11	65.37	1,173.29	5.04	19.45	5.11	20.00
1581	6596	0.00	55.17	1,173.32	5.04	-16.89	3.17	20.00
1582	66	0.02	67.06	1,126.71	5.04	-127.15	2.32	20.00
1583	6600	0.00	55.27	1,173.32	5.04	-82.82	2.22	20.00
1584	6604	0.00	55.06	1,173.32	5.04	-18.13	3.13	20.00
1585	6608	0.00	55.14	1,173.32	5.04	-82.22	2.22	20.00
1586	6642	0.00	55.10	1,173.33	5.04	-28.46	2.91	20.00
1587	6652	0.00	54.40	1,173.33	5.04	-30.89	2.84	20.00
1588	6654	0.00	54.75	1,173.33	5.04	-24.73	2.97	20.00
1589	6658	0.00	55.23	1,173.33	5.04	-58.73	2.46	20.00
1590	6670	0.00	56.59	1,173.33	5.04	9.50	4.22	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1591	6682	0.00	56.76	1,173.33	1,500.00	-1,604,221.25	4.26	20.00
1592	6686	0.00	75.06	1,127.87	5.04	59.01	10.40	20.00
1593	6692	0.00	62.05	1,129.93	5.04	52.47	12.20	20.00
1594	6698	0.01	63.20	1,129.93	5.04	54.68	13.44	20.00
1595	6704	0.00	64.09	1,173.31	5.04	19.54	5.00	20.00
1596	6720	0.00	61.17	1,129.28	5.04	57.96	23.21	20.00
1597	6728	0.00	66.05	1,129.86	5.04	-17.03	3.62	20.00
1598	6730	0.00	56.64	1,125.72	5.04	55.21	26.77	20.00
1599	6740	0.00	63.81	1,129.65	5.04	18.61	4.95	20.00
1600	6742	0.02	58.34	1,129.65	5.04	-10.31	3.63	20.00
1601	6746	0.00	74.49	1,126.91	5.04	62.08	11.90	20.00
1602	6748	0.02	74.72	1,126.90	5.04	55.89	9.28	20.00
1603	676	0.00	75.38	1,173.28	5.04	-75.96	2.78	20.00
1604	6762	0.00	61.09	1,129.63	5.04	38.71	7.12	20.00
1605	678	0.00	73.53	1,173.28	5.04	-129.57	2.32	20.00
1606	6784	0.00	82.93	1,173.06	5.04	29.05	5.58	20.00
1607	6824	0.06	82.88	1,173.03	5.04	28.26	5.59	20.00
1608	6846	0.02	70.09	1,089.96	5.04	-117.77	2.69	20.00
1609	6850	0.02	70.23	1,089.91	5.04	-102.95	2.82	20.00
1610	6854	0.00	69.55	1,129.97	5.04	-734.03	1.11	20.00
1611	6858	0.00	69.81	1,129.97	5.04	57.96	11.86	20.00
1612	6862	0.00	61.56	1,129.86	5.04	26.68	5.58	20.00
1613	6886	0.00	58.58	1,130.18	5.04	37.56	7.15	20.00
1614	6914	0.00	58.60	1,130.24	5.04	45.23	9.36	20.00
1615	6920	0.00	58.60	1,130.24	5.04	43.81	8.80	20.00
1616	6924	0.00	63.63	1,130.26	5.04	53.00	11.57	20.00
1617	6930	0.00	63.09	1,130.27	5.04	53.43	12.21	20.00
1618	6956	0.02	61.53	1,130.06	5.04	30.92	6.02	20.00
1619	698	0.00	62.46	1,090.20	5.04	-28.08	3.77	20.00
1620	6980	0.00	74.49	1,126.90	5.04	-79.90	2.85	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1621	70	0.02	67.36	1,126.71	5.04	-31.78	3.35	20.00
1622	7032	0.00	69.67	1,126.90	5.04	11.48	4.62	20.00
1623	7048	0.00	74.49	1,126.91	5.04	59.47	10.57	20.00
1624	7056	0.00	71.96	1,126.91	5.04	57.11	10.36	20.00
1625	7070	0.00	74.07	1,126.91	5.04	46.11	7.30	20.00
1626	7074	0.00	75.21	1,128.57	5.04	69.32	19.80	20.00
1627	708	0.00	62.03	1,090.20	5.04	-61.43	3.15	20.00
1628	7090	0.00	91.87	1,128.34	5.04	-28.59	3.80	20.00
1629	7092	0.00	91.45	1,128.46	5.04	32.25	5.59	20.00
1630	7102	0.00	92.10	1,128.32	5.04	-34.52	3.70	20.00
1631	7134	0.18	92.70	1,127.78	5.04	47.18	6.75	20.00
1632	7136	0.00	92.70	1,127.84	5.04	58.63	7.76	20.00
1633	7138	0.00	92.68	1,127.84	5.04	58.58	7.76	20.00
1634	7140	0.00	74.44	1,173.36	5.04	-119.63	2.40	20.00
1635	7148	0.00	71.86	1,173.36	5.04	-22.79	3.46	20.00
1636	7152	0.00	83.95	1,172.91	5.04	25.44	5.34	20.00
1637	7154	0.00	83.91	1,172.92	5.04	25.66	5.35	20.00
1638	7156	0.00	87.65	1,230.30	5.04	16.32	4.91	20.00
1639	7158	0.00	88.78	1,230.30	5.04	20.86	5.07	20.00
1640	7164	0.00	62.36	1,177.09	5.04	-26.57	3.23	20.00
1641	7166	0.00	65.55	1,177.09	5.04	31.97	6.20	20.00
1642	7180	0.00	72.53	1,173.32	5.04	-54.54	2.97	20.00
1643	7198	0.01	72.93	1,173.32	5.04	28.90	5.73	20.00
1644	7204	0.00	72.73	1,173.33	5.04	28.96	5.73	20.00
1645	7206	0.00	82.67	1,173.35	5.04	9.48	4.57	20.00
1646	7220	0.00	81.12	1,173.37	5.04	32.45	5.87	20.00
1647	7224	0.00	71.62	1,130.29	5.04	-119.73	2.43	20.00
1648	7232	0.00	80.29	1,130.29	5.04	53.45	8.19	20.00
1649	7234	0.00	80.29	1,130.29	5.04	39.54	6.33	20.00
1650	7238	0.00	71.62	1,130.29	5.04	-254.53	1.81	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1651	7258	0.00	90.55	1,126.70	5.04	64.66	8.98	20.00
1652	7260	0.00	89.61	1,126.68	5.04	68.48	10.11	20.00
1653	7292	0.00	88.89	1,126.69	5.04	43.56	6.38	20.00
1654	7322	0.00	58.35	1,129.67	5.04	51.17	13.92	20.00
1655	7324	0.00	58.38	1,129.73	5.04	50.81	13.48	20.00
1656	7366	0.00	58.33	1,129.63	5.04	17.47	4.86	20.00
1657	7370	0.00	58.33	1,129.63	5.04	41.49	8.08	20.00
1658	7372	0.00	58.33	1,129.63	5.04	51.45	14.31	20.00
1659	7380	0.00	70.97	1,134.04	5.04	-83.44	2.71	20.00
1660	7382	0.00	70.98	1,134.04	5.04	-60.14	2.96	20.00
1661	7384	0.00	70.33	1,134.04	5.04	-1,331.98	0.82	20.00
1662	7386	0.00	71.04	1,134.04	5.04	61.24	15.39	20.00
1663	7410	0.00	58.49	1,129.99	5.04	-5.01	3.81	20.00
1664	7412	0.01	58.49	1,129.99	5.04	8.53	4.37	20.00
1665	7424	0.00	58.49	1,129.99	5.04	25.59	5.51	20.00
1666	7426	0.03	58.49	1,129.99	5.04	49.60	12.21	20.00
1667	7442	0.01	66.94	1,129.91	5.04	-357.31	1.52	20.00
1668	7462	0.00	62.79	1,129.92	5.04	-155.48	2.05	20.00
1669	7466	0.00	62.80	1,129.93	5.04	-152.16	2.07	20.00
1670	7470	0.00	67.03	1,129.69	5.04	10.71	4.55	20.00
1671	7480	0.02	55.02	1,125.54	5.04	47.40	12.94	20.00
1672	7496	0.03	54.50	1,125.55	5.04	48.93	15.21	20.00
1673	7524	0.00	51.88	1,126.27	5.04	4.97	4.07	20.00
1674	7528	0.00	51.80	1,126.25	5.04	41.43	9.70	20.00
1675	7538	0.01	52.87	1,126.46	5.04	42.43	9.88	20.00
1676	7552	0.00	52.68	1,126.38	5.04	5.67	4.12	20.00
1677	756	0.00	88.08	1,173.28	5.04	-33.96	3.55	20.00
1678	7568	0.00	51.51	1,126.23	5.04	5.03	4.06	20.00
1679	7576	0.00	52.00	1,126.24	5.04	-32.00	2.97	20.00
1680	7588	0.00	51.73	1,126.20	5.04	-69.70	2.42	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1681		7594	0.00	51.19	1,126.18	5.04	-70.92	2.39	20.00
1682		7598	0.00	51.43	1,126.19	5.04	-79.48	2.31	20.00
1683		76	0.00	58.22	1,127.46	5.04	39.99	7.65	20.00
1684		7600	0.00	50.97	1,126.16	5.04	-26.11	3.05	20.00
1685		7614	0.01	51.57	1,126.20	5.04	-116.32	2.03	20.00
1686		7616	0.00	48.18	1,126.19	5.04	38.35	9.35	20.00
1687		7650	0.00	54.91	1,125.54	5.04	44.48	10.40	20.00
1688		7666	0.14	53.82	1,125.51	5.04	35.03	7.23	20.00
1689		7698	0.00	48.18	1,126.19	5.04	-188.31	1.58	20.00
1690		7738	0.00	62.52	1,129.92	5.04	53.51	12.86	20.00
1691		7740	0.00	63.20	1,129.93	5.04	54.61	13.36	20.00
1692		7742	0.00	63.16	1,129.92	5.04	34.85	6.40	20.00
1693		7746	0.00	63.21	1,129.92	5.04	42.66	7.71	20.00
1694		7748	0.00	63.12	1,129.92	5.04	36.49	6.63	20.00
1695		7752	0.00	62.48	1,129.90	5.04	-9.13	3.77	20.00
1696		7754	0.03	62.93	1,129.88	5.04	54.49	13.47	20.00
1697		7768	0.00	48.27	1,126.41	5.04	37.65	8.95	20.00
1698		7796	0.00	62.97	1,129.92	5.04	-64.68	2.76	20.00
1699		7804	0.00	62.48	1,129.91	5.04	-11.27	3.71	20.00
1700		7812	0.00	62.69	1,129.89	5.04	13.91	4.68	20.00
1701		7822	0.00	59.86	1,129.59	5.04	-37.08	3.09	20.00
1702		7830	0.00	61.22	1,129.59	5.04	21.29	5.13	20.00
1703		7832	0.00	62.65	1,129.59	5.04	22.55	5.22	20.00
1704		7838	0.00	60.42	1,129.59	5.04	-12.65	3.63	20.00
1705		7858	0.00	62.65	1,129.59	5.04	31.96	6.05	20.00
1706		7860	0.00	62.65	1,129.59	5.04	25.59	5.45	20.00
1707		7862	0.00	59.17	1,129.59	5.04	31.48	6.11	20.00
1708		7864	0.00	59.36	1,129.59	5.04	-28.94	3.23	20.00
1709		7870	0.00	58.52	1,129.59	5.04	38.96	7.35	20.00
1710		788	0.00	75.31	1,173.28	5.04	-40.10	3.23	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1711		7908	0.01	58.03	1,127.31	5.04	55.73	24.95	20.00
1712		7918	0.00	57.67	1,127.32	5.04	40.66	7.89	20.00
1713		7966	0.00	61.70	1,127.39	5.04	-177.21	1.94	20.00
1714		7970	0.00	61.70	1,127.39	5.04	46.09	8.81	20.00
1715		7988	0.03	57.43	1,127.37	5.04	19.47	5.03	20.00
1716		7990	0.00	61.69	1,127.38	5.04	38.98	7.09	20.00
1717		8016	0.03	57.76	1,127.41	5.04	54.38	20.37	20.00
1718		8022	0.00	57.82	1,128.44	5.04	2.01	4.06	20.00
1719		8038	0.00	57.82	1,128.44	5.04	-26.07	3.24	20.00
1720		8064	0.00	61.79	1,128.51	5.04	-45.56	2.99	20.00
1721		8072	0.01	62.02	1,128.51	5.04	13.71	4.68	20.00
1722		8082	0.00	62.31	1,128.53	5.04	59.44	24.31	20.00
1723		8084	0.00	62.18	1,128.60	5.04	59.27	24.19	20.00
1724		8098	0.00	66.48	1,128.43	5.04	63.65	25.67	20.00
1725		8102	0.00	61.36	1,129.86	5.04	11.21	4.51	20.00
1726		8104	0.00	58.44	1,129.86	5.04	-14.40	3.51	20.00
1727		8110	0.03	61.22	1,129.73	5.04	-882.80	0.92	20.00
1728		8114	0.00	59.93	1,129.39	5.04	-14.82	3.56	20.00
1729		8122	0.00	58.23	1,129.39	5.04	-35.10	3.07	20.00
1730		8132	0.00	60.48	1,129.39	5.04	29.16	5.82	20.00
1731		8136	0.00	60.40	1,129.39	5.04	26.62	5.57	20.00
1732		8150	0.00	58.23	1,129.39	5.04	36.05	6.84	20.00
1733		8158	0.00	58.23	1,129.39	5.04	52.34	15.27	20.00
1734		8162	0.00	62.91	1,129.58	5.04	-20.79	3.43	20.00
1735		8166	0.01	62.84	1,129.55	5.04	-675.38	1.07	20.00
1736		8184	0.00	71.62	1,130.29	5.04	-76.38	2.79	20.00
1737		8212	0.00	63.44	1,129.58	5.04	-67.59	2.70	20.00
1738		8218	0.00	63.63	1,129.58	5.04	-36.56	3.14	20.00
1739		8232	0.00	77.51	1,124.01	5.04	60.49	12.13	20.00
1740		8240	0.00	62.18	1,128.50	5.04	-2.83	3.97	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1741	8268	0.00	54.42	1,130.60	5.04	23.62	5.35	20.00
1742	8272	0.02	60.77	1,126.13	5.04	-4.77	3.89	20.00
1743	8274	0.00	53.16	1,126.12	5.04	11.66	4.45	20.00
1744	828	0.00	68.42	1,173.28	5.04	-52.01	2.91	20.00
1745	8282	0.02	50.50	1,125.98	5.04	-4.98	3.63	20.00
1746	8284	0.00	63.26	1,131.00	5.04	-28.91	3.33	20.00
1747	8286	0.00	63.28	1,131.04	5.04	-26.74	3.38	20.00
1748	8288	0.00	69.13	1,124.55	5.04	52.57	11.03	20.00
1749	8290	0.00	69.13	1,124.55	5.04	52.54	11.01	20.00
1750	8292	0.00	83.10	1,101.11	5.04	58.54	9.03	20.00
1751	8296	0.00	67.05	1,129.75	5.04	30.83	5.86	20.00
1752	8298	0.00	63.13	1,129.58	5.04	-92.97	2.45	20.00
1753	830	0.00	67.03	1,173.28	5.04	-93.04	2.45	20.00
1754	8312	0.00	63.20	1,129.58	5.04	-128.24	2.19	20.00
1755	8314	0.00	71.38	1,101.11	5.04	-55.36	2.90	20.00
1756	8350	0.00	68.79	1,089.99	5.04	-117.27	2.65	20.00
1757	8354	0.00	69.43	1,089.99	5.04	-150.82	2.40	20.00
1758	836	0.00	67.83	1,173.28	5.04	-53.50	2.87	20.00
1759	8362	0.00	67.19	1,089.99	5.04	-45.48	3.51	20.00
1760	8398	0.00	61.78	1,129.93	5.04	40.03	7.32	20.00
1761	8402	0.00	63.85	1,129.93	5.04	-30.68	3.29	20.00
1762	8428	0.00	61.02	1,129.93	5.04	-42.21	3.02	20.00
1763	8432	0.00	61.02	1,129.93	5.04	-125.11	2.20	20.00
1764	8452	0.00	67.13	1,129.93	5.04	50.05	9.04	20.00
1765	8472	0.00	96.56	1,127.84	5.04	41.06	6.03	20.00
1766	8478	0.00	92.16	1,127.84	5.04	42.53	6.22	20.00
1767	8488	0.00	93.98	1,127.84	5.04	21.91	5.11	20.00
1768	8500	0.00	93.51	1,127.84	5.04	18.49	4.98	20.00
1769	8516	0.00	95.14	1,127.84	5.04	29.90	5.45	20.00
1770	8518	0.00	95.01	1,127.84	5.04	30.72	5.49	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1771		8524	0.00	94.71	1,127.84	5.04	33.54	5.64	20.00
1772		8526	0.00	94.57	1,127.84	5.04	32.11	5.56	20.00
1773		8528	0.00	94.59	1,127.84	5.04	35.22	5.73	20.00
1774		8530	0.00	94.41	1,127.84	5.04	33.76	5.65	20.00
1775		8536	0.00	94.35	1,127.84	5.04	38.88	5.94	20.00
1776		8538	0.00	96.56	1,127.84	5.04	39.80	5.96	20.00
1777		8546	0.00	94.14	1,127.84	5.04	44.11	6.29	20.00
1778		8552	0.00	93.03	1,127.84	5.04	49.10	6.71	20.00
1779		8556	0.00	92.99	1,127.84	5.04	48.81	6.69	20.00
1780		8558	0.00	93.03	1,127.84	5.04	47.83	6.60	20.00
1781		8564	0.00	92.71	1,127.84	5.04	52.28	7.02	20.00
1782		8588	0.00	71.45	1,129.90	5.04	-146.90	2.27	20.00
1783		8606	0.00	62.18	1,128.50	5.04	-60.02	2.81	20.00
1784		8608	0.00	62.18	1,128.50	5.04	8.37	4.40	20.00
1785		8612	0.00	66.01	1,128.50	5.04	-13.37	3.73	20.00
1786		8616	0.00	65.74	1,128.50	5.04	37.66	6.63	20.00
1787		8632	0.01	61.77	1,130.03	5.04	47.79	9.58	20.00
1788		8666	0.00	61.70	1,130.05	5.04	50.15	10.74	20.00
1789		8672	0.00	71.19	1,128.48	5.04	9.02	4.53	20.00
1790		868	0.00	62.89	1,173.28	5.04	-67.33	2.58	20.00
1791		8682	0.02	70.84	1,128.48	5.04	51.30	8.71	20.00
1792		8690	0.00	72.01	1,128.36	5.04	-3.28	4.11	20.00
1793		8706	0.00	70.78	1,128.36	5.04	39.11	6.57	20.00
1794		8714	0.00	74.68	1,127.88	5.04	52.24	8.41	20.00
1795		8718	0.00	73.19	1,127.90	5.04	47.29	7.59	20.00
1796		8750	0.00	70.57	1,127.87	5.04	40.14	6.72	20.00
1797		8762	0.00	74.69	1,127.88	5.04	27.70	5.49	20.00
1798		8768	0.00	79.12	1,123.33	5.04	-4.51	4.10	20.00
1799		878	0.00	70.57	1,173.28	5.04	-108.99	2.40	20.00
1800		8780	0.00	77.82	1,123.33	5.04	29.00	5.59	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1801	8792	0.00	66.58	1,131.00	5.04	-78.91	2.71	20.00
1802	8822	0.00	80.94	1,124.26	5.04	18.32	4.96	20.00
1803	8842	0.00	79.37	1,124.26	5.04	51.88	8.25	20.00
1804	8844	0.00	79.53	1,124.26	5.04	58.09	9.96	20.00
1805	8846	0.00	82.01	1,124.26	5.04	60.53	10.20	20.00
1806	8862	0.00	88.22	1,127.66	5.04	76.11	13.98	20.00
1807	8876	0.00	89.89	1,127.73	5.04	77.50	13.93	20.00
1808	8878	0.00	93.32	1,127.97	5.04	80.05	13.60	20.00
1809	888	0.00	66.42	1,173.28	5.04	-72.02	2.62	20.00
1810	8882	0.00	28.34	1,053.14	5.04	-7.83	3.82	20.00
1811	8884	0.00	27.02	1,052.77	5.04	-9.33	3.75	20.00
1812	8886	0.00	63.90	1,129.60	5.04	-5.14	3.88	20.00
1813	8890	0.00	59.04	1,173.33	5.04	14.67	4.61	20.00
1814	890	0.00	66.42	1,173.28	5.04	-104.69	2.34	20.00
1815	8914	0.00	65.02	1,173.29	5.04	19.13	4.97	20.00
1816	8934	0.00	68.83	1,127.47	5.04	31.93	5.89	20.00
1817	8938	0.00	68.36	1,127.50	5.04	60.51	14.86	20.00
1818	8942	0.00	66.21	1,127.65	5.04	-10.01	3.82	20.00
1819	8946	0.05	71.84	1,126.93	5.04	66.47	19.87	20.00
1820	8952	0.01	86.65	1,111.69	5.04	46.32	7.07	20.00
1821	896	0.00	66.93	1,173.28	5.04	-38.28	3.08	20.00
1822	8960	0.00	58.38	1,129.73	5.04	47.09	10.34	20.00
1823	8964	0.00	60.65	1,129.60	5.04	53.93	15.03	20.00
1824	8968	0.00	60.99	1,129.44	5.04	55.68	17.41	20.00
1825	8982	0.00	66.09	1,129.83	5.04	19.27	4.99	20.00
1826	8992	0.00	71.70	1,130.48	5.04	32.82	5.92	20.00
1827	8994	0.00	70.38	1,129.97	5.04	58.35	11.82	20.00
1828	8996	0.00	70.37	1,130.05	5.04	54.93	10.05	20.00
1829	900	0.00	64.75	1,173.28	5.04	-42.16	2.96	20.00
1830	9002	0.00	71.30	1,129.56	5.04	20.62	5.07	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1831		9004	0.00	72.28	1,134.03	5.04	61.31	14.07	20.00
1832		9006	0.00	70.89	1,134.03	5.04	-240.15	1.86	20.00
1833		9008	0.00	73.24	1,134.04	5.04	62.88	14.90	20.00
1834		9010	0.01	71.42	1,129.83	5.04	9.27	4.54	20.00
1835		9018	0.00	65.84	1,129.81	5.04	-16.96	3.62	20.00
1836		9020	0.00	67.28	1,128.95	5.04	-7.65	3.90	20.00
1837		9024	0.02	67.90	1,129.74	5.04	31.94	5.95	20.00
1838		9028	0.02	72.59	1,129.73	5.04	41.24	6.80	20.00
1839		9044	0.00	67.32	1,129.82	5.04	-34.20	3.29	20.00
1840		9050	0.00	67.38	1,129.82	5.04	3.72	4.27	20.00
1841		9056	0.00	67.95	1,129.82	5.04	-28.88	3.41	20.00
1842		9058	0.00	67.89	1,129.82	5.04	9.47	4.50	20.00
1843		9064	0.00	68.24	1,129.82	5.04	17.23	4.88	20.00
1844		9080	0.00	66.12	1,127.99	5.04	61.94	21.60	20.00
1845		9082	0.00	61.97	1,128.02	5.04	57.83	20.71	20.00
1846		9090	0.00	56.60	1,125.64	5.04	55.31	27.10	20.00
1847		9112	0.00	55.58	1,125.81	5.04	54.03	25.89	20.00
1848		9114	0.00	52.34	1,125.79	5.04	50.80	24.82	20.00
1849		9124	0.04	63.21	1,129.83	5.04	-25.93	3.40	20.00
1850		9126	0.00	48.15	1,126.12	5.04	38.74	9.60	20.00
1851		9132	0.00	48.15	1,126.12	5.04	34.05	7.50	20.00
1852		9134	0.02	56.80	1,126.09	5.04	36.26	7.01	20.00
1853		9148	0.00	61.81	1,129.84	5.04	53.56	13.43	20.00
1854		9150	0.00	61.77	1,129.84	5.04	53.53	13.43	20.00
1855		9160	0.00	58.47	1,129.95	5.04	48.95	11.64	20.00
1856		9162	0.00	58.47	1,129.93	5.04	44.81	9.24	20.00
1857		9164	0.00	58.46	1,129.92	5.04	37.70	7.19	20.00
1858		9184	0.00	64.07	1,173.32	5.04	19.69	5.02	20.00
1859		9190	0.00	58.34	1,173.31	5.04	13.96	4.55	20.00
1860		92	0.00	58.97	1,127.54	5.04	45.35	9.17	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1861	9214	0.02	56.38	1,173.31	5.04	-2.89	3.65	20.00
1862	922	0.00	68.39	1,173.28	5.04	-61.87	2.78	20.00
1863	9226	0.00	64.26	1,173.30	5.04	19.39	4.99	20.00
1864	9240	0.00	55.05	1,173.33	5.04	8.92	4.15	20.00
1865	9246	0.02	54.64	1,173.14	5.04	-14.19	3.22	20.00
1866	9250	0.02	58.39	1,173.18	5.04	-13.78	3.36	20.00
1867	926	0.00	70.75	1,173.28	5.04	-88.85	2.56	20.00
1868	9266	0.00	62.23	1,173.08	5.04	-9.85	3.55	20.00
1869	9274	0.02	55.52	1,173.12	5.04	-14.83	3.23	20.00
1870	9322	0.00	66.78	1,173.32	5.04	22.49	5.23	20.00
1871	9328	0.00	69.08	1,173.32	5.04	24.87	5.42	20.00
1872	9332	0.02	74.02	1,173.43	5.04	-77.89	2.74	20.00
1873	9336	0.02	73.34	1,173.46	5.04	-68.84	2.82	20.00
1874	9340	0.00	65.08	1,173.95	5.04	22.44	5.24	20.00
1875	9346	0.02	77.98	1,173.40	5.04	-64.86	2.95	20.00
1876	9350	0.02	78.60	1,173.40	5.04	-8.78	3.94	20.00
1877	9356	0.00	70.97	1,173.78	5.04	26.92	5.57	20.00
1878	936	0.00	71.50	1,173.28	5.04	-40.26	3.15	20.00
1879	9360	0.00	73.08	1,173.67	5.04	28.09	5.64	20.00
1880	9390	0.02	82.05	1,172.97	5.04	-189.68	2.13	20.00
1881	9396	0.00	81.72	1,172.95	5.04	-194.90	2.08	20.00
1882	9404	0.00	81.47	1,173.02	5.04	-185.30	2.13	20.00
1883	9416	0.00	80.52	1,173.42	5.04	32.65	5.90	20.00
1884	9420	0.00	71.57	1,171.77	5.04	12.28	4.59	20.00
1885	9448	0.00	81.77	1,171.19	5.04	-65.38	2.94	20.00
1886	9496	0.03	56.48	1,089.91	5.04	-46.87	3.29	20.00
1887	9506	0.02	61.16	1,090.01	5.04	21.92	5.14	20.00
1888	9510	0.00	62.83	1,090.01	5.04	23.75	5.20	20.00
1889	9512	0.00	60.00	1,090.08	5.04	21.95	5.13	20.00
1890	9516	0.00	59.76	1,090.08	5.04	21.54	5.11	20.00

Base Year Maximum Day plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1891	952	0.00	72.92	1,173.28	5.04	-69.80	2.80	20.00
1892	9520	0.00	88.92	1,170.87	5.04	10.03	4.63	20.00
1893	9522	0.00	90.44	1,170.86	5.04	1.92	4.37	20.00
1894	9540	0.00	97.88	1,170.90	5.04	4.33	4.50	20.00
1895	9544	0.00	93.62	1,171.11	5.04	-9.48	4.10	20.00
1896	9546	0.00	98.01	1,171.20	5.04	-6.44	4.21	20.00
1897	9550	0.00	77.28	1,089.92	5.04	-62.00	3.40	20.00
1898	9578	0.02	67.34	1,089.96	5.04	-21.17	3.95	20.00
1899	9582	0.02	68.20	1,089.96	5.04	-66.13	3.22	20.00
1900	9584	0.00	64.10	1,090.01	5.04	-34.47	3.68	20.00
1901	9596	0.00	70.34	1,089.99	5.04	29.88	5.45	20.00
1902	9608	0.02	71.48	1,089.96	5.04	-39.88	3.69	20.00
1903	9622	0.00	68.99	1,090.06	5.04	31.14	5.52	20.00
1904	9632	0.00	66.03	1,090.23	5.04	-15.22	4.05	20.00
1905	9638	0.00	62.05	1,090.23	5.04	28.73	5.45	20.00
1906	964	0.00	70.24	1,173.28	5.04	-23.41	3.43	20.00
1907	9640	0.00	47.92	1,090.38	5.04	21.29	5.11	20.00
1908	9644	0.00	50.00	1,090.39	5.04	23.87	5.25	20.00
1909	9648	0.00	66.37	1,178.17	5.04	35.13	6.58	20.00
1910	9652	0.00	86.75	1,230.29	5.04	-179.07	2.41	20.00
1911	9660	0.00	31.57	1,077.86	5.04	6.99	2.32	20.00
1912	9668	0.00	56.73	1,126.68	5.04	54.63	25.01	20.00
1913	9670	0.00	57.55	1,126.10	5.04	55.77	26.24	20.00
1914	9690	0.02	75.06	1,126.86	5.04	13.29	4.74	20.00
1915	9702	0.00	72.54	1,126.87	5.04	3.22	4.32	20.00
1916	9710	0.02	72.11	1,126.84	5.04	8.64	4.53	20.00
1917	9718	0.00	72.29	1,126.84	5.04	8.09	4.50	20.00
1918	9726	0.02	71.31	1,126.85	5.04	2.49	4.30	20.00
1919	9732	0.00	70.57	1,126.85	5.04	44.68	7.36	20.00
1920	9738	0.00	71.35	1,126.86	5.04	47.29	7.74	20.00

Base Year Maximum Day plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1921		9744	0.02	69.89	1,126.82	5.04	48.29	8.16	20.00
1922		9794	0.02	80.40	1,126.83	5.04	0.22	4.31	20.00
1923		9798	0.02	80.29	1,126.76	5.04	-69.93	3.04	20.00
1924		9804	0.02	79.44	1,126.85	5.04	-7.30	4.10	20.00
1925		9816	0.00	77.90	1,126.91	5.04	-56.86	3.17	20.00
1926		9818	0.00	78.36	1,126.91	5.04	-34.51	3.50	20.00
1927		9826	0.02	74.50	1,126.93	5.04	29.65	5.64	20.00
1928		9842	0.00	72.59	1,127.05	5.04	55.68	9.64	20.00
1929		9864	0.02	71.05	1,126.99	5.04	37.25	6.37	20.00
1930		9868	0.00	70.17	1,126.95	5.04	52.03	9.02	20.00
1931		9872	0.00	5.63	936.99	5.04	5.49	-74.52	19.99
1932		9874	0.00	80.93	1,127.00	5.04	75.99	22.68	20.00
1933		9876	0.00	80.98	1,127.00	5.04	76.03	22.68	20.00
1934		988	0.00	71.66	1,173.28	5.04	24.03	5.32	20.00
1935		9880	0.01	74.63	1,126.95	5.04	69.29	20.51	20.00
1936		9882	0.00	74.47	1,126.88	5.04	-30.81	3.50	20.00
1937		9884	0.02	78.81	1,126.89	5.04	-50.58	3.28	20.00
1938		9886	0.00	70.15	1,126.89	5.04	16.32	4.84	20.00
1939		9898	0.00	70.31	1,126.93	5.04	65.19	20.10	20.00
1940		9900	0.02	68.86	1,126.89	5.04	-3.36	4.08	20.00
1941		9908	0.00	65.81	1,126.89	5.04	61.50	21.41	20.00
1942		9910	0.00	65.81	1,126.89	5.04	61.03	19.94	20.00
1943		9922	0.00	70.15	1,126.90	5.04	65.91	22.70	20.00
1944		9926	0.02	73.23	1,127.76	5.04	38.98	6.48	20.00
1945		9928	0.00	65.62	1,127.62	5.04	61.12	20.35	20.00
1946		9932	0.00	65.64	1,127.65	5.04	61.14	20.39	20.00
1947		9948	0.02	65.46	1,127.95	5.04	41.69	7.29	20.00
1948		9962	0.03	63.77	1,127.96	5.04	54.91	13.01	20.00
1949		9966	0.00	65.73	1,127.95	5.04	52.02	10.12	20.00
1950		9992	0.00	65.70	1,127.96	5.04	39.07	6.83	20.00

APPENDIX E
BUILDOUT MAXIMUM HOUR PIPE AND NODE REPORT

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1		1000	0.0596	1,006.34	1,158.68	66.01
2		10006	0.0117	975.00	1,150.08	75.86
3		1002	0.1334	1,000.02	1,158.07	68.48
4		10034	0.0171	982.81	1,149.82	72.36
5		10046	0.0543	984.97	1,149.81	71.43
6		10050	0.0490	985.75	1,149.83	71.09
7		10060	0.0167	983.21	1,149.82	72.19
8		10064	0.0214	982.74	1,149.84	72.40
9		10084	0.0096	984.63	1,150.16	71.72
10		10096	0.0297	985.73	1,150.71	71.49
11		10106	0.0287	983.14	1,150.70	72.60
12		10112	0.0510	981.75	1,151.24	73.44
13		10116	0.0214	984.67	1,151.43	72.26
14		10134	0.0153	985.55	1,151.44	71.88
15		10146	0.2877	988.06	1,151.52	70.83
16		1016	0.1320	1,005.00	1,156.48	65.63
17		10180	0.0159	985.35	1,158.93	75.21
18		10184	0.0077	986.33	1,158.99	74.81
19		10186	0.0249	986.58	1,158.96	74.69
20		102	0.0111	992.23	1,152.68	69.52
21		10208	0.0873	1,006.37	1,160.42	66.75
22		10210	0.0215	1,005.18	1,160.44	67.27
23		10214	0.0448	1,003.41	1,160.44	68.04
24		10222	0.0066	999.60	1,161.21	70.02
25		10230	0.0732	995.00	1,160.70	71.80
26		10254	0.0139	1,005.00	1,161.45	67.79
27		1028	0.0180	1,007.48	1,155.57	64.17
28		10292	0.0198	995.00	1,158.39	70.80
29		10296	0.0172	1,005.11	1,157.08	65.85
30		10300	0.0063	1,005.43	1,157.13	65.73
31		10304	0.0204	1,015.00	1,156.83	61.45
32		10308	0.0197	1,018.73	1,156.56	59.72
33		10312	0.0233	1,010.19	1,156.05	63.20

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
34		10332	0.0036	1,015.00	1,155.29	60.79
35		1036	0.0041	1,006.15	1,154.96	64.48
36		10404	0.0385	947.94	1,098.21	65.11
37		10444	0.0505	970.40	1,151.83	78.61
38		10454	0.0000	975.73	1,151.43	76.13
39		10466	0.0165	978.28	1,152.77	75.61
40		10484	0.0144	975.36	1,152.86	76.91
41		10488	0.0030	977.56	1,153.94	76.43
42		10490	0.0019	977.95	1,154.31	76.41
43		10492	0.0066	980.95	1,153.98	74.97
44		10498	0.0139	980.48	1,154.83	75.54
45		1050	0.0244	1,001.39	1,154.68	66.42
46		10500	0.1178	984.71	1,158.13	75.14
47		10526	0.0619	985.30	1,158.33	74.97
48		10548	0.0375	987.42	1,159.39	74.51
49		10550	0.0036	987.62	1,159.59	74.52
50		10556	0.0109	985.04	1,157.16	74.58
51		10560	0.0013	975.00	1,157.00	78.86
52		10562	0.0029	984.87	1,156.97	74.57
53		10568	0.0008	981.30	1,157.30	76.26
54		10578	0.0061	983.05	1,157.34	75.52
55		10582	0.0000	993.68	1,156.28	70.45
56		10590	0.0080	925.10	1,055.67	56.57
57		10600	0.0124	955.00	1,152.93	85.76
58		10612	0.0781	964.14	1,152.60	81.66
59		10628	0.0033	965.75	1,151.93	80.68
60		10632	0.0022	965.57	1,151.93	80.75
61		10644	0.0023	966.49	1,151.93	80.35
62		10656	0.0015	967.00	1,151.94	80.14
63		10678	0.0070	966.13	1,153.02	80.98
64		10682	0.0039	975.00	1,152.87	77.07
65		10686	0.0026	967.17	1,151.96	80.07
66		10690	0.5573	970.29	1,164.71	84.24

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
67		10694	0.0847	944.50	1,098.04	66.53
68		10716	0.0100	954.79	1,161.82	89.71
69		10720	0.0090	957.93	1,161.74	88.31
70		10730	0.0132	940.90	1,055.57	49.69
71		10736	0.1326	926.47	1,056.89	56.51
72		10762	0.0130	945.00	1,152.50	89.91
73		10768	0.0223	973.40	1,150.61	76.79
74		10772	0.0079	1,019.07	1,160.90	61.45
75		10778	0.0296	986.78	1,157.47	73.96
76		108	0.0120	985.00	1,152.68	72.66
77		10802	0.0069	997.20	1,161.97	71.40
78		10812	0.0073	985.00	1,152.96	72.78
79		10816	0.0246	975.00	1,158.15	79.36
80		10856	0.0185	935.62	1,098.11	70.41
81		10860	0.0000	959.54	1,099.99	60.86
82		10868	0.0049	982.51	1,157.33	75.75
83		10872	0.0091	986.49	1,157.38	74.05
84		10878	0.0107	975.00	1,152.50	76.91
85		10890	0.0105	955.00	1,152.56	85.60
86		10894	0.1816	975.00	1,150.86	76.20
87		10898	0.1152	979.11	1,149.68	73.91
88		1090	0.0151	950.00	1,156.73	89.58
89		10906	0.0681	978.48	1,149.43	74.07
90		10912	0.0183	975.00	1,149.83	75.75
91		10920	0.1525	980.27	1,150.57	73.79
92		10924	0.0412	975.00	1,150.87	76.20
93		10930	0.0060	984.43	1,150.06	71.77
94		10958	0.0025	988.69	1,167.47	77.47
95		10960	0.0091	988.60	1,167.31	77.44
96		10962	0.0021	981.01	1,157.30	76.39
97		10970	0.0130	1,035.89	1,159.33	53.48
98		10980	0.0728	935.00	1,163.35	98.94
99		10982	0.0006	944.47	1,163.36	94.85

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
100		10994	0.0000	973.06	1,151.43	77.29
101		10996	0.0295	980.94	1,154.25	75.10
102		10998	0.0076	980.25	1,154.09	75.32
103		11034	0.0685	956.41	1,161.74	88.97
104		11042	0.0050	927.03	1,055.66	55.73
105		11052	0.0167	975.21	1,165.96	82.65
106		11054	0.0000	971.04	1,165.96	84.46
107		11058	0.0072	949.77	1,056.16	46.10
108		11060	0.0109	948.23	1,056.12	46.75
109		11098	0.0105	1,025.00	1,263.46	103.32
110		11100	0.0059	1,024.79	1,263.55	103.45
111		11104	0.0163	985.36	1,167.06	78.73
112		11134	0.0195	1,001.95	1,154.76	66.21
113		11146	0.0358	947.96	1,152.57	88.66
114		11158	0.0033	973.54	1,150.49	76.67
115		11166	0.0012	1,004.08	1,158.93	67.10
116		11172	0.0208	1,025.67	1,170.56	62.78
117		11174	0.0466	1,045.00	1,167.74	53.18
118		11178	0.0112	1,036.25	1,164.14	55.42
119		11190	0.0086	995.00	1,159.03	71.07
120		11194	0.0129	995.00	1,157.35	70.35
121		11198	0.0083	985.90	1,159.12	75.05
122		11210	0.0024	995.00	1,157.89	70.58
123		11216	0.0483	1,003.99	1,157.64	66.58
124		11224	0.0432	1,003.09	1,155.96	66.24
125		11238	0.0188	1,002.03	1,167.09	71.52
126		11240	0.0133	975.41	1,152.75	76.84
127		11242	0.0048	977.87	1,153.91	76.28
128		11244	0.0043	977.31	1,153.58	76.38
129		11246	0.0106	978.39	1,153.63	75.93
130		11262	0.0275	965.85	1,157.56	83.07
131		11282	0.1221	952.14	1,098.36	63.35
132		11284	0.0081	995.00	1,157.38	70.36

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
133		11286	0.0028	980.03	1,156.97	76.67
134		11292	0.0014	981.03	1,157.30	76.38
135		11294	0.0040	979.91	1,156.96	76.72
136		11324	0.0112	981.68	1,151.78	73.70
137		11330	0.0325	976.33	1,148.64	74.66
138		1134	0.0102	955.41	1,156.56	87.16
139		11340	0.5861	974.48	1,147.71	75.06
140		11356	0.0042	960.93	1,156.15	84.59
141		11374	0.2010	928.86	1,097.85	73.23
142		11414	0.0780	948.13	1,098.18	65.02
143		11424	0.0204	1,005.00	1,150.72	63.14
144		11430	0.0058	975.24	1,150.49	75.94
145		11434	0.0102	988.31	1,150.52	70.29
146		11448	0.0099	987.07	1,155.82	73.12
147		11452	0.0114	985.31	1,156.27	74.08
148		11466	0.0128	989.87	1,167.57	77.00
149		11470	0.0682	997.82	1,165.41	72.62
150		11472	0.1078	985.00	1,165.38	78.16
151		11474	0.0000	1,003.34	1,104.65	43.90
152		11482	0.00000	997.85	1,261.40	114.19
153		11494	0.0400	953.63	1,098.33	62.70
154		1150	0.0077	955.45	1,156.63	87.17
155		11508	0.0691	987.61	1,159.66	74.55
156		11522	0.0081	983.34	1,157.33	75.39
157		11524	0.0152	982.95	1,157.32	75.55
158		1154	0.0083	956.25	1,156.70	86.86
159		11542	1.2176	965.00	1,151.49	80.80
160		11548	0.0070	947.48	1,156.64	90.63
161		11560	0.0254	909.29	1,090.85	78.67
162		11562	0.0135	909.19	1,090.87	78.72
163		11564	0.0120	912.60	1,090.85	77.24
164		11566	0.0308	1,016.91	1,261.06	105.79
165		11576	0.0031	1,039.04	1,160.82	52.77

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
166		11578	0.1734	975.00	1,151.78	76.60
167		11592	0.0323	925.00	1,055.72	56.64
168		11594	0.0342	929.99	1,055.78	54.51
169		11596	0.0288	1,024.28	1,161.13	59.30
170		11606	0.0585	1,014.87	1,161.03	63.33
171		11612	0.0106	968.81	1,152.50	79.59
172		11614	0.0097	970.69	1,152.75	78.89
173		11624	0.0088	965.00	1,152.75	81.35
174		11682	0.0206	964.96	1,152.31	81.18
175		11686	0.0128	970.95	1,152.75	78.78
176		11688	0.0101	981.84	1,154.47	74.80
177		11690	0.0208	982.38	1,154.83	74.72
178		11692	0.0204	984.13	1,155.44	74.23
179		11694	0.0063	984.45	1,155.59	74.15
180		11696	0.0039	985.38	1,155.86	73.87
181		11702	0.0096	985.00	1,155.89	74.05
182		11704	0.0087	993.98	1,155.88	70.15
183		11706	0.0086	985.00	1,155.91	74.05
184		11710	0.1785	960.68	1,153.97	83.75
185		11728	0.0426	965.00	1,153.30	81.59
186		11750	0.0000	915.43	1,090.84	76.00
187		11752	0.0329	907.21	1,090.89	79.59
188		11762	0.0227	993.03	1,165.62	74.78
189		11776	0.0199	996.02	1,167.30	74.22
190		11784	0.0051	966.02	1,156.29	82.44
191		11788	0.0034	964.92	1,156.30	82.92
192		11790	0.0075	966.99	1,156.32	82.04
193		11794	0.0201	965.00	1,156.32	82.90
194		11810	0.2322	971.10	1,150.81	77.87
195		11820	0.1400	935.45	1,098.00	70.43
196		1184	0.0106	955.23	1,156.62	87.26
197		11866	0.0313	950.08	1,055.57	45.71
198		11888	0.0773	961.30	1,055.51	40.82

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
199	1192	0.0024	952.40	1,156.58	88.47
200	11920	0.0091	985.44	1,158.23	74.87
201	11974	0.0033	955.00	1,156.18	87.17
202	11976	0.0119	963.19	1,156.19	83.63
203	11986	0.0086	964.25	1,156.25	83.19
204	11988	0.0046	962.91	1,156.18	83.75
205	11994	0.0047	975.00	1,156.90	78.82
206	12032	0.0214	982.83	1,149.93	72.41
207	12036	0.0137	983.69	1,149.88	72.01
208	1204	0.0046	952.86	1,156.58	88.27
209	12044	0.0112	983.27	1,149.95	72.22
210	12054	0.0131	981.11	1,149.83	73.10
211	1206	0.0061	954.08	1,156.56	87.73
212	12070	0.0183	980.06	1,149.74	73.52
213	12090	0.0114	982.33	1,149.82	72.58
214	12118	0.0247	995.00	1,150.98	67.59
215	12130	0.0279	986.61	1,151.00	71.23
216	12144	0.0290	983.23	1,151.76	73.02
217	1216	0.0061	954.96	1,156.57	87.36
218	12170	0.0425	980.31	1,150.19	73.61
219	12224	0.0059	978.86	1,149.43	73.91
220	12228	0.0103	981.80	1,149.79	72.79
221	1224	0.0161	945.00	1,156.56	91.67
222	12252	0.0883	980.66	1,149.18	73.02
223	12264	0.0866	975.84	1,148.53	74.83
224	12266	0.3116	975.80	1,148.50	74.83
225	12280	0.0133	976.40	1,148.74	74.68
226	12284	0.0049	976.48	1,148.82	74.67
227	12286	0.0112	977.04	1,148.95	74.49
228	12320	0.0164	984.82	1,150.42	71.76
229	12330	0.0440	984.90	1,150.40	71.71
230	12340	0.1180	975.00	1,151.78	76.60
231	12404	0.4786	974.37	1,151.47	76.74

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
232	12408	0.4140	975.00	1,151.64	76.54
233	12416	0.4256	972.49	1,152.09	77.82
234	1242	0.0095	952.84	1,156.53	88.26
235	12424	0.2013	968.09	1,151.93	79.66
236	12446	0.0269	965.10	1,152.60	81.24
237	1246	0.0041	951.67	1,156.50	88.75
238	12462	0.0054	955.00	1,152.26	85.47
239	12470	0.0274	965.05	1,152.25	81.12
240	12478	0.0057	965.01	1,152.11	81.07
241	12492	0.0109	964.39	1,151.85	81.23
242	12498	0.0032	965.06	1,151.85	80.93
243	12510	0.0037	965.67	1,151.94	80.71
244	12542	0.0432	975.00	1,151.93	76.66
245	12556	0.0352	967.71	1,151.94	79.83
246	12560	0.0025	966.82	1,151.94	80.21
247	12568	0.0027	966.16	1,151.93	80.50
248	12576	0.0033	966.08	1,151.93	80.53
249	12582	0.0020	965.02	1,151.93	80.99
250	12596	0.0042	964.70	1,152.11	81.21
251	1260	0.0110	950.85	1,156.58	89.14
252	12600	0.0069	967.01	1,152.31	80.29
253	12632	0.0085	975.00	1,152.71	77.00
254	12642	0.0060	966.93	1,152.71	80.50
255	12646	0.0110	975.00	1,152.65	76.97
256	12652	0.0042	965.32	1,153.08	81.36
257	12666	0.0055	944.84	1,156.02	91.50
258	12668	0.0015	945.29	1,156.02	91.31
259	12686	0.0175	942.32	1,155.93	92.56
260	12706	0.0200	941.64	1,156.19	92.96
261	12714	0.0442	935.87	1,155.91	95.34
262	12716	0.0050	985.00	1,156.91	74.49
263	12718	0.0013	985.00	1,156.91	74.49
264	1272	0.0360	949.60	1,157.06	89.89

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
265		12722	0.0028	975.62	1,156.91	78.55
266		12726	0.0006	985.75	1,157.32	74.34
267		12728	0.0072	985.76	1,157.32	74.34
268		12732	0.0058	975.00	1,156.95	78.84
269		12734	0.0024	975.00	1,156.95	78.84
270		12738	0.0055	984.90	1,156.96	74.56
271		12740	0.0066	995.00	1,156.95	70.18
272		12754	0.0923	956.01	1,155.39	86.39
273		1276	0.0119	948.72	1,156.80	90.16
274		12764	0.2068	955.00	1,159.31	88.53
275		12766	0.1152	955.31	1,158.22	87.92
276		12768	0.0129	987.24	1,159.15	74.49
277		12770	0.0103	987.30	1,159.23	74.50
278		12772	0.0249	986.52	1,158.57	74.55
279		12774	0.0151	985.84	1,158.29	74.72
280		12776	0.0018	982.27	1,157.33	75.85
281		12778	0.0071	982.11	1,157.43	75.96
282		12786	0.0059	981.70	1,157.30	76.09
283		12790	0.0012	981.55	1,157.30	76.15
284		12796	0.0089	982.75	1,157.32	75.64
285		12804	0.0055	984.40	1,157.34	74.93
286		12808	0.0067	983.78	1,157.38	75.22
287		12826	0.0131	985.00	1,156.91	74.49
288		12846	0.0300	935.00	1,055.93	52.40
289		12848	0.0328	950.00	1,055.80	45.84
290		12866	0.0610	936.84	1,096.25	69.07
291		12872	0.0752	955.02	1,098.29	62.08
292		12882	0.0000	958.46	1,098.29	60.59
293		1292	0.2175	971.15	1,152.24	78.47
294		12986	0.1588	941.82	1,098.10	67.72
295		12996	0.0819	943.47	1,098.28	67.08
296		12998	0.8474	925.00	1,098.58	75.21
297		1300	0.0028	959.87	1,151.86	83.19

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
298		13018	0.0687	965.00	1,098.18	57.71
299		13032	0.0169	965.00	1,098.28	57.75
300		13034	0.0576	966.79	1,151.76	80.14
301		13046	0.2857	949.26	1,098.00	64.45
302		1306	0.0104	963.46	1,151.86	81.63
303		13062	0.3285	956.12	1,098.05	61.50
304		13064	0.1593	955.37	1,098.23	61.90
305		13114	0.1303	958.80	1,098.24	60.42
306		13138	0.1630	964.97	1,151.75	80.93
307		13184	0.0313	965.00	1,098.42	57.81
308		13214	0.1167	965.00	1,098.71	57.94
309		13218	0.1641	965.00	1,098.29	57.75
310		1324	0.0043	963.76	1,151.86	81.50
311		13254	0.0111	947.91	1,098.20	65.12
312		1328	0.0019	959.85	1,151.86	83.20
313		13344	0.2441	955.00	1,098.07	61.99
314		13382	0.0000	912.28	1,102.87	82.59
315		13392	0.0000	925.00	1,102.87	77.07
316		134	0.0316	994.24	1,152.67	68.65
317		1340	0.0229	955.00	1,151.90	85.32
318		1342	0.0031	955.00	1,151.91	85.32
319		1344	0.0516	954.77	1,151.86	85.40
320		13446	0.0000	924.00	1,099.87	76.21
321		13458	0.0069	981.32	1,157.30	76.25
322		13494	0.0063	967.77	1,152.97	80.25
323		13498	0.1904	968.95	1,152.19	79.40
324		13522	0.0289	952.81	1,157.24	88.58
325		13534	0.0237	957.60	1,157.25	86.51
326		13542	0.0094	965.00	1,157.15	83.26
327		13568	0.0131	957.33	1,157.18	86.60
328		13602	0.0045	959.24	1,157.15	85.76
329		13606	0.0213	960.54	1,156.34	84.84
330		1362	0.0003	940.93	1,151.49	91.24

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
331		13620	0.0056	965.00	1,155.98	82.75
332		1364	0.0018	965.00	1,151.49	80.81
333		13640	0.0211	957.85	1,156.80	86.21
334		13646	0.0257	953.94	1,157.37	88.14
335		13650	0.0366	950.33	1,158.08	90.02
336		13656	0.0112	949.08	1,158.37	90.68
337		13660	0.1352	943.20	1,155.76	92.10
338		13670	0.0056	944.65	1,155.88	91.53
339		13684	0.0020	945.64	1,156.02	91.16
340		13694	0.0130	958.86	1,156.34	85.57
341		13706	0.0061	955.53	1,156.34	87.01
342		13720	0.0117	951.99	1,156.34	88.54
343		13724	0.0029	950.62	1,156.34	89.14
344		13748	0.0078	947.51	1,156.32	90.48
345		13762	0.0050	945.73	1,156.32	91.25
346		138	0.0396	990.90	1,152.69	70.10
347		13838	0.0281	957.00	1,157.74	86.98
348		13844	0.0104	974.71	1,158.60	79.68
349		13848	0.0227	971.13	1,158.00	80.97
350		13866	0.0110	954.80	1,157.82	87.97
351		13888	0.0152	985.00	1,152.76	72.69
352		13890	0.0358	985.00	1,152.68	72.66
353		13914	0.0080	975.35	1,152.90	76.93
354		13926	0.0021	981.49	1,153.98	74.74
355		13930	0.0129	985.00	1,153.58	73.05
356		13936	0.0049	985.00	1,152.68	72.66
357		13946	0.0201	976.78	1,152.09	75.96
358		13948	0.0016	976.94	1,152.60	76.11
359		13952	0.0105	977.15	1,152.61	76.03
360		13954	0.0067	974.81	1,152.64	77.05
361		13956	0.0052	974.66	1,152.63	77.11
362		13958	0.0082	985.00	1,152.57	72.61
363		1396	0.0388	965.00	1,151.80	80.94

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
364		13966	0.0166	996.51	1,161.34	71.42
365		13972	0.0380	995.81	1,161.03	71.59
366		14012	0.0056	1,004.60	1,156.94	66.01
367		14016	0.0063	1,004.18	1,156.89	66.17
368		1402	0.0481	953.89	1,151.85	85.78
369		14024	0.0118	995.00	1,157.71	70.50
370		14026	0.0207	995.00	1,157.89	70.58
371		14044	0.0230	994.30	1,161.96	72.65
372		14060	0.0180	999.65	1,161.18	69.99
373		14062	0.0031	995.00	1,159.35	71.21
374		14066	0.0040	987.36	1,159.16	74.44
375		14082	0.0175	1,005.00	1,166.61	70.03
376		14090	0.0237	1,014.27	1,168.19	66.69
377		14100	0.0268	1,011.13	1,167.57	67.78
378		14142	0.0075	995.95	1,161.95	71.93
379		14156	0.0089	1,005.00	1,161.89	67.98
380		14160	0.0116	995.29	1,161.95	72.21
381		14174	0.0100	995.14	1,161.75	72.19
382		14206	0.0107	994.65	1,161.22	72.18
383		1422	0.0604	955.00	1,151.93	85.33
384		14220	0.0361	994.10	1,161.02	72.33
385		14222	0.0073	994.51	1,161.03	72.15
386		14228	0.0549	994.00	1,161.03	72.37
387		14246	0.0120	1,004.48	1,160.46	67.58
388		14258	0.0058	1,001.92	1,160.64	68.77
389		14260	0.1411	1,002.37	1,160.61	68.56
390		14278	0.0078	1,008.47	1,155.34	63.64
391		14286	0.0164	1,015.00	1,155.51	60.88
392		14322	0.0768	1,008.76	1,156.80	64.15
393		1434	0.0830	955.00	1,151.97	85.35
394		14364	0.1590	999.80	1,157.35	68.27
395		14388	0.0072	1,004.42	1,157.81	66.46
396		14414	0.0169	990.02	1,159.61	73.48

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
397		14420	0.0080	989.19	1,159.62	73.85
398		14432	0.0140	987.58	1,159.27	74.39
399		14438	0.0073	986.77	1,159.27	74.75
400		1446	0.0197	970.54	1,152.22	78.72
401		14470	0.0074	984.69	1,158.69	75.39
402		14476	0.0059	983.92	1,158.76	75.76
403		14510	0.0035	986.99	1,159.09	74.57
404		14528	0.2028	997.18	1,158.46	69.88
405		14598	0.0253	997.16	1,158.73	70.01
406		14606	0.0152	1,005.00	1,159.54	66.96
407		14630	0.0170	995.46	1,159.58	71.12
408		14640	0.0059	985.00	1,159.81	75.74
409		14646	0.0133	995.00	1,160.72	71.81
410		14652	0.0084	998.50	1,160.78	70.32
411		14664	0.0150	1,003.03	1,160.63	68.29
412		14674	0.0039	997.03	1,161.11	71.09
413		1470	0.0027	970.99	1,152.24	78.53
414		1472	0.0834	953.73	1,151.36	85.63
415		14722	0.0167	995.70	1,160.40	71.36
416		14790	0.0269	991.76	1,159.93	72.87
417		14810	0.0081	1,000.82	1,160.78	69.31
418		1482	0.0110	945.68	1,058.74	48.99
419		14828	0.0157	994.13	1,160.26	71.98
420		14840	0.0115	993.10	1,159.98	72.31
421		14852	0.0187	985.00	1,159.89	75.78
422		1486	0.0322	963.10	1,059.85	41.92
423		14866	0.0115	996.75	1,160.07	70.77
424		14876	0.0093	993.64	1,159.69	71.95
425		14878	0.0195	993.77	1,159.80	71.94
426		1488	0.0324	966.09	1,059.87	40.63
427		14884	0.0811	985.00	1,159.83	75.76
428		14896	0.0022	996.69	1,160.49	70.98
429		14914	0.0086	992.45	1,159.92	72.57

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
430		14922	0.0203	1,004.01	1,160.53	67.82
431		14934	0.0072	1,000.10	1,161.01	69.72
432		1494	0.1692	949.91	1,058.39	47.01
433		14940	0.0090	1,005.00	1,161.18	67.67
434		14942	0.0015	997.73	1,161.38	70.91
435		14944	0.0133	996.34	1,160.57	71.16
436		14946	0.0145	1,005.00	1,160.79	67.51
437		14948	0.0109	999.39	1,160.93	69.99
438		14984	0.0620	990.62	1,159.87	73.34
439		14990	0.0166	991.59	1,159.87	72.91
440		14998	0.0045	996.58	1,160.50	71.03
441		150	0.0456	985.00	1,152.73	72.68
442		1500	0.0861	958.45	1,058.33	43.28
443		15008	0.0093	995.93	1,160.42	71.27
444		15012	0.0162	990.55	1,159.87	73.37
445		15016	0.0124	993.54	1,160.09	72.16
446		15018	0.0207	993.00	1,160.10	72.40
447		15028	0.0150	1,005.00	1,160.81	67.51
448		15032	0.0074	994.04	1,160.23	72.01
449		15038	0.0056	997.79	1,161.51	70.94
450		15040	0.0022	997.96	1,161.40	70.82
451		15054	0.1346	999.63	1,160.80	69.84
452		15060	0.0008	996.69	1,160.54	71.00
453		15068	0.0037	991.90	1,160.02	72.85
454		1508	0.0692	945.02	1,058.75	49.28
455		15098	0.0044	990.40	1,159.98	73.48
456		15166	0.0358	991.76	1,160.03	72.91
457		15184	0.0399	985.00	1,152.85	72.73
458		15188	0.0001	994.51	1,157.90	70.80
459		15214	0.0001	1,025.00	1,162.55	59.60
460		15246	0.0461	1,025.00	1,263.38	103.29
461		15256	0.1374	1,029.85	1,261.12	100.21
462		15278	0.0164	1,035.00	1,160.07	54.19

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
463		15284	0.0198	1,022.78	1,160.77	59.79
464		15292	0.0191	1,027.87	1,160.83	57.61
465		15302	0.0054	1,041.52	1,160.78	51.68
466		15304	0.0032	1,041.02	1,160.80	51.90
467		15310	0.0318	1,020.08	1,160.90	61.02
468		15352	0.0086	1,036.41	1,160.44	53.74
469		15386	0.0054	985.61	1,153.82	72.88
470		15398	0.0095	985.00	1,154.60	73.49
471		15404	0.0088	982.87	1,154.34	74.30
472		15414	0.0223	994.53	1,154.47	69.30
473		15438	0.0122	975.00	1,154.60	77.82
474		15444	0.0046	983.25	1,153.95	73.96
475		15454	0.0085	978.12	1,153.94	76.18
476		15476	0.0131	979.50	1,153.94	75.58
477		15510	0.0062	970.25	1,150.49	78.10
478		15542	0.0166	982.67	1,150.30	72.64
479		15552	0.0537	966.37	1,150.59	79.82
480		15566	0.0212	982.59	1,150.36	72.70
481		15570	0.0168	994.81	1,150.72	67.56
482		15614	0.0126	981.42	1,150.37	73.21
483		1562	0.0132	955.73	1,157.25	87.32
484		15622	0.0132	984.27	1,150.25	71.92
485		15626	0.0700	985.56	1,150.17	71.33
486		15632	0.0422	974.52	1,150.47	76.24
487		15666	0.0543	955.78	1,152.51	85.24
488		1568	0.1099	971.86	1,154.61	79.18
489		15686	0.1723	962.61	1,152.36	82.22
490		1572	0.0083	997.33	1,154.67	68.18
491		15722	0.0119	986.16	1,154.33	72.87
492		15752	0.0121	985.40	1,154.25	73.16
493		15766	0.0071	997.97	1,151.21	66.40
494		15784	0.0048	999.14	1,151.01	65.80
495		15786	0.0101	993.06	1,151.01	68.44

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
496		15788	0.0100	1,003.93	1,151.01	63.73
497		15794	0.0078	985.00	1,151.16	72.00
498		15804	0.0112	981.91	1,151.71	73.57
499		15810	0.0559	975.00	1,161.77	80.93
500		15818	0.0181	967.82	1,161.79	84.05
501		15824	0.0052	968.77	1,161.78	83.63
502		15836	0.0092	975.06	1,165.97	82.72
503		1584	0.0037	984.09	1,157.31	75.06
504		15846	0.0207	958.20	1,056.75	42.70
505		15860	0.0214	943.24	1,055.52	48.65
506		15910	0.0101	983.89	1,151.02	72.42
507		15920	0.0139	993.88	1,151.71	68.38
508		15928	0.0083	990.98	1,151.17	69.41
509		15954	0.0112	985.00	1,151.42	72.11
510		15972	0.0126	980.42	1,152.01	74.35
511		15984	0.0048	1,025.00	1,159.27	58.18
512		15996	0.0108	1,011.57	1,159.01	63.89
513		16008	0.0111	1,024.72	1,159.27	58.30
514		16012	0.0067	1,018.76	1,159.17	60.84
515		16016	0.0171	1,009.95	1,159.01	64.58
516		16018	0.0149	1,025.65	1,159.27	57.89
517		16020	0.0123	1,029.00	1,159.27	56.45
518		16022	0.0049	1,019.51	1,159.17	60.52
519		16046	0.0268	1,041.41	1,160.31	51.52
520		16096	0.0265	1,025.00	1,160.16	58.57
521		16104	0.0316	1,024.07	1,160.17	58.97
522		16120	0.0135	1,016.41	1,160.16	62.29
523		16148	0.0292	1,025.20	1,160.17	58.48
524		16160	0.0195	1,025.00	1,160.22	58.59
525		16162	0.0121	1,005.00	1,151.78	63.60
526		16168	0.0077	1,020.00	1,152.01	57.20
527		16178	0.0071	993.65	1,153.55	69.29
528		16222	0.0033	995.00	1,154.21	68.99

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
529	16230	0.0377	1,006.86	1,154.19	63.84
530	16234	0.0057	1,014.31	1,151.41	59.41
531	16238	0.0119	1,007.47	1,151.28	62.31
532	16256	0.0110	1,000.97	1,152.88	65.82
533	16258	0.0097	1,017.36	1,152.27	58.46
534	16270	0.0086	997.27	1,153.55	67.71
535	16272	0.0303	1,014.68	1,152.25	59.61
536	16276	0.0193	1,016.88	1,152.00	58.55
537	16280	0.0374	1,027.46	1,151.75	53.85
538	16282	0.0049	1,022.74	1,151.76	55.91
539	16288	0.0137	975.00	1,156.27	78.54
540	16318	0.0108	1,003.54	1,160.52	68.02
541	16332	0.0181	995.03	1,159.71	71.36
542	16350	0.0137	988.96	1,159.32	73.82
543	16352	0.0095	993.79	1,159.72	71.90
544	16354	0.0127	1,009.18	1,161.46	65.99
545	16358	0.0098	975.06	1,154.81	77.89
546	16370	0.0079	972.93	1,154.81	78.81
547	16414	0.0155	977.47	1,154.94	76.90
548	16416	0.0120	977.94	1,154.94	76.69
549	16426	0.0089	975.11	1,154.81	77.86
550	16434	0.0201	999.37	1,157.24	68.40
551	16438	0.0054	1,005.39	1,157.49	65.91
552	16442	0.0217	1,040.43	1,167.00	54.84
553	16448	0.0318	1,048.30	1,166.58	51.25
554	16456	0.0317	1,022.89	1,165.79	61.92
555	16468	0.0275	1,025.00	1,164.05	60.25
556	16478	0.0317	1,044.47	1,166.46	52.86
557	16538	0.0282	1,025.00	1,163.99	60.23
558	16544	0.0226	1,031.37	1,164.14	57.53
559	16556	0.0323	1,035.00	1,166.44	56.95
560	16562	0.0528	1,038.02	1,165.40	55.19
561	16564	0.0128	1,005.63	1,158.93	66.42

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
562		16572	0.0459	1,003.02	1,158.91	67.55
563		16592	0.2372	1,024.38	1,158.64	58.17
564		16604	0.0143	1,016.44	1,159.05	61.79
565		16614	0.0226	1,043.92	1,160.74	50.62
566		16622	0.0031	1,044.25	1,259.23	93.15
567		16642	0.1441	895.00	1,104.93	90.96
568		16644	0.0419	953.10	1,152.51	86.41
569		16650	0.0353	976.85	1,152.55	76.13
570		16654	0.0239	975.00	1,152.85	77.06
571		16658	0.0034	987.02	1,153.66	72.21
572		16662	0.0091	997.50	1,154.22	67.91
573		16678	0.0659	945.02	1,152.54	89.92
574		16684	0.0119	954.59	1,154.70	86.71
575		16692	0.1044	965.00	1,161.81	85.28
576		16696	0.0010	975.43	1,165.97	82.56
577		16698	0.0033	982.03	1,166.50	79.93
578		1670	0.1294	987.22	1,152.12	71.45
579		16702	0.0000	910.00	1,103.76	83.96
580		16714	0.0000	983.63	1,104.65	52.44
581		16724	0.0000	993.82	1,104.65	48.02
582		16726	0.0100	996.79	1,261.44	114.67
583		16736	0.0214	1,032.94	1,261.97	99.24
584		1676	0.1641	984.66	1,152.13	72.57
585		16760	0.0405	997.75	1,166.07	72.93
586		16764	0.0273	987.82	1,166.76	77.53
587		16770	0.0098	986.66	1,167.24	78.25
588		16774	0.0140	1,006.08	1,168.15	70.22
589		16778	0.0271	1,014.69	1,171.61	67.99
590		16780	0.0006	1,024.67	1,170.93	63.37
591		16890	0.0234	956.42	1,058.16	44.09
592		16892	0.0000	910.00	1,104.32	84.20
593		16898	0.0203	944.52	1,152.54	90.13
594		16908	0.0511	959.77	1,154.70	84.46

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
595		16914	0.0245	983.73	1,166.24	79.08
596		16916	0.0137	985.00	1,166.50	78.64
597		16954	0.0028	1,004.79	1,162.41	68.30
598		16956	0.0120	1,001.05	1,162.12	69.79
599		17028	0.0947	981.97	1,166.05	79.76
600		17030	0.0549	985.41	1,167.05	78.70
601		17032	0.0400	992.93	1,167.24	75.53
602		17072	0.1754	1,001.47	1,164.77	70.76
603		17080	0.1842	1,005.00	1,164.41	69.07
604		17094	0.0754	998.43	1,164.63	72.02
605		17180	0.1195	1,006.68	1,164.88	68.55
606		17208	0.0669	964.06	1,153.99	82.30
607		17212	0.0026	965.00	1,154.10	81.94
608		17220	0.0179	945.00	1,154.37	90.72
609		17226	0.0405	959.40	1,154.14	84.38
610		17234	0.0034	965.00	1,154.11	81.94
611		1724	0.0210	955.00	1,157.27	87.64
612		17242	0.0034	965.00	1,154.06	81.92
613		17246	0.0111	1,004.67	1,159.60	67.13
614		17310	0.0205	1,006.58	1,159.59	66.30
615		17320	0.0192	1,005.00	1,159.66	67.01
616		17344	0.0354	1,005.33	1,159.56	66.83
617		17346	0.0325	1,023.96	1,159.54	58.75
618		17352	0.0386	985.00	1,159.56	75.64
619		17354	0.0116	999.52	1,159.67	69.39
620		1736	0.0586	955.00	1,157.21	87.62
621		17360	0.0466	985.00	1,159.54	75.63
622		17384	0.0214	1,025.00	1,260.94	102.23
623		17388	0.0142	1,030.92	1,260.78	99.60
624		17396	0.0192	1,003.74	1,261.22	111.57
625		17406	0.0149	1,007.70	1,261.07	109.79
626		17412	0.0147	1,024.26	1,260.87	102.53
627		17414	0.0092	1,032.78	1,260.80	98.80

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
628		17418	0.0131	1,033.11	1,260.79	98.66
629		1742	0.0046	994.57	1,157.20	70.46
630		17432	0.0226	1,051.69	1,260.73	90.58
631		1746	0.0614	996.48	1,157.35	69.71
632		17512	0.0004	1,085.00	1,260.66	76.11
633		17514	0.0198	1,085.00	1,260.66	76.11
634		17524	0.0095	1,012.57	1,261.00	107.65
635		1758	0.0049	995.33	1,157.22	70.14
636		17598	0.0152	995.00	1,261.21	115.35
637		17600	0.0191	1,018.65	1,260.94	104.98
638		17602	0.0138	1,011.74	1,260.99	108.00
639		17606	0.0236	1,048.54	1,260.87	92.00
640		17612	0.0421	1,073.14	1,260.70	81.27
641		17616	0.0313	1,042.26	1,260.74	94.67
642		17620	0.0112	1,085.84	1,260.66	75.75
643		17622	0.0007	1,085.93	1,260.66	75.71
644		17626	0.0107	1,054.00	1,260.74	89.58
645		17634	0.0086	1,085.75	1,260.66	75.79
646		17638	0.0145	1,106.76	1,260.65	66.68
647		17666	0.0234	995.53	1,166.85	74.23
648		17668	0.0191	991.93	1,166.93	75.83
649		17690	0.0509	1,002.90	1,166.54	70.90
650		17704	0.0345	1,005.00	1,167.00	70.20
651		17736	0.0158	1,024.44	1,160.77	59.07
652		1774	0.0200	995.06	1,157.22	70.26
653		17740	0.0144	1,034.10	1,160.76	54.88
654		17744	0.0089	1,037.76	1,160.76	53.30
655		17752	0.0076	1,038.86	1,160.76	52.82
656		17756	0.0081	1,033.29	1,160.76	55.23
657		17762	0.0222	1,026.96	1,160.77	57.98
658		17776	0.0234	1,019.61	1,160.78	61.17
659		17818	0.0025	979.51	1,165.96	80.79
660		17824	0.0101	1,025.08	1,159.51	58.25

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
661		17838	0.0111	1,034.17	1,159.75	54.42
662		17840	0.0150	1,025.00	1,159.79	58.40
663		17848	0.0175	1,023.27	1,159.94	59.22
664		17866	0.0110	1,045.00	1,160.58	50.08
665		17884	0.0097	1,038.36	1,160.66	52.99
666		17886	0.0126	1,038.96	1,160.61	52.71
667		17894	0.0140	1,039.45	1,160.59	52.49
668		17946	0.2296	1,032.19	1,158.65	54.79
669		17952	0.0112	1,043.71	1,159.34	50.10
670		17958	0.0393	925.00	1,054.68	56.19
671		17962	0.0422	939.43	1,055.26	50.19
672		17964	0.0180	935.00	1,055.26	52.11
673		17966	0.0274	926.15	1,055.39	56.00
674		17984	0.0150	981.34	1,165.96	80.00
675		17990	0.0089	981.58	1,165.96	79.89
676		17994	0.0053	985.61	1,165.96	78.15
677		18002	0.0246	985.30	1,067.31	35.53
678		18012	0.0524	955.00	1,062.32	46.50
679		18016	0.0307	939.66	1,059.63	51.98
680		18026	0.0176	927.15	1,056.79	56.17
681		18050	0.0214	930.82	1,056.89	54.63
682		18072	0.0315	926.29	1,056.71	56.51
683		18076	0.0389	925.41	1,055.57	56.40
684		18106	0.0215	949.19	1,055.77	46.18
685		18108	0.0119	945.00	1,055.77	48.00
686		18118	0.0154	931.57	1,055.78	53.82
687		18122	0.0095	921.96	1,055.78	57.98
688		18128	0.0068	925.00	1,055.78	56.67
689		18136	0.0156	945.00	1,055.79	48.01
690		18146	0.0104	928.63	1,056.12	55.24
691		18152	0.0102	934.71	1,055.67	52.41
692		18172	0.0246	925.31	1,055.48	56.40
693		18176	0.0211	925.13	1,055.44	56.46

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
694		18186	0.0843	925.12	1,055.18	56.36
695		18202	0.0253	926.20	1,055.08	55.85
696		1822	0.2944	1,004.97	1,151.42	63.46
697		18242	0.0164	927.25	1,055.68	55.65
698		18246	0.0066	935.00	1,055.68	52.29
699		18254	0.0267	931.09	1,055.42	53.87
700		18274	0.0219	944.79	1,055.45	47.95
701		18284	0.0096	936.49	1,055.67	51.64
702		18288	0.0107	925.00	1,055.88	56.71
703		18298	0.0144	929.24	1,055.52	54.72
704		1830	0.0195	995.00	1,151.63	67.87
705		18302	0.0261	935.42	1,055.36	51.97
706		184	0.0209	965.00	1,156.29	82.89
707		1840	0.0183	1,003.54	1,151.69	64.19
708		18402	0.0265	917.35	1,054.81	59.56
709		18410	0.0549	905.83	1,054.79	64.55
710		18416	0.0563	925.00	1,055.01	56.33
711		1842	0.0137	995.00	1,151.78	67.93
712		1844	0.0114	1,002.79	1,151.78	64.56
713		1846	0.0110	995.00	1,151.98	68.02
714		18468	0.0000	949.32	1,156.33	89.70
715		1848	0.0237	1,002.66	1,151.98	64.70
716		18488	0.1446	951.09	1,161.83	91.32
717		18530	0.0101	960.92	1,161.72	87.01
718		18536	0.0664	960.59	1,161.70	87.14
719		18542	0.0172	955.86	1,162.23	89.42
720		18594	0.0420	958.90	1,161.62	87.84
721		18610	0.0055	958.97	1,161.84	87.91
722		18630	0.0240	965.00	1,161.67	85.22
723		18632	0.0049	957.23	1,161.72	88.60
724		1866	0.0074	995.00	1,158.87	71.00
725		18666	0.0058	960.80	1,161.81	87.10
726		18702	0.0065	983.98	1,156.67	74.83

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
727		18706	0.0038	984.10	1,155.68	74.34
728		18718	0.0999	955.00	1,152.19	85.44
729		1872	0.0081	975.85	1,157.06	78.52
730		18720	0.0131	955.00	1,152.19	85.44
731		18722	0.0124	945.00	1,153.79	90.47
732		18726	0.0066	954.46	1,153.79	86.37
733		18734	0.0147	955.50	1,154.29	86.13
734		18744	0.0067	960.01	1,153.47	83.83
735		18748	0.0107	959.03	1,153.68	84.34
736		18756	0.0101	966.28	1,153.09	80.94
737		18766	0.0120	963.35	1,153.12	82.23
738		18770	0.0293	964.13	1,153.35	81.99
739		18772	0.0071	964.80	1,153.09	81.59
740		18786	0.0192	974.71	1,152.65	77.10
741		18796	0.0166	955.18	1,162.35	89.77
742		18818	0.0067	955.00	1,161.56	89.50
743		18828	0.0072	975.00	1,161.45	80.79
744		1884	0.0040	975.09	1,157.06	78.85
745		18842	0.0061	985.00	1,155.88	74.04
746		1886	0.0030	973.59	1,156.92	79.44
747		1888	0.0212	974.53	1,156.92	79.03
748		18880	0.0000	1,005.00	1,150.99	63.26
749		18900	0.0019	973.10	1,158.38	80.28
750		18902	0.0223	995.00	1,157.45	70.39
751		18920	0.0010	962.05	1,152.21	82.40
752		18924	0.0097	963.08	1,151.89	81.81
753		18928	0.0041	962.15	1,152.24	82.37
754		18932	0.0143	965.00	1,152.35	81.18
755		18942	0.0403	968.50	1,152.22	79.61
756		18952	0.0047	977.17	1,152.56	76.00
757		18956	0.0183	965.00	1,152.37	81.19
758		1896	0.1702	972.25	1,156.79	79.96
759		18968	0.0140	965.00	1,152.31	81.16

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
760		18986	0.0073	965.00	1,152.41	81.21
761		19044	0.0108	965.00	1,152.21	81.12
762		19054	0.0497	962.49	1,151.85	82.05
763		19070	0.4019	983.97	1,153.14	73.30
764		1908	0.0063	971.85	1,157.61	80.49
765		19094	0.4296	975.23	1,151.11	76.21
766		19152	0.0407	986.90	1,155.75	73.16
767		19170	0.0553	995.00	1,156.25	69.87
768		19224	0.0076	987.14	1,155.72	73.04
769		19238	0.0098	986.87	1,156.57	73.53
770		19244	0.0006	916.14	1,090.83	75.69
771		19262	0.0373	933.96	1,155.42	95.96
772		19284	0.0171	914.40	1,090.62	76.36
773		19286	0.0233	917.07	1,090.61	75.19
774		19294	0.0962	925.00	1,094.84	73.59
775		19302	0.1194	935.00	1,089.08	66.76
776		19310	0.0776	916.40	1,090.83	75.58
777		19358	0.0113	975.69	1,156.90	78.52
778		19360	0.0123	985.74	1,157.32	74.35
779		19362	0.0028	975.00	1,157.01	78.86
780		19388	0.0106	986.42	1,157.38	74.08
781		19408	0.0095	975.00	1,156.94	78.83
782		19446	0.0137	995.00	1,157.68	70.49
783		19448	0.0182	984.55	1,157.27	74.84
784		19458	0.0017	984.55	1,156.98	74.71
785		19460	0.0007	975.00	1,157.00	78.86
786		19486	0.0000	978.43	1,164.70	80.71
787		19488	0.0000	981.90	1,164.73	79.22
788		19496	0.0000	995.00	1,162.28	72.48
789		1952	0.0717	969.53	1,156.73	81.11
790		19528	0.0000	985.00	1,155.63	73.93
791		19534	0.6466	985.00	1,150.18	71.57
792		19552	0.0000	1,005.00	1,150.99	63.26

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
793		19556	0.0000	985.00	1,156.28	74.22
794		1958	0.1383	967.95	1,156.76	81.81
795		19580	0.0000	993.66	1,156.28	70.46
796		19588	0.0452	995.00	1,157.36	70.35
797		19610	0.0444	986.26	1,156.15	73.61
798		19620	0.0036	995.00	1,158.36	70.79
799		19636	0.0380	986.02	1,156.67	73.94
800		19648	0.0329	995.00	1,157.10	70.24
801		19698	0.0185	981.62	1,155.32	75.26
802		19702	0.0064	982.76	1,155.17	74.70
803		19706	0.0117	975.00	1,154.95	77.97
804		19716	0.0056	980.39	1,155.02	75.67
805		19720	0.0032	978.82	1,154.73	76.22
806		19722	0.0218	984.76	1,155.22	73.86
807		19724	0.0027	978.31	1,154.47	76.33
808		19728	0.0061	983.03	1,155.23	74.62
809		19730	0.0099	979.88	1,154.70	75.75
810		19732	0.0121	980.57	1,154.90	75.54
811		19746	0.6912	985.00	1,149.82	71.42
812		19776	0.0068	984.13	1,155.72	74.35
813		19778	0.0016	984.30	1,155.72	74.28
814		19826	0.0022	983.78	1,156.60	74.88
815		19834	0.0000	995.00	1,157.31	70.33
816		19836	0.0163	986.23	1,157.31	74.13
817		19844	0.0023	982.01	1,157.32	75.96
818		19854	0.2982	958.34	1,159.17	87.02
819		19856	0.4346	977.14	1,150.84	75.27
820		1986	0.0576	972.72	1,158.06	80.31
821		19860	0.1393	978.34	1,150.84	74.74
822		19868	0.3492	959.70	1,154.26	84.30
823		19880	0.2988	952.21	1,157.13	88.79
824		19888	0.3732	955.57	1,155.16	86.48
825		19900	0.1471	960.11	1,153.93	83.98

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
826		19902	0.1254	962.02	1,153.55	82.99
827		19908	0.0479	985.00	1,150.83	71.86
828		19934	0.1043	914.83	1,098.35	79.52
829		19948	0.0126	914.96	1,106.70	83.08
830		1996	0.0183	966.37	1,158.09	83.07
831		19962	0.0002	912.60	1,106.63	84.07
832		19972	0.1940	920.54	1,098.09	76.93
833		19976	0.0974	918.99	1,106.80	81.38
834		19990	0.0073	965.98	1,161.46	84.70
835		20004	0.0070	955.00	1,161.71	89.57
836		20006	0.0045	963.70	1,161.65	85.77
837		20014	0.0051	968.87	1,161.18	83.32
838		2002	0.0065	968.46	1,158.24	82.23
839		20020	0.2467	975.45	1,161.07	80.43
840		20028	0.1599	970.68	1,161.03	82.48
841		20030	0.0072	966.73	1,161.45	84.37
842		20034	0.0289	960.38	1,161.53	87.16
843		20038	0.0096	970.55	1,161.02	82.53
844		20050	0.0099	967.58	1,161.45	84.01
845		20052	0.0035	965.76	1,161.45	84.79
846		20060	0.0274	966.55	1,161.47	84.46
847		20076	0.0081	968.13	1,161.14	83.63
848		20086	0.0096	961.21	1,161.53	86.80
849		20090	0.0109	965.25	1,161.47	85.02
850		20104	0.1010	962.99	1,161.40	85.97
851		20118	0.0157	963.70	1,161.47	85.69
852		20156	0.0432	966.29	1,161.12	84.42
853		20158	0.0543	968.56	1,161.12	83.44
854		20176	0.0076	964.20	1,161.52	85.50
855		202	0.0106	964.94	1,156.29	82.91
856		20222	0.0189	967.86	1,161.46	83.89
857		20256	0.0091	970.88	1,161.02	82.38
858		20260	0.0433	971.91	1,161.02	81.94

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
859		20264	0.0099	971.45	1,161.02	82.14
860		20274	0.0152	969.82	1,161.03	82.85
861		20286	0.0277	973.17	1,161.01	81.39
862		20290	0.0086	969.56	1,161.14	83.01
863		20326	0.0047	969.15	1,161.16	83.20
864		20344	0.0126	963.30	1,161.71	85.97
865		20350	0.0039	959.79	1,161.97	87.60
866		20410	0.0084	973.04	1,158.22	80.24
867		20414	0.0240	967.62	1,157.78	82.40
868		20418	0.0020	955.20	1,157.84	87.80
869		20422	0.0010	948.88	1,158.38	90.78
870		20428	0.0042	948.66	1,158.41	90.88
871		20440	0.0068	949.20	1,159.30	91.03
872		20482	0.0435	944.20	1,163.44	95.00
873		2050	0.0110	975.00	1,158.09	79.33
874		20510	0.0093	948.41	1,158.32	90.95
875		20512	0.0115	944.85	1,158.82	92.71
876		20514	0.0080	946.24	1,158.70	92.06
877		20518	0.0063	987.61	1,155.67	72.82
878		20522	0.0084	989.48	1,155.65	72.00
879		20526	0.0079	988.47	1,155.65	72.44
880		20532	0.0057	987.87	1,155.66	72.70
881		20534	0.0047	987.10	1,155.64	73.03
882		20536	0.0464	987.36	1,155.59	72.90
883		20540	0.0064	986.97	1,155.65	73.09
884		20542	0.0060	985.38	1,155.66	73.78
885		20546	0.0053	986.13	1,155.64	73.45
886		20548	0.0416	986.23	1,155.61	73.39
887		20554	0.0084	985.82	1,155.65	73.59
888		20556	0.0076	984.72	1,155.68	74.08
889		20564	0.0131	985.34	1,155.68	73.81
890		20568	0.0056	986.38	1,155.66	73.35
891		20574	0.0106	995.00	1,155.67	69.62

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
892		20580	0.0324	991.89	1,155.76	71.01
893		20582	0.0103	990.03	1,155.77	71.82
894		20590	0.0387	993.19	1,155.81	70.46
895		20598	0.0268	994.52	1,155.87	69.91
896		20606	0.0117	995.62	1,155.89	69.44
897		20610	0.0059	991.36	1,155.86	71.28
898		20620	0.0414	990.10	1,155.64	71.73
899		20626	0.0350	988.69	1,155.64	72.34
900		20630	0.0068	986.71	1,155.66	73.21
901		20652	0.0053	987.51	1,155.66	72.86
902		20654	0.0050	986.61	1,155.66	73.25
903		20664	0.0082	991.06	1,155.77	71.37
904		20668	0.0085	988.49	1,155.77	72.48
905		20676	0.0082	992.45	1,155.82	70.79
906		20692	0.0108	992.34	1,155.88	70.86
907		20700	0.0071	993.58	1,155.91	70.34
908		20706	0.0053	985.00	1,155.87	74.04
909		20710	0.0090	985.00	1,157.23	74.63
910		2076	0.0142	985.23	1,158.77	75.19
911		20760	0.0172	995.00	1,157.23	70.29
912		20770	0.0116	992.53	1,157.35	71.42
913		20778	0.0051	985.00	1,157.17	74.60
914		20780	0.0023	993.46	1,157.17	70.94
915		20782	0.0050	991.68	1,156.97	71.62
916		20784	0.0050	991.85	1,156.97	71.55
917		20786	0.0084	989.54	1,156.53	72.36
918		20790	0.0098	989.69	1,156.53	72.29
919		20792	0.0113	991.58	1,156.84	71.61
920		20804	0.0016	994.31	1,157.87	70.87
921		20806	0.0016	993.40	1,157.76	71.22
922		20808	0.0051	993.33	1,157.75	71.24
923		20810	0.0052	992.72	1,157.46	71.38
924		20814	0.0066	992.88	1,157.46	71.31

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
925		20816	0.0057	992.23	1,157.39	71.56
926		20818	0.0096	985.00	1,157.39	74.70
927		20820	0.0054	990.15	1,157.23	72.40
928		20832	0.0096	986.62	1,156.46	73.59
929		20864	0.0101	985.47	1,157.00	74.32
930		20870	0.0106	995.00	1,156.90	70.15
931		20898	0.0085	995.00	1,156.48	69.97
932		20902	0.0093	987.99	1,156.53	73.03
933		20916	0.0096	985.00	1,156.53	74.32
934		20918	0.0065	988.10	1,156.48	72.96
935		20920	0.0081	987.52	1,156.48	73.21
936		20922	0.0051	987.11	1,156.46	73.38
937		20932	0.0121	988.59	1,157.12	73.02
938		20934	0.0052	987.66	1,157.00	73.37
939		20994	0.0093	984.49	1,156.33	74.46
940		20996	0.0091	984.43	1,156.73	74.66
941		20998	0.0030	985.27	1,156.81	74.33
942		21000	0.0086	985.66	1,156.38	73.97
943		21002	0.0064	986.13	1,156.38	73.77
944		21004	0.0053	985.20	1,156.33	74.15
945		21006	0.0069	985.18	1,156.38	74.18
946		21010	0.0090	985.50	1,156.81	74.23
947		21012	0.0059	983.13	1,156.65	75.19
948		21014	0.0213	986.42	1,156.80	73.83
949		21016	0.0209	975.00	1,156.72	78.74
950		21018	0.0101	975.00	1,156.65	78.71
951		21024	0.0114	976.27	1,156.34	78.02
952		21108	0.0096	981.67	1,156.17	75.61
953		21112	0.0088	983.82	1,156.18	74.69
954		21114	0.0053	983.41	1,156.20	74.87
955		21116	0.0055	982.74	1,156.16	75.14
956		21120	0.0069	984.45	1,156.20	74.42
957		21122	0.0079	983.29	1,156.17	74.91

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
958		21124	0.0057	982.05	1,156.17	75.45
959		21128	0.0051	978.68	1,156.18	76.91
960		21130	0.0091	981.14	1,156.18	75.84
961		21132	0.0059	982.56	1,156.18	75.23
962		21136	0.0036	975.00	1,156.47	78.63
963		21138	0.0105	981.31	1,156.57	75.94
964		21140	0.0148	980.04	1,156.51	76.46
965		21142	0.0087	978.81	1,156.47	76.98
966		21144	0.0131	978.69	1,156.47	77.03
967		21146	0.0229	980.05	1,156.50	76.46
968		21148	0.0110	981.40	1,156.56	75.90
969		21150	0.0322	975.00	1,156.61	78.69
970		21154	0.0044	985.00	1,156.19	74.18
971		21156	0.0027	981.04	1,156.19	75.89
972		21162	0.0049	978.68	1,156.18	76.91
973		21174	0.0050	981.55	1,156.18	75.67
974		21178	0.0044	975.00	1,156.18	78.51
975		21196	0.0060	985.00	1,156.43	74.28
976		21206	0.0062	985.00	1,156.40	74.27
977		21210	0.0061	976.33	1,156.37	78.01
978		21218	0.0037	985.00	1,156.38	74.26
979		21222	0.0045	974.86	1,156.35	78.64
980		21250	0.0027	981.99	1,156.18	75.48
981		21252	0.0072	980.48	1,156.18	76.13
982		21254	0.0026	981.40	1,156.18	75.73
983		21256	0.0060	979.91	1,156.18	76.38
984		21258	0.0008	985.00	1,156.18	74.17
985		21262	0.0002	985.00	1,156.43	74.28
986		21264	0.0078	978.17	1,156.43	77.24
987		21266	0.0075	977.25	1,156.40	77.63
988		21268	0.0369	976.75	1,156.42	77.85
989		21270	0.0094	975.09	1,156.40	78.56
990		21272	0.0033	975.90	1,156.38	78.20

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
991		21274	0.0053	985.00	1,156.38	74.26
992		21276	0.0015	975.47	1,156.35	78.38
993		21278	0.0067	985.00	1,156.35	74.25
994		21280	0.0093	973.45	1,156.37	79.26
995		21282	0.0502	975.28	1,156.33	78.45
996		21284	0.0130	974.78	1,156.31	78.66
997		21286	0.0061	974.75	1,156.31	78.67
998		21288	0.0069	975.57	1,156.31	78.31
999		21290	0.0069	973.83	1,156.30	79.07
1000		21294	0.0054	978.26	1,156.20	77.10
1001		21298	0.0044	979.69	1,156.19	76.48
1002		21302	0.0035	977.76	1,156.19	77.31
1003		21308	0.0055	979.20	1,156.19	76.69
1004		21312	0.0050	978.43	1,156.19	77.02
1005		21318	0.0046	976.86	1,156.20	77.71
1006		21322	0.0044	978.77	1,156.19	76.88
1007		21328	0.0056	977.77	1,156.20	77.31
1008		21336	0.0044	977.69	1,156.21	77.35
1009		21344	0.0050	985.00	1,156.21	74.18
1010		21348	0.0054	974.68	1,156.31	78.70
1011		21358	0.0042	975.40	1,156.31	78.39
1012		21364	0.0110	976.94	1,156.22	77.68
1013		21366	0.0180	985.00	1,156.20	74.18
1014		21368	0.0293	976.93	1,156.19	77.68
1015		21370	0.0187	980.07	1,156.18	76.31
1016		21372	0.0203	979.10	1,156.19	76.73
1017		21374	0.0029	977.21	1,156.19	77.55
1018		21376	0.0017	976.40	1,156.20	77.91
1019		21392	0.0059	974.45	1,156.30	78.80
1020		21406	0.0043	935.00	1,156.28	95.88
1021		21410	0.0019	947.14	1,156.64	90.78
1022		21414	0.0076	942.65	1,156.69	92.74
1023		21438	0.0022	945.61	1,156.32	91.30

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1024		21444	0.0015	925.00	1,156.81	100.44
1025		21450	0.0052	945.49	1,156.50	91.43
1026		21454	0.0048	944.02	1,156.57	92.10
1027		21458	0.0095	945.00	1,157.23	91.96
1028		21468	0.0092	942.83	1,156.30	92.50
1029		21474	0.0035	935.00	1,156.37	95.92
1030		21494	0.0053	935.00	1,156.42	95.94
1031		21498	0.0127	945.00	1,156.30	91.56
1032		21500	0.0100	937.69	1,156.30	94.72
1033		21502	0.0206	939.91	1,156.30	93.76
1034		21508	0.0023	943.40	1,156.30	92.25
1035		21522	0.0093	946.50	1,156.63	91.05
1036		21524	0.0087	943.16	1,156.65	92.50
1037		21546	0.0048	946.07	1,156.64	91.24
1038		21566	0.0305	942.53	1,156.63	92.77
1039		21590	0.0040	942.38	1,156.24	92.66
1040		21592	0.0097	939.03	1,156.23	94.11
1041		21618	0.0016	944.75	1,156.37	91.69
1042		21630	0.1389	917.98	1,090.61	74.80
1043		21636	0.0528	917.59	1,090.68	75.00
1044		2166	0.0179	970.17	1,157.99	81.38
1045		21662	0.0223	985.59	1,151.94	72.08
1046		21710	0.0278	985.23	1,152.09	72.30
1047		21726	0.0140	985.80	1,152.04	72.03
1048		21730	0.0117	984.96	1,152.04	72.40
1049		2174	0.0520	973.16	1,157.96	80.08
1050		21742	0.0141	986.93	1,151.99	71.52
1051		21746	0.0101	986.02	1,151.99	71.92
1052		21750	0.0236	984.57	1,151.92	72.51
1053		21758	0.0090	986.89	1,151.95	71.52
1054		21768	0.0737	989.84	1,151.13	69.89
1055		21770	0.0905	991.05	1,151.08	69.34
1056		21776	0.1244	995.00	1,151.95	68.00

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1057		21784	0.0069	985.48	1,152.09	72.19
1058		21786	0.0109	984.74	1,152.13	72.53
1059		21794	0.0312	989.92	1,151.18	69.87
1060		21798	0.0173	989.07	1,151.18	70.24
1061		21814	0.0267	987.84	1,152.14	71.19
1062		21816	0.0284	995.00	1,152.13	68.08
1063		21824	0.0126	984.52	1,152.19	72.65
1064		21826	0.0128	995.00	1,152.37	68.19
1065		21834	0.0317	988.06	1,152.12	71.09
1066		21872	0.0045	972.05	1,152.43	78.16
1067		21876	0.0020	972.81	1,152.43	77.83
1068		2188	0.0362	972.30	1,157.96	80.44
1069		21880	0.0023	974.16	1,152.43	77.25
1070		21884	0.0022	973.75	1,152.45	77.43
1071		21888	0.0073	975.05	1,152.47	76.88
1072		21892	0.0017	974.61	1,152.30	76.99
1073		21896	0.0033	973.17	1,152.25	77.59
1074		21900	0.0038	973.17	1,152.25	77.59
1075		21902	0.0047	972.40	1,152.23	77.92
1076		21906	0.0017	971.94	1,152.38	78.18
1077		21910	0.0041	968.49	1,153.41	80.13
1078		21918	0.0040	968.07	1,153.81	80.48
1079		21926	0.0025	969.35	1,153.18	79.65
1080		21930	0.0042	971.12	1,153.46	79.01
1081		21934	0.0023	971.54	1,153.47	78.83
1082		21938	0.0045	970.91	1,153.54	79.13
1083		21942	0.0028	969.29	1,153.69	79.90
1084		21944	0.0051	968.27	1,153.22	80.14
1085		21972	0.0127	965.05	1,153.24	81.54
1086		21988	0.0131	964.87	1,153.09	81.56
1087		21990	0.0052	964.90	1,153.09	81.54
1088		21996	0.0037	975.00	1,153.09	77.16
1089		22000	0.0031	964.09	1,153.24	81.96

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1090		22002	0.0028	963.79	1,153.25	82.09
1091		22030	0.0011	974.93	1,152.66	77.01
1092		22052	0.0027	974.92	1,152.66	77.02
1093		2206	0.0268	973.06	1,158.21	80.23
1094		22066	0.0035	973.93	1,152.44	77.35
1095		22068	0.0029	974.30	1,152.43	77.18
1096		22070	0.0033	973.84	1,152.45	77.39
1097		22074	0.0221	974.50	1,152.28	77.03
1098		22078	0.0064	974.63	1,152.32	76.99
1099		22082	0.0022	975.14	1,152.55	76.87
1100		22084	0.0035	974.93	1,152.66	77.01
1101		22086	0.0041	973.51	1,152.25	77.45
1102		22096	0.0031	971.91	1,152.36	78.19
1103		22098	0.0017	971.99	1,152.43	78.18
1104		22100	0.0035	973.19	1,152.43	77.67
1105		22102	0.0038	965.00	1,152.43	81.21
1106		22104	0.0047	970.63	1,152.56	78.83
1107		22106	0.0081	970.50	1,152.65	78.93
1108		22116	0.0038	969.34	1,153.22	79.67
1109		22118	0.0080	969.07	1,153.02	79.70
1110		22120	0.0057	970.02	1,153.44	79.48
1111		22126	0.0016	971.44	1,153.47	78.87
1112		22128	0.0058	972.02	1,153.49	78.63
1113		22132	0.0055	969.66	1,154.23	79.97
1114		22134	0.0017	968.96	1,154.01	80.19
1115		22138	0.0031	967.59	1,153.69	80.64
1116		22140	0.0062	967.48	1,153.67	80.68
1117		22150	0.0031	968.81	1,153.56	80.05
1118		22152	0.0509	945.00	1,153.35	90.28
1119		22156	0.0097	958.84	1,153.46	84.33
1120		2216	0.0138	978.12	1,158.13	78.00
1121		22170	0.0162	960.40	1,153.55	83.69
1122		22176	0.0052	959.19	1,153.41	84.16

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1123		22178	0.0127	960.49	1,153.34	83.56
1124		22186	0.0076	955.20	1,153.35	85.86
1125		22196	0.0133	956.48	1,153.30	85.28
1126		22204	0.0803	955.25	1,153.29	85.81
1127		2224	0.0110	978.30	1,158.13	77.92
1128		22244	0.0103	956.81	1,153.35	85.16
1129		22268	0.0117	961.03	1,153.41	83.36
1130		22274	0.0084	965.00	1,153.37	81.62
1131		22300	0.0045	965.00	1,153.35	81.61
1132		22312	0.0135	960.72	1,153.89	83.70
1133		22318	0.0093	959.98	1,153.88	84.02
1134		22326	0.0100	959.68	1,153.94	84.17
1135		22334	0.0065	962.01	1,153.69	83.06
1136		22338	0.0100	962.28	1,153.48	82.85
1137		2236	0.0271	975.00	1,158.13	79.35
1138		22364	0.0084	965.00	1,154.28	82.02
1139		22368	0.0082	959.87	1,153.89	84.07
1140		22404	0.0267	954.52	1,153.68	86.30
1141		2242	0.0116	978.93	1,158.14	77.65
1142		22458	0.2058	972.85	1,154.82	78.85
1143		22524	0.0116	962.39	1,153.32	82.73
1144		22526	0.1270	954.41	1,153.55	86.29
1145		22540	0.3934	972.08	1,154.49	79.04
1146		22550	0.0018	974.59	1,158.65	79.75
1147		22554	0.0197	973.01	1,158.65	80.44
1148		22558	0.0009	974.54	1,158.65	79.77
1149		22580	0.6378	985.28	1,152.45	72.43
1150		22592	0.3518	984.94	1,152.44	72.58
1151		22602	0.0000	1,025.00	1,104.65	34.51
1152		22608	0.0023	986.71	1,153.69	72.35
1153		22616	0.0000	958.65	1,100.00	61.25
1154		22622	0.0127	977.02	1,153.29	76.38
1155		22624	0.0000	976.94	1,153.29	76.41

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1156		22628	0.0000	985.00	1,153.48	73.00
1157		22640	0.0143	965.00	1,156.80	83.11
1158		22646	0.0000	924.00	1,099.04	75.84
1159		22648	0.7442	1,005.00	1,160.02	67.17
1160		22650	0.7289	998.22	1,160.11	70.15
1161		22652	0.0000	999.88	1,163.87	71.06
1162		22654	0.0000	1,003.17	1,161.43	68.58
1163		22656	0.2541	1,015.00	1,161.97	63.68
1164		22658	0.0667	1,004.12	1,161.72	68.29
1165		22660	0.1124	1,002.70	1,161.62	68.86
1166		22662	0.2635	1,003.05	1,161.50	68.66
1167		22664	0.2062	995.76	1,161.48	71.81
1168		22666	0.3032	980.03	1,161.52	78.64
1169		22668	0.4585	973.83	1,161.63	81.38
1170		22670	0.0000	965.00	1,161.84	85.29
1171		22672	0.3273	985.00	1,162.04	76.71
1172		22674	0.3970	963.20	1,161.55	85.94
1173		22676	0.3086	957.57	1,162.13	88.64
1174		22678	0.0000	944.71	1,162.10	94.20
1175		22680	0.0000	943.52	1,162.24	94.77
1176		22682	0.2806	940.43	1,162.72	96.32
1177		22684	0.3251	927.49	1,084.66	68.10
1178		22686	0.4700	924.94	1,084.81	69.27
1179		22688	0.5422	915.00	1,085.71	73.97
1180		22690	0.3009	926.25	1,085.67	69.08
1181		22692	0.2782	943.73	1,085.77	61.55
1182		22694	0.0861	934.63	1,086.38	65.75
1183		22696	0.2861	927.51	1,086.95	69.09
1184		22698	0.5182	988.61	1,162.49	75.34
1185		22706	0.0000	992.93	1,164.45	74.32
1186		22708	0.0000	1,000.36	1,165.00	71.34
1187		22710	0.2567	985.00	1,165.02	78.00
1188		22720	1.3252	966.90	1,151.45	79.97

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1189		22724	0.0047	972.26	1,156.18	79.69
1190		22726	0.0121	965.00	1,156.09	82.80
1191		22728	0.0084	973.51	1,156.09	79.11
1192		22730	0.0194	974.69	1,155.89	78.51
1193		22732	0.0094	974.65	1,155.73	78.46
1194		22734	0.0138	966.93	1,156.45	82.12
1195		22736	0.0079	967.58	1,156.51	81.86
1196		22738	0.0186	964.14	1,156.38	83.29
1197		22740	0.0262	964.75	1,156.32	83.01
1198		22742	0.0060	970.89	1,156.23	80.31
1199		22744	0.0032	971.71	1,156.15	79.92
1200		22746	0.0095	970.79	1,156.11	80.30
1201		22748	0.0112	971.57	1,155.99	79.91
1202		22750	0.0149	969.04	1,156.30	81.14
1203		22752	0.0088	968.36	1,156.28	81.43
1204		22754	0.0123	966.83	1,156.29	82.10
1205		22756	0.0112	966.35	1,156.82	82.53
1206		22760	0.0139	967.20	1,156.75	82.13
1207		22762	0.0095	969.79	1,156.30	80.82
1208		22764	0.0204	970.96	1,156.24	80.28
1209		22766	0.0021	970.90	1,156.23	80.30
1210		22768	0.0124	975.00	1,156.24	78.53
1211		22770	0.0086	966.51	1,156.75	82.43
1212		22772	0.0123	975.00	1,156.30	78.56
1213		22774	0.0139	965.00	1,155.76	82.66
1214		22776	0.0084	965.00	1,155.67	82.62
1215		22778	0.0082	973.96	1,155.65	78.73
1216		22780	0.0092	973.56	1,155.64	78.89
1217		22782	0.0104	973.76	1,155.45	78.73
1218		22784	0.0062	973.59	1,155.64	78.88
1219		22786	0.0018	971.48	1,155.67	79.81
1220		22788	0.0072	972.21	1,155.24	79.31
1221		22790	0.0087	971.41	1,155.24	79.65

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1222		22792	0.0064	970.88	1,154.86	79.72
1223		22794	0.0170	968.64	1,156.06	81.21
1224		22796	0.0091	967.65	1,155.69	81.48
1225		22798	0.0127	970.02	1,155.00	80.16
1226		22800	0.0097	964.36	1,156.29	83.16
1227		22802	0.0061	967.24	1,156.28	81.91
1228		22804	0.0148	965.66	1,157.67	83.20
1229		22806	0.0000	989.51	1,160.35	74.02
1230		22808	0.0000	952.38	1,152.51	86.72
1231		22810	0.3391	966.86	1,160.44	83.88
1232		22812	1.4665	1,009.44	1,159.72	65.12
1233		22816	0.6303	1,004.80	1,162.58	68.37
1234		22818	0.0000	910.25	1,084.33	75.43
1235		22820	0.9915	904.72	1,085.03	78.13
1236		22822	0.3061	930.00	1,086.23	67.69
1237		22824	0.0000	895.00	1,086.40	82.93
1238		22826	0.0000	896.24	1,084.22	81.45
1239		22828	0.0000	905.00	1,085.04	78.01
1240		22830	0.0000	905.00	1,085.20	78.08
1241		22832	0.0000	905.00	1,086.01	78.43
1242		22834	1.3809	911.57	1,084.32	74.85
1243		22836	0.0000	955.00	1,162.47	89.90
1244		22838	0.2075	965.00	1,162.55	85.60
1245		22840	0.0000	952.48	1,162.99	91.21
1246		22842	0.3997	995.00	1,161.78	72.27
1247		22850	0.1294	938.92	1,162.04	96.68
1248		22854	0.0704	910.03	1,088.37	77.27
1249		2286	0.0155	980.63	1,158.12	76.91
1250		22860	0.0000	965.00	1,098.51	57.85
1251		22862	0.0000	964.22	1,151.82	81.29
1252		22864	0.0679	911.35	1,088.40	76.71
1253		22876	0.0000	1,025.00	1,160.07	58.52
1254		22890	0.1172	996.52	1,154.88	68.62

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1255		2290	0.0107	982.88	1,158.12	75.93
1256		22900	0.0421	995.00	1,162.63	72.63
1257		22902	0.0054	1,000.89	1,151.17	65.11
1258		22904	0.0736	1,027.95	1,262.30	101.54
1259		22906	0.0006	949.64	1,156.33	89.56
1260		22908	0.0452	952.46	1,151.37	86.19
1261		22910	0.0033	953.02	1,151.37	85.95
1262		22912	0.8897	1,143.56	1,359.69	93.65
1263		22914	1.6058	1,155.66	1,355.68	86.67
1264		22916	1.5251	1,163.12	1,364.28	87.16
1265		22918	0.6277	1,160.00	1,357.54	85.59
1266		22920	0.5077	1,185.57	1,354.03	72.99
1267		22922	1.0739	1,184.28	1,356.46	74.61
1268		22924	0.8416	1,184.97	1,355.32	73.81
1269		22926	0.9067	1,206.26	1,349.38	62.02
1270		22928	0.6118	1,229.20	1,348.10	51.52
1271		22930	1.2540	1,215.00	1,349.00	58.06
1272		22932	0.5096	1,197.03	1,349.21	65.94
1273		22934	0.2217	1,197.91	1,348.91	65.43
1274		22936	0.5194	1,219.30	1,348.59	56.02
1275		22938	0.1947	1,244.20	1,348.07	45.01
1276		22940	0.2380	1,196.55	1,350.75	66.82
1277		22942	0.0242	1,187.34	1,353.59	72.04
1278		22944	0.7468	1,165.00	1,354.01	81.90
1279		22946	0.4048	1,170.00	1,357.09	81.07
1280		22948	0.7730	1,159.88	1,357.26	85.52
1281		22950	0.2499	1,170.72	1,350.67	77.97
1282		22952	0.8489	1,188.08	1,349.61	69.99
1283		22954	0.1162	1,243.80	1,348.12	45.20
1284		22956	0.3753	1,195.00	1,349.04	66.75
1285		22958	0.0000	1,190.00	1,348.97	68.88
1286		22960	0.6698	1,162.24	1,349.56	81.17
1287		22962	0.1034	1,167.74	1,349.55	78.78

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1288		22964	0.0000	1,163.54	1,349.56	80.60
1289		22968	0.0179	1,139.19	1,363.96	97.39
1290		22970	0.7231	1,156.80	1,361.49	88.69
1291		22972	0.3485	1,160.91	1,361.69	87.00
1292		22974	0.0487	1,145.55	1,362.28	93.91
1293		22980	0.0308	1,141.78	1,362.72	95.73
1294		22982	0.3615	1,158.98	1,361.67	87.82
1295		22984	0.4727	1,136.80	1,257.36	52.24
1296		22986	0.2796	1,125.00	1,257.42	57.38
1297		22988	0.0710	1,153.86	1,362.24	90.29
1298		22990	0.4680	1,175.75	1,361.73	80.59
1299		22992	0.3413	1,169.55	1,361.70	83.26
1300		22994	0.0407	1,145.00	1,362.22	94.12
1301		22996	0.5107	1,147.06	1,261.38	49.54
1302		22998	0.2584	1,142.73	1,257.71	49.82
1303		23000	0.6015	1,148.13	1,259.13	48.09
1304		23002	0.0549	1,169.63	1,363.28	83.91
1305		23004	0.3780	1,193.37	1,362.20	73.15
1306		23006	0.3752	1,175.00	1,361.93	80.99
1307		23008	0.0560	1,158.82	1,362.50	88.25
1308		23010	0.3239	1,155.98	1,263.78	46.71
1309		23014	0.1458	1,161.88	1,364.22	87.67
1310		23016	0.2014	1,177.95	1,363.62	80.45
1311		23018	0.3741	1,206.50	1,362.35	67.53
1312		23020	0.4736	1,187.28	1,364.14	76.63
1313		23022	0.1901	1,217.75	1,362.35	62.66
1314		23024	0.4013	1,170.49	1,362.32	83.12
1315		23026	0.3064	1,177.63	1,361.23	79.55
1316		23028	0.3079	1,205.03	1,360.67	67.44
1317		23030	0.1618	1,238.49	1,360.55	52.89
1318		23032	0.1852	1,227.13	1,361.54	58.24
1319		23034	0.3510	1,199.07	1,361.81	70.52
1320		23036	0.4011	1,201.41	1,358.15	67.91

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1321		23038	0.4176	1,186.94	1,358.86	74.49
1322		2304	0.0212	985.00	1,158.20	75.05
1323		23040	0.3442	1,233.26	1,358.13	54.11
1324		23042	0.1913	1,253.77	1,358.13	45.22
1325		23044	0.1861	1,250.38	1,358.84	47.00
1326		23046	0.3601	1,214.74	1,358.83	62.43
1327		23048	0.0000	1,254.02	1,360.50	46.14
1328		23052	0.0001	1,227.33	1,360.53	57.71
1329		23054	0.1824	1,205.09	1,360.83	67.48
1330		2306	0.0512	976.20	1,158.26	78.89
1331		23064	0.3939	1,212.25	1,360.82	64.38
1332		23066	0.3675	1,200.63	1,360.93	69.46
1333		23068	0.2964	1,219.98	1,360.40	60.84
1334		23070	0.0048	1,243.09	1,360.38	50.82
1335		23072	0.0000	1,248.49	1,360.47	48.52
1336		23074	0.1121	1,230.00	1,360.49	56.54
1337		23076	0.3559	1,184.84	1,360.38	76.07
1338		23078	0.2464	1,165.32	1,360.21	84.45
1339		23080	0.3823	1,175.00	1,359.95	80.14
1340		23082	0.2243	1,193.44	1,359.94	72.14
1341		23084	0.1253	1,221.59	1,360.09	60.01
1342		23086	0.3475	1,221.74	1,360.10	59.95
1343		23088	0.3787	1,100.11	1,259.11	68.89
1344		23090	0.4054	1,106.47	1,258.11	65.71
1345		23092	0.4015	1,125.26	1,256.92	57.05
1346		23094	0.3127	1,145.00	1,257.02	48.54
1347		23096	0.1712	1,155.00	1,257.03	44.21
1348		23098	0.0000	1,127.29	1,257.82	56.56
1349		23100	0.2379	1,128.34	1,258.49	56.39
1350		23102	0.3323	1,112.27	1,258.90	63.53
1351		23104	0.4375	1,112.67	1,257.82	62.89
1352		23106	0.3902	1,090.00	1,259.39	73.40
1353		23108	0.3897	1,085.16	1,259.20	75.41

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1354		23110	0.8994	1,084.77	1,259.24	75.60
1355		23112	0.7738	1,075.06	1,260.03	80.15
1356		23114	0.4084	1,076.94	1,263.72	80.93
1357		23116	0.2886	1,089.74	1,260.66	74.06
1358		23118	0.5591	1,104.09	1,259.29	67.25
1359		2312	0.0184	975.90	1,158.27	79.02
1360		23120	0.4968	1,075.00	1,259.08	79.76
1361		23122	0.3046	1,080.00	1,259.18	77.64
1362		23124	0.4362	1,113.63	1,259.06	63.01
1363		23126	0.3851	1,118.92	1,259.91	61.09
1364		23128	0.1873	1,132.92	1,259.00	54.63
1365		23130	0.2871	1,111.55	1,256.66	62.88
1366		23132	0.3032	1,105.00	1,258.81	66.65
1367		23134	0.3924	1,095.00	1,256.65	70.04
1368		23136	0.2668	1,095.00	1,259.28	71.18
1369		23138	0.4467	1,060.00	1,257.90	85.75
1370		23140	0.6145	1,070.00	1,258.34	81.61
1371		23142	0.1989	1,136.90	1,259.83	53.26
1372		23162	0.1885	1,124.72	1,259.90	58.58
1373		23164	0.3545	1,127.68	1,259.83	57.26
1374		23166	0.3115	1,132.27	1,258.67	54.77
1375		23168	0.2073	1,112.46	1,259.69	63.80
1376		23170	0.1415	1,100.00	1,259.42	69.08
1377		23172	0.3513	1,114.53	1,262.00	63.90
1378		23174	0.1863	1,129.36	1,261.23	57.14
1379		23176	0.1250	1,127.84	1,261.40	57.87
1380		23178	0.1430	1,113.94	1,264.65	65.30
1381		23180	0.3746	1,116.95	1,260.60	62.24
1382		23182	0.1934	1,138.15	1,260.47	53.00
1383		23184	0.7130	1,126.68	1,257.11	56.51
1384		23186	0.4021	1,117.08	1,256.78	60.53
1385		23188	0.3652	1,107.56	1,256.77	64.65
1386		23190	0.2706	1,119.62	1,257.07	59.56

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1387		23192	0.1938	1,129.01	1,257.51	55.68
1388		23194	0.2502	1,113.61	1,254.35	60.99
1389		23196	0.3172	1,096.36	1,248.00	65.71
1390		23198	0.3691	1,119.56	1,256.75	59.44
1391		23200	0.5076	1,117.69	1,256.73	60.25
1392		23202	0.2205	1,110.00	1,256.65	63.54
1393		23204	0.3283	1,108.57	1,256.63	64.16
1394		23206	0.2091	1,105.33	1,254.35	64.57
1395		23208	0.0853	1,115.35	1,257.32	61.52
1396		23210	0.2456	1,145.00	1,258.06	48.99
1397		23212	0.1188	1,133.24	1,259.24	54.60
1398		23214	0.4983	1,122.92	1,256.16	57.73
1399		23216	0.1180	1,124.51	1,258.08	57.88
1400		23218	0.5982	1,063.55	1,245.54	78.86
1401		23220	0.2820	1,076.09	1,251.68	76.08
1402		23222	0.3669	1,105.00	1,252.58	63.95
1403		23224	0.6315	1,095.00	1,241.58	63.52
1404		23226	2.4461	1,108.78	1,238.45	56.19
1405		23228	0.7239	1,090.46	1,237.84	63.86
1406		23230	0.7096	1,080.37	1,240.33	69.31
1407		23232	0.4408	1,059.96	1,254.79	84.42
1408		23234	0.1648	1,035.00	1,247.42	92.04
1409		23236	0.7434	1,048.05	1,250.06	87.53
1410		23238	0.2429	1,054.09	1,247.89	83.97
1411		23240	0.3342	1,092.20	1,249.95	68.35
1412		23242	0.5337	1,130.82	1,254.41	53.55
1413		23244	0.6468	1,111.21	1,254.55	62.11
1414		23246	0.7965	1,102.64	1,250.72	64.16
1415		23248	0.3802	1,087.50	1,249.95	70.39
1416		23250	0.1325	1,078.65	1,250.10	74.29
1417		23252	0.2324	1,072.81	1,250.70	77.08
1418		23254	0.6692	1,064.77	1,253.23	81.66
1419		23256	0.6394	1,085.00	1,255.05	73.68

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1420		23258	0.4090	1,085.00	1,257.82	74.88
1421		23260	0.3149	1,075.00	1,249.99	75.82
1422		23264	0.1451	1,055.00	1,254.89	86.61
1423		23266	0.3682	1,070.00	1,255.03	80.17
1424		23268	0.1152	1,060.00	1,254.80	84.41
1425		23270	0.4498	1,066.55	1,248.93	79.03
1426		23272	0.3422	1,046.95	1,247.48	86.89
1427		23274	0.5049	1,055.00	1,249.15	84.13
1428		23276	1.4086	1,053.75	1,240.70	81.01
1429		23278	0.0093	1,045.45	1,240.67	84.59
1430		23280	0.6725	1,036.33	1,233.37	85.38
1431		23282	0.4484	1,037.35	1,233.16	84.85
1432		23284	0.7417	1,058.04	1,232.73	75.69
1433		23286	1.0276	1,085.00	1,232.86	64.07
1434		23288	1.0346	1,078.98	1,232.92	66.70
1435		23290	0.5123	1,080.62	1,234.55	66.70
1436		23292	1.1646	1,069.12	1,236.80	72.66
1437		23294	1.2305	1,057.14	1,232.15	75.83
1438		23296	1.5472	1,046.49	1,231.24	80.05
1439		23298	0.8743	1,083.18	1,233.68	65.21
1440		23300	1.3890	1,085.34	1,234.77	64.75
1441		23302	0.9314	1,090.57	1,235.88	62.96
1442		23304	1.0919	1,095.42	1,237.46	61.55
1443		23306	0.3025	1,089.50	1,238.42	64.53
1444		23308	0.5076	1,072.43	1,240.45	72.80
1445		23310	0.7066	1,059.16	1,242.74	79.55
1446		23312	0.5793	1,061.14	1,249.41	81.58
1447		23314	0.1628	1,064.68	1,257.41	83.51
1448		23316	0.0181	1,062.27	1,258.02	84.82
1449		23318	0.1965	1,064.80	1,259.31	84.28
1450		23320	0.1829	1,088.02	1,261.41	75.13
1451		23322	0.1024	1,065.00	1,253.31	81.60
1452		23324	0.1440	1,095.00	1,246.81	65.78

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1453		23326	0.3522	1,089.94	1,244.60	67.02
1454		23328	0.4112	1,100.12	1,242.61	61.74
1455		23330	0.1914	1,100.25	1,241.32	61.13
1456		23332	0.2444	1,103.21	1,239.56	59.08
1457		23334	0.2142	1,105.43	1,238.77	57.78
1458		23336	0.7679	1,105.17	1,238.24	57.66
1459		23338	0.4766	1,071.76	1,241.62	73.60
1460		23340	0.2817	1,109.74	1,255.08	62.98
1461		23342	0.1602	1,105.66	1,248.72	61.99
1462		23344	0.2547	1,106.91	1,246.55	60.50
1463		23346	0.1430	1,029.60	1,257.45	98.72
1464		23348	0.3451	1,024.97	1,258.82	101.33
1465		23350	0.5148	1,034.95	1,260.50	97.73
1466		23352	0.7611	1,042.64	1,256.00	92.45
1467		23354	0.3683	1,055.00	1,248.18	83.70
1468		23356	0.1705	1,059.69	1,241.79	78.90
1469		23358	0.2473	1,095.06	1,238.28	62.06
1470		2336	0.0126	976.25	1,158.27	78.87
1471		23360	0.2519	1,075.00	1,237.49	70.41
1472		23362	0.4046	1,069.17	1,235.61	72.12
1473		23364	0.5775	1,063.24	1,234.49	74.21
1474		23366	0.8181	1,060.51	1,233.12	74.79
1475		23368	1.8329	1,098.10	1,232.88	58.40
1476		23370	0.3351	1,066.55	1,240.72	75.47
1477		23372	0.4607	1,041.23	1,254.41	92.37
1478		23374	0.2669	950.00	1,159.17	90.64
1479		23376	0.5826	974.71	1,159.57	80.10
1480		23378	0.6492	1,009.61	1,159.42	64.91
1481		2338	0.0124	975.52	1,158.29	79.19
1482		23380	0.3450	1,030.00	1,160.77	56.66
1483		23382	0.2783	1,026.63	1,165.74	60.28
1484		23384	0.4768	1,015.00	1,169.55	66.97
1485		23386	0.4240	1,005.29	1,168.99	70.93

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1486		23388	0.3961	992.82	1,169.78	76.68
1487		23390	0.1931	977.83	1,165.61	81.36
1488		23392	0.3675	975.53	1,162.94	81.21
1489		23394	0.8733	993.86	1,161.71	72.73
1490		23396	0.5252	1,009.99	1,162.20	65.95
1491		23398	0.2019	1,018.84	1,164.63	63.17
1492		23400	0.4899	1,009.29	1,164.54	67.27
1493		23402	0.5071	992.01	1,164.24	74.63
1494		23404	0.2996	974.80	1,164.34	82.13
1495		23406	0.5325	985.00	1,165.38	78.16
1496		23408	0.0960	965.00	1,159.62	84.33
1497		23410	1.2486	1,028.06	1,160.39	57.34
1498		23412	1.6317	1,044.96	1,152.74	46.70
1499		23414	0.5835	1,030.08	1,156.00	54.56
1500		23416	1.0460	1,026.50	1,164.43	59.76
1501		23418	0.4022	1,040.68	1,164.70	53.74
1502		23420	0.6224	1,024.68	1,152.57	55.42
1503		23422	0.4866	1,016.45	1,153.72	59.48
1504		23424	0.5704	1,010.00	1,170.93	69.73
1505		23426	0.1650	1,025.19	1,167.25	61.55
1506		23428	0.2079	1,003.04	1,164.20	69.83
1507		23430	0.1153	984.34	1,162.16	77.05
1508		23432	0.2862	983.87	1,164.56	78.29
1509		23434	0.2768	971.59	1,164.17	83.45
1510		23436	0.1390	965.76	1,164.18	85.97
1511		23438	0.4075	1,028.54	1,162.76	58.15
1512		2344	0.0176	985.00	1,158.18	75.04
1513		23440	0.2074	1,047.54	1,162.78	49.93
1514		23442	0.0934	1,044.37	1,165.18	52.35
1515		23444	0.2946	1,037.08	1,165.24	55.53
1516		23446	0.7143	985.00	1,159.41	75.57
1517		23448	0.4955	1,005.03	1,157.76	66.18
1518		23450	0.6966	980.00	1,157.76	77.02

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1519		23452	0.5773	997.48	1,157.87	69.50
1520		23454	0.7229	1,011.39	1,158.13	63.58
1521		23456	0.0000	1,028.65	1,159.20	56.57
1522		23458	0.3620	1,038.57	1,170.71	57.26
1523		23460	0.0936	1,050.57	1,170.80	52.10
1524		23462	0.3522	1,044.55	1,171.55	55.03
1525		23464	0.1405	1,045.00	1,172.73	55.35
1526		23466	0.2891	1,035.00	1,173.33	59.94
1527		23468	0.4872	1,015.00	1,174.43	69.08
1528		23470	0.2047	1,018.46	1,171.65	66.38
1529		23472	0.3277	1,032.39	1,171.77	60.39
1530		23474	0.5199	1,015.00	1,170.18	67.24
1531		23476	0.8814	1,016.59	1,172.95	67.75
1532		23478	0.2796	993.60	1,169.05	76.02
1533		23480	0.6188	1,003.20	1,169.69	72.14
1534		23482	0.5654	1,015.07	1,171.67	67.86
1535		23484	0.1372	950.66	1,154.02	88.12
1536		23486	0.0000	954.56	1,154.81	86.77
1537		23488	0.0000	978.61	1,157.25	77.40
1538		23490	0.4004	1,021.86	1,155.29	57.82
1539		23492	0.2487	1,021.86	1,154.87	57.63
1540		23494	0.1883	994.90	1,154.69	69.24
1541		23496	0.1405	962.00	1,154.07	83.23
1542		23498	0.3396	960.00	1,154.09	84.10
1543		2350	0.0170	980.34	1,158.18	77.06
1544		23500	0.4057	981.27	1,154.59	75.10
1545		23502	0.5702	892.55	1,084.30	83.09
1546		23504	0.7402	882.00	1,083.26	87.20
1547		23506	0.3076	886.29	1,081.22	84.46
1548		23508	0.1696	964.56	1,161.22	85.21
1549		23510	0.0534	958.61	1,160.16	87.33
1550		23512	0.1969	992.71	1,169.51	76.61
1551		23514	0.5820	1,033.21	1,160.01	54.94

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1552		23516	0.7500	1,024.67	1,160.03	58.65
1553		23518	1.3940	1,025.00	1,160.23	58.60
1554		2352	0.0173	981.11	1,158.22	76.74
1555		23520	0.6053	958.76	1,161.63	87.90
1556		23522	0.2964	983.23	1,162.18	77.54
1557		23524	0.0000	975.13	1,161.03	80.55
1558		23526	0.4426	979.92	1,160.11	78.08
1559		23528	0.3300	979.59	1,160.09	78.21
1560		23530	0.3684	900.00	1,107.38	89.86
1561		23532	0.5851	895.00	1,101.64	89.54
1562		23534	0.6896	946.66	1,097.16	65.21
1563		23536	0.4280	987.40	1,087.68	43.45
1564		23538	0.3382	969.96	1,090.36	52.17
1565		23540	0.3286	920.00	1,097.15	76.76
1566		23542	0.3456	895.00	1,106.03	91.44
1567		23544	0.2924	900.52	1,105.16	88.67
1568		23548	0.1602	915.00	1,097.13	78.92
1569		23550	0.0738	914.91	1,096.15	78.54
1570		23552	0.3315	905.00	1,091.18	80.67
1571		23554	0.4015	895.00	1,092.28	85.48
1572		23556	0.2986	912.57	1,098.19	80.43
1573		23558	0.3159	915.00	1,100.74	80.48
1574		23560	0.3170	915.00	1,098.29	79.42
1575		23562	0.3357	913.12	1,096.81	79.59
1576		23564	0.0000	920.00	1,102.33	79.00
1577		23566	0.6847	915.00	1,104.74	82.21
1578		23568	0.5505	921.13	1,099.62	77.34
1579		23570	0.3492	926.22	1,098.34	74.58
1580		23572	0.5405	935.83	1,098.23	70.37
1581		23574	0.0000	933.31	1,098.25	71.47
1582		23576	0.0000	921.33	1,098.46	76.75
1583		23578	0.9191	925.00	1,098.72	75.27
1584		23580	0.4228	917.82	1,098.23	78.17

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1585		23582	0.5119	905.00	1,098.57	83.88
1586		23584	0.8008	914.01	1,100.32	80.73
1587		23586	0.0399	965.00	1,098.15	57.70
1588		23588	0.0000	954.47	1,098.06	62.22
1589		23590	0.2567	948.32	1,098.03	64.87
1590		23594	0.0893	935.00	1,093.45	68.66
1591		23596	0.3821	900.91	1,089.24	81.61
1592		23598	0.4926	915.00	1,089.19	75.48
1593		23600	0.4989	907.38	1,088.80	78.61
1594		23602	0.3793	891.58	1,088.96	85.52
1595		23604	0.3955	905.00	1,089.34	79.87
1596		23606	0.1012	902.29	1,092.24	82.30
1597		23608	0.3859	895.70	1,089.40	83.93
1598		23610	0.1112	890.00	1,092.96	87.94
1599		23612	0.1239	890.00	1,092.32	87.67
1600		23614	0.7296	898.30	1,088.79	82.54
1601		23616	0.1518	910.35	1,088.47	77.18
1602		23618	0.0000	1,162.60	1,359.93	85.50
1603		23620	0.2807	1,150.86	1,359.95	90.60
1604		23622	0.0945	1,150.31	1,359.92	90.82
1605		23624	0.1303	1,150.06	1,360.21	91.06
1606		23628	0.2079	1,181.79	1,361.69	77.95
1607		23630	0.3967	1,185.00	1,361.95	76.67
1608		23632	0.3728	1,177.12	1,363.17	80.61
1609		23634	0.2849	1,164.38	1,361.21	85.28
1610		23636	0.1431	1,151.70	1,360.66	90.54
1611		23638	0.1294	1,155.47	1,361.87	89.43
1612		23640	0.2142	1,150.11	1,362.32	91.95
1613		23642	0.1755	1,152.07	1,364.94	92.24
1614		23644	0.1415	1,150.24	1,361.64	91.60
1615		23646	0.0507	1,040.47	1,246.74	89.38
1616		23648	0.1748	1,040.00	1,172.43	57.38
1617		23650	0.4672	1,035.19	1,172.43	59.47

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1618		23652	0.4565	1,035.75	1,171.88	58.98
1619		23654	0.4590	1,040.46	1,170.36	56.28
1620		23656	0.6781	1,038.88	1,167.57	55.76
1621		23658	0.2858	1,050.00	1,167.57	50.94
1622		23660	0.5301	1,062.23	1,166.66	45.25
1623		23662	0.6422	1,042.67	1,167.31	54.01
1624		23664	0.9933	1,018.22	1,171.80	66.54
1625		23666	1.0564	1,015.87	1,173.01	68.09
1626		23668	0.6688	1,035.00	1,167.13	57.25
1627		23670	0.2983	1,063.68	1,166.21	44.43
1628		23672	0.6071	1,002.53	1,168.76	72.03
1629		23674	0.2022	1,014.66	1,158.80	62.46
1630		23676	0.5941	1,008.81	1,161.59	66.20
1631		23678	0.3907	998.68	1,166.42	72.68
1632		23680	0.1779	1,048.94	1,161.10	48.60
1633		23682	0.0282	1,048.71	1,160.69	48.52
1634		23684	0.2584	1,042.23	1,160.23	51.13
1635		23686	0.3770	1,029.28	1,159.75	56.53
1636		23688	0.5216	1,025.31	1,167.36	61.55
1637		23690	0.1834	1,044.06	1,167.44	53.46
1638		23692	0.0632	1,149.26	1,257.00	46.68
1639		23694	0.1639	1,149.39	1,256.92	46.59
1640		23696	0.2662	1,155.00	1,256.49	43.97
1641		23698	0.3317	1,145.41	1,254.94	47.46
1642		23700	0.3709	1,120.00	1,255.04	58.51
1643		23702	0.1012	1,039.67	1,247.89	90.22
1644		23704	0.1763	1,045.10	1,247.96	87.90
1645		23706	0.3859	1,055.00	1,248.05	83.65
1646		23708	0.1853	1,045.86	1,248.08	87.62
1647		23710	0.5341	1,055.00	1,248.35	83.78
1648		23712	0.4126	1,067.47	1,248.00	78.22
1649		23714	0.1790	1,048.60	1,247.91	86.36
1650		23716	0.3494	1,067.56	1,247.85	78.12

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1651		23718	0.1730	1,052.58	1,247.81	84.60
1652		23720	0.2363	1,073.17	1,247.75	75.65
1653		23722	0.1150	1,045.00	1,247.73	87.84
1654		23724	0.2862	1,077.57	1,247.71	73.72
1655		23726	0.1829	1,053.50	1,247.68	84.14
1656		23728	0.3156	1,094.31	1,247.82	66.51
1657		23730	0.2529	1,093.29	1,247.91	67.00
1658		23732	0.3535	1,087.84	1,248.14	69.46
1659		23734	0.4343	1,095.00	1,248.31	66.43
1660		23736	0.4615	1,082.11	1,248.89	72.27
1661		23738	0.4436	1,085.00	1,248.70	70.93
1662		2374	0.0199	980.67	1,158.19	76.92
1663		23742	0.5173	1,069.27	1,248.77	77.78
1664		23744	0.4078	1,101.94	1,249.95	64.13
1665		23746	0.3819	1,105.09	1,250.13	62.85
1666		23748	0.3298	1,107.93	1,249.55	61.36
1667		23750	0.2430	1,112.33	1,249.12	59.27
1668		23752	0.1664	1,125.00	1,248.26	53.41
1669		23754	0.2485	1,117.23	1,248.43	56.85
1670		23756	0.2067	1,148.46	1,264.87	50.44
1671		23758	0.1044	1,148.10	1,253.00	45.45
1672		23760	0.1473	1,132.37	1,251.02	51.41
1673		23762	0.3146	1,127.59	1,250.88	53.42
1674		23764	0.5006	1,105.00	1,251.38	63.43
1675		23766	0.2273	1,143.09	1,256.13	48.98
1676		23768	0.2340	1,145.21	1,256.07	48.04
1677		23770	0.2947	1,135.00	1,251.02	50.27
1678		23772	0.3348	1,124.65	1,251.35	54.90
1679		23774	0.1109	1,147.69	1,255.78	46.83
1680		23776	0.0000	1,080.00	1,258.99	77.56
1681		23778	0.3821	1,093.24	1,255.67	70.38
1682		23780	0.0000	1,141.85	1,256.50	49.68
1683		23782	0.2164	1,141.83	1,260.99	51.63

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1684		23786	0.0000	1,115.00	1,247.36	57.35
1685		23788	0.1329	1,137.30	1,259.48	52.94
1686		23790	0.1498	1,139.83	1,259.32	51.77
1687		23792	0.2236	1,142.84	1,258.66	50.19
1688		23794	0.1770	1,149.23	1,258.36	47.28
1689		23796	0.1282	1,151.87	1,258.57	46.23
1690		23798	0.1496	1,157.35	1,259.68	44.34
1691		23800	0.2247	1,167.24	1,262.51	41.28
1692		23802	0.8161	1,151.88	1,362.04	91.06
1693		23804	0.1824	1,150.82	1,361.81	91.42
1694		23806	0.1819	1,150.74	1,360.96	91.09
1695		23808	0.2631	1,151.86	1,358.41	89.50
1696		23810	0.3114	1,164.91	1,357.81	83.59
1697		23812	0.1980	1,253.77	1,357.94	45.14
1698		23814	0.1141	1,267.92	1,357.93	39.00
1699		23816	0.1946	1,267.92	1,357.96	39.01
1700		23818	0.3605	1,253.77	1,357.96	45.14
1701		23820	0.3939	1,214.91	1,358.15	62.07
1702		23822	0.2488	1,225.62	1,358.30	57.49
1703		23824	0.0000	1,179.61	1,358.69	77.59
1704		23826	0.4591	1,173.23	1,357.56	79.87
1705		23828	0.0000	1,163.83	1,359.00	84.57
1706		23830	0.1729	1,153.58	1,356.62	87.98
1707		23832	0.0837	1,151.08	1,357.76	89.55
1708		23834	0.0000	1,125.00	1,251.30	54.73
1709		23836	0.0000	1,129.68	1,238.86	47.31
1710		23838	0.0000	1,158.42	1,239.15	34.98
1711		23840	0.0000	1,148.83	1,241.14	40.00
1712		23842	0.0000	1,123.80	1,238.97	49.90
1713		23844	0.0000	1,115.00	1,239.06	53.75
1714		23846	0.0000	1,145.53	1,240.84	41.30
1715		23848	0.0000	1,105.00	1,241.02	58.94
1716		23850	0.0000	1,131.46	1,241.47	47.67

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1717		23852	0.0000	1,147.01	1,241.81	41.08
1718		23854	0.0000	1,125.00	1,246.06	52.46
1719		23856	0.0000	1,145.54	1,244.70	42.97
1720		23858	0.0000	1,158.42	1,239.06	34.94
1721		23860	0.0000	1,134.29	1,238.97	45.36
1722		23862	0.3700	1,042.34	1,233.36	82.77
1723		23864	0.0221	1,050.00	1,234.50	79.94
1724		23866	0.0467	1,064.52	1,235.68	74.17
1725		23868	0.1617	1,060.95	1,237.50	76.50
1726		23870	0.2324	1,052.55	1,242.71	82.40
1727		23878	0.0547	1,026.40	1,258.10	100.40
1728		23880	0.1890	1,041.53	1,259.11	94.28
1729		23882	0.3233	1,049.82	1,164.90	49.87
1730		23884	0.1611	942.16	1,058.01	50.20
1731		23886	0.2619	923.86	1,058.07	58.15
1732		23888	0.1736	918.41	1,058.76	60.82
1733		23890	0.1339	934.55	1,058.76	53.82
1734		23892	0.0397	940.16	1,058.81	51.41
1735		23894	0.0378	949.55	1,058.46	47.19
1736		23896	0.0841	949.69	1,058.20	47.01
1737		23898	0.0791	949.14	1,057.93	47.14
1738		23900	0.1674	942.54	1,057.88	49.97
1739		23902	0.1437	950.16	1,057.87	46.67
1740		23904	0.0963	949.49	1,057.89	46.97
1741		23906	0.0904	885.00	1,060.30	75.96
1742		23908	0.0754	939.84	1,062.32	53.07
1743		23910	0.0533	880.00	1,070.05	82.35
1744		23912	0.0111	880.00	1,070.04	82.35
1745		23914	0.0004	880.00	1,070.04	82.35
1746		23916	0.0883	878.33	1,070.04	83.07
1747		23918	0.0877	907.03	1,075.78	73.12
1748		23920	0.1291	889.16	1,067.02	77.07
1749		23922	0.1311	899.91	1,064.58	71.35

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1750		23924	0.0957	954.30	1,062.83	47.03
1751		23926	0.0945	956.42	1,061.35	45.47
1752		23928	0.2701	954.90	1,078.60	53.60
1753		23930	0.2292	955.00	1,082.20	55.12
1754		23932	0.6995	894.82	1,084.63	82.24
1755		23934	0.0157	935.00	1,097.62	70.46
1756		23936	0.1577	926.72	1,088.77	70.22
1757		23938	0.3798	926.09	1,090.26	71.14
1758		23940	0.1339	934.86	1,090.85	67.59
1759		23942	0.0679	939.89	1,091.53	65.70
1760		23944	0.3297	928.18	1,090.31	70.25
1761		23946	0.1804	933.66	1,090.75	68.07
1762		23948	0.0851	939.53	1,090.85	65.57
1763		23950	0.1094	937.53	1,090.85	66.43
1764		23952	0.0472	934.04	1,090.87	67.95
1765		23954	0.0445	941.47	1,090.87	64.74
1766		23956	0.0496	948.42	1,090.95	61.76
1767		23958	0.0299	925.00	1,090.87	71.87
1768		23960	0.0934	933.71	1,092.50	68.80
1769		23962	0.0734	933.68	1,092.49	68.81
1770		23966	0.0783	934.81	1,090.98	67.67
1771		23968	0.1157	934.05	1,097.26	70.72
1772		23970	0.1871	934.52	1,097.26	70.52
1773		23972	0.1041	953.71	1,097.24	62.19
1774		23974	0.2031	945.00	1,097.24	65.97
1775		23976	0.0757	955.00	1,097.42	61.71
1776		23978	0.2459	939.71	1,097.45	68.34
1777		23980	0.1145	949.50	1,097.71	64.22
1778		23982	0.0295	958.46	1,098.36	60.62
1779		23984	0.0115	965.00	1,151.76	80.92
1780		23986	0.1300	892.63	1,084.32	83.06
1781		23988	0.3306	889.57	1,084.44	84.44
1782		23990	0.4640	892.44	1,085.46	83.63

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1783		23992	0.0029	935.00	1,088.74	66.61
1784		23994	0.1261	944.55	1,085.41	61.03
1785		23996	0.3446	943.47	1,086.66	62.05
1786		23998	0.1139	952.21	1,089.76	59.60
1787		240	0.0047	964.38	1,156.30	83.16
1788		2400	0.0048	982.29	1,158.36	76.29
1789		24000	0.0477	944.33	1,097.39	66.32
1790		24004	0.0000	1,033.00	1,160.05	55.05
1791		24006	0.0000	1,033.00	1,160.06	55.05
1792		24008	0.0000	984.45	1,104.65	52.08
1793		24010	0.2628	915.00	1,104.65	82.18
1794		24012	0.0000	905.00	1,103.94	86.20
1795		24014	0.0000	910.00	1,103.84	83.99
1796		24016	0.0000	910.00	1,103.39	83.80
1797		24018	0.0000	911.33	1,102.86	82.99
1798		24020	0.0000	915.00	1,102.98	81.45
1799		24022	0.0000	915.00	1,102.97	81.45
1800		24024	0.0000	925.00	1,102.95	77.10
1801		24026	0.0000	932.76	1,102.92	73.73
1802		24028	0.0000	1,038.72	1,104.65	28.57
1803		24030	0.0000	994.73	1,104.65	47.63
1804		24032	0.0988	1,014.75	1,161.87	63.75
1805		24034	0.2510	988.33	1,161.34	74.97
1806		24036	0.0743	972.75	1,160.80	81.49
1807		24038	0.0739	992.22	1,159.70	72.57
1808		24040	0.0975	1,003.05	1,159.57	67.82
1809		24042	0.3896	1,004.36	1,159.55	67.24
1810		24046	0.0371	985.00	1,159.58	75.64
1811		24048	0.0353	992.83	1,160.48	72.64
1812		24050	0.0123	983.17	1,160.39	76.79
1813		24052	0.0935	1,035.73	1,162.53	54.94
1814		24054	0.0415	1,043.54	1,262.11	94.71
1815		24056	0.0859	1,061.96	1,262.89	87.06

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1816		24058	0.1342	1,065.00	1,262.16	85.43
1817		2406	0.0088	984.10	1,158.31	75.48
1818		24060	0.0000	1,102.07	1,261.88	69.24
1819		24062	0.0000	1,098.88	1,261.55	70.48
1820		2412	0.0133	975.00	1,158.31	79.43
1821		24148	0.0395	965.00	1,151.77	80.93
1822		24150	0.0343	956.25	1,151.76	84.71
1823		24152	0.0192	965.00	1,151.77	80.93
1824		24154	0.1360	1,106.50	1,261.53	67.18
1825		24156	0.0738	1,100.42	1,261.76	69.91
1826		24158	0.0000	1,020.11	1,159.84	60.54
1827		24160	0.0000	1,006.49	1,151.51	62.84
1828		24162	0.0000	985.00	1,156.28	74.22
1829		24164	0.0000	990.10	1,158.48	72.96
1830		24166	0.0000	995.00	1,159.98	71.48
1831		24168	0.0000	988.24	1,158.79	73.90
1832		24170	0.1197	995.00	1,158.36	70.79
1833		24172	0.1436	945.00	1,154.00	90.56
1834		24174	0.0294	943.84	1,059.23	50.00
1835		24176	0.0360	1,025.00	1,264.97	103.98
1836		24178	0.3355	976.33	1,159.46	79.35
1837		24180	0.2394	979.22	1,159.17	77.98
1838		24182	0.4944	1,044.35	1,164.99	52.28
1839		24184	0.8272	1,139.81	1,360.83	95.77
1840		24186	0.2209	1,124.23	1,358.86	101.66
1841		24188	0.4049	1,115.00	1,257.27	61.65
1842		24190	0.1964	1,111.01	1,257.36	63.42
1843		24192	0.1554	1,121.59	1,257.66	58.96
1844		24194	0.3608	1,123.75	1,257.38	57.90
1845		24196	0.2488	1,120.67	1,258.66	59.79
1846		24198	0.3655	1,102.76	1,259.25	67.80
1847		24200	0.2423	1,093.03	1,258.17	71.56
1848		24202	0.4424	1,085.28	1,257.44	74.59

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1849		24204	0.3401	1,093.73	1,259.07	71.64
1850		24206	0.2862	1,070.15	1,255.73	80.41
1851		24208	0.6353	1,086.14	1,255.81	73.52
1852		24210	0.3728	1,105.26	1,256.25	65.42
1853		24212	0.5922	1,101.74	1,256.76	67.17
1854		24214	0.2013	1,109.02	1,256.78	64.03
1855		24216	0.0137	941.47	1,090.91	64.75
1856		24218	0.7804	1,085.00	1,253.95	73.21
1857		24220	0.4062	1,085.00	1,251.51	72.15
1858		24222	0.5532	1,035.00	1,247.32	92.00
1859		24226	0.0041	1,042.72	1,259.80	94.06
1860		24228	0.0030	1,046.29	1,259.47	92.37
1861		24230	0.0085	1,046.29	1,259.47	92.37
1862		24308	0.0000	1,049.82	1,164.95	49.89
1863		24310	0.0000	1,026.50	1,165.12	60.06
1864		24312	0.0000	1,090.00	1,259.86	73.60
1865		24314	0.0000	1,102.76	1,259.25	67.81
1866		24316	0.0000	1,115.00	1,257.78	61.87
1867		24318	0.0000	1,080.00	1,257.96	77.11
1868		2446	0.1009	983.14	1,158.13	75.83
1869		2452	0.0061	975.00	1,158.19	79.38
1870		246	0.0065	965.18	1,156.34	82.83
1871		248	0.0039	965.45	1,156.34	82.71
1872		2486	0.0207	985.83	1,158.22	74.69
1873		2518	0.0062	985.49	1,158.39	74.92
1874		252	0.0053	963.90	1,156.30	83.37
1875		2552	0.0273	987.74	1,158.19	73.85
1876		2562	0.1582	988.21	1,157.67	73.43
1877		2572	0.0444	990.76	1,158.38	72.63
1878		2578	0.0071	989.85	1,158.87	73.23
1879		2598	0.0185	995.00	1,158.40	70.80
1880		2612	0.0066	985.31	1,158.88	75.21
1881		2616	0.0109	983.26	1,158.72	76.03

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1882	2618	0.0100	982.18	1,158.64	76.46
1883	2642	0.0166	985.00	1,158.25	75.07
1884	2654	0.1344	980.43	1,158.24	77.04
1885	2668	0.0261	985.00	1,158.33	75.10
1886	2682	0.0050	974.99	1,158.31	79.44
1887	2688	0.0053	972.89	1,158.32	80.35
1888	2692	0.0060	971.54	1,158.34	80.94
1889	2696	0.0058	968.59	1,158.51	82.29
1890	2708	0.0109	975.00	1,158.73	79.61
1891	2716	0.0577	963.22	1,159.02	84.84
1892	272	0.0102	961.32	1,156.30	84.48
1893	2720	0.1587	935.24	1,154.98	95.21
1894	2722	0.1229	934.49	1,154.39	95.28
1895	2740	0.0063	987.42	1,156.91	73.44
1896	2742	0.0293	1,050.42	1,259.38	90.54
1897	2746	0.0125	1,050.14	1,259.38	90.66
1898	2776	0.0017	1,044.85	1,259.51	93.01
1899	2782	0.0828	995.00	1,152.35	68.18
1900	28	0.0028	970.69	1,152.23	78.66
1901	2802	0.3584	995.00	1,151.71	67.90
1902	2812	0.0211	1,000.61	1,152.27	65.71
1903	2818	0.1837	1,000.19	1,152.31	65.91
1904	2830	0.0076	983.52	1,156.85	75.10
1905	2842	0.0462	982.73	1,156.70	75.38
1906	2874	0.0126	983.14	1,156.75	75.22
1907	2880	0.0243	983.42	1,156.75	75.11
1908	2890	0.0056	983.54	1,156.78	75.07
1909	2894	0.0027	983.55	1,156.85	75.09
1910	2896	0.0090	983.97	1,157.01	74.98
1911	2914	0.0152	981.95	1,156.65	75.70
1912	2920	0.0112	982.22	1,156.79	75.64
1913	294	0.0088	965.00	1,156.31	82.89
1914	2954	0.0005	976.70	1,148.88	74.61

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1915	2956	0.0006	976.75	1,148.89	74.59
1916	2960	0.0097	976.84	1,148.89	74.55
1917	2970	0.0275	978.43	1,148.95	73.89
1918	298	0.0064	957.07	1,156.31	86.33
1919	2990	0.0188	985.00	1,149.04	71.08
1920	3006	0.0060	978.67	1,149.22	73.90
1921	3014	0.0055	982.84	1,156.86	75.40
1922	3018	0.0045	982.96	1,156.89	75.36
1923	302	0.0061	961.00	1,156.34	84.64
1924	3020	0.0066	984.34	1,156.94	74.79
1925	3022	0.0121	983.61	1,156.91	75.09
1926	3032	0.0055	983.41	1,156.86	75.16
1927	3036	0.0073	983.79	1,156.86	74.99
1928	304	0.0041	960.19	1,156.34	84.99
1929	3042	0.0038	983.33	1,156.86	75.19
1930	3046	0.0031	983.68	1,156.86	75.04
1931	3054	0.0099	984.02	1,156.87	74.89
1932	306	0.0077	963.76	1,156.39	83.47
1933	3076	0.0188	975.00	1,156.85	78.80
1934	3078	0.0199	983.91	1,156.86	74.94
1935	3120	0.0072	985.00	1,156.91	74.49
1936	3122	0.0058	985.00	1,156.92	74.49
1937	3130	0.0076	985.00	1,156.90	74.49
1938	3142	0.0217	985.00	1,156.90	74.48
1939	3164	0.0122	985.00	1,156.91	74.49
1940	3192	0.0186	995.00	1,151.35	67.75
1941	3194	0.0226	995.00	1,151.31	67.73
1942	3200	0.0009	995.00	1,151.35	67.75
1943	3204	0.0459	991.89	1,151.52	69.17
1944	3222	0.0720	975.00	1,150.75	76.15
1945	3238	0.0104	988.12	1,156.91	73.14
1946	3262	0.0000	1,000.22	1,164.45	71.16
1947	3274	0.0237	938.77	1,155.92	94.09

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1948	3290	0.4676	992.48	1,159.98	72.57
1949	3308	0.0157	993.99	1,158.83	71.42
1950	3316	0.0005	993.87	1,158.83	71.48
1951	3326	0.0197	995.12	1,159.05	71.03
1952	3340	0.0325	995.21	1,158.40	70.71
1953	3344	0.0035	985.00	1,159.25	75.50
1954	3346	0.0044	994.77	1,158.36	70.88
1955	3362	0.0048	978.38	1,151.91	75.19
1956	3364	0.0064	979.05	1,151.84	74.87
1957	3368	0.0424	977.99	1,151.71	75.28
1958	338	0.0097	957.29	1,155.82	86.02
1959	3380	0.2480	987.65	1,157.24	73.48
1960	340	0.0083	956.62	1,154.78	85.86
1961	3482	0.1461	979.47	1,151.79	74.66
1962	3502	0.0108	979.22	1,152.09	74.90
1963	3506	0.0116	978.68	1,152.09	75.14
1964	3508	0.0373	980.92	1,152.29	74.25
1965	3516	0.0413	978.78	1,152.30	75.19
1966	3566	0.0089	919.11	1,106.86	81.35
1967	3628	0.0182	986.33	1,165.77	77.75
1968	3634	0.0054	983.80	1,156.49	74.83
1969	3636	0.0002	983.80	1,156.50	74.83
1970	3646	0.0613	1,005.00	1,152.50	63.91
1971	3664	0.0407	935.00	1,055.35	52.15
1972	3680	0.0233	945.00	1,055.79	48.01
1973	374	0.0096	990.18	1,151.35	69.84
1974	3760	0.0579	1,025.00	1,163.92	60.19
1975	3782	0.0598	1,022.05	1,165.43	62.13
1976	3784	0.0174	1,000.92	1,157.25	67.74
1977	38	0.0000	985.00	1,159.13	75.45
1978	3816	0.0033	1,007.16	1,151.41	62.50
1979	382	0.0086	990.12	1,151.34	69.85
1980	3830	0.0085	1,002.62	1,151.01	64.30

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
1981	3834	0.0070	1,008.28	1,151.01	61.84
1982	3838	0.0114	985.10	1,151.16	71.96
1983	3842	0.0092	1,001.72	1,151.20	64.77
1984	3854	0.0156	945.86	1,055.95	47.70
1985	3856	0.0877	948.08	1,055.53	46.56
1986	3870	0.0481	945.56	1,152.48	89.66
1987	3886	0.0112	980.94	1,150.52	73.48
1988	3896	0.0104	976.65	1,154.15	76.91
1989	3916	0.0187	995.00	1,167.08	74.56
1990	3926	0.0354	945.00	1,055.96	48.08
1991	3944	0.0286	987.28	1,155.98	73.10
1992	4006	0.0198	1,032.40	1,158.70	54.73
1993	402	0.0068	995.00	1,151.34	67.74
1994	4036	0.0182	950.00	1,060.24	47.77
1995	4056	0.0116	972.83	1,153.94	78.48
1996	406	0.0024	995.00	1,151.34	67.74
1997	4076	0.0394	1,002.84	1,166.70	71.00
1998	410	0.0151	995.00	1,151.41	67.77
1999	4116	0.0087	944.79	1,055.79	48.10
2000	412	0.0057	995.00	1,151.36	67.75
2001	4138	0.0162	937.81	1,058.75	52.40
2002	4142	0.0172	1,027.42	1,159.33	57.16
2003	4182	0.0155	1,026.33	1,160.79	58.26
2004	42	0.0057	987.49	1,156.91	73.41
2005	4212	0.0164	1,025.00	1,160.76	58.83
2006	4218	0.0112	1,033.64	1,160.76	55.08
2007	422	0.0128	987.43	1,151.34	71.02
2008	4258	0.0084	1,023.29	1,160.77	59.57
2009	4262	0.0094	985.59	1,165.76	78.07
2010	4264	0.0087	985.42	1,165.76	78.14
2011	4268	0.0249	994.91	1,165.75	74.03
2012	4274	0.0160	986.88	1,166.61	77.88
2013	4278	0.0132	1,002.25	1,167.03	71.40

Buildout Maximum Hour

	ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2014	4284	0.0299	981.17	1,166.52	80.31
2015	4288	0.0466	980.74	1,166.54	80.51
2016	4294	0.0096	984.48	1,165.68	78.51
2017	4298	0.0170	985.00	1,165.66	78.28
2018	430	0.0269	989.83	1,151.35	69.99
2019	4306	0.0076	964.84	1,154.11	82.01
2020	4316	0.0098	946.83	1,154.38	89.93
2021	4326	0.0045	945.00	1,154.14	90.62
2022	4342	0.0101	945.00	1,154.14	90.62
2023	4368	0.0715	1,002.91	1,165.25	70.34
2024	4372	0.0264	995.00	1,164.88	73.61
2025	4376	0.0339	991.88	1,164.90	74.97
2026	4424	0.0768	1,005.00	1,164.52	69.12
2027	4438	0.0322	1,009.42	1,158.93	64.78
2028	4448	0.0247	1,028.28	1,158.70	56.51
2029	4466	0.0380	1,023.77	1,166.04	61.65
2030	4480	0.0480	1,015.00	1,166.07	65.46
2031	4494	0.0292	1,027.82	1,164.57	59.25
2032	4496	0.0127	1,032.13	1,164.57	57.39
2033	450	0.0169	995.00	1,151.34	67.74
2034	4502	0.0381	1,026.30	1,166.48	60.74
2035	4546	0.0172	985.37	1,155.39	73.67
2036	4570	0.0145	980.58	1,154.82	75.50
2037	4576	0.0116	973.57	1,154.83	78.54
2038	4632	0.0235	983.42	1,157.42	75.40
2039	4646	0.0199	1,002.64	1,151.77	64.62
2040	4664	0.0058	1,004.60	1,152.88	64.25
2041	4692	0.0222	1,021.12	1,160.17	60.25
2042	4694	0.0363	1,024.49	1,160.17	58.79
2043	472	0.0341	998.50	1,161.50	70.63
2044	474	0.0356	998.18	1,161.48	70.76
2045	4774	0.0047	986.60	1,152.01	71.67
2046	4778	0.0149	990.08	1,152.01	70.16

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2047		4798	0.0151	984.62	1,151.42	72.28
2048		4814	0.0536	945.00	1,055.73	47.98
2049		4844	0.0424	944.27	1,055.83	48.34
2050		4882	0.0130	980.70	1,154.46	75.29
2051		4902	0.0357	968.65	1,150.39	78.75
2052		4910	0.0049	974.39	1,150.41	76.27
2053		4930	0.0051	980.75	1,154.06	75.09
2054		4998	0.0558	1,008.48	1,167.58	68.94
2055		5016	0.0240	952.74	1,056.21	44.83
2056		5028	0.0173	991.42	1,166.61	75.91
2057		5042	0.0135	1,004.03	1,167.35	70.76
2058		5056	0.0584	994.72	1,165.53	74.01
2059		5070	0.0270	999.78	1,166.58	72.28
2060		5074	0.0219	1,000.66	1,166.60	71.90
2061		5078	0.0290	1,000.24	1,166.70	72.13
2062		510	0.0142	997.16	1,161.35	71.14
2063		5104	0.0691	924.93	1,056.72	57.10
2064		5128	0.0250	1,010.00	1,168.21	68.55
2065		5158	0.0166	932.83	1,055.65	53.22
2066		5202	0.0103	965.00	1,151.37	80.75
2067		5210	0.0078	954.73	1,151.37	85.20
2068		5224	0.0372	959.26	1,151.34	83.23
2069		5228	0.0354	959.93	1,151.34	82.94
2070		5232	0.0531	954.91	1,098.38	62.17
2071		5250	0.0538	1,005.00	1,159.61	66.99
2072		5252	0.0002	985.00	1,159.61	75.66
2073		5254	0.0086	995.06	1,159.75	71.36
2074		5258	0.0047	995.51	1,159.74	71.16
2075		5270	0.0000	990.42	1,261.40	117.41
2076		5278	0.0049	1,005.34	1,158.70	66.45
2077		5282	0.0160	1,001.89	1,154.62	66.18
2078		5328	0.0093	955.00	1,156.29	87.22
2079		5330	0.0037	964.30	1,156.30	83.19

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2080		5360	0.0202	965.68	1,156.27	82.58
2081		5362	0.0132	964.37	1,156.27	83.15
2082		538	0.0066	997.71	1,161.87	71.13
2083		5386	0.0072	963.68	1,156.28	83.46
2084		5402	0.0070	963.83	1,156.29	83.39
2085		5416	0.0255	1,009.00	1,155.77	63.59
2086		5434	0.0398	985.00	1,155.63	73.93
2087		5442	0.0446	989.69	1,155.59	71.89
2088		5448	0.0252	992.70	1,156.12	70.81
2089		5474	0.0280	985.00	1,155.50	73.88
2090		5480	0.0361	983.98	1,155.58	74.35
2091		550	0.0221	986.07	1,156.91	74.03
2092		5576	0.0287	1,004.06	1,154.01	64.97
2093		5594	0.0231	1,004.43	1,154.00	64.81
2094		5614	0.0242	1,004.59	1,154.26	64.85
2095		5620	0.0163	1,004.99	1,154.20	64.66
2096		5622	0.0185	1,003.17	1,154.40	65.53
2097		5640	0.0225	1,016.39	1,154.19	59.71
2098		5642	0.0168	1,005.00	1,154.19	64.64
2099		5660	0.0172	1,006.35	1,154.30	64.11
2100		5666	0.0174	1,003.91	1,154.29	65.16
2101		5684	0.1178	1,026.14	1,154.12	55.45
2102		5722	0.2784	915.00	1,103.45	81.66
2103		5732	0.1132	919.26	1,106.69	81.21
2104		5734	0.1877	994.48	1,154.01	69.12
2105		5736	0.0386	981.04	1,154.07	74.98
2106		574	0.0294	982.74	1,156.89	75.46
2107		5750	0.0510	995.34	1,154.38	68.91
2108		5786	0.0130	953.93	1,156.33	87.70
2109		58	0.1473	989.50	1,154.53	71.50
2110		580	0.0085	1,006.73	1,154.96	64.23
2111		5824	0.0020	955.20	1,156.34	87.15
2112		5826	0.0006	955.30	1,156.34	87.11

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2113		5828	0.0055	955.87	1,156.34	86.86
2114		5838	0.0702	998.23	1,152.39	66.80
2115		5846	0.0672	997.84	1,152.40	66.97
2116		5848	0.0311	1,005.00	1,152.52	63.92
2117		5858	0.0321	1,056.83	1,259.26	87.71
2118		5876	0.0322	1,052.69	1,259.38	89.56
2119		5880	0.0021	1,044.12	1,259.32	93.25
2120		5882	0.0201	1,058.69	1,259.31	86.93
2121		5888	0.0052	1,054.17	1,259.32	88.89
2122		5908	0.0326	1,045.00	1,259.20	92.81
2123		5920	0.0034	965.00	1,151.49	80.81
2124		5922	0.0028	961.54	1,151.74	82.42
2125		5926	0.0630	977.36	1,152.30	75.80
2126		5938	0.0061	951.79	1,158.70	89.66
2127		5962	0.0234	963.61	1,158.96	84.64
2128		5964	0.0002	963.53	1,159.01	84.70
2129		598	0.0128	1,005.97	1,154.96	64.55
2130		5980	0.0294	964.83	1,057.12	39.99
2131		6004	0.0075	947.34	1,159.14	91.77
2132		6026	0.0004	945.87	1,151.49	89.09
2133		6028	0.0117	965.00	1,151.48	80.80
2134		6030	0.0001	946.09	1,151.48	89.00
2135		6032	0.0005	946.37	1,151.48	88.88
2136		6046	0.0135	1,007.19	1,261.70	110.28
2137		6052	0.0189	1,027.17	1,261.91	101.71
2138		6072	0.0025	975.10	1,165.82	82.64
2139		6100	0.0020	1,037.88	1,160.82	53.27
2140		6112	0.0011	1,002.99	1,158.84	67.53
2141		6116	0.0014	1,041.53	1,160.80	51.68
2142		612	0.0290	997.12	1,154.96	68.39
2143		6120	0.0052	917.77	1,092.17	75.57
2144		6124	0.0561	917.39	1,092.15	75.72
2145		6130	0.0885	916.00	1,090.83	75.75

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2146		6138	0.0104	914.45	1,090.62	76.34
2147		6140	0.0468	915.96	1,090.47	75.61
2148		6142	0.2245	915.71	1,090.43	75.71
2149		6154	0.0772	985.99	1,158.26	74.64
2150		6176	0.0077	995.00	1,160.29	71.62
2151		6222	0.0660	940.63	1,098.10	68.23
2152		6236	0.0086	1,003.38	1,158.82	67.35
2153		6238	0.0030	1,004.01	1,158.84	67.09
2154		6284	0.0015	985.11	1,167.09	78.85
2155		6286	0.0010	984.26	1,156.58	74.67
2156		6292	0.0075	983.82	1,156.58	74.86
2157		6308	0.0020	984.51	1,156.58	74.56
2158		6322	0.0117	981.95	1,156.59	75.67
2159		6338	0.0062	983.42	1,156.59	75.03
2160		634	0.0134	992.07	1,154.99	70.59
2161		6348	0.0044	982.30	1,156.61	75.53
2162		6350	0.0028	981.90	1,156.59	75.69
2163		6362	0.0039	948.65	1,155.68	89.70
2164		6388	0.0211	952.09	1,155.89	88.31
2165		6390	0.0132	954.30	1,155.88	87.35
2166		6392	0.0061	954.84	1,156.61	87.43
2167		6394	0.0191	950.29	1,155.29	88.83
2168		64	0.0058	995.00	1,151.34	67.74
2169		6400	0.1172	952.38	1,155.17	87.87
2170		6406	0.1191	950.08	1,155.10	88.84
2171		6408	0.0174	952.57	1,155.25	87.82
2172		6414	0.0244	945.00	1,155.37	91.15
2173		6420	0.0244	956.03	1,156.39	86.82
2174		6436	0.0053	954.97	1,156.63	87.38
2175		6456	0.0060	960.75	1,157.26	85.15
2176		6460	0.0054	985.00	1,155.87	74.04
2177		6474	0.1165	973.91	1,155.10	78.51
2178		6488	0.0177	970.64	1,152.33	78.73

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2179		6494	0.0090	971.89	1,152.38	78.21
2180		650	0.0086	998.17	1,155.23	68.05
2181		6518	0.1219	995.00	1,157.22	70.29
2182		6538	0.0222	1,021.23	1,159.05	59.72
2183		6556	0.0296	1,015.00	1,159.00	62.39
2184		6568	0.0104	1,018.41	1,158.92	60.88
2185		6570	0.1073	1,018.53	1,158.91	60.83
2186		6572	0.0042	1,018.13	1,159.30	61.17
2187		6574	0.0028	1,022.43	1,159.41	59.36
2188		6596	0.0060	1,046.01	1,259.42	92.47
2189		66	0.1132	971.93	1,160.79	81.83
2190		6600	0.0045	1,045.76	1,259.42	92.58
2191		6604	0.0086	1,046.25	1,259.42	92.37
2192		6608	0.0041	1,046.06	1,259.42	92.45
2193		6642	0.0189	1,046.16	1,259.50	92.44
2194		6652	0.0097	1,047.79	1,259.50	91.74
2195		6654	0.0131	1,046.98	1,259.54	92.10
2196		6658	0.0122	1,045.85	1,259.54	92.59
2197		6670	0.0090	1,042.72	1,259.80	94.06
2198		6686	0.0969	954.64	1,153.31	86.08
2199		6692	0.0107	986.72	1,156.67	73.64
2200		6698	0.0029	984.06	1,156.65	74.78
2201		6704	0.0077	1,025.40	1,160.53	58.55
2202		6720	0.1452	988.11	1,152.12	71.07
2203		6728	0.0198	977.43	1,152.60	75.90
2204		6730	0.0092	995.00	1,162.62	72.63
2205		6740	0.0063	982.39	1,157.42	75.84
2206		6742	0.0082	995.00	1,157.50	70.41
2207		6746	0.0274	955.00	1,157.35	87.68
2208		6748	0.0467	954.46	1,162.20	90.01
2209		676	0.0086	999.31	1,155.25	67.57
2210		6762	0.0006	988.63	1,153.49	71.43
2211		678	0.0076	1,003.59	1,155.23	65.71

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2212		6784	0.0014	981.66	1,166.32	80.02
2213		6824	0.0018	981.76	1,166.24	79.94
2214		6846	0.0131	928.20	1,055.52	55.16
2215		6850	0.1275	927.83	1,054.61	54.93
2216		6854	0.0190	969.45	1,152.49	79.31
2217		6858	0.0037	968.86	1,152.55	79.59
2218		6862	0.0120	987.78	1,160.04	74.64
2219		6886	0.0142	995.00	1,163.94	73.20
2220		6914	0.0103	995.00	1,164.64	73.50
2221		6920	0.0043	995.00	1,164.64	73.50
2222		6924	0.0000	983.40	1,164.83	78.62
2223		6930	0.0000	984.67	1,164.89	78.09
2224		6956	0.0398	988.04	1,162.54	75.61
2225		698	0.0073	946.06	1,060.10	49.41
2226		6980	0.1372	955.00	1,157.02	87.54
2227		70	0.0072	971.25	1,160.98	82.21
2228		7032	0.0264	966.10	1,157.30	82.85
2229		7048	0.0145	955.00	1,157.28	87.65
2230		7056	0.0034	960.84	1,157.29	85.12
2231		7070	0.1329	955.96	1,157.25	87.22
2232		7074	0.0100	955.00	1,153.31	85.93
2233		708	0.0078	947.05	1,060.09	48.98
2234		7090	0.0445	916.33	1,090.58	75.50
2235		7092	0.0474	917.42	1,090.70	75.08
2236		7102	0.0394	915.75	1,090.58	75.75
2237		7134	0.0160	913.85	1,088.17	75.54
2238		7136	0.0242	913.91	1,088.17	75.51
2239		7138	0.2038	913.95	1,088.17	75.49
2240		7140	0.0423	1,001.57	1,164.98	70.81
2241		7148	0.0099	1,007.52	1,165.01	68.24
2242		7152	0.0035	979.16	1,165.97	80.94
2243		7154	0.0025	979.26	1,165.97	80.90
2244		7156	0.0262	1,028.01	1,263.71	102.13

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2245		7158	0.0425	1,025.41	1,264.67	103.67
2246		7164	0.0341	1,033.18	1,173.89	60.97
2247		7166	0.0286	1,025.82	1,173.90	64.17
2248		7180	0.0217	1,005.94	1,161.50	67.40
2249		7198	0.0604	1,005.00	1,161.51	67.81
2250		7204	0.0388	1,005.46	1,161.96	67.81
2251		7206	0.0635	982.55	1,167.08	79.96
2252		7220	0.0092	986.16	1,167.14	78.42
2253		7224	0.0013	965.00	1,151.48	80.80
2254		7232	0.0026	945.00	1,151.49	89.47
2255		7234	0.0435	945.00	1,151.49	89.47
2256		7238	0.0085	965.00	1,151.48	80.80
2257		7258	0.0308	917.72	1,092.17	75.59
2258		7260	0.0509	919.88	1,092.23	74.68
2259		7292	0.1477	921.54	1,092.12	73.92
2260		7322	0.1080	995.00	1,153.85	68.83
2261		7324	0.0335	995.00	1,154.37	69.06
2262		7366	0.1157	995.00	1,153.48	68.67
2263		7370	0.0017	995.00	1,153.50	68.68
2264		7372	0.0586	995.00	1,153.51	68.68
2265		7380	0.0017	970.25	1,151.56	78.56
2266		7382	0.0048	970.23	1,151.66	78.61
2267		7384	0.1711	971.73	1,146.08	75.54
2268		7386	0.0039	970.09	1,152.23	78.92
2269		7410	0.0172	995.00	1,158.27	70.75
2270		7412	0.0315	995.00	1,158.29	70.75
2271		7424	0.0040	995.00	1,158.33	70.77
2272		7426	0.0254	995.00	1,158.39	70.80
2273		7442	0.0218	975.42	1,152.52	76.73
2274		7462	0.0045	985.00	1,152.54	72.59
2275		7466	0.0296	985.00	1,152.54	72.59
2276		7470	0.0094	975.00	1,156.92	78.83
2277		7480	0.0088	998.56	1,160.80	70.30

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2278		7496	0.0124	999.78	1,160.93	69.83
2279		7524	0.0406	1,006.53	1,154.07	63.93
2280		7528	0.0101	1,006.71	1,154.32	63.96
2281		7538	0.1484	1,004.45	1,153.39	64.54
2282		7552	0.1557	1,004.80	1,153.41	64.39
2283		756	0.3287	970.00	1,154.26	79.84
2284		7568	0.0070	1,007.35	1,154.04	63.56
2285		7576	0.0164	1,006.23	1,153.42	63.78
2286		7588	0.0159	1,006.82	1,153.00	63.34
2287		7594	0.0145	1,008.05	1,153.42	62.99
2288		7598	0.0053	1,007.49	1,153.01	63.05
2289		76	0.0321	993.09	1,152.68	69.15
2290		7600	0.0294	1,008.54	1,154.00	63.03
2291		7614	0.1319	1,007.19	1,152.88	63.13
2292		7616	0.0049	1,015.00	1,154.76	60.56
2293		7650	0.0219	998.82	1,160.80	70.19
2294		7666	0.0292	1,001.29	1,160.83	69.13
2295		7698	0.1166	1,015.00	1,152.78	59.70
2296		7738	0.0049	985.64	1,155.96	73.80
2297		7740	0.0028	984.07	1,156.56	74.74
2298		7742	0.0032	984.16	1,156.54	74.69
2299		7746	0.0009	984.05	1,156.57	74.75
2300		7748	0.0041	984.25	1,155.95	74.40
2301		7752	0.0118	985.71	1,156.01	73.79
2302		7754	0.0180	984.65	1,156.15	74.31
2303		7768	0.0155	1,015.00	1,153.58	60.05
2304		7796	0.0101	984.60	1,155.95	74.24
2305		7804	0.0564	985.72	1,155.95	73.76
2306		7812	0.0068	985.20	1,156.08	74.04
2307		7822	0.0678	991.45	1,149.00	68.27
2308		7830	0.1887	988.31	1,148.03	69.21
2309		7832	0.2268	985.00	1,148.03	70.64
2310		7838	0.0368	990.15	1,148.02	68.41

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2311		7858	0.2110	985.00	1,148.28	70.75
2312		7860	0.0089	985.00	1,148.28	70.75
2313		7862	0.1194	993.02	1,148.44	67.34
2314		7864	0.0082	992.58	1,148.44	67.53
2315		7870	0.1783	994.53	1,149.07	66.96
2316		788	0.0430	999.47	1,154.57	67.20
2317		7908	0.0797	993.38	1,153.45	69.36
2318		7918	0.0460	994.22	1,153.30	68.93
2319		7966	0.0106	985.00	1,152.69	72.66
2320		7970	0.0105	985.00	1,152.69	72.66
2321		7988	0.0983	994.84	1,152.68	68.39
2322		7990	0.0125	985.00	1,152.70	72.67
2323		8016	0.0113	994.12	1,152.69	68.71
2324		8022	0.0134	995.00	1,152.06	68.06
2325		8038	0.0721	995.00	1,152.04	68.05
2326		8064	0.0181	985.91	1,152.08	72.00
2327		8072	0.0356	985.38	1,152.08	72.23
2328		8082	0.0262	984.72	1,152.14	72.54
2329		8084	0.0157	985.10	1,152.14	72.38
2330		8098	0.0497	975.00	1,152.15	76.76
2331		8102	0.0159	988.25	1,160.29	74.54
2332		8104	0.0000	995.00	1,160.29	71.62
2333		8110	0.0117	988.44	1,160.26	74.45
2334		8114	0.0900	991.07	1,150.90	69.25
2335		8122	0.1084	995.00	1,150.83	67.52
2336		8132	0.0080	989.80	1,150.95	69.83
2337		8136	0.0052	989.99	1,150.95	69.74
2338		8150	0.0137	995.00	1,150.97	67.58
2339		8158	0.2109	995.00	1,151.09	67.63
2340		8162	0.0045	984.40	1,157.31	74.92
2341		8166	0.0097	984.51	1,157.29	74.87
2342		8184	0.0066	965.00	1,151.49	80.81
2343		8212	0.0053	983.18	1,157.30	75.45

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2344		8218	0.0086	982.73	1,157.30	75.64
2345		8232	0.0847	945.11	1,098.21	66.33
2346		8240	0.0334	985.00	1,147.82	70.55
2347		8268	0.0000	1,005.00	1,153.40	64.30
2348		8272	0.0181	985.88	1,158.05	74.60
2349		8274	0.0609	1,003.42	1,157.31	66.68
2350		828	0.0185	1,015.37	1,154.54	60.30
2351		8282	0.0497	1,009.44	1,155.21	63.16
2352		8284	0.0000	985.00	1,153.37	72.95
2353		8286	0.0000	985.00	1,153.39	72.96
2354		8288	0.0558	965.00	1,098.47	57.83
2355		8290	0.0729	965.00	1,098.47	57.83
2356		8292	0.1622	909.32	1,104.68	84.65
2357		8296	0.0182	975.00	1,156.81	78.78
2358		8298	0.0074	983.88	1,157.30	75.14
2359		830	0.0098	1,018.58	1,154.54	58.91
2360		8312	0.0106	983.73	1,157.30	75.21
2361		8314	0.0000	936.37	1,104.05	72.66
2362		8350	0.0113	931.24	1,055.65	53.91
2363		8354	0.0111	929.75	1,055.65	54.55
2364		836	0.0681	1,016.75	1,154.54	59.70
2365		8362	0.0095	934.93	1,055.65	52.31
2366		8398	0.0117	987.35	1,156.73	73.39
2367		8402	0.0126	982.58	1,156.72	75.46
2368		8428	0.0430	989.10	1,156.61	72.58
2369		8432	0.0249	989.11	1,156.60	72.57
2370		8452	0.0051	975.00	1,156.68	78.72
2371		8472	0.1713	905.00	1,085.01	78.00
2372		8478	0.1688	915.14	1,085.04	73.62
2373		8488	0.2669	910.95	1,081.81	74.03
2374		8500	0.0382	912.02	1,081.81	73.57
2375		8516	0.6768	908.27	1,081.86	75.21
2376		8518	0.0126	908.58	1,081.91	75.11

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2377		8524	0.0455	909.27	1,082.27	74.96
2378		8526	0.0097	909.59	1,082.27	74.82
2379		8528	0.0562	909.54	1,082.49	74.94
2380		8530	0.0099	909.96	1,082.49	74.76
2381		8536	0.0806	910.08	1,083.05	74.94
2382		8538	0.0174	905.00	1,083.05	77.15
2383		8546	0.1108	910.58	1,083.94	75.12
2384		8552	0.0069	913.13	1,085.13	74.53
2385		8556	0.0040	913.23	1,085.12	74.48
2386		8558	0.0189	913.13	1,085.12	74.52
2387		8564	0.0127	913.87	1,086.20	74.67
2388		8588	0.0198	965.00	1,152.54	81.26
2389		8606	0.0246	985.00	1,145.32	69.46
2390		8608	0.1145	985.00	1,145.32	69.47
2391		8612	0.7732	976.15	1,143.49	72.51
2392		8616	0.1008	976.79	1,147.83	74.11
2393		8632	0.0293	987.48	1,159.39	74.49
2394		8666	0.0077	987.66	1,159.59	74.50
2395		8672	0.0302	964.19	1,153.26	81.92
2396		868	0.1470	1,028.14	1,155.37	55.13
2397		8682	0.0114	965.00	1,153.26	81.57
2398		8690	0.0929	962.18	1,153.17	82.76
2399		8706	0.0175	965.00	1,153.23	81.56
2400		8714	0.0119	955.52	1,153.28	85.69
2401		8718	0.0263	959.00	1,153.27	84.18
2402		8750	0.0071	965.00	1,153.28	81.58
2403		8762	0.0546	955.50	1,153.27	85.69
2404		8768	0.1928	940.72	1,097.69	68.02
2405		878	0.0134	1,010.42	1,154.46	62.41
2406		8780	0.0129	943.72	1,097.88	66.80
2407		8792	0.0000	977.35	1,153.37	76.27
2408		8822	0.1112	937.45	1,098.10	69.61
2409		8842	0.0498	941.10	1,098.22	68.08

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2410		8844	0.0028	940.71	1,098.26	68.26
2411		8846	0.0029	935.00	1,098.26	70.74
2412		8862	0.0523	924.06	1,090.84	72.27
2413		8876	0.0090	920.27	1,090.84	73.90
2414		8878	0.0156	912.59	1,090.85	77.24
2415		888	0.0110	1,020.00	1,154.47	58.26
2416		8882	0.0000	987.72	1,104.65	50.67
2417		8884	0.0000	990.42	1,104.65	49.50
2418		8886	0.0141	982.12	1,157.32	75.91
2419		8890	0.0030	1,037.07	1,160.84	53.63
2420		890	0.1172	1,020.00	1,154.39	58.23
2421		8914	0.0076	1,023.23	1,159.43	59.02
2422		8934	0.0038	968.63	1,153.92	80.29
2423		8938	0.0036	969.75	1,153.81	79.75
2424		8942	0.0021	974.85	1,152.66	77.04
2425		8946	0.0342	961.13	1,157.68	85.16
2426		8952	0.0000	911.71	1,102.82	82.81
2427		896	0.0098	1,018.83	1,154.57	58.82
2428		8960	0.1176	995.00	1,154.36	69.05
2429		8964	0.2353	989.63	1,153.37	70.95
2430		8968	0.4219	988.69	1,152.55	71.00
2431		8982	0.0019	977.31	1,152.59	75.95
2432		8992	0.0369	965.00	1,152.27	81.14
2433		8994	0.0115	967.56	1,152.44	80.11
2434		8996	0.0022	967.66	1,152.44	80.07
2435		900	0.0238	1,023.86	1,154.56	56.63
2436		9002	0.0017	965.00	1,151.92	80.99
2437		9004	0.0496	967.22	1,152.19	80.15
2438		9006	0.0046	970.41	1,152.19	78.76
2439		9008	0.0214	965.00	1,152.19	81.11
2440		9010	0.0366	965.00	1,152.31	81.16
2441		9018	0.0474	977.85	1,152.34	75.61
2442		9020	0.1283	973.67	1,151.30	76.97

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2443		9024	0.0135	973.03	1,152.26	77.66
2444		9028	0.0040	962.20	1,152.24	82.35
2445		9044	0.0143	974.45	1,152.29	77.06
2446		9050	0.0217	974.32	1,152.30	77.12
2447		9056	0.0106	973.00	1,152.30	77.69
2448		9058	0.0091	973.13	1,152.30	77.63
2449		9064	0.0243	972.34	1,152.31	77.98
2450		9080	0.0145	975.39	1,152.14	76.59
2451		9082	0.4430	985.00	1,152.09	72.40
2452		9090	0.0000	995.00	1,163.98	73.22
2453		9112	0.0036	997.53	1,161.89	71.22
2454		9114	0.0067	1,005.00	1,162.00	68.03
2455		9124	0.0119	983.96	1,155.23	74.21
2456		9126	0.0018	1,015.00	1,155.29	60.79
2457		9132	0.0037	1,015.00	1,155.31	60.80
2458		9134	0.0168	995.00	1,159.85	71.43
2459		9148	0.0007	987.20	1,155.70	73.01
2460		9150	0.0440	987.28	1,155.68	72.97
2461		9160	0.0051	995.00	1,157.37	70.36
2462		9162	0.0045	995.00	1,157.09	70.23
2463		9164	0.0041	995.00	1,156.92	70.16
2464		9184	0.0034	1,025.46	1,160.77	58.63
2465		9190	0.0159	1,038.67	1,160.70	52.88
2466		92	0.0067	991.45	1,152.70	69.87
2467		9214	0.0195	1,043.19	1,160.59	50.87
2468		922	0.0069	1,015.45	1,154.59	60.29
2469		9226	0.0056	1,025.00	1,160.22	58.59
2470		9240	0.0034	1,046.29	1,160.76	49.60
2471		9246	0.0127	1,047.03	1,159.51	48.73
2472		9250	0.0217	1,038.42	1,159.79	52.59
2473		926	0.0121	1,010.00	1,154.59	62.65
2474		9266	0.0355	1,029.47	1,158.83	56.05
2475		9274	0.0177	1,045.00	1,159.28	49.52

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2476		9322	0.0678	1,019.20	1,160.95	61.42
2477		9328	0.0248	1,013.89	1,161.13	63.80
2478		9332	0.0804	1,002.59	1,166.67	71.10
2479		9336	0.0564	1,004.20	1,166.87	70.49
2480		9340	0.0403	1,023.75	1,169.84	63.30
2481		9346	0.0343	993.43	1,166.62	75.04
2482		9350	0.0414	991.99	1,166.62	75.66
2483		9356	0.0359	1,010.00	1,168.93	68.86
2484		936	0.0086	1,008.28	1,154.69	63.44
2485		9360	0.0281	1,005.00	1,168.35	70.78
2486		9390	0.0289	983.62	1,165.66	78.88
2487		9396	0.0169	984.34	1,165.61	78.54
2488		9404	0.0105	985.01	1,165.63	78.26
2489		9416	0.0112	987.58	1,167.29	77.87
2490		9420	0.0796	1,006.59	1,154.77	64.21
2491		9448	0.0130	982.47	1,150.60	72.85
2492		9496	0.0366	959.56	1,056.05	41.81
2493		9506	0.0214	948.87	1,055.82	46.34
2494		9510	0.0055	945.00	1,055.93	48.07
2495		9512	0.0000	951.61	1,056.21	45.32
2496		9516	0.0271	952.16	1,056.21	45.09
2497		952	0.0135	1,005.00	1,154.69	64.86
2498		9520	0.0129	965.66	1,152.51	80.96
2499		9522	0.0097	962.14	1,152.47	82.47
2500		9540	0.0242	945.00	1,152.97	90.11
2501		9544	0.0022	955.06	1,154.07	86.23
2502		9546	0.0020	945.00	1,154.51	90.78
2503		9550	0.0244	911.56	1,054.81	62.07
2504		9578	0.0296	934.54	1,055.41	52.37
2505		9582	0.0638	932.56	1,055.38	53.22
2506		9584	0.0487	942.07	1,055.91	49.33
2507		9596	0.0163	927.66	1,055.81	55.53
2508		9608	0.1312	925.00	1,055.19	56.41

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2509		9622	0.0129	930.84	1,057.10	54.71
2510		9632	0.0897	937.85	1,059.92	52.90
2511		9638	0.0137	947.03	1,060.93	49.35
2512		964	0.0087	1,011.18	1,154.73	62.20
2513		9640	0.0137	979.79	1,067.31	37.92
2514		9644	0.0000	975.00	1,067.31	40.00
2515		9648	0.0000	1,025.00	1,174.95	64.97
2516		9652	0.0193	1,030.09	1,260.79	99.96
2517		9660	0.0000	1,005.00	1,104.65	43.18
2518		9668	0.0567	995.75	1,155.98	69.43
2519		9670	0.0208	993.29	1,160.06	72.26
2520		9690	0.0163	953.63	1,161.86	90.22
2521		9702	0.0133	959.45	1,161.77	87.67
2522		9710	0.0130	960.42	1,161.73	87.23
2523		9718	0.0105	960.01	1,161.67	87.38
2524		9726	0.0192	962.28	1,161.71	86.41
2525		9732	0.0225	963.98	1,161.66	85.66
2526		9738	0.0040	962.18	1,161.72	86.46
2527		9744	0.0384	965.53	1,161.58	84.95
2528		9794	0.0120	941.28	1,156.01	93.04
2529		9798	0.0140	941.45	1,155.93	92.94
2530		9804	0.0123	943.52	1,156.01	92.07
2531		9816	0.0022	947.13	1,155.95	90.48
2532		9818	0.0079	946.07	1,155.95	90.94
2533		9826	0.0175	955.00	1,156.27	87.21
2534		9842	0.0057	959.52	1,156.01	85.14
2535		9864	0.0161	963.03	1,156.21	83.70
2536		9868	0.0184	965.00	1,156.66	83.04
2537		9872	0.0000	924.00	1,099.07	75.86
2538		9874	0.0330	940.22	1,098.37	68.53
2539		9876	0.0381	940.11	1,098.39	68.58
2540		988	0.0125	1,007.91	1,158.69	65.33
2541		9880	0.0140	954.72	1,157.86	88.02

Buildout Maximum Hour

		ID	Demand (mgd)	Elevation (ft)	Head (ft)	Pressure (psi)
2542		9882	0.0073	955.01	1,156.64	87.37
2543		9884	0.0313	945.00	1,156.95	91.84
2544		9886	0.0110	965.00	1,156.80	83.11
2545		9898	0.0199	964.65	1,157.67	83.64
2546		9900	0.0279	967.98	1,157.77	82.24
2547		9908	0.0146	975.00	1,158.67	79.59
2548		9910	0.0060	975.00	1,158.67	79.58
2549		9922	0.0283	965.00	1,158.40	83.80
2550		9926	0.0103	958.77	1,153.30	84.29
2551		9928	0.0173	976.18	1,153.10	76.66
2552		9932	0.0131	976.17	1,153.03	76.63
2553		9948	0.0628	976.88	1,148.67	74.44
2554		9962	0.0481	980.78	1,149.62	73.16
2555		9966	0.0729	976.25	1,148.57	74.67
2556		9992	0.1440	976.33	1,148.94	74.80

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1		1001	2,674.56	16.00	120.00	-0.92	1.02	0.85	0.32
2		1003	2,693.17	16.00	120.00	-0.78	0.86	0.62	0.23
3		1005	2,541.19	12.00	120.00	-0.34	0.67	0.52	0.20
4		1007	2,799.89	12.00	120.00	-0.10	0.19	0.06	0.02
5		101	1,293.94	16.00	140.00	-0.97	1.07	0.34	0.26
6		1011	2,861.16	16.00	120.00	0.47	0.53	0.27	0.09
7		1013	2,722.78	12.00	120.00	-0.71	1.40	2.15	0.79
8		1015	2,865.45	12.00	120.00	0.37	0.74	0.70	0.24
9		1017	2,518.85	16.00	120.00	0.07	0.08	0.01	0.00
10		1021	2,408.26	12.00	120.00	0.33	0.66	0.47	0.20
11		1023	3,778.33	24.00	120.00	6.29	3.10	5.82	1.54
12		1025	3,310.77	16.00	120.00	-0.58	0.64	0.44	0.13
13		1027	2,073.59	16.00	120.00	-1.53	1.70	1.68	0.81
14		1029	1,859.81	12.00	120.00	0.34	0.67	0.38	0.20
15		103	2,628.47	16.00	120.00	-0.34	0.38	0.13	0.05
16		1033	2,806.48	16.00	120.00	0.26	0.29	0.08	0.03
17		1035	2,633.71	12.00	120.00	0.43	0.85	0.82	0.31
18		105	2,688.94	16.00	125.00	-0.70	0.78	0.48	0.18
19		1061	2,625.43	12.00	120.00	0.11	0.22	0.07	0.03
20		106205	190.67	12.00	120.00	-0.81	1.59	0.19	1.01
21		1063	2,638.06	12.00	120.00	0.52	1.02	1.17	0.44
22		1065	1,572.05	16.00	120.00	0.12	0.13	0.01	0.01
23		1067	2,602.77	16.00	120.00	0.50	0.56	0.27	0.10
24		10671D	1,051.83	6.00	100.00	0.04	0.31	0.16	0.16
25		106766	264.16	16.00	125.00	-2.05	2.27	0.34	1.29
26		10676B	191.00	6.00	100.00	0.06	0.51	0.07	0.39
27		106770	48.13	6.00	100.00	-0.02	0.14	0.00	0.04
28		1067B4	21.07	6.00	100.00	-0.13	1.02	0.03	1.38
29		1067BF	453.93	6.00	100.00	-0.13	0.99	0.60	1.33
30		1069	2,650.96	12.00	120.00	-0.79	1.56	2.58	0.97
31		1070A5	583.34	6.00	100.00	-0.11	0.88	0.62	1.06

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
32		1071	2,634.75	12.00	120.00	0.41	0.81	0.77	0.29
33		1073	2,731.14	12.00	120.00	-0.18	0.35	0.17	0.06
34		1073F9	198.58	6.00	100.00	0.12	0.92	0.23	1.15
35		1075	2,476.39	12.00	120.00	0.61	1.21	1.50	0.61
36		1077	2,699.40	16.00	120.00	-2.38	2.64	4.96	1.84
37		1079	2,632.87	12.00	120.00	1.11	2.19	4.81	1.83
38		1081	2,619.87	24.00	120.00	-5.01	2.47	2.65	1.01
39		1083	2,540.14	12.00	120.00	0.92	1.81	3.24	1.28
40		1085	2,804.25	24.00	120.00	-2.34	1.15	0.69	0.25
41		1087	2,751.13	24.00	120.00	-3.45	1.70	1.40	0.51
42		1089	2,732.12	12.00	120.00	-0.37	0.73	0.65	0.24
43		109	2,808.71	12.00	120.00	-0.17	0.33	0.15	0.05
44		1091	2,693.78	12.00	120.00	-0.41	0.80	0.76	0.28
45		1093	2,750.24	12.00	120.00	0.16	0.31	0.13	0.05
46		1095	1,606.08	16.00	120.00	0.63	0.70	0.25	0.16
47		1097	1,308.89	16.00	120.00	0.81	0.90	0.33	0.25
48		1099	1,398.95	16.00	120.00	0.10	0.12	0.01	0.01
49		1105	5,938.19	16.00	120.00	-0.40	0.44	0.40	0.07
50		111	3,349.57	12.00	120.00	-0.40	0.78	0.91	0.27
51		1113	2,450.33	16.00	120.00	0.57	0.63	0.32	0.13
52		1115	1,071.90	16.00	120.00	0.20	0.22	0.02	0.02
53		1117	1,230.41	16.00	120.00	-0.31	0.34	0.05	0.04
54		1119	2,545.63	12.00	120.00	0.30	0.60	0.42	0.16
55		1121	1,019.90	12.00	120.00	0.08	0.16	0.02	0.01
56		1123	1,236.42	12.00	120.00	-0.25	0.48	0.14	0.11
57		1125	1,346.26	16.00	120.00	-0.03	0.04	0.000	0.000
58		1129	2,200.75	16.00	120.00	-2.01	2.23	2.97	1.35
59		113	2,662.24	16.00	125.00	-1.91	2.12	3.02	1.13
60		1131	1,314.37	16.00	120.00	0.70	0.78	0.25	0.19
61		1133	1,342.55	12.00	120.00	-0.44	0.87	0.44	0.33
62		1135	1,295.33	12.00	120.00	-0.51	1.00	0.55	0.42

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
63		1137	1,344.79	12.00	120.00	-0.75	1.48	1.19	0.88
64		1139	2,359.14	16.00	120.00	1.98	2.19	3.08	1.30
65		1141	1,302.39	16.00	120.00	2.05	2.27	1.81	1.39
66		1143	1,283.51	30.00	120.00	-6.76	2.13	0.76	0.59
67		1145	1,295.91	30.00	120.00	-8.44	2.66	1.16	0.90
68		1147	1,253.22	12.00	120.00	-0.53	1.04	0.57	0.46
69		1149	2,326.67	12.00	120.00	1.04	2.04	3.73	1.60
70		115	1,718.62	12.00	120.00	0.11	0.22	0.04	0.03
71		1151	2,405.05	16.00	120.00	-2.84	3.15	6.14	2.55
72		1153	3,007.84	16.00	120.00	-0.89	0.99	0.90	0.30
73		1155	1,560.32	16.00	120.00	-1.84	2.04	1.78	1.14
74		1157	1,290.04	12.00	120.00	1.59	3.14	4.57	3.55
75		1159	2,085.48	12.00	120.00	1.48	2.91	6.42	3.08
76		1161	2,865.17	12.00	120.00	0.84	1.66	3.14	1.09
77		1163	2,519.08	16.00	120.00	0.80	0.88	0.61	0.24
78		1165	1,931.45	16.00	120.00	-1.97	2.18	2.49	1.29
79		1167	3,275.86	16.00	120.00	-2.20	2.44	5.22	1.59
80		1169	3,544.54	16.00	120.00	-2.60	2.88	7.68	2.17
81		117	1,459.55	12.00	120.00	-0.19	0.38	0.10	0.07
82		1171	2,557.08	16.00	120.00	-2.80	3.10	6.35	2.48
83		1173	1,943.23	24.00	120.00	6.42	3.16	3.11	1.60
84		1175	4,765.74	16.00	120.00	2.45	2.72	9.25	1.94
85		1177	746.08	16.00	120.00	0.59	0.66	0.10	0.14
86		1179	3,646.58	16.00	120.00	-1.97	2.19	4.74	1.30
87		1181	2,500.16	12.00	120.00	-0.46	0.90	0.88	0.35
88		1183	2,512.28	16.00	120.00	-1.27	1.40	1.43	0.57
89		1187	3,681.31	16.00	120.00	-0.30	0.33	0.14	0.04
90		1189	1,632.34	16.00	120.00	-1.96	2.18	2.10	1.29
91		119	1,640.05	12.00	120.00	-0.47	0.92	0.60	0.37
92		1191	1,452.06	12.00	120.00	1.36	2.67	3.83	2.64
93		1193	6,043.46	12.00	120.00	0.26	0.52	0.77	0.13

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
94	1197	3,941.91	12.00	120.00	-0.30	0.59	0.62	0.16
95	1199	1,532.12	16.00	120.00	-1.03	1.15	0.60	0.39
96	1201	2,895.37	16.00	120.00	-1.59	1.77	2.53	0.87
97	1203	3,316.96	12.00	120.00	-0.58	1.15	1.82	0.55
98	1205	1,953.80	12.00	120.00	-1.22	2.41	4.23	2.17
99	1207	1,273.51	24.00	120.00	-4.75	2.34	1.17	0.92
100	1209	1,369.15	24.00	120.00	-5.16	2.54	1.46	1.07
101	121	1,132.15	12.00	120.00	-0.56	1.09	0.57	0.50
102	1211	1,660.94	16.00	120.00	-0.23	0.25	0.04	0.02
103	1213	898.89	16.00	120.00	-0.54	0.60	0.11	0.12
104	1215	1,625.29	16.00	120.00	-1.68	1.86	1.57	0.96
105	1217	2,370.21	24.00	120.00	-6.99	3.44	4.43	1.87
106	1219	2,054.35	16.00	120.00	-2.23	2.47	3.35	1.63
107	1221	2,245.28	16.00	120.00	0.39	0.43	0.15	0.07
108	1225	3,023.96	16.00	120.00	0.25	0.27	0.08	0.03
109	1227	952.33	16.00	120.00	0.13	0.15	0.01	0.01
110	1229	1,695.90	12.00	120.00	0.66	1.29	1.16	0.69
111	123	811.31	12.00	120.00	-1.36	2.67	2.14	2.63
112	1231	3,773.59	12.00	120.00	0.49	0.97	1.51	0.40
113	1233	2,804.26	16.00	120.00	0.61	0.67	0.41	0.15
114	1235	1,677.00	16.00	120.00	0.27	0.30	0.05	0.03
115	1237	1,507.96	12.00	120.00	-0.28	0.56	0.22	0.15
116	1239	3,393.03	12.00	120.00	-0.39	0.78	0.90	0.27
117	1241	2,418.39	16.00	120.00	2.49	2.76	4.84	2.00
118	1243	1,702.19	16.00	120.00	0.21	0.24	0.04	0.02
119	1249	3,010.68	16.00	120.00	0.60	0.67	0.44	0.15
120	125	462.43	16.00	125.00	-2.84	3.15	1.09	2.37
121	1251	2,742.61	16.00	120.00	-0.33	0.36	0.13	0.05
122	1253	1,327.42	16.00	120.00	-0.35	0.38	0.07	0.05
123	1257	2,381.96	16.00	120.00	-2.04	2.26	3.29	1.38
124	1259	2,358.69	16.00	120.00	2.13	2.36	3.52	1.49

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
125		1261	3,479.05	12.00	120.00	-0.94	1.85	4.65	1.34
126		1263	1,418.22	12.00	120.00	-0.49	0.97	0.57	0.41
127		1265	1,849.80	12.00	120.00	-0.90	1.76	2.25	1.22
128		1267	3,365.18	12.00	120.00	-0.87	1.72	3.90	1.16
129		1269	1,501.52	16.00	120.00	-1.79	1.98	1.62	1.08
130		1271	1,501.78	12.00	120.00	-0.61	1.21	0.91	0.61
131		1273	1,611.67	12.00	120.00	-0.93	1.84	2.12	1.32
132		1277	2,454.69	16.00	120.00	-0.95	1.05	0.82	0.34
133		1279	2,863.05	16.00	120.00	-1.02	1.13	1.09	0.38
134		1281	2,540.22	16.00	120.00	-1.09	1.21	1.11	0.44
135		1283	2,632.57	16.00	120.00	-1.30	1.44	1.58	0.60
136		1285	3,082.16	16.00	120.00	-0.91	1.01	0.96	0.31
137		1287	2,233.81	16.00	120.00	-1.63	1.81	2.04	0.91
138		1289	2,149.96	16.00	120.00	-1.77	1.97	2.29	1.06
139		1291	2,095.36	16.00	120.00	-3.20	3.55	6.67	3.18
140		1293	3,799.55	16.00	120.00	-2.56	2.84	8.00	2.11
141		1295	2,021.83	24.00	120.00	-2.61	1.28	0.61	0.30
142		1297	1,822.95	24.00	120.00	-4.12	2.03	1.29	0.71
143		1299	1,740.09	24.00	120.00	-5.52	2.72	2.10	1.21
144		1301	1,491.11	12.00	120.00	1.50	2.95	4.71	3.16
145		1303	2,345.87	12.00	120.00	1.39	2.75	6.50	2.77
146		1305	1,463.80	12.00	120.00	1.01	1.98	2.21	1.51
147		1307	2,921.03	12.00	120.00	0.65	1.29	1.99	0.68
148		1309	882.23	12.00	120.00	0.99	1.95	1.29	1.47
149		1311	1,086.91	12.00	120.00	1.04	2.06	1.76	1.62
150		1313	791.16	12.00	120.00	0.80	1.58	0.78	0.99
151		1315	964.86	12.00	120.00	0.59	1.15	0.54	0.56
152		1317	2,835.32	12.00	120.00	-0.18	0.36	0.18	0.06
153		1319	1,367.53	12.00	120.00	0.72	1.42	1.12	0.82
154		1321	2,692.63	12.00	120.00	0.25	0.49	0.30	0.11
155		1323	2,019.74	12.00	120.00	1.20	2.36	4.23	2.09

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
156	1325	4,995.08	12.00	120.00	0.92	1.81	6.36	1.27
157	1327	2,433.94	12.00	120.00	0.76	1.49	2.17	0.89
158	1329	2,388.20	12.00	120.00	-0.25	0.48	0.26	0.11
159	133	2,089.51	24.00	130.00	-1.79	0.88	0.27	0.13
160	1331	4,509.96	12.00	120.00	0.75	1.47	3.93	0.87
161	1333	4,926.81	16.00	120.00	-0.12	0.13	0.03	0.01
162	1335	1,763.54	16.00	120.00	-1.06	1.17	0.72	0.41
163	1337	2,441.56	16.00	120.00	-1.40	1.55	1.68	0.69
164	1339	574.28	16.00	120.00	5.21	5.78	4.51	7.85
165	1341	1,334.66	16.00	120.00	4.45	4.93	7.82	5.86
166	1343	1,095.69	16.00	120.00	4.09	4.53	5.47	4.99
167	1345	2,595.42	12.00	120.00	0.95	1.86	3.51	1.35
168	1347	2,450.70	16.00	120.00	0.93	1.03	0.79	0.32
169	1349	2,078.02	24.00	120.00	0.47	0.23	0.03	0.01
170	135	109.30	24.00	130.00	0.00	0.00	0.00	0.00
171	1351	2,669.17	12.00	120.00	0.67	1.31	1.88	0.70
172	1353	2,567.44	12.00	120.00	0.51	1.01	1.12	0.43
173	1355	2,839.31	12.00	120.00	0.54	1.07	1.37	0.48
174	1357	2,397.28	12.00	120.00	0.30	0.59	0.39	0.16
175	1359	2,642.31	16.00	120.00	-0.51	0.57	0.28	0.11
176	1361	2,540.23	12.00	120.00	-0.36	0.70	0.56	0.22
177	1363	2,783.12	12.00	120.00	-0.06	0.12	0.02	0.01
178	1365	2,429.45	12.00	120.00	-1.26	2.48	5.57	2.29
179	1367	2,592.28	12.00	120.00	0.63	1.25	1.67	0.64
180	1369	2,699.71	12.00	120.00	-0.41	0.81	0.77	0.29
181	1371	1,377.96	12.00	120.00	0.70	1.38	1.06	0.77
182	1373	1,177.66	12.00	120.00	0.36	0.72	0.27	0.23
183	1375	776.58	12.00	120.00	1.68	3.31	3.04	3.91
184	1377	2,312.47	12.00	120.00	1.22	2.40	5.00	2.16
185	1379	5,010.06	16.00	120.00	-0.43	0.48	0.39	0.08
186	1381	2,601.01	16.00	120.00	0.37	0.41	0.15	0.06

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
187		1383	2,652.94	16.00	120.00	-1.19	1.32	1.35	0.51
188		1385	2,572.83	16.00	120.00	-1.49	1.65	1.98	0.77
189		1387	2,471.55	24.00	120.00	-3.96	1.95	1.62	0.65
190		1389	2,832.52	16.00	120.00	0.71	0.79	0.56	0.20
191		139	329.34	24.00	130.00	0.00	0.00	0.00	0.00
192		1390E7	979.86	8.00	110.00	-0.04	0.16	0.03	0.03
193		1391	4,394.91	16.00	120.00	-0.54	0.60	0.52	0.12
194		139210	235.53	12.00	120.00	1.25	2.46	0.53	2.25
195		139211	281.97	12.00	120.00	1.02	2.00	0.43	1.54
196		139213	176.00	6.00	100.00	-0.23	1.78	0.69	3.92
197		13921F	421.13	8.00	110.00	0.13	0.58	0.13	0.30
198		139220	212.31	6.00	100.00	0.01	0.10	0.00	0.02
199		139225	321.19	6.00	100.00	0.15	1.18	0.58	1.81
200		139226	614.44	6.00	100.00	-0.16	1.23	1.21	1.97
201		139227	593.29	6.00	100.00	0.02	0.18	0.03	0.05
202		139228	276.42	6.00	100.00	0.13	1.06	0.41	1.50
203		13922C	275.83	6.00	100.00	0.14	1.06	0.42	1.50
204		13923D	176.00	6.00	100.00	-0.03	0.24	0.02	0.09
205		13923E	907.96	6.00	100.00	-0.09	0.72	0.66	0.73
206		139248	648.59	12.00	120.00	0.86	1.70	0.74	1.14
207		139249	176.00	6.00	100.00	0.14	1.11	0.29	1.63
208		1393	3,744.59	24.00	120.00	5.28	2.60	4.18	1.12
209		1395	2,682.84	12.00	120.00	0.53	1.04	1.23	0.46
210		1397	2,594.95	12.00	120.00	-0.32	0.64	0.48	0.19
211		1399	2,199.54	12.00	120.00	-0.85	1.67	2.43	1.11
212		13995C	1,014.54	8.00	110.00	-0.04	0.16	0.03	0.03
213		13996E	43.12	8.00	110.00	0.05	0.23	0.00	0.05
214		13E8C5	98.21	8.00	110.00	-0.05	0.22	0.00	0.05
215		13F24E	385.45	6.00	100.00	-0.02	0.17	0.02	0.05
216		13F24F	50.96	6.00	100.00	-0.02	0.15	0.00	0.04
217		13FCB6	44.93	6.00	100.00	-0.13	1.02	0.06	1.40

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
218		13FCCF	240.10	8.00	110.00	0.06	0.25	0.02	0.06
219		13FCF9	858.15	8.00	110.00	-0.04	0.16	0.02	0.03
220		1401	1,622.73	16.00	120.00	-1.40	1.55	1.11	0.69
221		1403	1,679.49	16.00	120.00	0.35	0.38	0.09	0.05
222		1405	2,664.48	16.00	120.00	0.53	0.58	0.30	0.11
223		1407	2,619.96	16.00	120.00	-0.29	0.32	0.10	0.04
224		1409	1,621.59	24.00	120.00	-4.36	2.15	1.27	0.78
225		1411	2,681.44	16.00	120.00	-1.94	2.15	3.37	1.26
226		1413	2,785.45	12.00	120.00	0.21	0.40	0.22	0.08
227		1415	3,660.27	12.00	120.00	-0.80	1.57	3.61	0.99
228		1417	2,484.71	12.00	120.00	-0.32	0.63	0.45	0.18
229		1419	1,152.47	12.00	120.00	-0.54	1.06	0.54	0.47
230		1421	5,729.60	12.00	120.00	0.94	1.85	7.65	1.33
231		1423	3,124.23	12.00	120.00	-0.82	1.62	3.26	1.04
232		1425	1,218.83	12.00	120.00	-2.38	4.70	9.11	7.48
233		1427	2,847.06	12.00	120.00	-0.22	0.44	0.27	0.09
234		1429	1,848.88	12.00	120.00	-0.30	0.59	0.29	0.16
235		142A4F	26.05	4.00	90.00	-0.18	3.15	0.57	21.92
236		142A55	267.95	4.00	90.00	-0.17	3.03	5.48	20.45
237		142A56	5.00	4.00	90.00	-0.17	3.07	0.10	20.83
238		142D22	346.55	16.00	125.00	-1.77	1.96	0.34	0.98
239		142D28	22.92	6.00	100.00	0.06	0.48	0.01	0.35
240		142D29	14.92	6.00	100.00	0.06	0.46	0.00	0.32
241		142D30	59.94	6.00	100.00	0.06	0.46	0.02	0.32
242		142D3E	1,208.23	6.00	100.00	-0.06	0.45	0.37	0.31
243		142D86	454.57	16.00	125.00	-1.93	2.14	0.53	1.16
244		1431	4,877.58	12.00	120.00	0.13	0.26	0.17	0.03
245		1433	2,860.48	12.00	120.00	-0.49	0.97	1.15	0.40
246		1435	1,592.90	12.00	120.00	-0.98	1.93	2.28	1.43
247		1437	2,130.95	30.00	120.00	-6.42	2.02	1.15	0.54
248		1439	1,374.44	12.00	120.00	1.37	2.70	3.68	2.68

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
249	1441	1,439.73	12.00	120.00	1.21	2.37	3.04	2.11
250	1443	1,369.73	12.00	120.00	1.00	1.96	2.04	1.49
251	1445	2,278.68	12.00	120.00	-0.88	1.74	2.70	1.19
252	1449	2,295.25	12.00	120.00	-0.53	1.04	1.05	0.46
253	145	14.65	12.00	120.00	0.000000	0.00000	0.00	0.00
254	1453	1,949.37	12.00	120.00	-0.04	0.07	0.01	0.00
255	1455	2,707.47	12.00	120.00	0.18	0.35	0.16	0.06
256	1457	2,563.74	24.00	120.00	-3.59	1.77	1.40	0.55
257	1459	2,631.62	16.00	120.00	-1.84	2.03	2.99	1.13
258	1461	2,733.04	12.00	120.00	-0.06	0.12	0.02	0.01
259	1463	2,571.02	16.00	120.00	-1.65	1.83	2.41	0.94
260	1465	1,229.68	12.00	120.00	-0.15	0.30	0.06	0.05
261	1467	1,478.21	12.00	120.00	-0.45	0.88	0.50	0.34
262	1469	6,220.97	12.00	120.00	-0.67	1.32	4.45	0.71
263	147	431.93	16.00	125.00	-1.70	1.89	0.40	0.92
264	1471	2,589.73	16.00	120.00	-0.09	0.10	0.01	0.00
265	1473	2,570.73	12.00	120.00	-0.76	1.49	2.30	0.89
266	1475	2,679.97	12.00	120.00	-0.78	1.54	2.53	0.94
267	1477	3,083.07	12.00	120.00	-0.47	0.93	1.14	0.37
268	147716	252.13	8.00	110.00	-0.06	0.27	0.02	0.07
269	14771C	198.83	8.00	110.00	-0.13	0.59	0.06	0.30
270	147727	1,678.23	8.00	110.00	-0.04	0.16	0.04	0.03
271	147774	6.51	8.00	110.00	-0.07	0.29	0.000	0.09
272	147780	478.48	8.00	110.00	0.11	0.50	0.10	0.22
273	1479	3,630.70	12.00	120.00	0.48	0.95	1.42	0.39
274	1481	5,069.63	12.00	120.00	-0.01	0.02	0.00	0.000
275	1483	2,404.64	12.00	120.00	-0.15	0.30	0.11	0.05
276	1485	2,708.88	12.00	120.00	-0.23	0.45	0.26	0.10
277	1487	2,597.75	12.00	120.00	-0.50	0.98	1.07	0.41
278	1489	1,349.27	12.00	120.00	-0.50	0.98	0.55	0.41
279	1491	3,735.98	12.00	120.00	-0.45	0.89	1.29	0.35

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
280		1491B5	53.26	8.00	110.00	-0.05	0.23	0.00	0.05
281		1491B9	395.94	6.00	100.00	-0.01	0.07	0.00	0.01
282		1491BA	41.47	6.00	100.00	-0.02	0.17	0.00	0.05
283		1491C0	126.70	8.00	110.00	0.04	0.19	0.00	0.04
284		1491D6	116.29	6.00	100.00	-0.02	0.18	0.01	0.05
285		1491DE	24.66	6.00	100.00	-0.01	0.10	0.000	0.02
286		1491DF	117.74	6.00	100.00	0.00	0.01	0.00	0.00
287		1493	3,691.72	12.00	120.00	-0.50	0.99	1.54	0.42
288		1495	3,609.35	12.00	120.00	-0.55	1.09	1.81	0.50
289		1497	2,681.40	16.00	120.00	-1.09	1.21	1.16	0.43
290		14DD20	116.79	16.00	125.00	-1.05	1.17	0.04	0.38
291		14E00C	756.56	8.00	110.00	0.02	0.10	0.01	0.01
292		14E00D	383.82	16.00	125.00	-1.95	2.16	0.45	1.18
293		14EC3A	504.38	8.00	110.00	0.03	0.15	0.01	0.02
294		14EC75	1,140.45	16.00	125.00	-1.63	1.80	0.96	0.84
295		1501	2,172.34	16.00	120.00	-0.31	0.35	0.09	0.04
296		1503	2,615.71	12.00	120.00	-0.41	0.80	0.74	0.28
297		1505	2,638.56	12.00	120.00	-0.52	1.03	1.18	0.45
298		1507	2,202.74	16.00	120.00	-0.85	0.94	0.60	0.27
299		1509	2,546.78	30.00	120.00	-5.71	1.80	1.11	0.43
300		1511	2,684.55	24.00	120.00	5.08	2.50	2.78	1.04
301		1513	2,574.03	24.00	120.00	4.46	2.20	2.10	0.82
302		1515	2,663.09	24.00	120.00	-3.04	1.50	1.06	0.40
303		1517	2,616.02	24.00	120.00	-3.76	1.85	1.55	0.59
304		1519	2,616.52	12.00	120.00	-0.15	0.30	0.12	0.05
305		1521	2,156.74	12.00	120.00	0.24	0.47	0.23	0.11
306		1523	2,514.80	12.00	120.00	-0.54	1.06	1.19	0.47
307		1525	2,845.42	12.00	120.00	-0.56	1.11	1.47	0.52
308		1527	2,753.28	12.00	120.00	-0.81	1.59	2.77	1.01
309		1529	2,868.09	24.00	120.00	-3.49	1.72	1.48	0.52
310		1531	2,708.24	12.00	120.00	-0.10	0.20	0.06	0.02

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
311		1533	2,569.73	12.00	120.00	-0.38	0.75	0.64	0.25
312		1535	2,754.81	12.00	120.00	-0.31	0.62	0.48	0.18
313		1537	2,663.08	12.00	120.00	-0.69	1.35	1.98	0.74
314		1539	2,661.50	16.00	120.00	-1.15	1.28	1.28	0.48
315		1541	1,748.03	16.00	120.00	0.17	0.19	0.02	0.01
316		1543	2,618.26	12.00	120.00	-0.77	1.52	2.43	0.93
317		1545	2,695.26	16.00	120.00	1.44	1.60	1.96	0.73
318		1547	2,528.15	16.00	120.00	0.65	0.72	0.42	0.17
319		1549	2,630.73	16.00	120.00	0.40	0.45	0.18	0.07
320		155	318.46	16.00	125.00	-1.33	1.47	0.18	0.58
321		1551	1,432.44	16.00	120.00	0.07	0.08	0.00	0.00
322		1553	1,288.68	16.00	120.00	-0.31	0.34	0.05	0.04
323		1555	1,951.44	16.00	120.00	-0.11	0.13	0.01	0.01
324		1557	1,992.71	16.00	120.00	-0.45	0.50	0.17	0.08
325		1559	2,669.96	12.00	120.00	0.21	0.42	0.22	0.08
326		1561	2,566.93	12.00	120.00	-0.14	0.27	0.10	0.04
327		1563	2,592.47	12.00	120.00	-0.34	0.66	0.52	0.20
328		1565	2,643.80	12.00	120.00	-0.39	0.77	0.70	0.26
329		1567	1,387.27	24.00	120.00	3.09	1.52	0.57	0.41
330		1569	4,394.60	16.00	120.00	0.79	0.87	1.04	0.24
331		157	603.42	12.00	120.00	0.34	0.68	0.12	0.21
332		1571	2,904.62	12.00	120.00	-0.44	0.87	0.96	0.33
333		1573	5,073.07	12.00	120.00	0.49	0.97	2.04	0.40
334		1575	6,731.77	16.00	120.00	-1.13	1.25	3.09	0.46
335		1577	1,917.26	12.00	120.00	-0.76	1.49	1.72	0.90
336		1579	1,874.66	12.00	120.00	-0.59	1.16	1.05	0.56
337		1581	1,314.02	16.00	120.00	-0.74	0.82	0.28	0.21
338		1583	2,485.53	12.00	120.00	-0.05	0.11	0.02	0.01
339		1585	2,015.25	16.00	130.00	-2.01	2.23	2.34	1.16
340		1587	2,738.82	12.00	120.00	-0.20	0.39	0.21	0.07
341		1589	2,861.82	12.00	120.00	-0.60	1.19	1.69	0.59

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
342		159	260.91	8.00	110.00	0.01	0.04	0.000	0.00
343		1591	4,210.45	12.00	120.00	-0.45	0.88	1.42	0.34
344		1593	2,700.63	16.00	120.00	-0.83	0.92	0.70	0.26
345		1597	2,604.16	12.00	120.00	-0.33	0.65	0.50	0.19
346		1599	2,657.44	12.00	120.00	0.04	0.07	0.01	0.00
347		15B63E	20.00	12.00	120.00	-0.10	0.20	0.000	0.02
348		15C320	187.00	6.00	100.00	-0.04	0.33	0.03	0.17
349		15C323	161.36	8.00	110.00	-0.31	1.39	0.24	1.49
350		15FCCF	9.00	16.00	125.00	0.91	1.01	0.00	0.28
351		15FCD6	486.99	12.00	90.00	-0.02	0.03	0.000	0.00
352		1601	2,687.99	12.00	120.00	-0.36	0.71	0.61	0.23
353		1603	1,412.46	24.00	140.00	1.68	0.83	0.14	0.10
354		1605	1,028.31	12.00	120.00	0.76	1.50	0.92	0.90
355		1607	5,142.01	16.00	120.00	0.76	0.85	1.15	0.22
356		1609	3,294.24	12.00	120.00	0.12	0.23	0.09	0.03
357		161	882.49	6.00	100.00	0.04	0.35	0.17	0.19
358		1611	2,607.32	12.00	120.00	-0.27	0.54	0.36	0.14
359		1613	1,033.85	16.00	120.00	0.20	0.22	0.02	0.02
360		1615	2,957.89	16.00	120.00	0.55	0.61	0.37	0.12
361		1617	2,005.04	16.00	120.00	3.03	3.35	5.74	2.87
362		1619	2,328.01	16.00	120.00	2.44	2.71	4.48	1.92
363		1621	2,281.61	12.00	120.00	1.74	3.42	9.48	4.15
364		1623	5,448.47	12.00	120.00	-0.55	1.08	2.68	0.49
365		1625	2,739.05	16.00	120.00	-2.80	3.10	6.79	2.48
366		1627	3,391.94	16.00	120.00	-3.11	3.45	10.23	3.02
367		1629	2,873.21	12.00	120.00	0.02	0.03	0.00	0.000
368		163	637.56	8.00	110.00	0.14	0.60	0.20	0.31
369		1631	1,435.46	12.00	120.00	0.78	1.53	1.35	0.94
370		1633	2,733.06	12.00	120.00	0.43	0.85	0.87	0.32
371		1639	1,362.57	16.00	120.00	1.61	1.79	1.22	0.89
372		1641	1,330.35	16.00	120.00	1.45	1.61	0.98	0.74

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
373		1643	2,540.74	16.00	120.00	2.46	2.73	4.97	1.96
374		1645	2,668.91	16.00	120.00	-1.06	1.17	1.09	0.41
375		1647	2,596.59	16.00	120.00	-2.70	2.99	6.01	2.31
376		165	215.03	8.00	110.00	0.16	0.69	0.09	0.40
377		1653	759.19	16.00	125.00	3.32	3.68	2.39	3.15
378		1655	1,384.84	12.00	120.00	1.12	2.21	2.56	1.85
379		1657	1,298.22	16.00	120.00	-3.61	4.00	5.16	3.98
380		1659	1,327.38	12.00	120.00	0.82	1.62	1.38	1.04
381		1661	2,553.32	12.00	120.00	-0.60	1.18	1.48	0.58
382		1663	1,735.55	12.00	120.00	1.22	2.40	3.75	2.16
383		1665	1,545.02	24.00	120.00	5.82	2.87	2.06	1.33
384		1667	3,765.93	24.00	120.00	3.91	1.93	2.41	0.64
385		1669	2,364.98	12.00	120.00	1.22	2.41	5.12	2.17
386		167	217.94	8.00	110.00	-0.13	0.56	0.06	0.27
387		1671	3,688.63	12.00	120.00	0.41	0.80	1.04	0.28
388		1673	1,510.64	12.00	120.00	-0.69	1.35	1.13	0.75
389		1675	4,380.17	16.00	125.00	0.17	0.19	0.05	0.01
390		1677	933.72	12.00	120.00	-0.95	1.88	1.28	1.37
391		1679	2,776.31	12.00	120.00	0.26	0.51	0.35	0.12
392		1681	2,560.64	12.00	120.00	-0.05	0.10	0.02	0.01
393		1683	1,092.55	12.00	120.00	-0.33	0.64	0.21	0.19
394		1685	2,654.44	16.00	120.00	-0.49	0.55	0.26	0.10
395		1687	2,716.35	16.00	120.00	-2.00	2.22	3.61	1.33
396		1689	4,139.73	12.00	120.00	0.17	0.33	0.22	0.05
397		169	920.73	8.00	110.00	-0.07	0.30	0.08	0.08
398		1691	2,818.12	12.00	120.00	-0.26	0.51	0.34	0.12
399		1693	4,042.93	12.00	120.00	-0.13	0.26	0.15	0.04
400		1695	2,645.45	12.00	120.00	-0.69	1.37	2.01	0.76
401		1697	2,703.61	12.00	120.00	0.64	1.25	1.75	0.65
402		1699	1,392.83	12.00	120.00	-0.45	0.90	0.48	0.35
403		1701	1,670.33	12.00	120.00	-0.23	0.45	0.16	0.10

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
404		1705	2,282.37	12.00	120.00	0.14	0.28	0.09	0.04
405		1707	1,374.28	12.00	120.00	0.09	0.19	0.03	0.02
406		1709	1,586.91	12.00	120.00	-0.27	0.54	0.22	0.14
407		171	829.40	6.00	100.00	0.02	0.19	0.05	0.06
408		1711	1,321.90	12.00	120.00	-0.05	0.10	0.01	0.01
409		1713	1,298.52	12.00	120.00	-0.11	0.22	0.03	0.03
410		1719	2,580.52	12.00	120.00	0.88	1.73	3.04	1.18
411		1721	2,182.67	12.00	120.00	0.10	0.21	0.05	0.02
412		1723	2,749.56	16.00	120.00	-1.44	1.60	1.99	0.72
413		1725	2,067.91	12.00	120.00	-0.20	0.40	0.16	0.08
414		1727	1,076.34	12.00	120.00	-0.39	0.77	0.28	0.26
415		1729	969.69	16.00	120.00	-1.05	1.17	0.39	0.40
416		173	235.06	6.00	100.00	-0.06	0.45	0.07	0.31
417		1731	1,184.76	12.00	120.00	-0.43	0.86	0.38	0.32
418		1733	3,899.28	12.00	120.00	-0.69	1.35	2.91	0.75
419		1735	610.15	16.00	120.00	-0.36	0.40	0.03	0.06
420		1737	1,471.92	12.00	120.00	-0.14	0.28	0.06	0.04
421		1739	1,527.97	16.00	120.00	-2.71	3.00	3.56	2.33
422		1741	5,161.77	16.00	120.00	0.55	0.61	0.64	0.12
423		1745	1,020.09	16.00	120.00	-0.43	0.48	0.08	0.08
424		1747	1,246.29	16.00	120.00	1.16	1.29	0.61	0.49
425		1749	1,502.29	12.00	120.00	-0.25	0.48	0.17	0.11
426		175	132.26	12.00	120.00	0.75	1.48	0.12	0.88
427		1753	1,799.78	16.00	120.00	0.68	0.75	0.32	0.18
428		1755	1,518.99	16.00	120.00	-0.75	0.84	0.33	0.22
429		1761	3,010.08	12.00	120.00	0.04	0.07	0.01	0.00
430		1763	1,599.69	12.00	120.00	0.04	0.07	0.01	0.00
431		1765	3,010.22	12.00	120.00	-0.06	0.11	0.02	0.01
432		1767	3,155.66	24.00	120.00	0.13	0.06	0.00	0.00
433		1769	1,301.63	12.00	120.00	0.04	0.08	0.01	0.00
434		177	352.22	12.00	120.00	-0.18	0.36	0.02	0.06

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
435		1771	3,222.48	12.00	120.00	0.21	0.41	0.26	0.08
436		1775	2,723.66	12.00	120.00	-0.43	0.85	0.87	0.32
437		1777	2,799.51	16.00	120.00	-0.47	0.52	0.25	0.09
438		1779	2,680.18	12.00	120.00	0.50	0.99	1.12	0.42
439		1781	2,762.92	16.00	120.00	-1.10	1.22	1.22	0.44
440		1783	2,678.61	16.00	120.00	1.56	1.72	2.24	0.83
441		1785	2,472.35	12.00	120.00	0.71	1.40	1.96	0.79
442		1787	2,686.07	12.00	120.00	0.42	0.84	0.82	0.31
443		1789	2,389.69	12.00	120.00	0.36	0.71	0.54	0.23
444		179	440.29	12.00	120.00	-0.24	0.47	0.05	0.10
445		1791	2,333.22	12.00	120.00	0.33	0.65	0.45	0.19
446		1793	3,017.40	12.00	120.00	-0.17	0.34	0.18	0.06
447		1795	2,731.00	12.00	120.00	-0.30	0.60	0.45	0.16
448		1797	2,884.36	12.00	120.00	0.27	0.52	0.37	0.13
449		1799	2,767.04	12.00	120.00	-0.78	1.54	2.63	0.95
450		1801	3,018.27	24.00	120.00	3.74	1.84	1.78	0.59
451		1803	2,613.55	12.00	120.00	0.91	1.80	3.30	1.26
452		1805	1,901.50	12.00	120.00	0.36	0.71	0.43	0.23
453		1807	3,070.12	12.00	120.00	-0.84	1.65	3.31	1.08
454		1809	4,404.99	16.00	120.00	-2.04	2.26	6.08	1.38
455		181	432.94	12.00	120.00	0.52	1.03	0.19	0.45
456		1811	4,434.10	16.00	120.00	-2.24	2.49	7.30	1.65
457		1813	4,611.70	12.00	120.00	0.18	0.36	0.30	0.06
458		18139F	698.20	6.00	100.00	0.00	0.03	0.00	0.00
459		1813C1	372.20	6.00	100.00	-0.06	0.46	0.12	0.32
460		1815	2,786.24	12.00	120.00	0.01	0.02	0.000	0.000
461		1817	3,537.79	16.00	120.00	-0.82	0.90	0.90	0.25
462		1819	2,479.54	12.00	120.00	0.36	0.71	0.55	0.22
463		1821	3,522.50	12.00	120.00	-0.68	1.33	2.55	0.73
464		1823	3,904.20	12.00	120.00	0.65	1.27	2.59	0.66
465		1825	2,804.89	12.00	120.00	0.58	1.14	1.52	0.54

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
466	1827	3,234.68	12.00	120.00	0.91	1.80	4.10	1.27
467	1829	2,103.01	12.00	120.00	-0.01	0.01	0.000	0.000
468	183	274.33	12.00	120.00	-0.69	1.36	0.21	0.76
469	1831	3,065.29	12.00	120.00	-0.76	1.51	2.79	0.91
470	1833	2,440.02	12.00	120.00	0.47	0.93	0.91	0.37
471	1835	2,734.66	12.00	120.00	-0.37	0.73	0.65	0.24
472	1837	2,396.95	12.00	120.00	-0.24	0.48	0.26	0.11
473	1839	3,238.25	12.00	120.00	-0.96	1.89	4.49	1.39
474	1841	2,435.33	24.00	120.00	1.01	0.50	0.13	0.05
475	1843	3,154.62	24.00	120.00	-2.97	1.46	1.21	0.38
476	1845	4,467.24	16.00	120.00	1.99	2.20	5.88	1.32
477	1847	2,482.48	12.00	120.00	-0.19	0.38	0.17	0.07
478	1849	2,691.31	12.00	120.00	0.45	0.89	0.92	0.34
479	185	590.74	12.00	120.00	-0.16	0.31	0.03	0.05
480	1851	2,593.41	12.00	120.00	-0.31	0.61	0.45	0.17
481	1853	2,363.85	30.00	120.00	-8.36	2.63	2.08	0.88
482	1855	1,637.87	24.00	120.00	8.33	4.10	4.25	2.59
483	1857	3,980.68	24.00	120.00	4.75	2.34	3.64	0.92
484	1859	1,716.09	18.00	120.00	-2.22	1.94	1.56	0.91
485	1861	3,753.51	18.00	120.00	-1.99	1.74	2.79	0.74
486	1863	4,012.80	18.00	120.00	-2.58	2.26	4.83	1.20
487	1865	1,497.42	18.00	120.00	-2.97	2.60	2.34	1.56
488	1867	2,639.90	16.00	120.00	-0.56	0.62	0.33	0.12
489	1869	2,482.63	16.00	120.00	-1.39	1.54	1.68	0.67
490	187	805.33	6.00	100.00	-0.05	0.36	0.16	0.20
491	1871	2,500.60	16.00	120.00	0.65	0.72	0.42	0.17
492	1873	733.65	12.00	120.00	-0.62	1.23	0.46	0.62
493	1875	2,375.49	12.00	120.00	-0.51	1.00	1.02	0.43
494	1877	2,041.12	12.00	120.00	0.37	0.72	0.47	0.23
495	1879	2,805.33	24.00	120.00	-4.36	2.15	2.19	0.78
496	1881	2,573.98	16.00	120.00	-1.59	1.77	2.25	0.87

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
497	1883	2,709.76	16.00	120.00	-1.90	2.10	3.27	1.21
498	1885	2,633.66	12.00	120.00	-0.12	0.24	0.08	0.03
499	1889	559.87	12.00	120.00	0.17	0.33	0.03	0.06
500	189	289.44	12.00	120.00	0.83	1.63	0.30	1.05
501	1891	3,158.16	12.00	120.00	0.11	0.21	0.07	0.02
502	1893	1,986.81	16.00	120.00	-0.34	0.38	0.10	0.05
503	1895	3,043.30	12.00	120.00	0.28	0.55	0.43	0.14
504	1897	3,756.51	16.00	120.00	-0.54	0.59	0.44	0.12
505	1899	3,122.99	12.00	120.00	0.55	1.09	1.55	0.50
506	19	682.03	12.00	120.00	-0.70	1.37	0.52	0.77
507	1901	3,712.88	12.00	120.00	-0.12	0.23	0.10	0.03
508	1903	1,541.72	12.00	120.00	-0.83	1.63	1.62	1.05
509	1907	3,384.38	12.00	120.00	0.41	0.81	0.97	0.29
510	191	593.28	12.00	120.00	0.98	1.93	0.86	1.44
511	1911	2,678.95	16.00	120.00	-0.72	0.79	0.53	0.20
512	1913	2,458.89	12.00	120.00	-0.34	0.66	0.49	0.20
513	1917	2,482.23	16.00	120.00	0.01	0.01	0.000	0.0000
514	1921	2,562.37	12.00	120.00	-0.11	0.22	0.07	0.03
515	1923	2,658.44	16.00	120.00	-0.38	0.42	0.16	0.06
516	1925	2,503.29	12.00	120.00	-0.14	0.27	0.10	0.04
517	1927	2,736.10	12.00	120.00	-0.15	0.30	0.12	0.04
518	1929	2,513.46	16.00	120.00	-0.52	0.58	0.28	0.11
519	193	1,360.07	6.00	100.00	0.06	0.47	0.44	0.33
520	1931	2,742.56	16.00	120.00	0.52	0.58	0.30	0.11
521	1933	2,380.62	16.00	120.00	0.62	0.68	0.36	0.15
522	1935	2,567.44	12.00	120.00	0.13	0.25	0.08	0.03
523	1937	2,429.25	12.00	120.00	-0.19	0.37	0.16	0.07
524	1939	2,766.55	16.00	120.00	0.35	0.38	0.14	0.05
525	1941	2,451.94	16.00	120.00	0.19	0.21	0.04	0.02
526	1943	2,781.53	12.00	120.00	-0.13	0.27	0.10	0.04
527	1945	1,948.76	16.00	120.00	0.35	0.39	0.10	0.05

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
528		1947	2,370.04	12.00	120.00	0.07	0.14	0.03	0.01
529		1949	1,924.78	12.00	120.00	-0.15	0.30	0.09	0.05
530		195	689.38	6.00	100.00	0.01	0.11	0.02	0.02
531		1951	1,803.64	16.00	120.00	0.22	0.24	0.04	0.02
532		1953	2,345.36	12.00	120.00	0.08	0.15	0.03	0.01
533		1955	1,857.41	12.00	120.00	-0.11	0.21	0.04	0.02
534		1957	2,569.34	12.00	120.00	-0.14	0.28	0.10	0.04
535		1959	1,939.71	12.00	120.00	-0.16	0.31	0.10	0.05
536		1961	2,560.35	12.00	120.00	0.18	0.35	0.16	0.06
537		1963	1,811.70	12.00	120.00	-0.26	0.52	0.23	0.13
538		1965	2,452.14	16.00	120.00	0.54	0.60	0.29	0.12
539		1967	2,747.26	12.00	120.00	-0.18	0.35	0.17	0.06
540		1969	2,424.81	12.00	120.00	0.27	0.53	0.31	0.13
541		197	452.00	6.00	100.00	-0.01	0.10	0.01	0.02
542		1971	2,445.55	12.00	120.00	-0.37	0.73	0.58	0.24
543		1973	2,416.57	24.00	120.00	2.20	1.08	0.53	0.22
544		1975	2,766.57	12.00	120.00	0.19	0.37	0.18	0.07
545		1977	2,566.14	12.00	120.00	0.38	0.76	0.65	0.25
546		1981	2,744.55	16.00	120.00	-1.09	1.20	1.18	0.43
547		1983	2,686.40	12.00	120.00	-0.11	0.22	0.07	0.02
548		1985	2,683.57	16.00	120.00	-0.04	0.05	0.00	0.000
549		1987	2,686.40	12.00	120.00	0.53	1.05	1.25	0.46
550		1989	2,767.44	16.00	120.00	-0.40	0.44	0.18	0.07
551		199	483.92	8.00	110.00	-0.01	0.04	0.000	0.00
552		1991	2,806.66	24.00	120.00	3.21	1.58	1.25	0.44
553		1993	2,405.80	16.00	120.00	0.80	0.89	0.59	0.24
554		1995	2,846.47	12.00	120.00	0.51	1.01	1.24	0.43
555		1997	2,797.26	16.00	120.00	0.62	0.69	0.43	0.15
556		1999	2,783.91	16.00	120.00	0.98	1.08	0.98	0.35
557		19DE63	19.68	12.00	120.00	-0.18	0.35	0.00	0.06
558		19DE69	998.82	12.00	120.00	-0.13	0.26	0.04	0.04

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
559		19DEDB	19.61	6.00	100.00	0.13	1.06	0.03	1.49
560		19DEE7	369.33	12.00	120.00	-0.31	0.62	0.06	0.18
561		19DEFB	656.03	8.00	110.00	-0.03	0.13	0.01	0.02
562		19DF59	876.46	8.00	110.00	0.14	0.61	0.28	0.32
563		19E02F	2,272.41	8.00	110.00	0.21	0.95	1.66	0.73
564		19E0A6	1,222.10	8.00	110.00	0.11	0.49	0.26	0.21
565		1AC260	484.00	8.00	110.00	0.58	2.58	2.25	4.65
566		1AC2B7	774.79	8.00	110.00	-0.35	1.55	1.40	1.81
567		1AC2E4	109.28	12.00	120.00	-0.00	0.01	0.00	0.00
568		1AC2E5	89.25	12.00	120.00	0.65	1.28	0.06	0.68
569		1AC2E6	286.91	12.00	120.00	-0.65	1.28	0.19	0.67
570		1AC34D	127.09	8.00	110.00	-0.64	2.82	0.70	5.48
571		1AC3DC	1,227.77	8.00	110.00	-0.27	1.21	1.40	1.14
572		1AC40C	59.86	8.00	110.00	-0.55	2.42	0.25	4.14
573		1C2670	170.00	4.00	90.00	-0.02	0.34	0.06	0.35
574		1D729B	182.60	6.00	100.00	0.01	0.10	0.00	0.02
575		1DFD09	89.36	12.00	120.00	0.76	1.49	0.08	0.89
576		1DFD39	1,052.12	8.00	110.00	0.17	0.76	0.51	0.48
577		2001	2,791.17	12.00	120.00	-0.30	0.59	0.44	0.16
578		2003	1,953.83	16.00	120.00	-0.46	0.51	0.17	0.09
579		2005	2,705.77	12.00	120.00	0.33	0.65	0.52	0.19
580		2007	1,735.44	16.00	120.00	-1.04	1.15	0.69	0.40
581		201	280.00	6.00	100.00	0.05	0.37	0.06	0.21
582		2013	2,366.60	30.00	120.00	-4.79	1.51	0.74	0.31
583		2015	2,693.56	16.00	120.00	3.24	3.59	8.73	3.24
584		2017	2,064.60	16.00	120.00	-1.64	1.82	1.90	0.92
585		2019	2,761.14	16.00	120.00	-1.82	2.01	3.07	1.11
586		2021	1,982.98	16.00	120.00	-1.71	1.90	1.98	1.00
587		2023	2,253.64	16.00	120.00	-4.60	5.09	13.99	6.21
588		2025	2,676.53	16.00	120.00	-1.83	2.03	3.03	1.13
589		2027	2,685.09	16.00	120.00	1.35	1.50	1.73	0.64

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
590	2029	2,636.42	16.00	120.00	-3.29	3.64	8.80	3.34
591	203	185.00	6.00	100.00	0.00	0.01	0.00	0.00
592	2031	2,711.86	12.00	120.00	-0.08	0.15	0.00	0.000
593	2033	2,538.80	12.00	120.00	0.20	0.40	0.15	0.06
594	2035	2,277.03	12.00	120.00	-1.24	2.44	5.05	2.22
595	2037	2,114.69	12.00	120.00	-0.66	1.30	1.47	0.70
596	2039	2,784.31	12.00	120.00	-0.31	0.61	0.48	0.17
597	204084	157.37	8.00	110.00	0.04	0.16	0.00	0.03
598	20408A	801.31	6.00	100.00	0.07	0.56	0.37	0.46
599	204090	640.96	6.00	100.00	0.06	0.47	0.21	0.33
600	204093	234.86	6.00	100.00	-0.06	0.48	0.08	0.34
601	204096	2,665.85	16.00	125.00	0.58	0.64	0.33	0.12
602	20409F	233.64	6.00	100.00	-0.00	0.04	0.000	0.00
603	2040A5	629.91	16.00	125.00	-1.75	1.94	0.61	0.96
604	2040CF	477.78	16.00	125.00	0.04	0.04	0.000	0.000
605	2040D5	507.17	8.00	110.00	-0.04	0.17	0.02	0.03
606	2041	2,531.63	12.00	120.00	0.59	1.15	1.41	0.56
607	2043	2,530.03	12.00	120.00	-0.07	0.13	0.02	0.01
608	2045	2,403.53	12.00	120.00	-1.17	2.30	4.78	1.99
609	2049	888.22	12.00	120.00	0.49	0.97	0.36	0.40
610	205	303.14	6.00	100.00	0.05	0.40	0.08	0.25
611	2051	3,375.24	12.00	120.00	0.38	0.75	0.84	0.25
612	2053	2,625.45	16.00	120.00	-0.84	0.93	0.69	0.26
613	2055	2,535.45	16.00	120.00	1.31	1.46	1.55	0.61
614	2057	318.27	16.00	120.00	1.31	1.46	0.19	0.61
615	2059	3,015.78	24.00	120.00	-2.16	1.06	0.64	0.21
616	2061	2,259.32	24.00	120.00	-3.39	1.67	1.11	0.49
617	2063	2,017.60	12.00	120.00	-1.01	2.00	3.10	1.53
618	2065	2,611.61	16.00	120.00	-0.57	0.63	0.34	0.13
619	2069	1,136.08	30.00	120.00	-11.29	3.56	1.74	1.54
620	207	1,276.49	6.00	100.00	-0.06	0.48	0.44	0.35

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
621		2071	1,758.02	30.00	120.00	-11.51	3.63	2.80	1.59
622		2073	2,188.91	16.00	120.00	-3.66	4.05	8.91	4.07
623		2079	2,413.55	12.00	120.00	0.31	0.62	0.42	0.17
624		2081	2,594.56	12.00	120.00	0.18	0.35	0.16	0.06
625		2083	2,353.40	12.00	120.00	-0.35	0.70	0.51	0.22
626		2085	2,596.14	12.00	120.00	0.38	0.76	0.66	0.25
627		2087	2,290.28	16.00	120.00	-0.09	0.10	0.01	0.00
628		209	200.97	8.00	110.00	0.14	0.63	0.07	0.34
629		2093	2,644.74	12.00	120.00	0.25	0.49	0.30	0.11
630		2095	2,754.90	16.00	120.00	-0.42	0.47	0.21	0.08
631		2097	1,345.34	12.00	120.00	0.63	1.24	0.86	0.64
632		2099	948.81	16.00	120.00	1.00	1.11	0.35	0.37
633		21	154.67	8.00	110.00	0.13	0.56	0.04	0.27
634		2101	2,210.35	16.00	120.00	-1.18	1.31	1.11	0.50
635		2103	1,290.47	12.00	120.00	0.51	1.00	0.55	0.43
636		2105	2,480.35	16.00	120.00	-1.84	2.04	2.83	1.14
637		2107	2,275.17	12.00	120.00	0.55	1.09	1.13	0.50
638		2109	4,173.98	24.00	120.00	-2.62	1.29	1.27	0.30
639		210D91	630.83	8.00	110.00	0.16	0.69	0.25	0.40
640		210D94	24.86	8.00	110.00	0.13	0.57	0.01	0.28
641		210D99	691.10	8.00	110.00	-0.02	0.11	0.01	0.01
642		210DAA	314.17	8.00	110.00	-0.01	0.05	0.00	0.00
643		210DAE	123.45	8.00	110.00	0.13	0.58	0.04	0.29
644		210DBF	162.29	6.00	100.00	-0.00	0.01	0.00	0.00
645		210DDE	692.80	8.00	110.00	0.10	0.44	0.12	0.18
646		210E06	427.14	8.00	110.00	-0.07	0.29	0.04	0.08
647		210E13	120.71	6.00	100.00	-0.00	0.03	0.000	0.00
648		210E1F	124.21	6.00	100.00	-0.00	0.04	0.000	0.00
649		210E20	28.05	8.00	110.00	0.08	0.35	0.00	0.11
650		210E25	291.81	8.00	110.00	-0.09	0.40	0.04	0.14
651		210F40	308.92	6.00	100.00	-0.06	0.44	0.09	0.29

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
652	210F44	170.43	6.00	100.00	-0.06	0.46	0.06	0.32
653	210F45	362.83	6.00	100.00	-0.11	0.85	0.36	0.99
654	210F49	213.58	20.00	130.00	-2.40	1.70	0.12	0.54
655	210F4E	34.17	8.00	110.00	0.17	0.77	0.02	0.49
656	210F8D	737.30	6.00	100.00	-0.03	0.21	0.06	0.07
657	211	280.01	6.00	100.00	-0.07	0.57	0.13	0.47
658	2111	3,661.36	24.00	120.00	7.22	3.56	7.28	1.99
659	2113	3,763.91	24.00	120.00	1.85	0.91	0.60	0.16
660	2115	1,332.22	12.00	120.00	1.05	2.07	2.18	1.63
661	2117	2,381.87	12.00	120.00	0.23	0.46	0.24	0.10
662	2119	2,102.03	12.00	120.00	-0.38	0.74	0.52	0.25
663	2121	2,739.15	12.00	120.00	0.43	0.84	0.85	0.31
664	2123	2,792.00	16.00	120.00	-0.49	0.54	0.27	0.10
665	2125	3,039.31	12.00	120.00	0.73	1.44	2.55	0.84
666	2127	3,769.10	12.00	120.00	-0.26	0.50	0.45	0.12
667	2129	2,567.97	12.00	120.00	0.37	0.72	0.60	0.23
668	212F53	359.01	8.00	110.00	0.12	0.54	0.09	0.26
669	213	631.49	6.00	100.00	0.02	0.18	0.04	0.06
670	2131	3,637.62	16.00	120.00	-0.47	0.52	0.34	0.09
671	2133	2,528.50	12.00	120.00	0.20	0.39	0.19	0.07
672	213447	472.52	8.00	110.00	0.08	0.34	0.05	0.11
673	2135	2,636.44	12.00	120.00	0.05	0.09	0.01	0.01
674	2137	2,999.88	12.00	120.00	-0.07	0.13	0.03	0.01
675	2139	2,703.09	12.00	120.00	0.01	0.02	0.00	0.000
676	2141	2,524.64	12.00	120.00	-0.19	0.37	0.17	0.07
677	2143	2,567.58	24.00	120.00	-0.13	0.06	0.00	0.00
678	2145	2,681.46	24.00	120.00	-1.03	0.51	0.15	0.05
679	2145EE	1,584.47	16.00	125.00	3.46	3.84	5.40	3.41
680	21461B	1,381.83	16.00	125.00	5.09	5.64	9.61	6.95
681	21467D	392.22	16.00	125.00	3.03	3.36	1.05	2.67
682	2147	3,371.11	24.00	120.00	-1.56	0.77	0.39	0.12

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
683	2149	2,741.73	12.00	120.00	0.50	0.98	1.12	0.41
684	215	760.94	6.00	100.00	-0.04	0.28	0.09	0.12
685	2151	2,262.15	12.00	120.00	-0.24	0.48	0.25	0.11
686	2153	2,682.68	12.00	120.00	0.75	1.48	2.38	0.89
687	2155	2,238.46	12.00	120.00	-0.56	1.10	1.14	0.51
688	2157	2,917.12	12.00	120.00	-0.36	0.70	0.65	0.22
689	2159	2,963.43	12.00	120.00	0.05	0.09	0.02	0.01
690	2161	2,426.91	12.00	120.00	-0.21	0.40	0.19	0.08
691	2163	3,448.60	12.00	120.00	0.31	0.61	0.59	0.17
692	2165	1,657.75	12.00	120.00	0.59	1.17	0.94	0.57
693	2167	1,392.03	16.00	120.00	-0.28	0.32	0.05	0.04
694	2169	3,039.76	24.00	120.00	6.65	3.28	5.20	1.71
695	217	689.84	6.00	100.00	0.01	0.06	0.01	0.01
696	2171	2,305.44	24.00	120.00	6.65	3.28	3.94	1.71
697	2175	1,505.85	16.00	120.00	2.54	2.82	3.13	2.08
698	2177	3,177.11	12.00	120.00	1.11	2.20	5.81	1.83
699	2179	3,715.21	16.00	120.00	-1.01	1.12	1.40	0.38
700	2181	2,303.36	16.00	120.00	-0.56	0.62	0.29	0.13
701	2183	2,587.61	12.00	120.00	-0.70	1.38	1.99	0.77
702	2185	2,339.40	12.00	120.00	0.77	1.52	2.17	0.93
703	2187	3,761.35	12.00	120.00	0.72	1.43	3.09	0.82
704	2189	3,806.21	16.00	120.00	-1.83	2.02	4.28	1.12
705	219	280.06	6.00	100.00	-0.06	0.45	0.09	0.31
706	2191	2,329.18	12.00	120.00	-0.70	1.37	1.79	0.77
707	2195	2,427.82	12.00	120.00	0.26	0.51	0.30	0.12
708	2197	3,715.14	12.00	120.00	-1.16	2.29	7.34	1.97
709	2199	2,118.36	12.00	120.00	-0.35	0.69	0.45	0.21
710	2201	1,594.89	12.00	120.00	-0.35	0.69	0.34	0.21
711	2203	2,987.07	12.00	120.00	0.44	0.86	0.97	0.32
712	2205	3,973.69	16.00	120.00	-2.21	2.45	6.34	1.60
713	2207	1,354.68	12.00	120.00	0.79	1.55	1.30	0.96

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
714		2207AC	1,318.39	6.00	100.00	-0.04	0.30	0.19	0.14
715		2207AE	647.66	6.00	100.00	0.03	0.26	0.07	0.11
716		2207B4	1,618.51	6.00	100.00	0.09	0.73	1.22	0.75
717		2207CC	14.01	6.00	100.00	-0.12	0.97	0.02	1.27
718		2207D3	369.24	6.00	100.00	-0.11	0.90	0.41	1.10
719		2207D7	628.81	6.00	100.00	0.13	1.01	0.86	1.38
720		2207FD	652.94	6.00	100.00	0.06	0.45	0.20	0.31
721		22080A	647.66	6.00	100.00	0.04	0.34	0.12	0.19
722		220896	664.72	6.00	100.00	-0.02	0.18	0.04	0.05
723		220898	777.37	6.00	100.00	0.13	0.99	1.02	1.31
724		2208DE	653.34	6.00	100.00	0.05	0.38	0.15	0.23
725		220901	700.81	6.00	100.00	-0.08	0.62	0.39	0.56
726		22093B	620.68	6.00	100.00	0.12	0.92	0.72	1.16
727		22094E	319.93	6.00	100.00	-0.01	0.10	0.01	0.02
728		220950	3,206.64	6.00	100.00	0.02	0.20	0.21	0.07
729		220951	663.74	6.00	100.00	0.06	0.46	0.21	0.32
730		221	632.14	6.00	100.00	-0.06	0.44	0.19	0.29
731		2211	1,416.03	12.00	120.00	0.79	1.55	1.36	0.96
732		2213	3,009.09	12.00	120.00	0.79	1.55	2.89	0.96
733		2215	2,595.49	16.00	120.00	-0.31	0.35	0.11	0.04
734		2217	2,551.58	16.00	120.00	-0.27	0.29	0.08	0.03
735		2219	2,870.15	16.00	120.00	-1.40	1.55	1.96	0.68
736		2221	2,552.17	12.00	120.00	0.14	0.27	0.10	0.04
737		2223	2,288.16	12.00	120.00	0.14	0.27	0.09	0.04
738		2225	2,763.16	12.00	120.00	0.14	0.27	0.11	0.04
739		2227	1,262.12	16.00	120.00	0.64	0.71	0.20	0.16
740		2229	2,736.62	16.00	120.00	-0.41	0.46	0.20	0.07
741		223	239.26	6.00	100.00	0.01	0.07	0.00	0.01
742		2231	2,702.67	12.00	120.00	0.22	0.43	0.24	0.09
743		2233	3,057.34	16.00	120.00	-1.00	1.11	1.14	0.37
744		2235	1,178.38	16.00	120.00	0.10	0.11	0.01	0.00

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
745		2237	2,591.07	16.00	120.00	-1.12	1.24	1.18	0.46
746		2239	623.40	12.00	120.00	0.25	0.50	0.07	0.12
747		2241	2,575.26	16.00	120.00	-1.42	1.58	1.82	0.71
748		2243	1,248.54	24.00	120.00	0.45	0.22	0.01	0.01
749		2245	3,786.02	16.00	120.00	-2.04	2.26	5.21	1.38
750		2247	827.48	16.00	120.00	1.82	2.01	0.92	1.11
751		225	314.26	6.00	100.00	0.02	0.20	0.02	0.07
752		2259	3,081.53	16.00	120.00	-0.94	1.04	1.01	0.33
753		2261	267.69	16.00	120.00	-1.13	1.25	0.12	0.46
754		2263	2,682.19	16.00	120.00	-0.57	0.63	0.34	0.13
755		2267	3,647.04	12.00	120.00	0.46	0.91	1.31	0.36
756		2269	1,060.69	12.00	120.00	0.33	0.65	0.20	0.19
757		227	273.97	6.00	100.00	-0.00	0.01	0.000	0.000
758		2271	3,066.19	16.00	120.00	-0.19	0.21	0.05	0.02
759		2273	4,699.05	16.00	120.00	-0.52	0.58	0.52	0.11
760		2275	1,695.27	12.00	120.00	0.22	0.42	0.15	0.09
761		2277	1,461.88	12.00	120.00	0.14	0.27	0.05	0.04
762		2279	2,547.69	12.00	120.00	0.40	0.79	0.69	0.27
763		2281	2,644.25	12.00	120.00	0.03	0.06	0.01	0.00
764		2283	2,402.65	12.00	120.00	-0.10	0.20	0.05	0.02
765		2285	1,183.69	12.00	120.00	0.42	0.82	0.35	0.30
766		2287	1,050.26	12.00	120.00	0.38	0.75	0.26	0.25
767		2289	1,728.38	12.00	120.00	0.30	0.58	0.27	0.16
768		229	374.42	8.00	110.00	0.01	0.04	0.000	0.00
769		2291	598.06	12.00	120.00	0.22	0.43	0.05	0.09
770		2293	905.29	12.00	120.00	0.05	0.10	0.01	0.01
771		2295	1,151.22	12.00	120.00	-0.09	0.19	0.02	0.02
772		2297	1,728.53	12.00	120.00	-0.19	0.38	0.12	0.07
773		2299	2,629.93	12.00	120.00	-0.60	1.19	1.54	0.59
774		22D047	91.68	8.00	110.00	0.03	0.15	0.00	0.03
775		22D048	84.45	16.00	125.00	0.80	0.88	0.02	0.22

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		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
776		22D09A	326.53	8.00	110.00	0.01	0.03	0.000	0.00
777		22D0F0	385.57	6.00	100.00	0.06	0.50	0.14	0.37
778		22D0F9	50.35	8.00	110.00	-0.01	0.04	0.000	0.00
779		22D106	236.80	8.00	110.00	0.01	0.03	0.000	0.00
780		22DA7E	221.39	8.00	110.00	0.06	0.28	0.02	0.08
781		22E35E	844.32	6.00	100.00	-0.09	0.75	0.66	0.78
782		22F263	105.00	12.00	120.00	-0.36	0.71	0.02	0.23
783		22F284	344.73	8.00	110.00	-0.17	0.74	0.16	0.46
784		2301	2,652.75	12.00	120.00	-0.69	1.37	2.01	0.76
785		2303	3,534.45	12.00	120.00	-1.23	2.42	7.73	2.19
786		2305	1,562.49	12.00	120.00	0.03	0.06	0.00	0.00
787		2307	546.35	12.00	120.00	0.02	0.03	0.000	0.000
788		2309	1,417.77	12.00	120.00	0.02	0.03	0.00	0.000
789		23095F	639.10	8.00	110.00	0.07	0.30	0.06	0.09
790		230969	273.83	24.00	130.00	-5.85	2.88	0.32	1.16
791		23097F	274.58	8.00	110.00	0.04	0.18	0.01	0.03
792		230989	30.00	6.00	100.00	0.12	0.91	0.03	1.12
793		23098F	585.09	6.00	100.00	0.02	0.20	0.04	0.07
794		2309AE	122.83	8.00	110.00	0.00	0.01	0.00	0.00
795		2309C0	122.81	8.00	110.00	0.00	0.01	0.000	0.000
796		230D16	4,675.50	16.00	125.00	2.42	2.68	8.18	1.75
797		230E73	110.79	6.00	100.00	-0.01	0.09	0.00	0.02
798		230F0A	626.71	6.00	100.00	-0.06	0.44	0.18	0.29
799		230F34	231.52	24.00	130.00	4.42	2.18	0.16	0.69
800		231	1,064.16	6.00	100.00	0.09	0.71	0.75	0.71
801		2311	2,465.08	12.00	120.00	-1.27	2.50	5.74	2.33
802		2313	1,443.34	12.00	120.00	1.20	2.36	3.02	2.09
803		2315	1,444.99	12.00	120.00	1.07	2.11	2.45	1.69
804		2317	1,315.26	12.00	120.00	0.94	1.85	1.75	1.33
805		2319	1,354.21	12.00	120.00	0.84	1.66	1.47	1.09
806		2321	1,505.45	12.00	120.00	1.21	2.38	3.19	2.12

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	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
807	2323	1,071.09	12.00	120.00	-1.36	2.67	2.82	2.63
808	2325	977.99	12.00	120.00	-1.63	3.21	3.60	3.69
809	2327	1,164.30	12.00	120.00	-1.86	3.66	5.48	4.70
810	2329	1,275.50	24.00	120.00	2.39	1.18	0.33	0.26
811	232A89	41.33	24.00	130.00	2.90	1.43	0.01	0.32
812	232AB1	24.00	8.00	110.00	0.35	1.54	0.04	1.78
813	232B14	1,198.19	24.00	130.00	2.56	1.26	0.30	0.25
814	233	518.23	12.00	120.00	-0.65	1.28	0.35	0.67
815	2331	479.00	24.00	130.00	-6.86	3.38	0.75	1.56
816	2333	1,254.07	16.00	120.00	3.28	3.64	4.17	3.33
817	2337	1,363.13	12.00	120.00	-0.85	1.67	1.49	1.10
818	2339	1,334.13	16.00	120.00	-1.10	1.22	0.58	0.44
819	2341	1,218.05	16.00	120.00	-1.25	1.39	0.68	0.56
820	2343	1,346.51	16.00	120.00	-2.08	2.30	1.92	1.43
821	2345	1,332.45	12.00	120.00	-0.13	0.25	0.04	0.03
822	2347	1,250.49	12.00	120.00	-0.46	0.90	0.44	0.35
823	2349	1,381.45	16.00	120.00	-0.42	0.47	0.10	0.07
824	235	279.93	12.00	120.00	0.65	1.28	0.19	0.68
825	2351	1,286.48	16.00	120.00	0.09	0.10	0.01	0.00
826	2353	1,335.21	16.00	120.00	-0.02	0.02	0.000	0.000
827	2355	1,316.85	12.00	120.00	-0.22	0.43	0.12	0.09
828	2357	1,366.41	16.00	120.00	-0.06	0.06	0.00	0.00
829	2359	1,277.56	16.00	120.00	0.16	0.18	0.02	0.01
830	2361	1,211.86	16.00	120.00	-0.43	0.48	0.10	0.08
831	2363	2,620.26	16.00	120.00	-0.76	0.84	0.58	0.22
832	2365	824.85	16.00	125.00	0.29	0.32	0.03	0.03
833	2367	155.89	16.00	120.00	-0.21	0.23	0.00	0.02
834	2369	1,810.01	8.00	110.00	0.10	0.46	0.35	0.19
835	237	280.20	12.00	120.00	-0.70	1.37	0.22	0.77
836	2371	1,677.49	12.00	120.00	0.30	0.58	0.26	0.16
837	2373	25.18	12.00	120.00	-0.37	0.73	0.01	0.24

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
838	2377	237.13	12.00	120.00	-0.53	1.04	0.11	0.46
839	2379	2,562.73	12.00	120.00	-0.61	1.19	1.52	0.59
840	2383	91.31	12.00	120.00	-0.01	0.02	0.000	0.00
841	2385	2,597.37	12.00	120.00	0.06	0.13	0.02	0.01
842	2387	1,191.47	12.00	120.00	-0.04	0.08	0.00	0.00
843	2389	1,618.88	12.00	120.00	-0.24	0.48	0.18	0.11
844	239	429.77	12.00	120.00	0.99	1.96	0.64	1.48
845	2391	3,063.78	12.00	120.00	-0.06	0.12	0.03	0.01
846	2393	1,699.66	12.00	120.00	-0.57	1.12	0.89	0.53
847	2395	1,442.93	12.00	120.00	-0.26	0.52	0.18	0.13
848	2397	2,336.96	12.00	120.00	-0.26	0.51	0.28	0.12
849	23B19	73.36	16.00	125.00	0.33	0.36	0.00	0.04
850	23B1C	1,285.95	16.00	125.00	-0.99	1.10	0.43	0.34
851	23B1F	976.44	16.00	125.00	-2.09	2.32	1.31	1.34
852	23B4A	44.00	12.00	120.00	-0.35	0.69	0.01	0.21
853	23BDE	161.88	16.00	125.00	-1.65	1.83	0.14	0.86
854	23BE1	1,260.00	16.00	125.00	-1.41	1.56	0.82	0.65
855	23C01	7.87	6.00	100.00	0.13	1.02	0.01	1.38
856	23C48	95.83	24.00	130.00	2.44	1.20	0.02	0.23
857	23C5E	1,181.15	24.00	130.00	2.42	1.19	0.27	0.23
858	23C91	150.00	6.00	100.00	-0.02	0.16	0.01	0.04
859	23CAA	314.17	12.00	120.00	0.17	0.34	0.02	0.06
860	23CAD	31.08	12.00	120.00	0.15	0.29	0.00	0.04
861	23CB9	97.99	16.00	125.00	0.74	0.82	0.02	0.19
862	23CC5	104.96	16.00	125.00	3.30	3.65	0.33	3.11
863	23D04	294.32	8.00	110.00	-0.23	1.02	0.25	0.83
864	23D8B	1,770.93	16.00	125.00	-0.60	0.66	0.23	0.13
865	23DC1	96.01	12.00	120.00	-1.28	2.52	0.23	2.36
866	23DD4	1,730.78	16.00	125.00	1.76	1.95	1.68	0.97
867	23E2C	1,695.81	16.00	125.00	0.49	0.54	0.15	0.09
868	23E3D1	70.99	6.00	100.00	-0.21	1.69	0.25	3.54

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
869	23E3F3	259.93	8.00	110.00	-0.21	0.93	0.18	0.71
870	23FC5	5,177.47	16.00	125.00	-1.47	1.63	3.61	0.70
871	2401	334.92	12.00	120.00	-0.21	0.42	0.03	0.08
872	2403	2,708.57	12.00	120.00	-0.37	0.73	0.65	0.24
873	2405	974.34	12.00	120.00	-0.19	0.38	0.07	0.07
874	24068	3,851.91	16.00	125.00	1.34	1.48	2.25	0.58
875	2407	706.18	12.00	120.00	0.04	0.09	0.00	0.00
876	2409	171.99	16.00	120.00	1.28	1.42	0.10	0.58
877	240D6	192.69	16.00	125.00	0.31	0.35	0.01	0.04
878	240DE	553.41	16.00	125.00	0.41	0.45	0.04	0.07
879	241	407.39	12.00	120.00	-0.77	1.52	0.38	0.92
880	2411	885.74	12.00	120.00	-0.09	0.18	0.02	0.02
881	2413	1,263.20	12.00	120.00	-0.22	0.44	0.12	0.09
882	24143	80.25	16.00	125.00	3.50	3.88	0.28	3.48
883	2415	2,048.00	12.00	120.00	-0.55	1.09	1.02	0.50
884	2417	2,547.46	12.00	120.00	-1.02	2.00	3.94	1.54
885	2421	2,559.96	12.00	120.00	0.41	0.82	0.75	0.29
886	2423	3,160.06	12.00	120.00	0.60	1.19	1.85	0.58
887	2425	2,617.32	12.00	120.00	-0.54	1.06	1.25	0.48
888	2427	2,706.45	16.00	120.00	-1.49	1.65	2.08	0.77
889	2429	2,068.83	24.00	120.00	-3.40	1.68	1.02	0.49
890	24293	1,314.29	6.00	100.00	0.07	0.56	0.61	0.46
891	243	1,421.61	6.00	100.00	0.05	0.41	0.36	0.26
892	2431	2,019.35	16.00	120.00	-3.52	3.90	7.64	3.78
893	2435	59.23	16.00	120.00	-3.56	3.95	0.23	3.88
894	24351	682.79	6.00	100.00	-0.09	0.71	0.49	0.72
895	24357	200.57	6.00	100.00	0.18	1.39	0.50	2.48
896	2437	2,517.54	12.00	120.00	-0.44	0.86	0.81	0.32
897	2439	1,621.08	24.00	120.00	2.05	1.01	0.31	0.19
898	2441	2,492.58	12.00	120.00	0.27	0.54	0.34	0.14
899	2443	2,856.36	12.00	120.00	0.30	0.59	0.45	0.16

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
900		2443B	252.02	6.00	100.00	0.07	0.56	0.12	0.46
901		2445	4,117.29	16.00	120.00	-3.37	3.74	14.42	3.50
902		2447	4,527.19	12.00	120.00	1.31	2.58	11.17	2.47
903		24483	200.08	6.00	100.00	0.18	1.40	0.50	2.49
904		2449	2,587.03	12.00	120.00	-0.08	0.16	0.04	0.01
905		2449F	380.32	6.00	100.00	0.04	0.29	0.05	0.14
906		244A2	1,230.60	6.00	100.00	-0.05	0.36	0.25	0.20
907		244A5	170.52	6.00	100.00	-0.12	0.96	0.21	1.24
908		244B4	276.95	6.00	100.00	0.02	0.12	0.01	0.03
909		245	666.84	6.00	100.00	0.11	0.87	0.69	1.03
910		2451	2,498.04	16.00	120.00	-0.08	0.09	0.01	0.00
911		2453	2,731.38	16.00	120.00	-0.08	0.09	0.01	0.00
912		2455	2,372.01	12.00	120.00	-1.17	2.31	4.77	2.01
913		2457	226.13	30.00	120.00	14.49	4.57	0.55	2.44
914		246034	341.48	8.00	110.00	0.09	0.41	0.05	0.15
915		24603B	132.10	4.00	90.00	0.03	0.58	0.13	0.95
916		246048	72.61	8.00	110.00	0.05	0.24	0.00	0.06
917		246054	30.79	6.00	100.00	0.05	0.41	0.01	0.26
918		24608A	494.42	6.00	100.00	0.03	0.25	0.05	0.10
919		2461	127.59	30.00	120.00	8.12	2.56	0.11	0.83
920		2461DC	730.81	16.00	125.00	-0.83	0.92	0.18	0.24
921		246200	172.27	8.00	110.00	0.07	0.31	0.02	0.09
922		246204	572.00	16.00	125.00	-0.74	0.82	0.11	0.19
923		246268	184.36	8.00	110.00	0.06	0.27	0.01	0.07
924		2465	282.45	30.00	120.00	9.11	2.87	0.29	1.03
925		2467	758.29	30.00	120.00	11.13	3.51	1.13	1.50
926		247	170.12	8.00	110.00	0.23	1.01	0.14	0.83
927		2471	939.80	30.00	120.00	11.79	3.72	1.56	1.66
928		2473	159.16	24.00	120.00	10.61	5.23	0.65	4.06
929		2477	102.53	30.00	120.00	2.81	0.89	0.01	0.12
930		2479	1,006.34	30.00	120.00	16.56	5.22	3.14	3.12

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
931		247C8	776.37	6.00	100.00	-0.08	0.60	0.40	0.52
932		247CB	314.03	6.00	100.00	-0.08	0.65	0.19	0.60
933		247CE	608.07	12.00	120.00	-0.44	0.87	0.20	0.33
934		2481	1,897.87	30.00	120.00	10.66	3.36	2.62	1.38
935		2483	17.45	16.00	120.00	0.00	0.00	0.00	0.00
936		2485	143.45	42.00	120.00	12.78	2.05	0.05	0.38
937		2487	76.57	36.00	120.00	8.41	1.84	0.03	0.37
938		2489	1,807.13	42.00	120.00	13.23	2.13	0.72	0.40
939		248A7	168.39	6.00	100.00	-0.01	0.11	0.00	0.02
940		248AD	700.64	12.00	120.00	1.03	2.02	1.10	1.57
941		248B0	622.49	6.00	100.00	-0.01	0.10	0.01	0.02
942		248C2	320.22	6.00	100.00	-0.00	0.01	0.000	0.000
943		248D4	249.91	8.00	110.00	-0.07	0.29	0.02	0.08
944		248DA	129.50	6.00	100.00	0.00	0.04	0.000	0.00
945		248E9	263.89	6.00	100.00	-0.04	0.34	0.05	0.18
946		248F5	262.66	6.00	100.00	0.01	0.09	0.00	0.02
947		248FE	1,062.94	6.00	100.00	0.03	0.26	0.12	0.11
948		249	736.54	6.00	100.00	0.13	1.04	1.05	1.43
949		2491	758.52	36.00	120.00	9.57	2.09	0.35	0.46
950		2491C	529.82	6.00	100.00	0.02	0.17	0.03	0.05
951		2492B	120.50	6.00	100.00	0.04	0.34	0.02	0.18
952		2493	987.53	42.00	120.00	24.99	4.02	1.28	1.30
953		2495	207.57	36.00	120.00	11.32	2.48	0.13	0.64
954		2497	338.45	36.00	120.00	5.61	1.23	0.06	0.17
955		2499	1,153.80	42.00	120.00	22.35	3.59	1.22	1.06
956		24E1A	567.65	8.00	110.00	0.03	0.13	0.01	0.02
957		24E53	290.00	8.00	110.00	-0.02	0.08	0.00	0.01
958		24E62	333.00	6.00	100.00	0.04	0.30	0.05	0.14
959		24E98	230.42	8.00	110.00	-0.10	0.43	0.04	0.17
960		24F02	448.76	12.00	120.00	-0.11	0.21	0.01	0.02
961		24F53	442.98	6.00	100.00	0.01	0.09	0.01	0.01

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
962		24F80	468.38	8.00	110.00	0.07	0.32	0.04	0.10
963		24F98	357.14	8.00	110.00	-0.01	0.03	0.000	0.00
964		24FDD	246.89	8.00	110.00	-0.11	0.50	0.06	0.22
965		2501	1,698.14	36.00	120.00	9.51	2.08	0.78	0.46
966		2503	1,069.62	42.00	120.00	15.43	2.48	0.57	0.53
967		2503B	241.14	12.00	120.00	0.58	1.13	0.13	0.54
968		2507	1,832.02	42.00	120.00	22.70	3.65	1.99	1.09
969		2509	6,856.40	30.00	120.00	7.13	2.25	4.50	0.66
970		250B9	230.50	6.00	100.00	-0.01	0.08	0.00	0.01
971		251	879.87	6.00	100.00	0.07	0.53	0.36	0.41
972		2511	1,346.32	12.00	120.00	-0.23	0.46	0.14	0.10
973		2513	1,324.31	16.00	120.00	-0.00000	0.00000	0.00	0.00
974		2517	877.13	16.00	120.00	-0.26	0.29	0.03	0.03
975		2519	1,405.22	12.00	120.00	0.20	0.40	0.11	0.08
976		2521	1,306.91	12.00	120.00	0.20	0.40	0.10	0.08
977		2523	1,013.39	12.00	120.00	0.20	0.40	0.08	0.08
978		2525	2,012.55	12.00	120.00	0.41	0.80	0.57	0.28
979		2527	199.53	12.00	120.00	0.33	0.66	0.04	0.20
980		2529	2,098.12	12.00	120.00	0.33	0.66	0.41	0.20
981		252F9	156.89	12.00	120.00	0.76	1.51	0.14	0.91
982		252FF	130.98	12.00	120.00	0.77	1.52	0.12	0.92
983		253	377.72	12.00	120.00	0.07	0.14	0.00	0.01
984		25302	146.91	12.00	120.00	0.77	1.51	0.13	0.92
985		25308	238.68	12.00	120.00	0.83	1.63	0.25	1.05
986		2531	1,125.12	12.00	120.00	0.24	0.48	0.12	0.11
987		25317	34.32	6.00	100.00	0.09	0.73	0.03	0.75
988		2531A	150.08	6.00	100.00	-0.10	0.76	0.12	0.80
989		25323	97.37	6.00	100.00	-0.10	0.82	0.09	0.93
990		25326	170.86	12.00	120.00	0.88	1.74	0.20	1.19
991		25329	145.00	12.00	120.00	0.99	1.95	0.21	1.46
992		2533	629.04	12.00	120.00	0.09	0.18	0.01	0.02

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
993	25336	202.78	6.00	100.00	-0.10	0.75	0.16	0.79
994	25339	276.00	6.00	100.00	0.04	0.32	0.04	0.16
995	2533C	155.21	6.00	100.00	0.03	0.27	0.02	0.12
996	2533F	53.23	6.00	100.00	-0.03	0.26	0.01	0.11
997	25342	88.18	6.00	100.00	0.03	0.24	0.01	0.10
998	25345	251.00	6.00	100.00	-0.03	0.21	0.02	0.07
999	2534B	258.93	6.00	100.00	0.06	0.50	0.10	0.37
1000	2535	1,461.52	12.00	120.00	0.09	0.18	0.03	0.02
1001	25351	356.34	6.00	100.00	0.08	0.67	0.23	0.63
1002	2535A	273.00	6.00	100.00	-0.02	0.13	0.01	0.03
1003	25369	156.99	6.00	100.00	0.08	0.62	0.09	0.56
1004	2536C	550.56	6.00	100.00	-0.09	0.69	0.37	0.67
1005	2537	1,549.83	12.00	120.00	0.09	0.18	0.03	0.02
1006	25375	270.13	6.00	100.00	0.07	0.59	0.13	0.50
1007	25378	142.68	6.00	100.00	0.01	0.06	0.00	0.01
1008	2537B	44.53	6.00	100.00	-0.01	0.05	0.000	0.01
1009	2537E	56.44	6.00	100.00	-0.00	0.02	0.00	0.00
1010	25381	43.55	6.00	100.00	-0.07	0.54	0.02	0.43
1011	25384	347.86	6.00	100.00	0.00	0.02	0.000	0.000
1012	25387	260.96	6.00	100.00	-0.01	0.09	0.00	0.02
1013	2539	2,623.89	12.00	120.00	0.09	0.18	0.05	0.02
1014	25390	323.45	6.00	100.00	0.07	0.52	0.13	0.40
1015	2539C	260.61	6.00	100.00	-0.04	0.30	0.04	0.15
1016	253A2	103.16	8.00	110.00	-0.01	0.03	0.000	0.00
1017	253A5	239.83	6.00	100.00	-0.00	0.03	0.000	0.00
1018	253AB	40.09	6.00	100.00	-0.02	0.18	0.00	0.05
1019	253AE	122.78	6.00	100.00	-0.10	0.82	0.11	0.92
1020	253BD	87.00	6.00	100.00	0.10	0.80	0.08	0.89
1021	253C0	255.27	6.00	100.00	-0.13	1.04	0.37	1.45
1022	253C6	342.61	6.00	100.00	0.07	0.54	0.15	0.43
1023	253C9	266.73	6.00	100.00	-0.03	0.20	0.02	0.07

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1024		253CC	47.24	6.00	100.00	0.06	0.48	0.02	0.34
1025		253D5	146.39	6.00	100.00	0.02	0.13	0.00	0.03
1026		253DB	79.15	6.00	100.00	-0.01	0.11	0.00	0.02
1027		253E1	182.00	6.00	100.00	-0.02	0.16	0.01	0.04
1028		253E7	54.16	8.00	110.00	-0.02	0.11	0.000	0.01
1029		2541	2,725.53	16.00	125.00	0.00	0.00	0.00	0.00
1030		2543	795.27	16.00	125.00	-0.00000	0.00000	0.00	0.00
1031		2547	948.73	16.00	120.00	1.25	1.39	0.53	0.56
1032		2549	1,451.40	16.00	120.00	1.00	1.11	0.54	0.37
1033		255	199.00	8.00	110.00	0.27	1.19	0.22	1.10
1034		2553	683.90	16.00	120.00	-0.41	0.45	0.05	0.07
1035		2555	2,664.16	16.00	120.00	0.34	0.37	0.13	0.05
1036		2557	1,298.49	16.00	120.00	0.20	0.22	0.02	0.02
1037		2559	1,329.22	16.00	120.00	-0.19	0.21	0.02	0.02
1038		2561	765.77	16.00	120.00	-0.15	0.17	0.01	0.01
1039		2565	3,579.72	16.00	120.00	-0.00000	0.00000	0.00	0.00
1040		2567	2,137.62	16.00	120.00	-0.19	0.21	0.04	0.02
1041		2569	1,010.81	16.00	120.00	0.93	1.03	0.32	0.32
1042		257	170.00	12.00	120.00	-0.12	0.24	0.01	0.03
1043		2571	298.48	16.00	120.00	0.89	0.99	0.09	0.30
1044		2573	136.97	16.00	120.00	0.88	0.98	0.04	0.29
1045		2575	3,415.58	16.00	120.00	-1.45	1.60	2.49	0.73
1046		25762	173.17	6.00	100.00	-0.08	0.64	0.10	0.58
1047		25765	345.85	6.00	100.00	-0.06	0.49	0.12	0.36
1048		2577	1,011.97	16.00	120.00	1.35	1.50	0.65	0.64
1049		25771	263.98	6.00	100.00	-0.03	0.26	0.03	0.11
1050		25774	263.34	6.00	100.00	0.01	0.11	0.01	0.02
1051		25777	43.20	6.00	100.00	0.02	0.13	0.00	0.03
1052		2577A	248.65	8.00	110.00	0.01	0.06	0.000	0.00
1053		2577D	442.07	6.00	100.00	0.00	0.03	0.000	0.00
1054		25786	198.54	6.00	100.00	0.01	0.09	0.00	0.01

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1055	2579	394.07	12.00	120.00	0.46	0.91	0.14	0.36
1056	25798	206.33	6.00	100.00	-0.01	0.10	0.00	0.02
1057	257A7	271.11	12.00	120.00	0.55	1.09	0.14	0.50
1058	257B0	1,012.34	6.00	100.00	-0.00	0.03	0.00	0.00
1059	2581	1,969.10	24.00	120.00	-4.26	2.10	1.47	0.75
1060	2583	6,620.90	16.00	120.00	0.13	0.14	0.05	0.01
1061	2585	593.32	16.00	120.00	1.91	2.12	0.73	1.23
1062	2587	1,191.12	16.00	120.00	0.79	0.88	0.29	0.24
1063	2589	1,358.79	16.00	120.00	0.79	0.88	0.33	0.24
1064	259	196.00	8.00	110.00	0.05	0.24	0.01	0.06
1065	2591	566.57	16.00	120.00	0.79	0.88	0.14	0.24
1066	25E259	84.14	8.00	110.00	0.000	0.00	0.00	0.00
1067	25E25B	13.02	6.00	100.00	0.000	0.000	0.00	0.00
1068	25E264	387.08	8.00	110.00	-0.01	0.06	0.00	0.00
1069	25E28F	1,026.27	6.00	100.00	-0.01	0.05	0.00	0.00
1070	25F775	1,346.93	8.00	110.00	-0.10	0.44	0.23	0.17
1071	25F79F	291.84	8.00	110.00	-0.11	0.50	0.07	0.22
1072	25F7A1	461.51	8.00	110.00	0.21	0.91	0.31	0.68
1073	25F7A6	688.04	8.00	110.00	-0.16	0.70	0.29	0.41
1074	2608A2	60.28	12.00	110.00	1.28	2.53	0.17	2.79
1075	2608BB	1,377.05	12.00	110.00	1.17	2.31	3.24	2.35
1076	261	617.00	6.00	100.00	0.02	0.17	0.03	0.05
1077	26237	171.85	12.00	120.00	0.85	1.67	0.19	1.10
1078	2623D	273.00	6.00	100.00	0.11	0.86	0.27	1.01
1079	26246	45.60	6.00	100.00	0.10	0.77	0.04	0.83
1080	2624C	126.55	6.00	100.00	0.10	0.79	0.11	0.86
1081	2624F	384.51	6.00	100.00	0.09	0.68	0.26	0.66
1082	26255	100.82	6.00	100.00	0.07	0.56	0.05	0.45
1083	26258	150.75	6.00	100.00	-0.03	0.21	0.01	0.08
1084	26261	69.13	6.00	100.00	0.06	0.49	0.02	0.36
1085	26267	92.55	6.00	100.00	-0.02	0.18	0.01	0.06

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1086		2628B	287.43	6.00	100.00	0.12	0.92	0.33	1.14
1087		26297	798.88	12.00	120.00	-0.44	0.87	0.26	0.33
1088		262A0	835.52	24.00	130.00	2.36	1.16	0.18	0.22
1089		262A6	998.09	24.00	130.00	0.91	0.45	0.04	0.04
1090		262A9	374.27	24.00	130.00	2.99	1.47	0.13	0.33
1091		262BB	170.78	6.00	100.00	-0.13	1.00	0.23	1.35
1092		262C1	304.00	24.00	130.00	0.79	0.39	0.01	0.03
1093		262C8	900.10	24.00	130.00	0.52	0.26	0.01	0.01
1094		262CB	457.73	24.00	130.00	0.36	0.18	0.00	0.01
1095		263	827.02	6.00	100.00	-0.02	0.19	0.05	0.06
1096		2630F	1,175.66	24.00	130.00	2.84	1.40	0.36	0.31
1097		263E8	98.69	12.00	120.00	0.13	0.25	0.00	0.03
1098		263FE	785.26	6.00	100.00	0.01	0.07	0.01	0.01
1099		2640D	1,278.11	6.00	100.00	-0.09	0.73	0.95	0.75
1100		26425	277.78	6.00	100.00	0.04	0.35	0.05	0.19
1101		26431	316.85	8.00	110.00	-0.03	0.14	0.01	0.02
1102		26434	222.54	12.00	120.00	0.39	0.76	0.06	0.26
1103		26440	425.06	8.00	110.00	0.03	0.12	0.01	0.02
1104		26446	241.89	12.00	120.00	0.35	0.69	0.05	0.21
1105		26449	151.73	12.00	120.00	0.38	0.76	0.04	0.25
1106		2644F	280.07	12.00	120.00	-0.31	0.60	0.05	0.17
1107		26455	231.64	6.00	100.00	-0.01	0.11	0.01	0.02
1108		26458	232.08	6.00	100.00	-0.01	0.11	0.01	0.02
1109		2645E	281.46	12.00	120.00	-0.30	0.59	0.05	0.16
1110		26464	332.86	8.00	110.00	0.05	0.20	0.01	0.04
1111		26467	128.00	12.00	120.00	-0.12	0.25	0.00	0.03
1112		2646A	673.87	6.00	100.00	-0.12	0.95	0.82	1.21
1113		26473	330.90	8.00	110.00	-0.09	0.40	0.05	0.15
1114		26495	258.78	6.00	100.00	0.02	0.19	0.02	0.06
1115		264A1	1,501.60	6.00	100.00	-0.02	0.13	0.05	0.03
1116		265	368.27	16.00	125.00	-0.94	1.04	0.11	0.30

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1117	266C28	1,179.40	8.00	110.00	0.07	0.32	0.12	0.10
1118	266C30	873.67	8.00	110.00	-0.06	0.28	0.06	0.07
1119	266C47	291.84	8.00	110.00	0.13	0.57	0.08	0.28
1120	266C82	366.89	8.00	110.00	-0.02	0.08	0.00	0.01
1121	266C91	342.66	8.00	110.00	0.14	0.60	0.11	0.32
1122	266C9C	599.43	8.00	110.00	0.10	0.45	0.11	0.18
1123	266CB9	153.03	8.00	110.00	0.02	0.07	0.000	0.01
1124	266CE5	486.72	8.00	110.00	-0.08	0.36	0.06	0.12
1125	266CE7	300.63	8.00	110.00	-0.17	0.75	0.14	0.47
1126	266CE8	134.86	8.00	110.00	-0.32	1.43	0.21	1.57
1127	266D10	789.35	8.00	110.00	-0.06	0.28	0.06	0.08
1128	266D45	557.76	8.00	110.00	0.02	0.10	0.01	0.01
1129	266D71	1,163.72	8.00	110.00	-0.05	0.24	0.07	0.06
1130	266D76	289.10	8.00	110.00	-0.00	0.01	0.00	0.00
1131	267	510.11	12.00	120.00	0.88	1.74	0.60	1.18
1132	2682F2	373.32	8.00	110.00	-0.11	0.48	0.08	0.21
1133	2682F5	389.38	8.00	110.00	-0.04	0.17	0.01	0.03
1134	268305	715.38	8.00	110.00	-0.28	1.22	0.84	1.17
1135	26836C	1,302.73	8.00	110.00	-0.04	0.16	0.04	0.03
1136	268380	532.11	8.00	110.00	-0.12	0.55	0.14	0.26
1137	268397	943.44	8.00	110.00	-0.11	0.47	0.19	0.20
1138	2683B6	999.95	8.00	110.00	-0.20	0.87	0.61	0.61
1139	2683CF	347.10	8.00	110.00	-0.25	1.13	0.35	1.01
1140	2683F3	784.79	8.00	110.00	0.05	0.21	0.04	0.04
1141	269	97.00	12.00	120.00	0.54	1.06	0.05	0.47
1142	26B8E1	173.00	8.00	110.00	-0.03	0.13	0.00	0.02
1143	26B8EA	349.49	6.00	100.00	0.00	0.04	0.000	0.00
1144	26B8EB	366.38	8.00	110.00	0.03	0.12	0.01	0.01
1145	26B913	274.76	6.00	100.00	0.02	0.15	0.01	0.04
1146	26B942	1,304.70	6.00	100.00	0.000	0.00	0.000	0.0000
1147	26B963	720.52	6.00	100.00	0.01	0.11	0.02	0.02

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1148	26B965	267.24	6.00	100.00	0.000	0.01	0.000	0.000
1149	26B9AD	173.05	6.00	100.00	0.03	0.22	0.01	0.08
1150	26B9BE	202.21	12.00	120.00	0.12	0.24	0.01	0.03
1151	26CC43	446.50	12.00	120.00	-0.43	0.84	0.14	0.31
1152	26CC81	807.05	8.00	110.00	-0.48	2.11	2.58	3.20
1153	26CC9F	1,486.90	8.00	110.00	0.44	1.94	4.08	2.75
1154	26CCC8	298.46	12.00	120.00	0.49	0.97	0.12	0.40
1155	26DA7C	711.11	12.00	120.00	-0.33	0.64	0.13	0.19
1156	26DA93	23.87	8.00	110.00	0.14	0.60	0.01	0.32
1157	26DAAC	26.93	8.00	110.00	-0.08	0.37	0.00	0.13
1158	26E30	447.94	12.00	120.00	-0.30	0.59	0.07	0.16
1159	26E37	322.88	8.00	110.00	0.16	0.72	0.14	0.44
1160	26E5F	429.99	12.00	120.00	-0.46	0.91	0.15	0.36
1161	26E69	551.59	8.00	110.00	0.25	1.11	0.54	0.98
1162	26E87D	490.82	12.00	120.00	-0.02	0.04	0.000	0.000
1163	26E884	406.32	10.00	115.00	-0.04	0.10	0.00	0.01
1164	26E9F7	855.81	12.00	120.00	0.01	0.02	0.000	0.000
1165	26F9E	898.15	6.00	100.00	-0.04	0.29	0.12	0.13
1166	26FA4	499.38	6.00	100.00	-0.00	0.03	0.00	0.00
1167	2707	677.36	8.00	110.00	0.02	0.10	0.01	0.01
1168	2709	423.46	16.00	120.00	0.05	0.06	0.000	0.00
1169	271	36.79	12.00	120.00	0.00	0.000000	0.00	0.00
1170	2711	882.96	16.00	120.00	-0.11	0.12	0.01	0.01
1171	2713	1,961.71	16.00	125.00	-0.25	0.27	0.05	0.03
1172	2715	219.38	16.00	120.00	0.23	0.25	0.01	0.02
1173	2717	721.40	16.00	120.00	-0.65	0.72	0.12	0.17
1174	2719	943.08	16.00	120.00	-0.79	0.87	0.22	0.24
1175	2721	1,458.09	16.00	120.00	-0.86	0.95	0.41	0.28
1176	2725	2,336.24	16.00	120.00	0.34	0.38	0.12	0.05
1177	2727	5,226.96	12.00	130.00	-0.25	0.50	0.52	0.10
1178	2729	1,936.75	12.00	130.00	-0.25	0.50	0.19	0.10

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1179	2731	159.27	12.00	120.00	0.000000	0.00000	0.00	0.00
1180	2733	2,158.11	12.00	130.00	-0.88	1.74	2.20	1.02
1181	2735	1,261.00	24.00	130.00	-7.47	3.68	2.30	1.83
1182	2736A	157.35	6.00	100.00	0.00	0.01	0.00	0.00
1183	2737	1,240.26	16.00	130.00	-0.88	0.98	0.31	0.25
1184	2739	1,511.51	16.00	130.00	-1.63	1.80	1.18	0.78
1185	273F5	270.00	6.00	100.00	0.05	0.39	0.06	0.24
1186	2741	39.53	30.00	130.00	-0.62	0.20	0.000	0.01
1187	2741E	1,288.00	16.00	125.00	1.17	1.29	0.59	0.46
1188	27421	1,507.88	16.00	125.00	1.27	1.41	0.81	0.53
1189	27427	324.92	12.00	120.00	-0.12	0.23	0.01	0.03
1190	2743	576.05	12.00	130.00	-0.74	1.47	0.43	0.75
1191	27433	30.02	8.00	110.00	0.02	0.10	0.000	0.01
1192	27436	196.73	8.00	110.00	0.24	1.08	0.18	0.92
1193	2744B	52.58	8.00	110.00	-0.01	0.05	0.000	0.00
1194	2745	375.04	12.00	120.00	1.09	2.14	0.65	1.74
1195	27457	580.53	6.00	100.00	-0.02	0.15	0.02	0.04
1196	2745D	548.87	6.00	100.00	0.02	0.12	0.02	0.03
1197	2746C	991.27	6.00	100.00	0.00	0.04	0.00	0.00
1198	2747	1,587.10	12.00	120.00	-0.56	1.11	0.82	0.51
1199	2749	815.73	12.00	120.00	-0.56	1.10	0.42	0.51
1200	275	1,458.90	24.00	130.00	-0.78	0.38	0.04	0.03
1201	2751	2,714.08	12.00	120.00	0.46	0.90	0.96	0.35
1202	2753	204.20	16.00	120.00	2.12	2.35	0.30	1.48
1203	2757	1,365.01	24.00	120.00	6.26	3.08	2.08	1.53
1204	2759	5,359.95	12.00	120.00	-0.12	0.24	0.16	0.03
1205	275D7	132.04	6.00	100.00	0.02	0.16	0.01	0.04
1206	2761	4,876.94	16.00	120.00	-0.43	0.47	0.37	0.08
1207	2763	1,645.03	16.00	120.00	-0.67	0.74	0.29	0.17
1208	2764AB	774.63	6.00	100.00	0.06	0.48	0.26	0.34
1209	2764D2	169.44	6.00	100.00	0.03	0.21	0.01	0.08

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1210	2764E1	236.81	6.00	100.00	0.06	0.46	0.08	0.32
1211	2764F3	291.81	6.00	100.00	-0.06	0.49	0.10	0.35
1212	2765	519.21	16.00	120.00	1.94	2.15	0.65	1.26
1213	276517	378.95	6.00	100.00	0.08	0.60	0.20	0.52
1214	276520	278.52	6.00	100.00	0.18	1.41	0.71	2.54
1215	276538	563.88	8.00	110.00	-0.22	0.99	0.45	0.80
1216	276550	720.87	6.00	100.00	-0.06	0.44	0.21	0.29
1217	276568	765.01	8.00	110.00	-0.21	0.95	0.56	0.73
1218	27657A	254.00	8.00	110.00	0.14	0.60	0.08	0.31
1219	27657D	179.12	6.00	100.00	-0.04	0.28	0.02	0.13
1220	2765BC	820.22	6.00	100.00	-0.07	0.56	0.38	0.46
1221	2765FB	108.55	6.00	100.00	0.01	0.12	0.00	0.02
1222	276604	202.45	8.00	110.00	-0.18	0.79	0.11	0.52
1223	276610	419.79	8.00	110.00	0.01	0.07	0.00	0.01
1224	27662E	535.00	8.00	110.00	-0.09	0.42	0.08	0.16
1225	27664F	1,185.94	8.00	110.00	-0.01	0.06	0.01	0.00
1226	27665E	913.79	8.00	110.00	-0.28	1.23	1.08	1.18
1227	27669A	994.40	6.00	100.00	-0.04	0.34	0.18	0.18
1228	2766E8	618.66	8.00	110.00	0.25	1.09	0.58	0.94
1229	2766EB	952.72	6.00	100.00	0.07	0.57	0.45	0.47
1230	2766FA	262.66	8.00	110.00	0.19	0.86	0.16	0.61
1231	2767	3,603.55	12.00	120.00	-0.24	0.47	0.39	0.11
1232	276712	1,585.87	8.00	110.00	0.18	0.81	0.86	0.54
1233	276721	273.32	6.00	100.00	-0.15	1.20	0.51	1.88
1234	276727	216.45	6.00	100.00	0.01	0.10	0.00	0.02
1235	276739	374.74	6.00	100.00	-0.11	0.90	0.41	1.10
1236	27675D	285.00	8.00	110.00	-0.01	0.04	0.000	0.00
1237	276769	658.86	8.00	110.00	-0.10	0.44	0.12	0.18
1238	27676F	632.67	6.00	100.00	0.08	0.63	0.36	0.57
1239	276775	349.94	6.00	100.00	-0.09	0.71	0.25	0.72
1240	2767A8	1,054.73	6.00	100.00	-0.03	0.25	0.11	0.10

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1241		2767B1	189.00	8.00	110.00	0.06	0.27	0.01	0.07
1242		2767ED	144.31	6.00	100.00	-0.00	0.04	0.000	0.00
1243		276802	141.57	6.00	100.00	-0.01	0.06	0.000	0.01
1244		27680B	134.82	6.00	100.00	-0.06	0.48	0.05	0.34
1245		276829	82.98	8.00	110.00	-0.03	0.15	0.00	0.02
1246		276841	304.43	8.00	110.00	0.01	0.06	0.00	0.00
1247		276850	532.25	8.00	110.00	0.02	0.10	0.01	0.01
1248		27685C	300.09	8.00	110.00	0.01	0.04	0.000	0.00
1249		276880	1,155.55	8.00	110.00	0.03	0.14	0.02	0.02
1250		276883	1,362.49	8.00	110.00	-0.02	0.08	0.01	0.01
1251		2768D7	974.11	6.00	100.00	-0.07	0.51	0.38	0.39
1252		2769	4,257.33	12.00	120.00	0.27	0.53	0.56	0.13
1253		276F08	634.33	6.00	100.00	0.08	0.59	0.32	0.51
1254		276F4D	1,006.04	8.00	110.00	-0.06	0.27	0.07	0.07
1255		276F53	470.83	8.00	110.00	-0.05	0.24	0.03	0.06
1256		276F59	747.25	8.00	110.00	-0.34	1.50	1.27	1.69
1257		276F62	600.77	8.00	110.00	0.08	0.34	0.07	0.11
1258		276F68	760.71	6.00	100.00	0.01	0.08	0.01	0.01
1259		276F93	674.67	8.00	110.00	-0.02	0.10	0.01	0.01
1260		276FAE	280.00	6.00	100.00	0.02	0.17	0.01	0.05
1261		276FC6	216.05	6.00	100.00	-0.01	0.09	0.00	0.02
1262		276FDB	582.62	8.00	110.00	-0.14	0.62	0.19	0.33
1263		277	1,230.67	24.00	140.00	2.74	1.35	0.31	0.25
1264		277002	270.00	8.00	110.00	-0.30	1.31	0.36	1.32
1265		27700E	593.82	8.00	110.00	0.05	0.23	0.03	0.05
1266		277011	246.13	6.00	100.00	-0.06	0.46	0.08	0.31
1267		277044	462.30	8.00	110.00	0.13	0.56	0.13	0.28
1268		27704A	1,495.40	8.00	110.00	-0.16	0.71	0.63	0.42
1269		27705C	921.23	6.00	100.00	0.03	0.26	0.10	0.11
1270		277062	355.77	8.00	110.00	-0.04	0.18	0.01	0.03
1271		277065	1,609.81	6.00	100.00	-0.02	0.15	0.07	0.04

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1272		277068	295.25	8.00	110.00	-0.05	0.24	0.02	0.06
1273		2771	1,283.52	12.00	120.00	-1.06	2.09	2.14	1.67
1274		277217	6.28	16.00	125.00	-2.05	2.28	0.01	1.30
1275		2775	6,543.46	36.00	120.00	5.37	1.18	1.04	0.16
1276		2777	2,597.97	16.00	120.00	1.10	1.22	1.14	0.44
1277		2779	5,908.61	12.00	120.00	-0.40	0.78	1.60	0.27
1278		277DD	175.08	6.00	100.00	-0.04	0.35	0.03	0.19
1279		277E0	122.42	6.00	100.00	-0.01	0.07	0.00	0.01
1280		277F8	583.49	6.00	100.00	-0.01	0.05	0.00	0.01
1281		2781	3,211.73	12.00	120.00	-0.62	1.22	1.97	0.61
1282		27822	198.49	6.00	100.00	0.03	0.25	0.02	0.10
1283		27825	123.25	6.00	100.00	-0.02	0.13	0.00	0.03
1284		2782E	326.93	6.00	100.00	0.01	0.11	0.01	0.02
1285		2783	3,455.07	16.00	120.00	-0.60	0.67	0.50	0.15
1286		27834	219.00	6.00	100.00	-0.01	0.10	0.00	0.02
1287		2783D	175.00	6.00	100.00	0.10	0.76	0.14	0.82
1288		27847	1,128.84	6.00	100.00	-0.00	0.02	0.00	0.000
1289		2784D	205.82	6.00	100.00	0.06	0.43	0.06	0.29
1290		2785	1,121.53	16.00	120.00	-0.45	0.49	0.09	0.08
1291		2786E	186.68	8.00	110.00	0.20	0.88	0.12	0.64
1292		2787	1,805.90	16.00	120.00	-0.64	0.71	0.29	0.16
1293		27874	394.19	8.00	110.00	-0.10	0.43	0.07	0.17
1294		27883	432.58	12.00	120.00	-0.22	0.43	0.04	0.09
1295		2789	1,326.20	16.00	120.00	0.74	0.82	0.28	0.21
1296		278A7	405.99	12.00	120.00	-0.25	0.48	0.05	0.11
1297		278E8	807.94	16.00	125.00	1.88	2.08	0.89	1.10
1298		278FE	48.00	16.00	125.00	3.47	3.85	0.16	3.43
1299		279	1,327.65	16.00	125.00	-0.64	0.71	0.20	0.15
1300		27904	1,024.19	16.00	125.00	2.50	2.78	1.92	1.87
1301		2790D	245.82	16.00	125.00	-0.20	0.22	0.00	0.02
1302		2791	2,725.26	16.00	120.00	0.49	0.55	0.27	0.10

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1303		2793	1,641.79	12.00	120.00	-0.11	0.22	0.04	0.03
1304		2795	1,083.15	16.00	120.00	-1.67	1.85	1.03	0.95
1305		2797	1,220.65	16.00	120.00	-1.54	1.71	1.00	0.82
1306		2797F	270.24	16.00	125.00	-0.25	0.27	0.01	0.03
1307		27988	124.00	6.00	100.00	-0.00	0.01	0.00	0.00
1308		279889	210.25	6.00	100.00	0.07	0.55	0.09	0.45
1309		2798B	300.00	8.00	110.00	0.02	0.11	0.00	0.01
1310		2798E	254.00	8.00	110.00	-0.01	0.03	0.000	0.000
1311		2799	2,733.22	16.00	120.00	0.39	0.43	0.17	0.06
1312		27991	135.00	6.00	100.00	-0.00	0.02	0.000	0.000
1313		27994	300.00	8.00	110.00	0.02	0.10	0.00	0.01
1314		27997	270.00	8.00	110.00	0.04	0.16	0.01	0.03
1315		2799A	193.00	8.00	110.00	-0.01	0.03	0.000	0.00
1316		2799D	134.00	6.00	100.00	0.02	0.16	0.01	0.04
1317		279A0	132.50	6.00	100.00	0.02	0.15	0.01	0.04
1318		279A3	270.00	8.00	110.00	0.000	0.00	0.00	0.00
1319		279A6	720.73	6.00	100.00	0.05	0.42	0.20	0.27
1320		279AC	244.00	8.00	110.00	0.05	0.21	0.01	0.05
1321		279AF	270.00	8.00	110.00	0.04	0.16	0.01	0.03
1322		279B2	771.86	6.00	100.00	0.04	0.28	0.10	0.13
1323		279B5	802.96	6.00	100.00	-0.00	0.02	0.000	0.00
1324		279BB	158.00	6.00	100.00	0.03	0.23	0.01	0.09
1325		279C7	126.98	6.00	100.00	0.02	0.14	0.00	0.04
1326		279CA	307.00	6.00	100.00	0.02	0.17	0.02	0.05
1327		279CD	464.86	8.00	110.00	0.10	0.46	0.09	0.19
1328		27A3E	270.00	6.00	100.00	-0.00	0.01	0.000	0.000
1329		27A6F	270.00	8.00	110.00	0.07	0.32	0.03	0.10
1330		27BF43	236.44	8.00	110.00	-0.28	1.24	0.28	1.20
1331		27E5D8	1,634.67	16.00	125.00	3.52	3.90	5.75	3.52
1332		27F42	151.90	6.00	100.00	-0.01	0.05	0.000	0.01
1333		27F48	270.00	6.00	100.00	0.01	0.09	0.00	0.01

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1334		27F4B	303.10	6.00	100.00	-0.03	0.24	0.03	0.09
1335		27F4E	156.23	6.00	100.00	-0.01	0.10	0.00	0.02
1336		27F57	270.00	16.00	125.00	0.40	0.44	0.02	0.06
1337		27F5A	270.00	16.00	125.00	0.46	0.51	0.02	0.08
1338		27F5D	270.00	16.00	125.00	0.49	0.54	0.02	0.09
1339		27F60	568.59	8.00	110.00	-0.05	0.22	0.03	0.05
1340		27F63	223.00	8.00	110.00	0.01	0.03	0.000	0.000
1341		27F66	172.61	8.00	110.00	0.01	0.03	0.000	0.00
1342		27F69	116.39	6.00	100.00	-0.01	0.07	0.00	0.01
1343		27F75	134.41	6.00	100.00	0.00	0.01	0.000	0.000
1344		27F78	346.00	8.00	110.00	-0.02	0.07	0.00	0.01
1345		27F7E	135.00	6.00	100.00	0.00	0.03	0.000	0.000
1346		27F81	270.00	16.00	125.00	-0.56	0.62	0.03	0.12
1347		27F87	118.18	6.00	100.00	-0.01	0.07	0.00	0.01
1348		27F8D	272.02	8.00	110.00	0.01	0.03	0.000	0.000
1349		27F96	346.00	8.00	110.00	-0.02	0.07	0.00	0.01
1350		27F9C	573.98	8.00	110.00	-0.04	0.16	0.02	0.03
1351		27FA5	134.98	6.00	100.00	0.000	0.00	0.00	0.00
1352		27FAB	270.00	8.00	110.00	0.02	0.08	0.00	0.01
1353		27FB1	135.00	6.00	100.00	-0.000	0.01	0.000	0.000
1354		27FB4	300.00	8.00	110.00	0.01	0.03	0.000	0.00
1355		27FB7	300.00	8.00	110.00	0.01	0.03	0.000	0.00
1356		27FBD	294.00	8.00	110.00	-0.01	0.03	0.000	0.000
1357		27FC3	134.00	6.00	100.00	0.00	0.02	0.000	0.00
1358		27FC6	427.00	8.00	110.00	-0.01	0.02	0.000	0.000
1359		27FC9	134.00	6.00	100.00	0.00	0.02	0.000	0.000
1360		2801	2,514.90	12.00	120.00	-0.58	1.14	1.36	0.54
1361		2803	1,868.00	12.00	120.00	0.60	1.17	1.07	0.57
1362		2805	1,791.89	12.00	120.00	-0.77	1.51	1.64	0.92
1363		2807	2,701.46	16.00	120.00	0.81	0.90	0.67	0.25
1364		2809	3,373.15	12.00	120.00	0.35	0.70	0.74	0.22

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1365	281	2,646.81	16.00	125.00	-1.04	1.15	0.97	0.37
1366	2811	1,374.32	12.00	120.00	-0.27	0.53	0.18	0.13
1367	2813	1,714.26	16.00	120.00	0.00	0.00	0.00	0.00
1368	2815	1,499.60	12.00	120.00	-1.00	1.97	2.24	1.49
1369	2817	2,592.10	12.00	120.00	-0.12	0.24	0.08	0.03
1370	2819	2,734.12	12.00	120.00	0.16	0.31	0.14	0.05
1371	2821	2,662.86	12.00	120.00	-0.62	1.22	1.63	0.61
1372	2823	2,708.40	12.00	120.00	-0.30	0.59	0.44	0.16
1373	2825	2,408.79	12.00	120.00	0.36	0.70	0.54	0.22
1374	2827	931.89	16.00	120.00	-0.10	0.11	0.00	0.00
1375	2829	2,903.29	12.00	120.00	-0.32	0.62	0.52	0.18
1376	283	2,637.89	24.00	125.00	3.72	1.83	1.42	0.54
1377	2831	17,336.56	24.00	120.00	2.81	1.38	6.00	0.35
1378	2833	823.00	24.00	120.00	-3.95	1.95	0.54	0.65
1379	2835	1,136.98	16.00	120.00	-0.11	0.12	0.01	0.01
1380	2837	1,241.90	16.00	120.00	0.28	0.31	0.04	0.03
1381	2839	1,199.90	16.00	120.00	0.26	0.29	0.04	0.03
1382	2841	208.46	12.00	125.00	1.04	2.06	0.31	1.50
1383	2843	1,126.15	12.00	120.00	-1.05	2.07	1.85	1.64
1384	2845	1,374.40	16.00	120.00	2.47	2.73	2.70	1.96
1385	2847	2,510.23	16.00	120.00	1.69	1.87	2.44	0.97
1386	2849	1,395.01	16.00	120.00	1.28	1.42	0.81	0.58
1387	2851	1,741.30	16.00	120.00	1.61	1.78	1.55	0.89
1388	2853	1,029.28	16.00	120.00	1.25	1.39	0.58	0.56
1389	2855	3,480.54	16.00	120.00	-1.21	1.34	1.83	0.53
1390	2857	5,860.43	12.00	120.00	0.14	0.28	0.23	0.04
1391	2859	2,562.74	12.00	120.00	1.11	2.19	4.68	1.83
1392	2861	3,123.91	30.00	120.00	-2.85	0.90	0.37	0.12
1393	2863	282.37	16.00	120.00	1.75	1.94	0.29	1.04
1394	2865	1,448.54	16.00	120.00	-2.72	3.02	3.41	2.35
1395	2867	2,725.49	16.00	120.00	2.65	2.94	6.11	2.24

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1396		287	6,100.33	12.00	120.00	0.65	1.29	4.14	0.68
1397		2871	657.27	16.00	125.00	1.23	1.36	0.33	0.50
1398		2873	10.14	8.00	120.00	-0.16	0.73	0.00	0.37
1399		2875	557.44	16.00	125.00	1.13	1.25	0.24	0.43
1400		2879	32.22	8.00	120.00	-0.10	0.43	0.00	0.15
1401		2883	61.72	24.00	120.00	4.88	2.40	0.06	0.96
1402		2885F	300.00	8.00	110.00	0.01	0.03	0.000	0.00
1403		28862	135.00	6.00	100.00	0.00	0.02	0.000	0.000
1404		28865	270.00	16.00	125.00	0.61	0.68	0.04	0.14
1405		28868	270.00	16.00	125.00	0.64	0.71	0.04	0.15
1406		2886B	288.30	16.00	125.00	0.74	0.82	0.06	0.19
1407		2886E	124.70	16.00	125.00	0.76	0.84	0.03	0.21
1408		2887A	480.57	8.00	110.00	-0.02	0.10	0.01	0.01
1409		2887D	468.77	8.00	110.00	-0.01	0.06	0.00	0.00
1410		28880	408.23	8.00	110.00	0.00	0.02	0.000	0.000
1411		28883	964.73	6.00	100.00	0.06	0.48	0.33	0.34
1412		2888C	471.48	8.00	110.00	-0.01	0.05	0.00	0.00
1413		2889	512.00	24.00	120.00	7.33	3.61	1.05	2.04
1414		28892	571.78	16.00	125.00	-0.03	0.04	0.000	0.000
1415		2889B	287.80	8.00	110.00	0.04	0.19	0.01	0.04
1416		2889E	270.50	8.00	110.00	-0.00	0.01	0.00	0.00
1417		288A1	423.50	8.00	110.00	0.01	0.03	0.000	0.000
1418		288B0	210.20	8.00	110.00	0.04	0.20	0.01	0.04
1419		288B3	178.10	8.00	110.00	-0.12	0.51	0.04	0.23
1420		288BF	172.00	6.00	100.00	0.01	0.12	0.00	0.02
1421		288C8	433.00	8.00	110.00	0.01	0.04	0.000	0.00
1422		288CB	435.00	8.00	110.00	0.01	0.03	0.000	0.00
1423		288D1	1,201.87	8.00	110.00	0.15	0.68	0.48	0.40
1424		288D4	388.30	6.00	100.00	0.01	0.12	0.01	0.03
1425		288DA	928.30	6.00	100.00	-0.01	0.07	0.01	0.01
1426		288E3	172.00	6.00	100.00	-0.03	0.26	0.02	0.11

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1427	289	2,952.54	16.00	125.00	-0.47	0.52	0.25	0.09
1428	2891	1,059.96	24.00	120.00	7.55	3.72	2.29	2.16
1429	2897	187.93	16.00	120.00	3.44	3.81	0.68	3.62
1430	29	17.99	4.00	90.00	0.00	0.00	0.00	0.00
1431	29007	499.86	16.00	125.00	0.35	0.39	0.02	0.05
1432	2901C	288.30	16.00	125.00	0.85	0.94	0.07	0.25
1433	2901F	179.15	16.00	125.00	0.83	0.92	0.04	0.24
1434	29022	270.00	16.00	125.00	0.94	1.04	0.08	0.31
1435	29025	277.11	16.00	125.00	-0.98	1.08	0.09	0.33
1436	29031	468.00	8.00	110.00	-0.02	0.09	0.00	0.01
1437	29037	474.00	8.00	110.00	-0.01	0.04	0.00	0.00
1438	2903A	474.00	8.00	110.00	-0.02	0.09	0.00	0.01
1439	29040	288.28	8.00	110.00	-0.16	0.71	0.12	0.43
1440	29043	270.02	8.00	110.00	-0.11	0.47	0.05	0.20
1441	29046	272.28	8.00	110.00	-0.13	0.57	0.08	0.28
1442	29052	434.00	8.00	110.00	0.01	0.02	0.000	0.000
1443	29058	435.00	8.00	110.00	0.01	0.03	0.000	0.00
1444	2905E	414.00	8.00	110.00	-0.01	0.03	0.000	0.00
1445	29064	405.00	8.00	110.00	0.00	0.01	0.000	0.000
1446	29070	579.15	6.00	100.00	0.07	0.55	0.26	0.44
1447	2909	4,442.11	16.00	120.00	0.00	0.000000	0.00	0.00
1448	291	2,658.48	12.00	120.00	-0.15	0.29	0.11	0.04
1449	2911	4,637.58	12.00	120.00	-1.91	3.77	23.05	4.97
1450	293	2,698.28	12.00	120.00	-0.34	0.68	0.56	0.21
1451	295	2,712.20	12.00	120.00	0.26	0.50	0.32	0.12
1452	29589	271.57	16.00	125.00	-1.03	1.14	0.10	0.36
1453	2958C	282.17	16.00	125.00	1.12	1.25	0.12	0.42
1454	2958F	294.32	16.00	125.00	-1.09	1.20	0.12	0.40
1455	295A4	965.48	6.00	100.00	0.07	0.56	0.44	0.46
1456	295AD	373.68	8.00	110.00	0.01	0.02	0.000	0.000
1457	295B0	666.11	8.00	110.00	-0.08	0.36	0.08	0.12

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1458	295B3	812.06	8.00	110.00	0.13	0.58	0.24	0.29
1459	295C2	270.00	8.00	110.00	-0.09	0.42	0.04	0.16
1460	295CB	448.18	8.00	110.00	0.01	0.02	0.000	0.000
1461	295D4	399.83	8.00	110.00	-0.01	0.04	0.000	0.00
1462	295DD	432.82	8.00	110.00	0.01	0.03	0.000	0.00
1463	295E0	434.84	8.00	110.00	0.01	0.04	0.00	0.00
1464	29666	1,011.33	6.00	100.00	0.08	0.64	0.59	0.58
1465	296725	531.86	8.00	110.00	0.32	1.40	0.80	1.50
1466	296747	236.10	8.00	110.00	0.24	1.05	0.21	0.88
1467	296749	436.50	8.00	110.00	0.04	0.17	0.01	0.03
1468	29679D	111.33	6.00	100.00	0.01	0.08	0.00	0.01
1469	2967AF	253.94	8.00	110.00	0.22	0.95	0.19	0.74
1470	2967C0	124.94	8.00	110.00	0.16	0.72	0.05	0.43
1471	2967DC	530.10	8.00	110.00	0.02	0.07	0.00	0.01
1472	297	2,491.28	12.00	120.00	0.15	0.29	0.11	0.04
1473	298025	819.21	8.00	110.00	-0.02	0.07	0.01	0.01
1474	299	5,263.94	12.00	120.00	-0.29	0.58	0.82	0.16
1475	29CCA	270.49	8.00	110.00	-0.07	0.32	0.03	0.09
1476	29CD6	745.78	16.00	125.00	-1.27	1.41	0.40	0.53
1477	29CE2	284.41	16.00	125.00	-1.12	1.24	0.12	0.42
1478	29CF1	368.77	8.00	110.00	0.01	0.02	0.000	0.000
1479	29CF4	155.03	6.00	100.00	-0.01	0.08	0.00	0.01
1480	29CFA	303.54	6.00	100.00	0.04	0.28	0.04	0.13
1481	29CFD	155.00	6.00	100.00	-0.01	0.05	0.000	0.01
1482	29D00	809.70	6.00	100.00	-0.06	0.49	0.29	0.36
1483	29D0C	271.97	6.00	100.00	-0.05	0.40	0.07	0.25
1484	29D0F	10.00	16.00	125.00	-1.34	1.49	0.01	0.59
1485	29D15	168.00	16.00	125.00	-1.44	1.60	0.11	0.67
1486	29D1B	34.00	16.00	125.00	-1.66	1.84	0.03	0.88
1487	29D24	982.96	8.00	110.00	0.18	0.79	0.51	0.52
1488	29D3C	321.81	8.00	110.00	-0.25	1.10	0.31	0.95

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1489		29D5A	411.28	8.00	110.00	-0.01	0.04	0.000	0.00
1490		29D63	236.44	6.00	100.00	-0.08	0.63	0.13	0.57
1491		29D69	136.37	6.00	100.00	0.01	0.04	0.000	0.00
1492		29D6C	280.00	6.00	100.00	-0.09	0.71	0.20	0.71
1493		29D72	129.26	6.00	100.00	0.00	0.02	0.000	0.000
1494		29D75	712.53	6.00	100.00	0.10	0.77	0.58	0.82
1495		29DA9	497.74	8.00	110.00	-0.02	0.08	0.00	0.01
1496		29F2B7	1,387.88	24.00	130.00	3.40	1.67	0.59	0.42
1497		29F730	1,171.78	12.00	120.00	0.25	0.49	0.13	0.11
1498		2A05E1	126.00	4.00	90.00	0.04	0.75	0.19	1.54
1499		2A05E3	145.02	8.00	110.00	0.17	0.74	0.07	0.47
1500		2A1F21	54.09	6.00	100.00	0.16	1.26	0.11	2.07
1501		2A1F2D	270.71	8.00	110.00	-0.09	0.41	0.04	0.15
1502		2A1F43	453.16	24.00	130.00	7.74	3.81	0.88	1.95
1503		2A2018	328.62	6.00	100.00	-0.12	0.98	0.43	1.30
1504		2A2031	134.17	6.00	100.00	-0.14	1.11	0.22	1.62
1505		2A2052	189.13	4.00	90.00	0.000	0.01	0.000	0.000
1506		2A465	270.00	8.00	110.00	-0.08	0.34	0.03	0.11
1507		2A48A	188.48	8.00	110.00	0.04	0.19	0.01	0.04
1508		2A48D	87.85	8.00	110.00	-0.04	0.17	0.00	0.03
1509		2A490	270.00	8.00	110.00	-0.14	0.63	0.09	0.34
1510		2A496	375.00	8.00	110.00	0.12	0.55	0.10	0.26
1511		2A4DE	367.00	8.00	110.00	0.01	0.05	0.00	0.00
1512		2A605	463.00	8.00	110.00	-0.01	0.05	0.00	0.00
1513		2A63B2	973.67	6.00	100.00	0.05	0.43	0.27	0.28
1514		2A750	1,067.20	8.00	110.00	0.20	0.87	0.67	0.63
1515		2A782	270.00	6.00	100.00	0.04	0.33	0.05	0.17
1516		2A7B3	366.64	8.00	110.00	0.04	0.17	0.01	0.03
1517		2A800	321.58	8.00	110.00	-0.000	0.00	0.00	0.00
1518		2A894	270.00	8.00	110.00	0.07	0.29	0.02	0.08
1519		2A8BA	64.36	8.00	110.00	-0.01	0.04	0.000	0.00

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1520		2A8BD	222.90	8.00	110.00	0.00	0.02	0.000	0.000
1521		2A8C0	93.05	8.00	110.00	-0.00	0.00	0.00	0.00
1522		2A8C6	270.00	8.00	110.00	-0.05	0.22	0.01	0.05
1523		2AA1E	168.70	8.00	110.00	0.05	0.21	0.01	0.04
1524		2AA78	270.00	6.00	100.00	0.01	0.10	0.00	0.02
1525		2AB59	165.10	8.00	110.00	0.05	0.23	0.01	0.05
1526		2AC7A	270.00	6.00	100.00	-0.01	0.05	0.00	0.01
1527		2AE8F	387.00	8.00	110.00	0.04	0.20	0.02	0.04
1528		2AE92	387.00	8.00	110.00	0.01	0.05	0.00	0.00
1529		2AE95	321.77	8.00	110.00	0.09	0.39	0.05	0.14
1530		2AEAD	355.00	8.00	110.00	0.03	0.12	0.01	0.02
1531		2AEC0	530.78	8.00	110.00	-0.01	0.04	0.000	0.00
1532		2AECC	354.64	8.00	110.00	0.03	0.14	0.01	0.02
1533		2B18E	325.33	8.00	110.00	0.06	0.25	0.02	0.06
1534		2B191	325.33	8.00	110.00	0.04	0.16	0.01	0.03
1535		2B194	387.01	8.00	110.00	0.05	0.20	0.02	0.04
1536		2B1A0	468.29	8.00	110.00	-0.01	0.03	0.000	0.00
1537		2B1A3	387.01	8.00	110.00	0.07	0.30	0.03	0.09
1538		2B1B8	186.00	6.00	100.00	0.04	0.33	0.03	0.17
1539		2B1BF	484.89	8.00	110.00	-0.01	0.03	0.000	0.00
1540		2B1C8	202.00	6.00	100.00	0.05	0.37	0.04	0.21
1541		2B1CB	532.25	8.00	110.00	-0.01	0.03	0.000	0.00
1542		2B1D1	352.13	8.00	110.00	0.04	0.16	0.01	0.03
1543		2B1D7	365.88	8.00	110.00	0.04	0.18	0.01	0.03
1544		2B1E7	545.78	8.00	110.00	-0.01	0.03	0.000	0.00
1545		2B21C	55.11	24.00	130.00	-6.25	3.08	0.07	1.31
1546		2B22B	434.00	24.00	130.00	4.40	2.16	0.30	0.68
1547		2B22E	41.38	24.00	130.00	4.39	2.16	0.03	0.68
1548		2B231	175.20	24.00	130.00	4.40	2.17	0.12	0.69
1549		2B234	452.24	24.00	130.00	-4.41	2.17	0.31	0.69
1550		2B23A	86.92	16.00	125.00	-1.44	1.59	0.06	0.67

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1551	2B246	84.45	16.00	125.00	0.77	0.85	0.02	0.21
1552	2B24C	665.49	16.00	125.00	0.52	0.57	0.07	0.10
1553	2B25F	59.07	8.00	110.00	-0.13	0.56	0.02	0.28
1554	2B2A5	1,254.02	24.00	125.00	5.50	2.71	1.40	1.11
1555	2B403	42.91	24.00	130.00	2.24	1.10	0.01	0.20
1556	2B443	643.75	16.00	125.00	0.64	0.71	0.10	0.15
1557	2B46F	635.12	16.00	125.00	0.10	0.11	0.00	0.00
1558	2B49C	274.61	16.00	125.00	0.05	0.06	0.000	0.00
1559	2B4AE	664.97	16.00	125.00	-0.97	1.08	0.22	0.32
1560	2B4BD	688.18	16.00	125.00	-0.96	1.07	0.22	0.32
1561	2B539	172.00	8.00	110.00	-0.03	0.13	0.00	0.02
1562	2B5CF	191.25	8.00	110.00	-0.20	0.89	0.12	0.65
1563	2B5D2	169.61	8.00	110.00	0.24	1.07	0.16	0.91
1564	2B5EF	838.75	24.00	130.00	3.56	1.75	0.39	0.46
1565	2B624	169.50	8.00	110.00	0.21	0.94	0.12	0.72
1566	2B627	188.50	8.00	110.00	-0.23	1.02	0.16	0.84
1567	2B62A	699.51	24.00	130.00	3.11	1.53	0.25	0.36
1568	2B64A	154.00	6.00	100.00	-0.01	0.10	0.00	0.02
1569	2B6A2	861.44	24.00	130.00	2.98	1.47	0.29	0.33
1570	2B6A5	499.12	24.00	130.00	2.76	1.36	0.14	0.29
1571	2B6CA	70.00	8.00	110.00	-0.11	0.48	0.01	0.20
1572	2B7B6	549.03	6.00	100.00	-0.05	0.38	0.12	0.22
1573	2B7CE	546.66	6.00	100.00	-0.05	0.36	0.11	0.21
1574	2B7D4	116.87	8.00	110.00	-0.10	0.46	0.02	0.19
1575	2B7E9	439.20	6.00	100.00	0.01	0.10	0.01	0.02
1576	2B7EC	611.00	6.00	100.00	-0.01	0.06	0.01	0.01
1577	2BB61	440.00	6.00	100.00	-0.01	0.09	0.01	0.02
1578	2BBA9	881.20	6.00	100.00	-0.01	0.05	0.01	0.01
1579	2BBBB	269.20	6.00	100.00	0.02	0.15	0.01	0.04
1580	2BBF9	269.20	6.00	100.00	0.00	0.01	0.000	0.000
1581	2BC66	170.00	6.00	100.00	-0.05	0.41	0.04	0.26

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1582	2BC6C	269.20	6.00	100.00	0.01	0.08	0.00	0.01
1583	2BC6F	1,169.11	6.00	100.00	-0.07	0.53	0.49	0.42
1584	2BC7E	679.58	6.00	100.00	0.02	0.12	0.02	0.03
1585	2BC8B	186.00	8.00	110.00	-0.06	0.25	0.01	0.06
1586	2BC91	890.79	6.00	100.00	-0.07	0.57	0.43	0.48
1587	2BC97	352.83	8.00	110.00	0.05	0.21	0.02	0.04
1588	2BC9D	306.84	8.00	110.00	-0.02	0.09	0.00	0.01
1589	2BCA0	561.79	6.00	100.00	0.01	0.05	0.00	0.01
1590	2BCAC	257.83	8.00	110.00	-0.02	0.08	0.00	0.01
1591	2C1AC	270.00	8.00	110.00	0.14	0.61	0.09	0.32
1592	2C1B2	611.34	8.00	110.00	0.08	0.33	0.06	0.11
1593	2C1C4	625.84	6.00	100.00	0.01	0.10	0.01	0.02
1594	2C1CE	233.43	6.00	100.00	-0.04	0.33	0.04	0.17
1595	2C1D7	426.47	6.00	100.00	0.03	0.20	0.03	0.07
1596	2C1EF	359.78	6.00	100.00	-0.04	0.34	0.07	0.19
1597	2C210	1,281.51	6.00	100.00	0.02	0.17	0.06	0.05
1598	2C21D	171.13	8.00	110.00	0.11	0.47	0.03	0.20
1599	2C220	458.68	8.00	110.00	-0.04	0.19	0.02	0.04
1600	2C223	421.81	8.00	110.00	0.05	0.24	0.02	0.06
1601	2C5DE	172.27	6.00	100.00	0.07	0.58	0.08	0.49
1602	2C91E	448.59	8.00	110.00	-0.02	0.07	0.00	0.01
1603	2C924	1,006.35	6.00	100.00	-0.04	0.28	0.13	0.13
1604	2C930	270.00	6.00	100.00	0.05	0.37	0.06	0.21
1605	2C937	270.00	6.00	100.00	0.00	0.02	0.000	0.00
1606	2C95A	233.50	6.00	100.00	0.00	0.04	0.000	0.00
1607	2C9A6	192.22	24.00	130.00	3.09	1.52	0.07	0.36
1608	2C9BB	539.49	24.00	130.00	-3.01	1.48	0.18	0.34
1609	2CA1B2	258.04	24.00	130.00	-7.43	3.66	0.47	1.81
1610	2CA973	226.96	8.00	110.00	0.01	0.05	0.000	0.00
1611	2CB3FA	421.53	6.00	100.00	0.02	0.18	0.02	0.06
1612	2CB8D3	125.99	8.00	110.00	0.23	1.01	0.10	0.82

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1613	2CB8F9	104.23	8.00	110.00	0.000	0.00	0.00	0.00
1614	2CB914	235.07	16.00	125.00	1.47	1.63	0.16	0.70
1615	2CB948	64.35	16.00	125.00	1.46	1.61	0.04	0.68
1616	2CBC81	1,113.29	8.00	110.00	-0.00	0.02	0.000	0.000
1617	2CBD09	634.18	6.00	100.00	0.01	0.08	0.01	0.01
1618	2CBD11	105.46	6.00	100.00	-0.02	0.17	0.01	0.05
1619	2CBD4F	111.98	8.00	110.00	-0.04	0.20	0.00	0.04
1620	2CBD58	232.27	6.00	100.00	-0.02	0.15	0.01	0.04
1621	2CD1B1	10.30	8.00	110.00	-0.07	0.32	0.000	0.09
1622	2CD1C1	648.01	8.00	110.00	-0.02	0.10	0.01	0.01
1623	2CD1F7	136.78	8.00	110.00	-0.06	0.27	0.01	0.07
1624	2CD1FC	506.58	8.00	110.00	-0.09	0.40	0.07	0.15
1625	2CD20E	257.67	8.00	110.00	-0.02	0.08	0.00	0.01
1626	2CD24C	136.11	8.00	110.00	-0.01	0.04	0.000	0.00
1627	2CD24F	134.37	8.00	110.00	-0.02	0.09	0.00	0.01
1628	2CD253	143.00	8.00	110.00	0.01	0.03	0.000	0.00
1629	2CD25A	127.00	6.00	100.00	0.01	0.04	0.000	0.00
1630	2CD289	290.92	8.00	110.00	0.07	0.31	0.03	0.09
1631	2CD29F	276.82	8.00	110.00	0.07	0.31	0.03	0.09
1632	2CD2AD	891.63	8.00	110.00	0.06	0.28	0.07	0.08
1633	2E38D7	320.55	8.00	110.00	0.18	0.82	0.18	0.55
1634	2E38D8	194.00	8.00	110.00	0.17	0.73	0.09	0.45
1635	2E3933	495.00	8.00	110.00	0.08	0.36	0.06	0.12
1636	2E393C	23.97	8.00	110.00	0.13	0.57	0.01	0.29
1637	2E393E	15.46	8.00	110.00	0.13	0.57	0.00	0.28
1638	2E395C	1,008.55	8.00	110.00	-0.06	0.25	0.06	0.06
1639	2E3B78	296.22	8.00	110.00	0.10	0.43	0.05	0.17
1640	2E3B7B	577.96	8.00	110.00	-0.12	0.53	0.15	0.25
1641	2E3B8F	762.72	8.00	110.00	-0.06	0.27	0.05	0.07
1642	2E3B97	667.67	8.00	110.00	0.08	0.37	0.08	0.13
1643	2E3B9B	156.70	8.00	110.00	-0.26	1.15	0.16	1.05

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1644		2E3BA7	118.59	8.00	110.00	-0.19	0.82	0.07	0.56
1645		2E3BAD	191.24	8.00	110.00	-0.10	0.43	0.03	0.17
1646		2E3BB4	114.08	6.00	100.00	0.01	0.10	0.00	0.02
1647		2E5A7D	742.94	16.00	125.00	-0.60	0.66	0.10	0.13
1648		2E5AAB	132.08	12.00	120.00	0.42	0.82	0.04	0.29
1649		2E5AC0	441.24	12.00	120.00	-0.31	0.62	0.08	0.18
1650		2E5AD5	710.41	12.00	120.00	-0.71	1.40	0.56	0.79
1651		2E5B32	1,387.26	12.00	120.00	-0.69	1.36	1.05	0.75
1652		2E6813	184.70	6.00	100.00	0.01	0.10	0.00	0.02
1653		2E6E6D	132.33	8.00	110.00	0.01	0.03	0.000	0.000
1654		2E7AB	37.00	12.00	120.00	1.04	2.05	0.06	1.61
1655		2E7B4	2,669.51	16.00	125.00	0.95	1.06	0.84	0.31
1656		2E7C0	374.03	16.00	125.00	-1.47	1.63	0.26	0.70
1657		2E7C3	331.32	16.00	125.00	-1.18	1.31	0.15	0.47
1658		2E7D2	169.58	16.00	125.00	-1.17	1.30	0.08	0.46
1659		2E7DB	3,702.98	16.00	125.00	-1.17	1.30	1.69	0.46
1660		2E7EA	1,531.18	16.00	125.00	1.28	1.42	0.82	0.54
1661		2E8AD	2,672.99	16.00	125.00	2.79	3.09	6.11	2.29
1662		2E9EA	126.00	8.00	110.00	0.05	0.21	0.01	0.05
1663		2EA1D	862.50	16.00	125.00	1.50	1.67	0.63	0.73
1664		2EA20	376.86	16.00	125.00	0.02	0.02	0.000	0.000
1665		2EA4C1	1,504.02	16.00	125.00	1.08	1.19	0.59	0.39
1666		2EAA7	116.00	8.00	110.00	0.37	1.65	0.24	2.04
1667		2EAF3	898.97	16.00	125.00	-2.54	2.82	1.73	1.93
1668		2EAFF	115.50	8.00	110.00	0.15	0.65	0.04	0.36
1669		2EB05	855.10	16.00	125.00	2.08	2.30	1.13	1.32
1670		2EB0E	1,395.38	16.00	125.00	-0.16	0.18	0.02	0.01
1671		2EB1D	218.42	8.00	110.00	1.05	4.64	3.01	13.78
1672		2EB25	100.00	8.00	110.00	0.30	1.32	0.13	1.35
1673		2EB3C	135.95	8.00	110.00	0.02	0.07	0.000	0.01
1674		2EB93	148.43	8.00	110.00	0.08	0.34	0.02	0.11

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1675	2EBA4	45.60	8.00	110.00	-0.08	0.36	0.01	0.12
1676	2EBD0	388.34	8.00	110.00	0.00	0.00	0.00	0.00
1677	2EBD3	766.16	8.00	110.00	0.03	0.12	0.01	0.02
1678	2EBE3	963.42	8.00	110.00	0.18	0.78	0.49	0.51
1679	2EC57	996.03	8.00	110.00	0.16	0.71	0.42	0.43
1680	2ECC6	971.10	8.00	110.00	0.24	1.05	0.85	0.88
1681	2ED1A	53.01	8.00	110.00	-0.23	1.01	0.04	0.82
1682	2ED26	122.01	8.00	110.00	0.01	0.03	0.000	0.00
1683	2ED65	58.93	6.00	100.00	0.04	0.35	0.01	0.19
1684	2ED74	1,651.96	6.00	100.00	-0.13	0.99	2.18	1.32
1685	2ED82	59.60	8.00	110.00	0.17	0.77	0.03	0.50
1686	2ED8E	2,931.26	6.00	100.00	-0.14	1.08	4.54	1.55
1687	2EE56	214.01	8.00	110.00	-0.07	0.30	0.02	0.09
1688	2EE71	222.00	8.00	110.00	-0.28	1.22	0.26	1.16
1689	2EE74	264.00	8.00	110.00	-0.32	1.43	0.41	1.55
1690	2EE77	120.98	8.00	110.00	-0.58	2.55	0.55	4.56
1691	2EE7D	960.51	6.00	100.00	0.07	0.54	0.41	0.43
1692	2EE8B	329.24	4.00	90.00	0.01	0.21	0.05	0.15
1693	2EE8E	289.00	4.00	90.00	-0.01	0.18	0.03	0.10
1694	2EE91	854.94	6.00	100.00	-0.03	0.25	0.09	0.11
1695	2EE94	245.00	6.00	100.00	-0.08	0.60	0.13	0.51
1696	2EE97	54.00	6.00	100.00	-0.12	0.93	0.06	1.18
1697	2EEA3	546.69	8.00	110.00	-0.32	1.41	0.83	1.52
1698	2EEA6	849.95	6.00	100.00	0.07	0.53	0.35	0.41
1699	2EEA9	853.19	4.00	90.00	0.01	0.23	0.14	0.17
1700	2EEAF	339.16	6.00	100.00	0.13	0.99	0.45	1.32
1701	2EEB2	216.00	6.00	100.00	0.00	0.01	0.000	0.000
1702	2EEBA	103.79	8.00	110.00	0.33	1.44	0.16	1.59
1703	2EEBD	244.97	8.00	110.00	-0.26	1.16	0.26	1.05
1704	2EEC0	154.00	6.00	100.00	0.02	0.17	0.01	0.05
1705	2EEF87	326.15	12.00	120.00	0.76	1.49	0.29	0.89

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1706	2EEFB7	650.36	6.00	100.00	0.20	1.55	1.97	3.03
1707	2EEFE9	187.00	6.00	100.00	-0.23	1.78	0.73	3.91
1708	2EEFF5	435.54	12.00	120.00	0.55	1.08	0.22	0.49
1709	2EEFF8	639.76	12.00	120.00	0.40	0.78	0.17	0.27
1710	2EEFF9	287.20	12.00	120.00	0.17	0.33	0.02	0.05
1711	2EEFFB	507.73	12.00	120.00	0.10	0.19	0.01	0.02
1712	2EF016	549.70	12.00	120.00	-0.13	0.26	0.02	0.03
1713	2EF08F	1,014.27	12.00	120.00	0.21	0.41	0.08	0.08
1714	2EF0A5	179.49	6.00	100.00	0.06	0.45	0.06	0.31
1715	2EF54	253.00	6.00	100.00	-0.10	0.78	0.22	0.85
1716	2EF72	253.04	8.00	110.00	-0.27	1.22	0.29	1.15
1717	2EF85	270.01	8.00	110.00	-0.27	1.18	0.30	1.10
1718	2EFE7	413.27	16.00	125.00	-0.02	0.02	0.000	0.000
1719	2EFEE	916.36	24.00	130.00	-5.37	2.65	0.91	0.99
1720	2EFF1	1,508.15	24.00	130.00	-4.91	2.42	1.27	0.84
1721	2F003	89.50	12.00	120.00	-0.77	1.51	0.08	0.91
1722	2F009	124.18	8.00	110.00	-0.07	0.31	0.01	0.09
1723	2F04E	823.39	8.00	110.00	0.17	0.74	0.38	0.46
1724	2F083	1,267.50	8.00	110.00	-0.18	0.80	0.68	0.53
1725	2F159	443.89	24.00	130.00	-4.77	2.35	0.35	0.80
1726	2F1B4	212.46	8.00	110.00	-0.02	0.08	0.00	0.01
1727	2F1E2	516.62	8.00	110.00	-0.06	0.27	0.04	0.07
1728	2F201	590.41	24.00	130.00	-4.57	2.25	0.43	0.73
1729	2F204	35.14	24.00	130.00	-4.75	2.34	0.03	0.79
1730	2F215	759.67	8.00	110.00	-0.20	0.90	0.50	0.66
1731	2F237	276.39	8.00	110.00	-0.05	0.20	0.01	0.04
1732	2F291	547.66	12.00	120.00	-0.88	1.74	0.65	1.18
1733	2F2F5	10.00	12.00	120.00	-0.000000	0.00000	0.00	0.00
1734	2F376	30.24	16.00	125.00	-0.000000	0.000000	0.00	0.00
1735	2F3B2	2,036.38	12.00	120.00	-0.88	1.74	2.41	1.18
1736	2F420	687.02	12.00	120.00	-1.05	2.06	1.12	1.63

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1737		2F451	284.71	16.00	125.00	1.55	1.72	0.22	0.77
1738		2F460	1,875.37	16.00	125.00	-1.13	1.26	0.81	0.43
1739		2F487	1,886.65	12.00	120.00	-0.88	1.74	2.23	1.18
1740		2F549	1,325.65	24.00	130.00	-7.47	3.68	2.42	1.83
1741		2F572	13.21	24.00	120.00	-7.47	3.68	0.03	2.12
1742		2F6C8	260.58	6.00	100.00	-0.05	0.39	0.06	0.23
1743		2F714	21.00	8.00	110.00	-0.17	0.75	0.01	0.46
1744		2F721C	247.00	12.00	120.00	0.13	0.26	0.01	0.04
1745		2F7DA	204.74	8.00	110.00	-0.53	2.37	0.81	3.98
1746		2F7E9	133.73	8.00	110.00	0.03	0.12	0.00	0.02
1747		2F841	45.00	8.00	110.00	0.17	0.74	0.02	0.46
1748		2F844	84.08	8.00	110.00	0.17	0.74	0.04	0.46
1749		2F871	219.98	8.00	110.00	0.06	0.26	0.01	0.06
1750		2F8A3	1,274.18	6.00	100.00	0.09	0.71	0.91	0.71
1751		2F950	37.69	6.00	100.00	0.03	0.24	0.00	0.09
1752		2F956	32.15	6.00	100.00	0.05	0.38	0.01	0.22
1753		2F95F	1,274.83	6.00	100.00	0.12	0.98	1.65	1.29
1754		2FA4D2	390.73	12.00	120.00	0.49	0.97	0.16	0.40
1755		2FA4D6	1,322.21	12.00	120.00	0.36	0.72	0.31	0.23
1756		2FA4F9	209.66	12.00	120.00	-0.50	0.99	0.09	0.41
1757		2FA500	209.85	6.00	100.00	-0.13	0.99	0.28	1.31
1758		2FA66A	259.22	6.00	100.00	0.15	1.19	0.48	1.85
1759		2FA66D	427.00	6.00	100.00	-0.07	0.58	0.21	0.49
1760		2FA66F	319.20	8.00	110.00	0.04	0.20	0.01	0.04
1761		2FA67E	305.82	6.00	100.00	-0.14	1.08	0.47	1.54
1762		2FA6E4	779.90	6.00	100.00	0.05	0.41	0.20	0.26
1763		2FA701	620.00	6.00	100.00	0.10	0.77	0.52	0.83
1764		2FA725	183.71	6.00	100.00	-0.10	0.82	0.17	0.92
1765		2FA761	1,506.33	6.00	100.00	-0.02	0.18	0.08	0.06
1766		2FA76D	235.64	6.00	100.00	-0.16	1.27	0.49	2.10
1767		2FA7A1	1,632.52	6.00	100.00	0.06	0.47	0.55	0.34

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1768		2FA96C	386.68	6.00	100.00	0.04	0.31	0.06	0.15
1769		2FA96F	274.53	6.00	100.00	-0.01	0.10	0.00	0.02
1770		2FA981	1,184.57	6.00	100.00	-0.04	0.31	0.18	0.15
1771		2FA99B	137.86	6.00	100.00	-0.06	0.48	0.05	0.35
1772		2FA9C9	301.95	8.00	110.00	0.01	0.04	0.000	0.00
1773		2FA9FA	418.13	6.00	100.00	-0.06	0.47	0.14	0.33
1774		2FAA0C	1,028.27	6.00	100.00	-0.02	0.14	0.04	0.04
1775		2FAA3D	499.30	6.00	100.00	0.01	0.08	0.01	0.01
1776		2FAA56	679.87	6.00	100.00	-0.02	0.19	0.04	0.06
1777		2FAA77	183.63	8.00	110.00	0.02	0.08	0.00	0.01
1778		2FABBD	264.94	12.00	120.00	0.17	0.34	0.02	0.06
1779		2FABF4	837.97	6.00	100.00	0.03	0.22	0.07	0.08
1780		2FAC0E	202.41	12.00	120.00	0.13	0.26	0.01	0.03
1781		2FAC0F	518.05	12.00	120.00	0.10	0.19	0.01	0.02
1782		2FAC33	510.00	6.00	100.00	0.01	0.12	0.01	0.02
1783		2FAC34	292.98	8.00	110.00	0.01	0.05	0.000	0.00
1784		2FAC3E	279.99	6.00	100.00	0.04	0.35	0.05	0.19
1785		2FAC46	280.01	6.00	100.00	0.05	0.40	0.07	0.25
1786		2FAC8F	949.46	6.00	100.00	-0.01	0.09	0.02	0.02
1787		2FACD2	1,033.29	6.00	100.00	0.04	0.30	0.15	0.15
1788		2FACF0	285.28	6.00	100.00	0.02	0.12	0.01	0.03
1789		2FACFC	268.69	8.00	110.00	-0.01	0.06	0.00	0.00
1790		2FAD01	428.39	6.00	100.00	-0.01	0.08	0.00	0.01
1791		2FAE67	301.44	6.00	100.00	0.06	0.50	0.11	0.37
1792		2FAE8F	280.00	6.00	100.00	-0.02	0.12	0.01	0.03
1793		2FAE90	921.73	6.00	100.00	-0.05	0.42	0.25	0.27
1794		2FAEB0	687.91	6.00	100.00	-0.02	0.16	0.03	0.05
1795		2FAEE5	1,041.95	6.00	100.00	0.01	0.11	0.02	0.02
1796		2FAF2A	1,976.36	6.00	100.00	-0.02	0.13	0.06	0.03
1797		2FB08C	257.43	12.00	120.00	0.22	0.44	0.02	0.09
1798		2FB201	1,097.73	6.00	100.00	-0.02	0.15	0.05	0.04

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1799		2FB232	339.04	6.00	100.00	0.01	0.10	0.01	0.02
1800		2FB233	1,057.94	6.00	100.00	0.05	0.37	0.22	0.21
1801		2FB2E3	156.89	6.00	100.00	0.15	1.15	0.27	1.75
1802		2FB2E8	236.69	6.00	100.00	0.08	0.65	0.14	0.60
1803		2FB301	392.61	6.00	100.00	0.05	0.42	0.10	0.27
1804		2FB328	1,024.33	6.00	100.00	-0.02	0.14	0.04	0.04
1805		2FB33C	1,190.78	6.00	100.00	0.02	0.14	0.04	0.03
1806		2FB362	458.57	6.00	100.00	0.06	0.45	0.14	0.31
1807		2FB36B	758.41	6.00	100.00	-0.02	0.17	0.04	0.05
1808		2FB4C6	336.75	8.00	110.00	0.07	0.32	0.03	0.10
1809		2FB4E6	1,669.61	6.00	100.00	-0.01	0.10	0.03	0.02
1810		2FB543	559.08	6.00	100.00	0.13	1.05	0.81	1.46
1811		2FB564	821.75	6.00	100.00	0.09	0.69	0.55	0.67
1812		2FB580	532.12	6.00	100.00	0.05	0.40	0.13	0.24
1813		2FB586	257.42	8.00	110.00	-0.00	0.01	0.000	0.000
1814		2FB58F	270.10	6.00	100.00	-0.07	0.59	0.14	0.51
1815		2FB59E	246.39	8.00	110.00	0.01	0.04	0.000	0.00
1816		2FB798	244.81	8.00	110.00	0.01	0.03	0.000	0.00
1817		2FD29	656.33	6.00	100.00	-0.02	0.15	0.03	0.04
1818		2FD2F	132.18	6.00	100.00	0.03	0.23	0.01	0.09
1819		2FD92	1,274.50	6.00	100.00	0.10	0.80	1.14	0.89
1820		2FDAE	1,273.89	10.00	115.00	0.24	0.68	0.36	0.28
1821		2FDB7	21.11	10.00	115.00	0.09	0.24	0.000	0.05
1822		2FDC0	1,273.57	6.00	100.00	0.03	0.22	0.11	0.08
1823		2FDC6	1,273.29	6.00	100.00	0.01	0.05	0.01	0.00
1824		2FDCF	21.00	6.00	100.00	0.04	0.35	0.00	0.19
1825		2FDD2	222.00	8.00	110.00	-0.21	0.93	0.16	0.70
1826		2FDE2	195.26	8.00	110.00	-0.03	0.14	0.00	0.02
1827		2FE88	719.46	16.00	125.00	-0.95	1.05	0.22	0.31
1828		2FF10	20.92	12.00	120.00	-0.08	0.15	0.000	0.01
1829		2FF1D	191.13	12.00	120.00	-0.16	0.32	0.01	0.05

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1830	2FF20	12.79	12.00	100.00	0.00	0.00	0.00	0.00
1831	2FF30	1,137.75	8.00	110.00	-0.14	0.64	0.40	0.35
1832	2FFB21	281.32	8.00	110.00	-0.29	1.30	0.37	1.31
1833	2FFB26	187.50	8.00	110.00	-0.26	1.15	0.19	1.04
1834	2FFB53	184.92	8.00	110.00	-0.01	0.05	0.000	0.00
1835	2FFB5F	182.41	8.00	110.00	-0.01	0.05	0.000	0.00
1836	2FFB63	106.67	8.00	110.00	0.23	1.04	0.09	0.86
1837	2FFB6C	214.70	8.00	110.00	-0.13	0.56	0.06	0.27
1838	2FFB6F	1,855.73	8.00	110.00	0.09	0.40	0.27	0.15
1839	2FFB83	427.43	8.00	110.00	-0.10	0.44	0.07	0.17
1840	2FFB8D	313.86	8.00	110.00	0.20	0.91	0.21	0.67
1841	2FFF4	2,659.32	16.00	125.00	-1.00	1.11	0.91	0.34
1842	30065	488.82	12.00	120.00	-1.71	3.36	1.97	4.03
1843	3007	5,054.72	16.00	120.00	1.62	1.80	4.56	0.90
1844	30085	266.02	6.00	100.00	0.02	0.18	0.02	0.06
1845	30088	10.33	6.00	100.00	0.04	0.28	0.00	0.13
1846	3008B	450.91	6.00	100.00	0.08	0.60	0.23	0.52
1847	3009	1,372.60	12.00	120.00	0.55	1.09	0.69	0.50
1848	30091	151.00	6.00	100.00	-0.01	0.08	0.00	0.01
1849	301	849.10	12.00	120.00	-0.33	0.65	0.16	0.19
1850	3011	3,142.70	30.00	120.00	-1.81	0.57	0.16	0.05
1851	30140	865.64	16.00	125.00	1.24	1.37	0.44	0.51
1852	30199	128.85	6.00	100.00	-0.11	0.84	0.12	0.97
1853	301A5	360.88	16.00	125.00	-1.96	2.17	0.43	1.19
1854	301AB	114.73	16.00	125.00	-2.06	2.28	0.15	1.30
1855	301BB	253.75	12.00	120.00	0.41	0.80	0.07	0.28
1856	301D8	16.99	16.00	125.00	-2.05	2.27	0.02	1.29
1857	302045	127.89	8.00	110.00	-0.10	0.43	0.02	0.17
1858	302070	168.00	6.00	100.00	0.00	0.04	0.000	0.00
1859	30207C	516.00	8.00	110.00	-0.12	0.54	0.13	0.26
1860	302083	657.71	8.00	110.00	0.22	0.99	0.52	0.79

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1861	3021	1,592.02	24.00	120.00	2.59	1.28	0.48	0.30
1862	3023	1,345.11	16.00	120.00	-0.26	0.29	0.04	0.03
1863	3024A	1,512.12	6.00	100.00	-0.10	0.75	1.20	0.79
1864	3025	982.91	12.00	120.00	0.56	1.11	0.51	0.52
1865	3027	4,315.37	12.00	120.00	0.20	0.40	0.34	0.08
1866	3029	1,766.11	12.00	120.00	-0.66	1.30	1.22	0.69
1867	303	2,392.05	24.00	120.00	-3.42	1.69	1.19	0.50
1868	3032D	69.99	6.00	100.00	-0.09	0.72	0.05	0.73
1869	303A4	1,185.51	6.00	100.00	-0.07	0.53	0.50	0.42
1870	30419	244.46	6.00	100.00	-0.19	1.48	0.67	2.76
1871	305	2,640.62	16.00	125.00	0.86	0.96	0.69	0.26
1872	306C0	443.19	4.00	90.00	0.01	0.09	0.01	0.03
1873	307	3,259.88	12.00	120.00	-0.04	0.07	0.01	0.00
1874	30707	397.90	10.00	115.00	-0.43	1.22	0.33	0.82
1875	30739	273.19	8.00	110.00	-0.22	0.99	0.22	0.79
1876	3073F	565.42	8.00	110.00	0.40	1.78	1.32	2.34
1877	3077C	3,940.82	8.00	110.00	0.08	0.37	0.49	0.12
1878	307E4	149.85	6.00	100.00	0.05	0.39	0.04	0.24
1879	30805	242.72	6.00	100.00	-0.13	0.99	0.32	1.33
1880	3080B	110.00	6.00	100.00	0.08	0.60	0.06	0.52
1881	3080E	577.99	6.00	100.00	-0.06	0.48	0.20	0.35
1882	30811	110.00	8.00	110.00	0.13	0.59	0.03	0.30
1883	30823	749.62	8.00	110.00	-0.02	0.10	0.01	0.01
1884	30826	20.52	6.00	100.00	-0.11	0.88	0.02	1.06
1885	30844	265.70	8.00	110.00	-0.06	0.26	0.02	0.06
1886	30847	20.24	8.00	110.00	0.10	0.44	0.00	0.17
1887	3084D	109.01	6.00	100.00	-0.10	0.78	0.09	0.84
1888	30859	454.26	6.00	100.00	0.01	0.04	0.00	0.00
1889	309	2,645.36	16.00	120.00	-1.00	1.11	0.98	0.37
1890	3098F	13.28	6.00	100.00	-0.15	1.21	0.03	1.89
1891	309C6	268.02	6.00	100.00	-0.06	0.46	0.09	0.32

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1892	30A03	520.83	8.00	110.00	-0.08	0.34	0.06	0.11
1893	30A18	898.20	8.00	110.00	-0.11	0.48	0.18	0.20
1894	30A63	308.16	8.00	110.00	-0.09	0.38	0.04	0.13
1895	30A86	269.00	8.00	110.00	-0.06	0.28	0.02	0.08
1896	30AF0	329.06	12.00	120.00	0.15	0.30	0.02	0.05
1897	30AF3	1,160.74	12.00	120.00	0.11	0.22	0.03	0.03
1898	30B55	362.41	6.00	100.00	-0.07	0.53	0.15	0.41
1899	30B58	154.87	6.00	100.00	-0.15	1.20	0.29	1.87
1900	311	2,645.36	12.00	120.00	0.21	0.41	0.22	0.08
1901	313	1,652.84	12.00	120.00	-0.51	1.01	0.72	0.44
1902	315	2,528.23	16.00	125.00	0.11	0.12	0.01	0.01
1903	317	2,645.36	16.00	130.00	-0.91	1.01	0.71	0.27
1904	31789E	882.24	8.00	110.00	-0.06	0.26	0.06	0.07
1905	3178BB	636.97	8.00	110.00	0.05	0.22	0.03	0.05
1906	319	2,146.75	12.00	120.00	-0.36	0.71	0.49	0.23
1907	321	1,627.55	16.00	120.00	0.79	0.88	0.39	0.24
1908	3225F	270.61	8.00	110.00	-0.03	0.14	0.01	0.02
1909	322C5	105.93	8.00	110.00	0.05	0.22	0.01	0.05
1910	322D9	1,225.25	16.00	125.00	1.24	1.38	0.63	0.51
1911	323	1,350.90	16.00	140.00	-0.81	0.89	0.25	0.19
1912	32324	1,743.63	24.00	130.00	-4.02	1.98	1.01	0.58
1913	32332	217.67	6.00	100.00	-0.02	0.15	0.01	0.04
1914	3233F	96.36	6.00	100.00	0.01	0.08	0.00	0.01
1915	3234F	979.53	6.00	100.00	0.02	0.14	0.03	0.03
1916	32365	195.50	8.00	110.00	0.16	0.72	0.09	0.44
1917	32380	162.90	6.00	100.00	-0.01	0.10	0.00	0.02
1918	32391	6.96	10.00	115.00	0.10	0.28	0.000	0.05
1919	323BE	29.29	24.00	130.00	-4.58	2.26	0.02	0.74
1920	325	1,965.52	24.00	130.00	-2.16	1.06	0.36	0.18
1921	327	1,602.44	12.00	120.00	-0.16	0.32	0.08	0.05
1922	328B2D	846.46	12.00	120.00	-0.89	1.76	1.03	1.21

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1923		329	1,879.06	12.00	120.00	-0.37	0.72	0.44	0.23
1924		32EF79	99.24	12.00	120.00	0.16	0.32	0.01	0.05
1925		331	2,517.02	12.00	120.00	-0.26	0.51	0.31	0.12
1926		333	2,600.78	12.00	120.00	-0.17	0.34	0.15	0.06
1927		335	670.35	16.00	130.00	-2.64	2.93	1.29	1.92
1928		33CC4E	363.89	8.00	110.00	0.04	0.17	0.01	0.03
1929		33EE21	287.77	8.00	110.00	-0.11	0.49	0.06	0.21
1930		343	3,956.68	24.00	130.00	4.43	2.18	2.75	0.69
1931		349CC1	116.67	24.00	130.00	-2.66	1.31	0.03	0.27
1932		353	2,889.27	24.00	125.00	-4.22	2.08	1.97	0.68
1933		354831	612.95	6.00	100.00	0.23	1.80	2.45	4.00
1934		354843	680.34	6.00	100.00	0.16	1.30	1.48	2.17
1935		354888	487.37	6.00	100.00	0.09	0.72	0.35	0.72
1936		35488E	106.22	6.00	100.00	0.01	0.09	0.00	0.01
1937		354897	504.85	6.00	100.00	-0.17	1.35	1.18	2.33
1938		3548B2	431.50	8.00	110.00	-0.09	0.38	0.06	0.13
1939		3548C8	146.41	6.00	100.00	-0.03	0.25	0.02	0.11
1940		355B5B	40.26	16.00	125.00	0.47	0.52	0.00	0.08
1941		355BA5	230.45	12.00	120.00	0.34	0.67	0.05	0.20
1942		355BA9	1,917.04	12.00	120.00	0.30	0.59	0.31	0.16
1943		355BAF	1,337.46	12.00	120.00	0.22	0.44	0.12	0.09
1944		355BDD	29.59	16.00	125.00	0.65	0.72	0.00	0.15
1945		355C25	488.36	10.00	115.00	-0.16	0.44	0.06	0.13
1946		355C2A	179.90	12.00	120.00	0.39	0.76	0.05	0.26
1947		355C4C	401.36	12.00	120.00	0.33	0.65	0.08	0.19
1948		355C52	1,742.80	16.00	125.00	0.63	0.70	0.25	0.14
1949		355CF5	98.12	8.00	110.00	0.02	0.11	0.00	0.01
1950		355D34	536.64	10.00	115.00	0.13	0.37	0.05	0.09
1951		355D37	89.86	10.00	115.00	0.07	0.19	0.00	0.03
1952		355D3D	205.00	10.00	115.00	0.05	0.15	0.00	0.02
1953		355D4F	108.00	6.00	100.00	-0.02	0.18	0.01	0.06

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1954		355D88	491.47	10.00	115.00	-0.01	0.04	0.000	0.00
1955		355DA3	493.43	8.00	110.00	-0.01	0.05	0.00	0.00
1956		355DE7	580.02	10.00	115.00	-0.06	0.17	0.01	0.02
1957		355E0A	90.42	16.00	125.00	0.65	0.72	0.01	0.15
1958		35ACD	261.14	8.00	110.00	-0.14	0.63	0.09	0.34
1959		35B3D	269.20	8.00	110.00	-0.16	0.70	0.11	0.41
1960		35D1D5	157.56	8.00	110.00	0.33	1.48	0.26	1.66
1961		35D1DB	345.30	8.00	110.00	0.17	0.75	0.16	0.47
1962		35D25B	289.54	8.00	110.00	-0.13	0.56	0.08	0.27
1963		35D25E	187.05	8.00	110.00	-0.09	0.40	0.03	0.15
1964		35D274	277.03	8.00	110.00	0.08	0.36	0.03	0.12
1965		35E89	953.94	6.00	100.00	0.05	0.39	0.23	0.24
1966		35F26	566.62	6.00	100.00	0.03	0.25	0.06	0.10
1967		35FF8	465.81	8.00	110.00	0.12	0.55	0.12	0.27
1968		36080	532.48	6.00	100.00	-0.03	0.23	0.05	0.08
1969		36095	337.34	8.00	110.00	0.10	0.42	0.06	0.16
1970		36098	301.10	8.00	110.00	0.09	0.40	0.05	0.15
1971		360C2B	1,052.15	6.00	100.00	-0.02	0.14	0.04	0.04
1972		360C46	400.87	8.00	110.00	0.01	0.05	0.00	0.00
1973		360C57	274.00	8.00	110.00	-0.04	0.20	0.01	0.04
1974		360C5F	265.44	8.00	110.00	-0.11	0.50	0.06	0.22
1975		360C61	256.36	6.00	100.00	0.03	0.20	0.02	0.07
1976		360C63	211.68	8.00	110.00	0.06	0.27	0.02	0.07
1977		360C86	104.85	6.00	100.00	0.00	0.02	0.00	0.00
1978		360CCC	410.78	6.00	100.00	-0.03	0.26	0.05	0.11
1979		360CCE	472.70	6.00	100.00	0.01	0.11	0.01	0.02
1980		360D17	215.55	8.00	110.00	-0.17	0.76	0.10	0.48
1981		360D1A	873.95	6.00	100.00	-0.03	0.23	0.08	0.09
1982		360D24	216.54	8.00	110.00	-0.13	0.59	0.07	0.31
1983		360D5F	972.36	6.00	100.00	0.04	0.31	0.15	0.15
1984		360DA4	880.25	8.00	110.00	0.10	0.43	0.15	0.17

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
1985	360DCD	198.06	8.00	110.00	-0.15	0.67	0.08	0.39
1986	361	5,280.82	16.00	125.00	-0.94	1.04	1.60	0.30
1987	361FD	661.77	6.00	100.00	-0.03	0.22	0.05	0.08
1988	362E0	269.52	6.00	100.00	-0.05	0.36	0.05	0.20
1989	36497	931.05	6.00	100.00	0.01	0.11	0.02	0.02
1990	364A66	1,311.39	8.00	110.00	0.22	0.98	1.02	0.78
1991	364F9	270.01	6.00	100.00	-0.03	0.27	0.03	0.12
1992	365	5,261.82	12.00	120.00	-0.43	0.85	1.67	0.32
1993	366FB	310.00	6.00	100.00	0.04	0.35	0.06	0.19
1994	36879	269.00	6.00	100.00	0.000	0.00	0.00	0.00
1995	368E7	690.64	6.00	100.00	-0.09	0.71	0.49	0.71
1996	369	1,654.17	16.00	125.00	1.43	1.58	1.09	0.66
1997	36919	600.49	6.00	100.00	0.09	0.74	0.46	0.76
1998	36956	749.00	6.00	100.00	0.02	0.17	0.04	0.05
1999	36959	439.00	6.00	100.00	-0.02	0.14	0.02	0.03
2000	36990	480.00	6.00	100.00	0.03	0.22	0.04	0.08
2001	369DD1	797.60	12.00	120.00	-0.45	0.89	0.28	0.34
2002	369DD2	747.27	12.00	120.00	-0.72	1.42	0.61	0.81
2003	369DF6	191.63	8.00	110.00	-0.01	0.03	0.000	0.00
2004	369E12	541.86	8.00	110.00	-0.15	0.65	0.20	0.36
2005	369E2C	273.72	12.00	120.00	-1.24	2.45	0.61	2.24
2006	369E2D	630.58	12.00	120.00	-0.98	1.93	0.91	1.44
2007	369E5E	875.62	12.00	120.00	-1.11	2.19	1.59	1.82
2008	369E7C	54.16	20.00	130.00	-1.30	0.93	0.01	0.18
2009	369EB3	802.93	20.00	130.00	1.32	0.93	0.14	0.18
2010	36A111	316.27	8.00	110.00	0.18	0.78	0.16	0.51
2011	36A122	288.75	8.00	110.00	0.08	0.37	0.04	0.13
2012	36A12E	206.18	8.00	110.00	0.27	1.19	0.23	1.11
2013	36A13A	273.45	6.00	100.00	-0.06	0.49	0.10	0.36
2014	36A149	282.15	8.00	110.00	0.01	0.06	0.00	0.00
2015	36A169	169.95	6.00	100.00	-0.04	0.34	0.03	0.18

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2016	36A196	267.30	8.00	110.00	0.01	0.05	0.000	0.00
2017	36A1BA	293.94	8.00	110.00	0.02	0.11	0.00	0.01
2018	36A1BE	302.73	8.00	110.00	0.14	0.63	0.10	0.34
2019	36A1EC	297.68	8.00	110.00	-0.12	0.52	0.07	0.24
2020	36A1F4	374.73	8.00	110.00	0.01	0.06	0.00	0.00
2021	36AD9	269.20	6.00	100.00	-0.02	0.13	0.01	0.03
2022	36AFA	785.99	6.00	100.00	0.07	0.55	0.34	0.44
2023	36BCF	586.88	6.00	100.00	0.02	0.15	0.02	0.04
2024	36FDE	199.48	8.00	110.00	-0.00	0.01	0.00	0.00
2025	37	389.78	6.00	100.00	0.10	0.78	0.33	0.85
2026	371	905.03	16.00	125.00	1.17	1.30	0.41	0.46
2027	37142	181.69	6.00	100.00	0.06	0.47	0.06	0.34
2028	371E0E	663.44	8.00	110.00	-0.04	0.20	0.03	0.04
2029	371E11	262.31	8.00	110.00	0.02	0.07	0.00	0.01
2030	371E16	705.13	6.00	100.00	-0.02	0.15	0.03	0.04
2031	371E35	361.19	8.00	110.00	-0.01	0.04	0.000	0.00
2032	371E62	1,332.92	8.00	110.00	0.03	0.14	0.03	0.02
2033	371E9F	718.51	8.00	110.00	0.10	0.42	0.12	0.16
2034	37439	318.69	6.00	100.00	-0.12	0.97	0.41	1.28
2035	375	1,525.35	16.00	125.00	0.13	0.15	0.01	0.01
2036	37543	107.61	6.00	100.00	-0.02	0.13	0.00	0.03
2037	37546	355.29	6.00	100.00	0.08	0.62	0.20	0.56
2038	3755B	1,234.28	6.00	100.00	-0.06	0.50	0.46	0.37
2039	376BE	844.24	6.00	100.00	-0.07	0.55	0.38	0.45
2040	377	1,580.22	16.00	125.00	-0.34	0.37	0.07	0.05
2041	377333	2,179.81	12.00	120.00	-0.26	0.51	0.27	0.12
2042	377349	553.93	12.00	120.00	-0.41	0.80	0.16	0.28
2043	37776	56.59	12.00	120.00	-0.15	0.30	0.00	0.05
2044	3778B	343.59	12.00	120.00	-0.29	0.57	0.05	0.15
2045	377B2E	300.00	8.00	110.00	-0.01	0.03	0.000	0.00
2046	377B31	908.99	6.00	100.00	0.18	1.38	2.23	2.45

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2047		377B47	224.88	6.00	100.00	0.16	1.27	0.47	2.07
2048		377B8	340.81	12.00	120.00	0.18	0.35	0.02	0.06
2049		379	450.92	12.00	120.00	0.40	0.78	0.12	0.27
2050		3795B6	450.19	8.00	110.00	-0.01	0.03	0.000	0.00
2051		3795C3	409.35	6.00	100.00	-0.09	0.74	0.32	0.77
2052		3795DC	36.47	6.00	100.00	-0.09	0.68	0.02	0.65
2053		3795FE	1,069.08	8.00	110.00	-0.04	0.16	0.03	0.03
2054		379601	545.17	6.00	100.00	-0.07	0.55	0.24	0.44
2055		37962B	611.33	8.00	110.00	-0.01	0.02	0.000	0.000
2056		379663	399.24	8.00	110.00	0.01	0.06	0.00	0.00
2057		3796A8	709.38	6.00	100.00	-0.02	0.15	0.03	0.04
2058		37A7C	183.04	6.00	100.00	0.03	0.24	0.02	0.09
2059		37AED	230.80	6.00	100.00	0.08	0.66	0.14	0.62
2060		37AF3	372.02	6.00	100.00	0.06	0.44	0.11	0.29
2061		37C45	521.34	6.00	100.00	0.03	0.23	0.04	0.09
2062		37CAB	574.83	6.00	100.00	-0.04	0.30	0.08	0.14
2063		37D54	197.41	6.00	100.00	-0.12	0.95	0.24	1.23
2064		37D60	157.11	6.00	100.00	-0.13	1.00	0.21	1.34
2065		37D63	151.76	6.00	100.00	-0.09	0.69	0.10	0.67
2066		37D6C	219.26	6.00	100.00	-0.08	0.63	0.12	0.56
2067		37D99	503.02	6.00	100.00	-0.07	0.58	0.24	0.49
2068		37D9C	594.81	6.00	100.00	-0.03	0.21	0.04	0.07
2069		37DAF	303.56	6.00	100.00	0.02	0.16	0.01	0.05
2070		37DB6	616.91	12.00	120.00	0.34	0.68	0.13	0.21
2071		37DC1	30.27	12.00	120.00	0.21	0.42	0.00	0.08
2072		37E17	730.65	12.00	120.00	-0.51	1.00	0.31	0.43
2073		37E6E	966.75	6.00	100.00	-0.04	0.29	0.13	0.13
2074		37F2B	286.54	6.00	100.00	-0.13	1.02	0.40	1.40
2075		37F7C	190.03	6.00	100.00	-0.12	0.97	0.24	1.27
2076		37F8A	379.15	6.00	100.00	0.01	0.11	0.01	0.02
2077		37FC27	1,178.97	8.00	110.00	0.03	0.13	0.02	0.02

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2078		37FC65	746.42	8.00	110.00	-0.03	0.14	0.01	0.02
2079		380D0	313.59	6.00	100.00	-0.10	0.82	0.29	0.93
2080		381	1,294.82	8.00	110.00	0.22	0.98	1.01	0.78
2081		38143	187.50	6.00	100.00	-0.15	1.17	0.34	1.80
2082		381C47	362.73	6.00	100.00	0.11	0.86	0.37	1.02
2083		381CE7	963.42	6.00	100.00	0.04	0.31	0.15	0.16
2084		381D07	106.71	6.00	100.00	0.04	0.28	0.01	0.13
2085		3822D	731.43	6.00	100.00	-0.02	0.16	0.03	0.04
2086		38259D	579.94	6.00	100.00	0.00	0.01	0.000	0.000
2087		3825B9	430.33	6.00	100.00	-0.01	0.07	0.00	0.01
2088		3825BA	149.18	6.00	100.00	-0.01	0.08	0.00	0.01
2089		3825CA	413.36	6.00	100.00	0.01	0.04	0.00	0.00
2090		3825D1	167.23	8.00	110.00	-0.02	0.09	0.00	0.01
2091		3825F5	615.14	6.00	100.00	-0.01	0.10	0.01	0.02
2092		3825FC	413.46	6.00	100.00	-0.01	0.08	0.01	0.01
2093		3825FD	119.49	8.00	110.00	0.11	0.47	0.02	0.20
2094		382612	430.14	6.00	100.00	-0.02	0.14	0.01	0.03
2095		382613	201.22	8.00	110.00	-0.04	0.19	0.01	0.04
2096		382626	450.82	8.00	110.00	-0.08	0.37	0.06	0.13
2097		382632	179.93	8.00	110.00	0.13	0.57	0.05	0.29
2098		38263E	125.65	8.00	110.00	-0.12	0.52	0.03	0.24
2099		38263F	28.87	8.00	110.00	-0.01	0.06	0.000	0.00
2100		38264E	148.78	8.00	110.00	-0.04	0.19	0.01	0.04
2101		383	1,381.88	16.00	125.00	-0.54	0.60	0.15	0.11
2102		3837E	143.91	6.00	100.00	-0.01	0.07	0.00	0.01
2103		383DD	174.30	8.00	110.00	-0.02	0.11	0.00	0.01
2104		385	1,259.00	16.00	120.00	0.39	0.43	0.08	0.07
2105		38514	183.17	6.00	100.00	0.01	0.05	0.00	0.01
2106		38561	145.77	8.00	110.00	0.02	0.07	0.000	0.01
2107		3858E	281.30	6.00	100.00	-0.01	0.08	0.00	0.01
2108		38591	261.04	6.00	100.00	0.04	0.32	0.04	0.17

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2109		3859A	289.29	6.00	100.00	-0.01	0.09	0.00	0.02
2110		385A6	298.21	6.00	100.00	0.02	0.19	0.02	0.06
2111		385AC	714.03	6.00	100.00	0.07	0.56	0.33	0.46
2112		3860D	1,081.00	6.00	100.00	-0.06	0.49	0.38	0.35
2113		386FE	620.60	6.00	100.00	-0.08	0.65	0.38	0.61
2114		387C27	625.95	16.00	125.00	1.68	1.87	0.56	0.90
2115		387C4B	376.96	12.00	120.00	1.39	2.74	1.04	2.75
2116		389E4	295.95	8.00	110.00	0.02	0.09	0.00	0.01
2117		38AD61	556.07	8.00	110.00	-0.29	1.28	0.71	1.27
2118		38AE3	296.35	12.00	120.00	1.27	2.50	0.69	2.32
2119		38AE6	305.78	12.00	120.00	1.17	2.31	0.62	2.01
2120		38AEC	935.72	12.00	120.00	1.09	2.16	1.65	1.77
2121		38AF8	634.08	12.00	120.00	0.82	1.62	0.66	1.04
2122		38AFD	200.20	6.00	100.00	-0.06	0.48	0.07	0.35
2123		38B77	357.54	12.00	120.00	1.30	2.57	0.87	2.44
2124		38C25	102.50	6.00	100.00	-0.02	0.19	0.01	0.06
2125		38C33	247.41	12.00	120.00	0.10	0.19	0.01	0.02
2126		38C39	993.48	12.00	120.00	-1.92	3.79	4.99	5.02
2127		38C4BF	385.80	6.00	100.00	-0.03	0.23	0.04	0.09
2128		38C4D1	300.90	6.00	100.00	-0.04	0.32	0.05	0.16
2129		38C523	220.01	6.00	100.00	-0.05	0.38	0.05	0.22
2130		38C535	159.83	6.00	100.00	0.00	0.03	0.000	0.00
2131		38C58F	207.17	6.00	100.00	0.01	0.05	0.00	0.01
2132		38C593	503.95	6.00	100.00	-0.01	0.11	0.01	0.02
2133		38C5BF	635.25	6.00	100.00	0.01	0.08	0.01	0.01
2134		38C601	280.00	6.00	100.00	-0.01	0.11	0.01	0.02
2135		38C682	136.50	6.00	100.00	-0.02	0.14	0.00	0.03
2136		38C684	135.31	6.00	100.00	-0.02	0.18	0.01	0.05
2137		38C685	278.57	6.00	100.00	-0.04	0.30	0.04	0.14
2138		38C688	157.71	6.00	100.00	0.01	0.05	0.000	0.01
2139		38C6B	102.50	8.00	110.00	-0.01	0.02	0.00	0.00

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2140		38CB3	102.50	8.00	110.00	-0.01	0.04	0.000	0.00
2141		38CB9	220.66	12.00	120.00	0.07	0.15	0.00	0.01
2142		38D09	554.46	12.00	120.00	-0.45	0.88	0.19	0.34
2143		38D0F	384.37	12.00	120.00	-0.42	0.82	0.11	0.30
2144		38D18	119.36	6.00	100.00	0.02	0.14	0.00	0.04
2145		38D1B	255.24	8.00	110.00	0.13	0.57	0.07	0.28
2146		38D34	173.73	8.00	110.00	-0.14	0.60	0.05	0.31
2147		38D37	220.30	8.00	110.00	0.05	0.20	0.01	0.04
2148		38D3D	277.43	8.00	110.00	0.01	0.04	0.000	0.00
2149		38E3FA	1,960.12	6.00	100.00	0.00	0.02	0.00	0.000
2150		38E4F7	641.76	6.00	100.00	-0.00	0.03	0.00	0.00
2151		39	29.02	6.00	100.00	-0.000000	0.0000	0.00	0.00
2152		3907BE	182.06	6.00	100.00	0.000	0.00	0.00	0.00
2153		390C10	202.01	8.00	110.00	0.10	0.42	0.03	0.16
2154		390C63	241.35	8.00	110.00	0.05	0.22	0.01	0.05
2155		390C69	263.83	8.00	110.00	0.04	0.18	0.01	0.03
2156		390C7A	382.34	8.00	110.00	0.03	0.14	0.01	0.02
2157		390CA7	206.07	8.00	110.00	0.01	0.05	0.000	0.00
2158		390CBF	277.75	8.00	110.00	0.03	0.12	0.00	0.01
2159		390EB	681.10	8.00	110.00	-0.10	0.46	0.13	0.19
2160		391	3,996.65	16.00	125.00	0.55	0.61	0.45	0.11
2161		391E08	177.75	6.00	100.00	0.11	0.89	0.19	1.09
2162		393	5,386.02	16.00	125.00	-1.18	1.31	2.49	0.46
2163		395	255.88	30.00	130.00	3.01	0.95	0.03	0.11
2164		39518	448.03	8.00	110.00	-0.04	0.20	0.02	0.04
2165		39552	204.09	8.00	110.00	-0.12	0.54	0.05	0.25
2166		39555	270.46	8.00	110.00	-0.04	0.16	0.01	0.03
2167		395A6	275.36	8.00	110.00	0.10	0.44	0.05	0.18
2168		39600	676.33	8.00	110.00	0.08	0.35	0.08	0.11
2169		39759	526.07	8.00	110.00	-0.04	0.19	0.02	0.04
2170		398BC	550.71	8.00	110.00	-0.12	0.55	0.15	0.26

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2171		39946	306.40	8.00	110.00	-0.09	0.39	0.04	0.14
2172		39A0F	571.39	8.00	110.00	-0.01	0.07	0.00	0.01
2173		39A1A	388.44	10.00	110.00	0.01	0.03	0.000	0.000
2174		39A1D	331.46	8.00	110.00	0.22	0.95	0.24	0.74
2175		39A20	567.89	8.00	110.00	0.14	0.62	0.19	0.33
2176		39BFB	132.01	16.00	125.00	1.99	2.21	0.16	1.22
2177		39BFD	132.03	8.00	110.00	-0.03	0.13	0.00	0.02
2178		39C03	591.20	8.00	110.00	0.02	0.10	0.01	0.01
2179		39C0D	379.84	8.00	110.00	0.01	0.04	0.000	0.00
2180		39C16	476.52	8.00	110.00	0.01	0.03	0.000	0.00
2181		39C26	182.00	8.00	110.00	0.03	0.13	0.00	0.02
2182		39C2A	285.72	8.00	110.00	0.05	0.23	0.01	0.05
2183		3A17A	182.03	8.00	110.00	0.12	0.54	0.05	0.26
2184		3A18F	377.80	8.00	110.00	0.01	0.04	0.000	0.00
2185		3A19E	309.65	8.00	110.00	-0.01	0.04	0.000	0.00
2186		3A1A4	340.66	8.00	110.00	0.03	0.15	0.01	0.03
2187		3A1BF	124.58	8.00	110.00	-0.04	0.19	0.00	0.04
2188		3A1C3	146.22	6.00	100.00	-0.02	0.20	0.01	0.07
2189		3A277	590.87	6.00	100.00	0.13	1.03	0.84	1.43
2190		3A385	377.88	8.00	110.00	-0.11	0.49	0.08	0.21
2191		3A42A	238.33	6.00	100.00	-0.03	0.27	0.03	0.12
2192		3A430	171.28	6.00	100.00	-0.25	1.96	0.80	4.67
2193		3A433	227.11	6.00	100.00	0.10	0.76	0.18	0.80
2194		3A5B84	598.34	8.00	110.00	-0.01	0.06	0.00	0.00
2195		3A5BA2	204.14	8.00	110.00	0.16	0.71	0.09	0.43
2196		3A682	243.72	6.00	100.00	-0.03	0.24	0.02	0.09
2197		3A75E	365.55	8.00	110.00	0.000	0.000	0.00	0.00
2198		3A761	449.51	8.00	110.00	-0.14	0.64	0.16	0.35
2199		3A7AE	1,138.72	6.00	100.00	0.09	0.74	0.88	0.77
2200		3A85F	260.30	6.00	100.00	0.05	0.38	0.06	0.22
2201		3A9C9	290.17	8.00	110.00	-0.29	1.30	0.38	1.32

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2202	3A9D2	444.32	8.00	110.00	0.08	0.37	0.06	0.13
2203	3A9E1	390.83	8.00	110.00	0.11	0.47	0.08	0.20
2204	3A9F0	912.63	6.00	100.00	0.03	0.22	0.07	0.08
2205	3A9F9	22.41	8.00	110.00	-0.01	0.03	0.00	0.00
2206	3AA08	1,030.26	6.00	100.00	-0.03	0.21	0.08	0.08
2207	3AA0B	313.73	8.00	110.00	0.19	0.83	0.18	0.57
2208	3AA11	706.67	8.00	110.00	-0.15	0.68	0.28	0.39
2209	3AA17	698.27	8.00	110.00	-0.11	0.50	0.15	0.22
2210	3AA38	287.84	8.00	110.00	-0.01	0.06	0.00	0.00
2211	3AA3E	94.11	8.00	110.00	-0.02	0.10	0.00	0.01
2212	3AA4D	508.23	8.00	110.00	-0.21	0.94	0.37	0.72
2213	3AA56	224.79	6.00	100.00	-0.04	0.33	0.04	0.17
2214	3AAE5	9.41	6.00	100.00	0.02	0.19	0.000	0.06
2215	3ABCD	493.73	8.00	110.00	-0.02	0.10	0.01	0.01
2216	3AD5E	131.55	6.00	100.00	-0.02	0.12	0.00	0.03
2217	3ADA4	370.28	8.00	110.00	-0.02	0.08	0.00	0.01
2218	3AE2C	526.86	8.00	110.00	-0.02	0.09	0.01	0.01
2219	3AE80	381.65	8.00	110.00	0.03	0.13	0.01	0.02
2220	3AEAC	268.02	6.00	100.00	-0.01	0.11	0.01	0.02
2221	3AEC5	38.30	6.00	100.00	-0.01	0.06	0.000	0.01
2222	3AEC8	369.71	8.00	110.00	0.14	0.64	0.13	0.35
2223	3B005	136.14	6.00	100.00	0.01	0.10	0.00	0.02
2224	3B041	152.54	8.00	110.00	0.17	0.74	0.07	0.46
2225	3B0B7	213.52	6.00	100.00	-0.01	0.11	0.00	0.02
2226	3B0D7	567.05	8.00	110.00	-0.05	0.21	0.02	0.04
2227	3B0EC	387.57	8.00	110.00	0.07	0.31	0.03	0.09
2228	3B101	357.42	8.00	110.00	-0.08	0.37	0.05	0.13
2229	3B122	1,042.85	8.00	110.00	-0.03	0.14	0.02	0.02
2230	3B29D	239.11	8.00	110.00	-0.13	0.58	0.07	0.30
2231	3B2C3	240.63	6.00	100.00	0.02	0.15	0.01	0.04
2232	3B2C6	394.43	8.00	110.00	0.10	0.45	0.07	0.18

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2233		3B2FF	1,127.16	8.00	110.00	0.00	0.00	0.00	0.00
2234		3B3BE	241.05	6.00	100.00	-0.02	0.16	0.01	0.05
2235		3B432	800.33	6.00	100.00	-0.00	0.03	0.00	0.00
2236		3B435	181.64	6.00	100.00	0.02	0.14	0.01	0.04
2237		3B438	245.52	8.00	110.00	0.08	0.37	0.03	0.13
2238		3B43E	104.87	8.00	110.00	0.07	0.32	0.01	0.10
2239		3B441	100.08	6.00	100.00	0.07	0.55	0.05	0.45
2240		3B462	348.00	6.00	100.00	-0.09	0.69	0.24	0.68
2241		3B46E	833.08	8.00	110.00	-0.13	0.57	0.24	0.28
2242		3B712	144.00	8.00	110.00	-0.24	1.08	0.13	0.93
2243		3B7BE	163.55	6.00	100.00	-0.07	0.53	0.07	0.41
2244		3B811	585.18	8.00	110.00	0.17	0.74	0.27	0.46
2245		3B81A	108.64	8.00	110.00	-0.26	1.16	0.12	1.06
2246		3B81D	742.93	8.00	110.00	-0.47	2.08	2.32	3.12
2247		3B820	599.15	6.00	100.00	0.08	0.66	0.37	0.62
2248		3B82F	154.00	8.00	110.00	0.04	0.16	0.00	0.03
2249		3B853	678.90	6.00	100.00	0.06	0.46	0.22	0.32
2250		3B85F	1,126.11	8.00	110.00	0.35	1.53	1.99	1.77
2251		3BD8A	533.22	6.00	100.00	0.05	0.36	0.11	0.20
2252		3BE7F	108.91	16.00	125.00	3.44	3.81	0.37	3.37
2253		3BE88	137.86	16.00	125.00	-2.19	2.43	0.20	1.46
2254		3BE8C	272.23	16.00	125.00	-1.06	1.18	0.10	0.38
2255		3BE9B	1,535.11	16.00	125.00	0.00	0.00	0.00	0.00
2256		3BEA7	1,791.43	16.00	125.00	0.00	0.00	0.00	0.00
2257		3BEB3	691.31	16.00	125.00	-0.00000	0.00000	0.00	0.00
2258		3BEB9	818.41	16.00	125.00	-0.00000	0.00000	0.00	0.00
2259		3BEC5	201.49	16.00	125.00	-1.60	1.77	0.16	0.81
2260		3BF25	141.00	8.00	110.00	0.04	0.18	0.00	0.03
2261		3BF40	141.00	8.00	110.00	0.05	0.24	0.01	0.06
2262		3BF52	192.31	12.00	120.00	-0.94	1.86	0.26	1.35
2263		3BF68	141.31	8.00	110.00	0.09	0.42	0.02	0.16

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2264	3C00A	6,888.21	12.00	120.00	0.45	0.89	2.37	0.34
2265	3C0AD	238.98	12.00	120.00	0.000000	0.000000	0.00	0.00
2266	3C1C3	946.05	12.00	120.00	-1.42	2.80	2.72	2.87
2267	3C1C6	53.50	12.00	120.00	2.00	3.94	0.29	5.41
2268	3C1D8	25.09	12.00	120.00	-0.95	1.88	0.03	1.37
2269	3C265	93.35	8.00	110.00	-0.04	0.18	0.00	0.03
2270	3C32A	444.28	8.00	110.00	-0.05	0.22	0.02	0.05
2271	3C339	100.01	8.00	110.00	0.01	0.06	0.000	0.00
2272	3C348	118.01	8.00	110.00	0.02	0.11	0.00	0.01
2273	3C378	29.97	8.00	110.00	0.61	2.72	0.15	5.14
2274	3C39E	105.00	8.00	110.00	0.05	0.23	0.01	0.05
2275	3C3E8	102.00	8.00	110.00	0.02	0.09	0.000	0.01
2276	3C42C	1,288.84	12.00	125.00	0.54	1.06	0.57	0.44
2277	3C435	421.91	12.00	120.00	0.74	1.46	0.36	0.86
2278	3C438	15.44	12.00	120.00	0.54	1.06	0.01	0.47
2279	3C4AD	1,283.00	12.00	120.00	0.54	1.06	0.61	0.47
2280	3C510	1,030.95	16.00	125.00	-2.75	3.05	2.29	2.22
2281	3C5BA	180.32	8.00	110.00	-0.05	0.20	0.01	0.04
2282	3C5C3	210.93	8.00	110.00	0.28	1.22	0.25	1.17
2283	3C5D8	1,056.42	8.00	110.00	0.12	0.54	0.27	0.26
2284	3C5E7	896.14	8.00	110.00	-0.03	0.12	0.01	0.02
2285	3C5FE	293.93	8.00	110.00	0.16	0.72	0.13	0.43
2286	3C601	210.33	8.00	110.00	0.01	0.06	0.000	0.00
2287	3C9BB	147.77	16.00	125.00	4.07	4.52	0.68	4.61
2288	3C9BE	790.86	16.00	125.00	-2.76	3.06	1.77	2.24
2289	3C9C1	499.17	16.00	125.00	-1.93	2.14	0.58	1.15
2290	3C9C7	658.53	16.00	125.00	-1.12	1.24	0.28	0.42
2291	3C9CD	119.30	16.00	125.00	-0.99	1.09	0.04	0.33
2292	3C9D3	1,005.58	16.00	125.00	-0.92	1.01	0.29	0.29
2293	3C9D6	553.04	16.00	125.00	-2.01	2.23	0.69	1.25
2294	3C9D9	599.78	16.00	125.00	-1.88	2.08	0.66	1.10

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2295	3C9EE	170.26	12.00	120.00	0.44	0.87	0.06	0.33
2296	3C9F4	702.18	12.00	120.00	0.42	0.83	0.21	0.30
2297	3C9F7	900.87	12.00	120.00	0.41	0.81	0.26	0.29
2298	3C9FD	606.02	12.00	120.00	0.19	0.37	0.04	0.07
2299	3CA12	1,735.47	16.00	125.00	-0.63	0.70	0.25	0.15
2300	3CA18	139.90	12.00	120.00	0.93	1.83	0.18	1.30
2301	3CA1B	327.58	12.00	120.00	0.73	1.44	0.27	0.83
2302	3CA1E	135.79	12.00	120.00	-0.11	0.22	0.00	0.03
2303	3CA21	497.46	8.00	110.00	-0.78	3.47	4.01	8.06
2304	3CA27	1,445.70	8.00	110.00	-0.60	2.66	7.10	4.91
2305	3CA2D	47.78	8.00	110.00	-0.54	2.38	0.19	4.00
2306	3CA40	737.36	12.00	120.00	0.97	1.91	1.04	1.41
2307	3CA4F	637.34	12.00	120.00	-0.75	1.47	0.56	0.87
2308	3CA55	880.20	12.00	120.00	-0.77	1.51	0.81	0.92
2309	3CA58	801.75	12.00	120.00	-0.47	0.92	0.29	0.37
2310	3CA61	1,127.27	12.00	120.00	0.01	0.02	0.000	0.000
2311	3CAE9	2,977.59	16.00	125.00	-1.54	1.70	2.25	0.76
2312	3CAEF	744.62	16.00	125.00	2.80	3.10	1.71	2.29
2313	3CC05	382.26	20.00	130.00	-0.61	0.43	0.02	0.04
2314	3CC0B	544.53	20.00	130.00	-0.59	0.42	0.02	0.04
2315	3CC50	1,004.69	8.00	110.00	0.02	0.10	0.01	0.01
2316	3CC65	444.83	8.00	110.00	-0.09	0.39	0.06	0.14
2317	3CC8E	324.44	8.00	110.00	0.05	0.20	0.01	0.04
2318	3CCEE	290.00	8.00	110.00	-0.24	1.05	0.26	0.89
2319	3CD0C	323.88	8.00	110.00	-0.07	0.29	0.03	0.08
2320	3CD1E	166.63	8.00	110.00	-0.57	2.52	0.74	4.45
2321	3CD21	220.71	6.00	100.00	-0.03	0.25	0.02	0.11
2322	3CD36	765.39	8.00	110.00	-0.21	0.93	0.54	0.70
2323	3CD42	303.06	8.00	110.00	-0.15	0.68	0.12	0.39
2324	3CD45	262.32	6.00	100.00	0.14	1.11	0.43	1.62
2325	3CD51	177.35	8.00	110.00	0.00	0.02	0.000	0.000

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2326		3CD54	87.20	6.00	100.00	-0.09	0.68	0.06	0.65
2327		3CD5D	419.03	8.00	110.00	-0.11	0.50	0.09	0.23
2328		3D586	965.72	6.00	100.00	-0.09	0.70	0.67	0.70
2329		3D73F	183.67	8.00	110.00	-0.39	1.75	0.42	2.26
2330		3DDDC	150.50	8.00	110.00	0.33	1.47	0.25	1.64
2331		3DDE8	255.85	8.00	110.00	0.33	1.48	0.43	1.67
2332		3DDEB	242.98	8.00	110.00	-0.24	1.05	0.21	0.88
2333		3DDF7	121.77	6.00	100.00	-0.02	0.16	0.01	0.04
2334		3DE06	282.78	6.00	100.00	-0.00	0.01	0.000	0.000
2335		3DE15	178.95	6.00	100.00	-0.01	0.07	0.00	0.01
2336		3DE1B	351.70	6.00	100.00	-0.02	0.15	0.01	0.04
2337		3DE33	239.55	6.00	100.00	-0.01	0.11	0.01	0.02
2338		3DE36	604.38	6.00	100.00	-0.04	0.35	0.12	0.19
2339		3DE3C	135.98	6.00	100.00	-0.01	0.09	0.00	0.02
2340		3E424	272.06	6.00	100.00	0.13	1.04	0.39	1.44
2341		3E42A	388.98	6.00	100.00	0.16	1.26	0.80	2.05
2342		3E43C	946.13	6.00	100.00	-0.12	0.97	1.19	1.26
2343		3E43F	133.00	6.00	100.00	-0.02	0.14	0.00	0.04
2344		3E788	150.01	6.00	100.00	0.29	2.31	0.95	6.32
2345		3E7E2	432.18	6.00	100.00	-0.24	1.90	1.90	4.40
2346		3E857	182.39	6.00	100.00	0.01	0.11	0.00	0.02
2347		3E859	205.34	8.00	110.00	-0.18	0.80	0.11	0.53
2348		3E85F	219.93	8.00	110.00	0.01	0.04	0.000	0.00
2349		3E868	279.98	8.00	110.00	-0.04	0.19	0.01	0.04
2350		3E86B	118.56	6.00	100.00	-0.04	0.29	0.02	0.14
2351		3E86E	109.06	6.00	100.00	-0.02	0.15	0.00	0.04
2352		3E874	138.00	6.00	100.00	0.03	0.24	0.01	0.09
2353		3E880	125.00	6.00	100.00	0.01	0.05	0.000	0.00
2354		3E88C	279.52	8.00	110.00	-0.03	0.12	0.00	0.02
2355		3E88F	393.23	6.00	100.00	-0.08	0.64	0.23	0.59
2356		3E895	260.83	6.00	100.00	-0.11	0.85	0.26	1.00

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2357	3E8A7	341.70	6.00	100.00	-0.15	1.17	0.61	1.79
2358	3E8CB	146.00	6.00	100.00	0.01	0.04	0.000	0.00
2359	3E8CE	295.31	8.00	110.00	-0.28	1.26	0.36	1.23
2360	3E8D7	308.57	6.00	100.00	-0.05	0.39	0.07	0.23
2361	3E8DA	110.86	8.00	110.00	-0.28	1.22	0.13	1.16
2362	3EB23	159.21	6.00	100.00	-0.04	0.30	0.02	0.14
2363	3EBCE	308.22	6.00	100.00	-0.16	1.30	0.67	2.18
2364	3ED45	200.25	8.00	110.00	-0.000	0.00	0.00	0.00
2365	3ED48	198.50	8.00	110.00	-0.21	0.91	0.13	0.67
2366	3ED8D	297.12	8.00	110.00	0.03	0.13	0.01	0.02
2367	3ED9C	1,200.07	8.00	110.00	-0.01	0.05	0.00	0.00
2368	3EDA5	410.01	8.00	110.00	-0.01	0.06	0.00	0.00
2369	3EDAB	470.29	8.00	110.00	0.03	0.13	0.01	0.02
2370	3EDBD	341.41	8.00	110.00	-0.03	0.15	0.01	0.02
2371	3F25F	1,032.82	8.00	110.00	0.08	0.38	0.14	0.13
2372	3F265	510.05	8.00	110.00	-0.07	0.33	0.05	0.10
2373	3F279	206.05	8.00	110.00	0.04	0.17	0.01	0.03
2374	3F297	181.30	8.00	110.00	-0.01	0.05	0.000	0.00
2375	3F29D	143.18	8.00	110.00	-0.02	0.08	0.000	0.01
2376	3F2AC	156.44	8.00	110.00	-0.01	0.03	0.000	0.00
2377	3F57D	398.22	8.00	110.00	-0.30	1.33	0.54	1.36
2378	3F589	278.13	8.00	110.00	-0.01	0.06	0.00	0.00
2379	3F58F	264.67	8.00	110.00	-0.02	0.09	0.00	0.01
2380	3F59B	278.95	8.00	110.00	-0.27	1.18	0.31	1.10
2381	3F685	348.65	8.00	110.00	-0.22	0.96	0.26	0.74
2382	3F6CF	309.15	8.00	110.00	-0.01	0.05	0.000	0.00
2383	3F6D2	311.23	8.00	110.00	-0.24	1.07	0.29	0.92
2384	3F6E4	286.02	8.00	110.00	0.04	0.18	0.01	0.03
2385	3F6EA	125.98	6.00	100.00	-0.01	0.07	0.00	0.01
2386	3F86F	157.06	6.00	100.00	-0.01	0.07	0.00	0.01
2387	3F9FC	274.34	6.00	100.00	-0.06	0.49	0.10	0.36

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2388		3FA1D	199.94	8.00	110.00	-0.03	0.11	0.00	0.01
2389		3FA57	257.62	6.00	100.00	0.06	0.48	0.09	0.35
2390		3FA60	838.59	6.00	100.00	0.02	0.12	0.02	0.03
2391		3FA86	536.92	6.00	100.00	-0.13	0.99	0.70	1.31
2392		3FB5A	202.64	6.00	100.00	0.02	0.17	0.01	0.05
2393		3FB93	445.21	6.00	100.00	-0.04	0.31	0.07	0.15
2394		3FC05	275.00	6.00	100.00	0.16	1.23	0.54	1.97
2395		3FC1D	181.10	8.00	110.00	-0.37	1.66	0.37	2.05
2396		3FC30	1,149.79	6.00	100.00	0.07	0.57	0.54	0.47
2397		40396	237.00	8.00	110.00	0.01	0.04	0.000	0.00
2398		403D3	145.00	4.00	90.00	0.01	0.09	0.00	0.03
2399		4048D	238.29	8.00	110.00	-0.06	0.25	0.01	0.06
2400		40492	169.75	8.00	110.00	0.08	0.35	0.02	0.12
2401		404B0	192.15	8.00	110.00	-0.22	0.96	0.14	0.74
2402		404BF	344.18	8.00	110.00	-0.02	0.09	0.00	0.01
2403		404C2	256.50	6.00	100.00	0.01	0.08	0.00	0.01
2404		404C5	145.69	6.00	100.00	-0.01	0.06	0.000	0.01
2405		404E0	303.04	6.00	100.00	0.03	0.26	0.03	0.11
2406		404F5	249.86	6.00	100.00	-0.07	0.59	0.13	0.51
2407		40507	291.73	6.00	100.00	-0.05	0.43	0.08	0.28
2408		40510	921.78	6.00	100.00	0.05	0.39	0.22	0.24
2409		40522	1,117.58	6.00	100.00	-0.11	0.90	1.22	1.10
2410		40528	156.02	8.00	110.00	0.07	0.33	0.02	0.10
2411		4052E	1,175.36	8.00	110.00	0.09	0.38	0.16	0.13
2412		4054F	625.15	6.00	100.00	0.01	0.09	0.01	0.02
2413		4055B	262.83	8.00	110.00	0.00	0.01	0.000	0.000
2414		40A04	196.57	6.00	100.00	-0.01	0.09	0.00	0.02
2415		40B3A	206.85	8.00	110.00	0.07	0.31	0.02	0.09
2416		40B56	300.18	8.00	110.00	0.11	0.48	0.06	0.21
2417		40B5C	596.19	8.00	110.00	0.20	0.91	0.40	0.67
2418		40FAA	900.73	8.00	110.00	-0.17	0.73	0.41	0.45

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2419		40FCF	194.89	6.00	100.00	0.01	0.09	0.00	0.02
2420		40FD5	323.60	8.00	110.00	-0.07	0.30	0.03	0.09
2421		40FD8	122.46	6.00	100.00	-0.04	0.33	0.02	0.17
2422		40FED	291.03	8.00	110.00	0.10	0.42	0.05	0.16
2423		40FF3	107.99	6.00	100.00	0.02	0.17	0.01	0.05
2424		40FF6	345.40	8.00	110.00	-0.10	0.44	0.06	0.18
2425		40FF9	159.12	6.00	100.00	-0.07	0.55	0.07	0.45
2426		41	734.01	6.00	100.00	-0.12	0.91	0.83	1.13
2427		41005	97.08	6.00	100.00	-0.08	0.66	0.06	0.61
2428		4102D	1,577.52	6.00	100.00	-0.04	0.30	0.23	0.15
2429		41039	236.80	8.00	110.00	-0.18	0.78	0.12	0.51
2430		41042	136.61	8.00	110.00	0.02	0.07	0.000	0.01
2431		4106F	419.31	8.00	110.00	-0.02	0.07	0.00	0.01
2432		411	2,594.98	16.00	130.00	-0.42	0.47	0.17	0.06
2433		413	5,277.70	16.00	130.00	0.34	0.38	0.23	0.04
2434		4162E	124.78	8.00	110.00	-0.05	0.21	0.01	0.05
2435		41648	209.61	8.00	110.00	-0.16	0.70	0.09	0.42
2436		41683	261.38	6.00	100.00	-0.09	0.72	0.19	0.73
2437		417	5,358.47	36.00	140.00	0.36	0.08	0.00	0.000
2438		4172D	322.54	6.00	100.00	-0.02	0.13	0.01	0.03
2439		41739	121.48	8.00	110.00	0.26	1.14	0.12	1.03
2440		4197C	102.21	6.00	100.00	-0.01	0.10	0.00	0.02
2441		4198E	881.62	6.00	100.00	-0.04	0.30	0.13	0.14
2442		419A0	251.40	6.00	100.00	0.01	0.04	0.000	0.00
2443		419B0	118.43	8.00	110.00	-0.25	1.09	0.11	0.94
2444		419B3	169.42	8.00	110.00	0.22	1.00	0.14	0.80
2445		419C5	261.48	6.00	100.00	-0.08	0.60	0.14	0.53
2446		419D4	464.76	6.00	100.00	-0.08	0.66	0.29	0.61
2447		41AC7	199.97	8.00	110.00	-0.22	0.98	0.16	0.78
2448		41AD6	30.27	20.00	130.00	-2.51	1.78	0.02	0.59
2449		41B17	575.05	8.00	110.00	0.29	1.29	0.74	1.29

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2450		41B3C	434.23	24.00	130.00	-3.05	1.50	0.15	0.35
2451		41B59	531.35	24.00	130.00	-3.34	1.64	0.22	0.41
2452		41BAB	188.91	24.00	130.00	-3.55	1.75	0.09	0.46
2453		41BF2	426.99	24.00	130.00	2.00	0.98	0.07	0.16
2454		41C72	351.70	24.00	130.00	-2.19	1.08	0.07	0.19
2455		41D4A	673.28	24.00	130.00	1.76	0.87	0.08	0.13
2456		41D5C	564.49	24.00	130.00	-1.65	0.81	0.06	0.11
2457		41D95	62.69	12.00	120.00	-0.03	0.06	0.000	0.00
2458		41EA3	378.00	20.00	130.00	-0.60	0.42	0.02	0.04
2459		41F98	638.21	24.00	130.00	-1.51	0.74	0.06	0.09
2460		41FA2	789.08	24.00	130.00	1.46	0.72	0.07	0.09
2461		41FAB	926.41	20.00	130.00	-2.74	1.94	0.64	0.69
2462		41FD8	199.36	8.00	110.00	0.19	0.83	0.11	0.57
2463		41FEA	2,078.75	16.00	125.00	1.40	1.55	1.32	0.64
2464		42013	102.00	16.00	125.00	1.58	1.75	0.08	0.80
2465		42095	1,559.06	16.00	125.00	2.80	3.11	3.59	2.31
2466		420A3	696.60	16.00	125.00	2.80	3.10	1.60	2.30
2467		42703	437.59	12.00	120.00	-0.98	1.93	0.63	1.43
2468		42706	231.20	24.00	130.00	7.83	3.86	0.46	1.99
2469		42727	543.30	24.00	130.00	5.66	2.79	0.59	1.09
2470		42988	884.96	24.00	130.00	6.06	2.99	1.10	1.24
2471		4299A	550.70	24.00	130.00	6.16	3.04	0.70	1.28
2472		429A3	640.07	24.00	130.00	-1.01	0.50	0.03	0.05
2473		429AF	1,949.82	24.00	130.00	-0.77	0.38	0.05	0.03
2474		42A16	426.88	12.00	120.00	-0.23	0.46	0.04	0.10
2475		42A1C	175.02	8.00	110.00	-0.18	0.81	0.10	0.55
2476		42A22	702.80	12.00	120.00	-0.42	0.82	0.21	0.30
2477		42A2E	676.07	12.00	120.00	0.53	1.04	0.31	0.46
2478		42A34	59.00	8.00	110.00	-0.22	0.95	0.04	0.74
2479		42A37	750.82	16.00	125.00	-0.09	0.10	0.00	0.00
2480		42A3D	278.44	12.00	120.00	0.79	1.56	0.27	0.97

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2481	42A40	439.26	16.00	125.00	0.90	0.99	0.12	0.28
2482	42A4C	372.08	16.00	125.00	-0.13	0.15	0.00	0.01
2483	42A60	517.79	8.00	110.00	-0.10	0.45	0.10	0.19
2484	42A67	807.58	16.00	125.00	-1.01	1.12	0.28	0.35
2485	42A7C	170.41	16.00	125.00	-1.44	1.59	0.11	0.67
2486	42A7F	59.00	8.00	110.00	-0.14	0.60	0.02	0.31
2487	42A82	538.38	16.00	125.00	-1.62	1.80	0.45	0.84
2488	431	1,195.91	24.00	130.00	5.94	2.93	1.43	1.20
2489	437	1,898.46	16.00	125.00	1.56	1.73	1.48	0.78
2490	447	37.58	24.00	130.00	-0.000000	0.000000	0.00	0.00
2491	44740	241.00	6.00	100.00	-0.03	0.24	0.02	0.09
2492	44743	241.00	6.00	100.00	-0.06	0.50	0.09	0.37
2493	44746	117.52	6.00	100.00	-0.10	0.81	0.11	0.90
2494	44749	526.40	6.00	100.00	-0.01	0.11	0.01	0.02
2495	4475B	160.00	6.00	100.00	0.10	0.80	0.14	0.88
2496	44764	478.34	6.00	100.00	0.04	0.30	0.07	0.14
2497	4476A	136.19	6.00	100.00	0.08	0.63	0.08	0.56
2498	4476D	821.64	6.00	100.00	-0.02	0.13	0.03	0.03
2499	44770	615.92	6.00	100.00	0.05	0.42	0.17	0.27
2500	44785	175.00	6.00	100.00	0.05	0.37	0.04	0.21
2501	44788	185.00	6.00	100.00	-0.00	0.02	0.000	0.00
2502	4478B	160.00	8.00	110.00	0.29	1.26	0.20	1.24
2503	4479D	287.71	8.00	110.00	-0.02	0.07	0.00	0.01
2504	447A3	241.00	6.00	100.00	-0.05	0.39	0.06	0.24
2505	447B2	732.82	6.00	100.00	-0.05	0.39	0.17	0.23
2506	447B8	695.42	6.00	100.00	0.03	0.21	0.05	0.08
2507	447FA	830.57	6.00	100.00	0.05	0.36	0.17	0.20
2508	44806	1,048.53	6.00	100.00	-0.06	0.50	0.39	0.37
2509	4480F	608.32	6.00	100.00	0.05	0.38	0.13	0.22
2510	4481B	280.00	6.00	100.00	-0.10	0.76	0.23	0.81
2511	4481E	135.60	6.00	100.00	-0.13	1.05	0.20	1.48

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2512		4482D	95.00	6.00	100.00	0.10	0.76	0.08	0.80
2513		4483C	164.76	6.00	100.00	0.18	1.39	0.41	2.48
2514		4483F	240.67	6.00	100.00	0.13	1.00	0.32	1.34
2515		44845	113.00	8.00	110.00	0.10	0.44	0.02	0.18
2516		44851	405.10	8.00	110.00	-0.12	0.52	0.10	0.24
2517		4485A	298.30	8.00	110.00	0.11	0.50	0.07	0.22
2518		4486F	270.00	6.00	100.00	0.07	0.54	0.11	0.42
2519		44881	679.66	6.00	100.00	-0.04	0.31	0.11	0.16
2520		44893	275.00	6.00	100.00	0.04	0.33	0.05	0.17
2521		44896	121.00	6.00	100.00	-0.21	1.68	0.42	3.49
2522		44899	609.91	6.00	100.00	-0.10	0.79	0.53	0.88
2523		4489F	592.70	6.00	100.00	-0.13	1.01	0.80	1.35
2524		448BD	453.06	8.00	110.00	-0.02	0.09	0.00	0.01
2525		448C9	2,642.96	6.00	100.00	0.02	0.15	0.11	0.04
2526		448DE	1,533.25	6.00	100.00	-0.10	0.79	1.34	0.87
2527		449	283.68	24.00	130.00	7.06	3.48	0.47	1.65
2528		4496A	260.13	6.00	100.00	-0.08	0.66	0.16	0.62
2529		4499D	240.00	8.00	110.00	0.25	1.09	0.23	0.95
2530		449D3	1,139.92	6.00	100.00	-0.00	0.02	0.00	0.00
2531		44A09	797.09	6.00	100.00	0.02	0.12	0.02	0.03
2532		44A63	682.79	6.00	100.00	-0.05	0.36	0.14	0.20
2533		44B29	719.82	6.00	100.00	-0.06	0.48	0.25	0.35
2534		44B3B	708.90	6.00	100.00	-0.08	0.61	0.38	0.54
2535		44B4D	459.21	6.00	100.00	-0.05	0.36	0.10	0.21
2536		44B5F	565.50	6.00	100.00	0.05	0.42	0.15	0.27
2537		44B95	403.71	6.00	100.00	-0.00	0.04	0.00	0.00
2538		44BB9	152.89	6.00	100.00	0.09	0.74	0.12	0.76
2539		44C5E	733.58	8.00	110.00	-0.08	0.36	0.09	0.12
2540		45053	408.23	8.00	110.00	-0.20	0.90	0.27	0.66
2541		451	795.58	24.00	130.00	7.20	3.54	1.36	1.71
2542		453	2,749.22	24.00	130.00	5.20	2.56	2.57	0.93

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2543	455	89.58	16.00	125.00	0.26	0.29	0.00	0.03
2544	457	5,261.82	16.00	125.00	0.96	1.07	1.67	0.32
2545	461	931.61	12.00	120.00	-1.76	3.47	3.97	4.26
2546	463	165.08	12.00	120.00	-2.07	4.07	0.95	5.73
2547	465	287.69	6.00	100.00	-0.12	0.96	0.36	1.25
2548	467	3.86	6.00	100.00	-0.05	0.36	0.000	0.19
2549	469	454.52	6.00	100.00	-0.09	0.73	0.34	0.75
2550	471	366.66	8.00	110.00	-0.12	0.55	0.10	0.26
2551	473	340.74	6.00	100.00	0.01	0.06	0.00	0.01
2552	475	76.20	6.00	100.00	0.02	0.20	0.01	0.07
2553	482B5	176.00	8.00	110.00	0.16	0.71	0.07	0.42
2554	482D2	135.41	6.00	100.00	-0.09	0.70	0.09	0.70
2555	48315	490.00	6.00	100.00	0.04	0.30	0.07	0.15
2556	48318	134.59	6.00	100.00	0.07	0.52	0.05	0.41
2557	4837D	490.00	6.00	100.00	0.04	0.28	0.06	0.12
2558	484E1	269.83	6.00	100.00	-0.03	0.26	0.03	0.11
2559	48647	641.57	6.00	100.00	-0.05	0.41	0.17	0.26
2560	48687	223.00	6.00	100.00	-0.19	1.51	0.64	2.86
2561	4868A	233.01	6.00	100.00	0.06	0.47	0.08	0.33
2562	48697	270.00	6.00	100.00	-0.14	1.10	0.43	1.59
2563	48915	300.00	6.00	100.00	-0.06	0.50	0.11	0.37
2564	4898E	270.00	6.00	100.00	-0.08	0.64	0.16	0.58
2565	4899A	1,806.75	6.00	100.00	0.07	0.53	0.74	0.41
2566	489CF	172.60	6.00	100.00	0.01	0.11	0.00	0.02
2567	489DB	379.81	6.00	100.00	-0.10	0.81	0.34	0.90
2568	489E1	177.10	6.00	100.00	-0.13	1.00	0.24	1.34
2569	48AA4	178.29	6.00	100.00	-0.02	0.13	0.01	0.03
2570	48DB8	255.00	8.00	110.00	0.45	2.01	0.74	2.92
2571	48E55	248.02	6.00	100.00	0.19	1.46	0.67	2.71
2572	48E83	138.23	6.00	100.00	0.08	0.64	0.08	0.58
2573	48F3C	255.50	6.00	100.00	0.05	0.36	0.05	0.20

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2574		49084	597.87	8.00	110.00	0.25	1.09	0.56	0.94
2575		4909C	568.34	6.00	100.00	-0.13	1.05	0.83	1.46
2576		490B6	691.24	8.00	110.00	-0.16	0.70	0.29	0.42
2577		49222	529.27	8.00	110.00	0.17	0.75	0.25	0.48
2578		4942E	248.09	8.00	110.00	0.08	0.34	0.03	0.11
2579		494E0	568.76	6.00	100.00	0.07	0.57	0.27	0.48
2580		495C5	283.23	6.00	100.00	0.21	1.62	0.93	3.29
2581		495CB	806.31	6.00	100.00	0.08	0.62	0.45	0.56
2582		4979C	735.83	6.00	100.00	0.08	0.66	0.45	0.62
2583		497A9	116.80	6.00	100.00	0.15	1.15	0.20	1.74
2584		497AC	58.01	8.00	110.00	0.14	0.63	0.02	0.34
2585		497B5	175.81	6.00	100.00	-0.05	0.42	0.05	0.27
2586		49832	260.70	6.00	100.00	0.07	0.57	0.12	0.48
2587		498E9	615.00	6.00	100.00	-0.01	0.06	0.00	0.01
2588		498EF	453.83	6.00	100.00	0.07	0.55	0.20	0.44
2589		499	61.11	8.00	110.00	-0.33	1.44	0.10	1.59
2590		49A3C	846.52	6.00	100.00	-0.02	0.13	0.03	0.03
2591		49ABE	112.74	8.00	110.00	0.14	0.63	0.04	0.34
2592		49AC1	240.26	8.00	110.00	0.19	0.84	0.14	0.58
2593		49AF6	711.50	6.00	100.00	0.03	0.21	0.05	0.08
2594		49B2C	145.00	8.00	110.00	0.08	0.37	0.02	0.13
2595		49B2F	240.00	8.00	110.00	0.07	0.31	0.02	0.09
2596		49CA2	509.96	8.00	110.00	0.01	0.05	0.00	0.00
2597		49CAB	185.59	8.00	110.00	-0.03	0.14	0.00	0.02
2598		49CB1	289.55	6.00	100.00	-0.09	0.68	0.19	0.66
2599		49CD2	154.01	8.00	110.00	-0.04	0.16	0.00	0.03
2600		49D72	759.07	6.00	100.00	0.06	0.45	0.23	0.30
2601		49EB8	291.61	6.00	100.00	-0.11	0.87	0.31	1.05
2602		49F79	592.10	6.00	100.00	0.06	0.49	0.21	0.36
2603		49F7C	417.15	6.00	100.00	-0.06	0.46	0.13	0.32
2604		49FF1	898.59	6.00	100.00	0.01	0.05	0.01	0.01

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2605		49FF4	144.70	6.00	100.00	-0.04	0.29	0.02	0.13
2606		4A030	165.00	8.00	110.00	-0.11	0.47	0.03	0.20
2607		4A082	602.58	6.00	100.00	0.03	0.25	0.06	0.10
2608		4A08E	519.19	6.00	100.00	0.04	0.28	0.07	0.13
2609		4A119	183.80	8.00	110.00	-0.05	0.22	0.01	0.05
2610		4A728	202.85	6.00	100.00	0.21	1.69	0.72	3.54
2611		4A772	322.17	6.00	100.00	0.01	0.07	0.00	0.01
2612		4A808	168.22	6.00	100.00	-0.02	0.15	0.01	0.04
2613		4A8DD	312.22	6.00	100.00	0.02	0.19	0.02	0.06
2614		4A9C0	121.96	6.00	100.00	-0.02	0.14	0.00	0.03
2615		4A9F6	487.39	6.00	100.00	0.25	1.95	2.26	4.64
2616		4AA16	937.22	6.00	100.00	0.05	0.37	0.20	0.21
2617		4AF6C	180.24	12.00	120.00	-0.82	1.62	0.19	1.04
2618		4AF72	404.28	12.00	120.00	-0.66	1.30	0.28	0.69
2619		4B04C	62.21	12.00	120.00	1.43	2.82	0.18	2.90
2620		4B04F	997.14	12.00	120.00	1.53	3.02	3.29	3.30
2621		4B052	37.85	8.00	110.00	-0.08	0.37	0.00	0.13
2622		4B06D	330.26	12.00	120.00	1.27	2.51	0.77	2.34
2623		4B08E	57.88	8.00	110.00	0.21	0.94	0.04	0.72
2624		4B0AA	995.85	12.00	120.00	-1.06	2.08	1.65	1.66
2625		4B1BB	287.39	8.00	110.00	-0.03	0.11	0.00	0.01
2626		4B282	1,064.14	24.00	130.00	-5.13	2.53	0.97	0.91
2627		4B290	589.99	24.00	130.00	-5.18	2.55	0.55	0.93
2628		4B296	338.20	24.00	130.00	-5.18	2.55	0.31	0.93
2629		4B72E	211.03	6.00	100.00	0.11	0.84	0.21	0.98
2630		4B747	604.22	4.00	90.00	-0.01	0.19	0.07	0.12
2631		4B74D	219.67	6.00	100.00	-0.11	0.86	0.22	1.02
2632		4B750	180.00	4.00	90.00	0.04	0.72	0.26	1.42
2633		4B753	397.99	6.00	100.00	0.02	0.14	0.01	0.04
2634		4B756	156.59	6.00	100.00	0.04	0.33	0.03	0.17
2635		4B769	26.00	4.00	90.00	0.02	0.41	0.01	0.50

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2636	4B77A	31.86	6.00	100.00	-0.07	0.57	0.02	0.47
2637	4B790	606.06	6.00	100.00	-0.07	0.54	0.26	0.43
2638	4B796	598.07	6.00	100.00	-0.05	0.40	0.15	0.25
2639	4B799	423.18	3.00	90.00	0.02	0.63	0.67	1.57
2640	4B7CE	308.00	6.00	100.00	-0.01	0.09	0.00	0.01
2641	4B7D1	103.82	6.00	100.00	0.09	0.71	0.07	0.70
2642	4B7FC	924.00	4.00	90.00	0.03	0.61	0.97	1.05
2643	4B80E	103.92	6.00	100.00	0.01	0.10	0.00	0.02
2644	4B811	101.71	4.00	90.00	-0.00	0.04	0.000	0.01
2645	4B814	159.10	6.00	100.00	-0.05	0.38	0.04	0.22
2646	4B83D	506.00	4.00	90.00	-0.06	1.00	1.31	2.60
2647	4B848	995.83	4.00	90.00	0.01	0.15	0.07	0.07
2648	4B864	311.30	6.00	100.00	0.11	0.88	0.33	1.06
2649	4B89E	116.00	4.00	90.00	-0.02	0.44	0.07	0.57
2650	4B916	382.99	4.00	90.00	0.02	0.30	0.11	0.28
2651	4B923	539.06	6.00	100.00	-0.12	0.91	0.61	1.13
2652	4B931	79.19	6.00	100.00	-0.12	0.91	0.09	1.13
2653	4B96E	636.57	6.00	100.00	-0.05	0.38	0.15	0.23
2654	4C062	767.32	6.00	100.00	-0.12	0.92	0.88	1.14
2655	4C07F	294.22	6.00	100.00	0.14	1.08	0.46	1.56
2656	4C082	656.00	6.00	100.00	0.08	0.63	0.37	0.56
2657	4C085	644.05	6.00	100.00	0.06	0.47	0.21	0.33
2658	4C08E	8.90	6.00	100.00	0.13	1.01	0.01	1.38
2659	4C0FD	1,294.25	6.00	100.00	0.03	0.22	0.11	0.08
2660	4C41D	1,292.17	6.00	100.00	0.01	0.06	0.01	0.01
2661	4C4E9	1,285.47	6.00	100.00	-0.05	0.36	0.26	0.21
2662	4C5A4	1,296.95	12.00	120.00	-0.38	0.75	0.33	0.25
2663	4D48B	544.94	12.00	120.00	0.02	0.03	0.000	0.000
2664	4D49B	276.80	6.00	100.00	0.11	0.88	0.29	1.06
2665	4D4AB	504.53	12.00	120.00	-0.10	0.20	0.01	0.02
2666	4D4F2	218.39	8.00	110.00	-0.21	0.94	0.16	0.71

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2667	4D51E	300.06	12.00	120.00	0.05	0.09	0.00	0.00
2668	4D54C	558.33	12.00	120.00	0.01	0.02	0.000	0.000
2669	4D55E	179.69	6.00	100.00	0.02	0.12	0.00	0.03
2670	4D588	425.11	12.00	120.00	-0.01	0.02	0.000	0.000
2671	4D5AA	227.12	12.00	120.00	-0.03	0.06	0.000	0.00
2672	4D5C0	53.00	12.00	120.00	0.02	0.05	0.000	0.00
2673	4D5DE	217.67	6.00	100.00	0.09	0.67	0.14	0.64
2674	4D61A	410.28	8.00	110.00	0.14	0.60	0.13	0.31
2675	4D63C	190.12	16.00	125.00	2.23	2.47	0.29	1.51
2676	4D65F	596.84	16.00	125.00	-1.97	2.19	0.72	1.20
2677	4D665	509.98	8.00	110.00	-0.11	0.51	0.12	0.23
2678	4D66B	823.10	8.00	110.00	0.15	0.65	0.30	0.37
2679	4D6BF	646.57	16.00	125.00	-1.49	1.65	0.46	0.72
2680	4D6D1	645.55	16.00	125.00	1.31	1.45	0.36	0.56
2681	4D6EE	188.21	8.00	110.00	-0.10	0.44	0.03	0.18
2682	4D700	249.36	16.00	125.00	1.40	1.55	0.16	0.64
2683	4D72E	494.54	12.00	120.00	-0.14	0.27	0.02	0.04
2684	4D747	174.05	8.00	110.00	-0.03	0.11	0.00	0.01
2685	4D788	337.64	8.00	110.00	0.31	1.38	0.49	1.46
2686	4D7AF	533.76	8.00	110.00	0.20	0.87	0.33	0.62
2687	4DF46	1,169.99	6.00	100.00	-0.02	0.12	0.03	0.03
2688	4DF7D	679.04	6.00	100.00	-0.02	0.16	0.03	0.04
2689	4DF9D	308.18	6.00	100.00	0.05	0.38	0.07	0.22
2690	4E016	331.97	8.00	110.00	0.02	0.11	0.00	0.01
2691	4E032	485.23	8.00	110.00	-0.03	0.13	0.01	0.02
2692	4E3E4	227.79	8.00	110.00	0.09	0.39	0.03	0.14
2693	4E421	217.00	6.00	100.00	0.09	0.69	0.15	0.68
2694	4E464	485.54	12.00	120.00	1.04	2.05	0.78	1.61
2695	4E873	120.16	10.00	115.00	-0.01	0.02	0.00	0.00
2696	4E985	229.27	24.00	130.00	10.61	5.23	0.80	3.50
2697	4E988	8.88	24.00	130.00	10.61	5.23	0.03	3.50

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2698		4EB00	77.42	24.00	120.00	7.47	3.68	0.16	2.12
2699		4EC3E	527.78	12.00	100.00	0.00	0.00	0.00	0.00
2700		50136	883.66	12.00	120.00	0.25	0.50	0.10	0.12
2701		5017E	573.82	8.00	110.00	-0.08	0.35	0.07	0.11
2702		501A3	1,213.60	12.00	120.00	0.28	0.54	0.17	0.14
2703		501B8	1,344.54	12.00	120.00	-0.06	0.11	0.01	0.01
2704		501D1	543.69	12.00	120.00	0.74	1.46	0.47	0.86
2705		5027B	1,200.34	12.00	120.00	-0.17	0.34	0.07	0.06
2706		50377	1,325.38	12.00	120.00	0.28	0.55	0.19	0.14
2707		5041D	453.95	12.00	120.00	-0.10	0.19	0.01	0.02
2708		504A0	760.76	12.00	120.00	-0.20	0.39	0.06	0.08
2709		504FE	172.28	8.00	110.00	-0.08	0.35	0.02	0.11
2710		50508	76.08	8.00	110.00	-0.09	0.39	0.01	0.14
2711		50513	1,067.92	12.00	120.00	-0.10	0.20	0.02	0.02
2712		5052E	917.51	12.00	120.00	-0.39	0.77	0.24	0.26
2713		5053A	1,392.54	12.00	120.00	0.26	0.52	0.18	0.13
2714		50540	290.51	12.00	120.00	-0.28	0.54	0.04	0.14
2715		50543	1,350.83	12.00	120.00	-0.24	0.46	0.14	0.10
2716		5055B	564.43	12.00	120.00	1.25	2.47	1.28	2.27
2717		507	779.59	12.00	120.00	0.38	0.75	0.19	0.25
2718		50717	299.90	8.00	110.00	0.17	0.75	0.14	0.48
2719		50729	1,108.18	12.00	120.00	-0.08	0.15	0.01	0.01
2720		5075C	473.80	12.00	120.00	0.06	0.13	0.00	0.01
2721		5076E	458.03	12.00	120.00	0.16	0.32	0.02	0.05
2722		50862	300.74	12.00	120.00	0.16	0.31	0.01	0.05
2723		50868	416.94	12.00	120.00	-0.32	0.63	0.08	0.18
2724		50921	47.79	6.00	100.00	-0.21	1.62	0.16	3.28
2725		50934	2,124.55	12.00	120.00	-0.08	0.17	0.03	0.02
2726		50B08	245.78	8.00	110.00	0.08	0.35	0.03	0.12
2727		50C33	546.30	4.00	90.00	0.00	0.00	0.00	0.00
2728		50CFA	561.81	16.00	125.00	3.68	4.08	2.14	3.82

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2729	50CFB	381.61	16.00	125.00	-3.62	4.01	1.41	3.70
2730	537	0.64	6.00	100.00	-0.08	0.67	0.000	0.57
2731	583	225.06	12.00	120.00	-0.16	0.32	0.01	0.05
2732	585	40.45	12.00	120.00	-0.06	0.12	0.000	0.01
2733	593	56.86	6.00	100.00	-0.01	0.07	0.000	0.01
2734	599	26.44	6.00	100.00	-0.15	1.17	0.05	1.78
2735	5AA4F	281.61	6.00	100.00	0.13	1.05	0.41	1.46
2736	5AAA5	914.34	6.00	100.00	0.03	0.26	0.10	0.11
2737	5D66D	773.35	8.00	110.00	-0.06	0.27	0.06	0.07
2738	5D6AB	173.76	8.00	110.00	0.03	0.12	0.00	0.01
2739	5D71F	203.47	8.00	110.00	0.10	0.45	0.04	0.18
2740	5D7C2	197.39	8.00	110.00	0.01	0.03	0.000	0.00
2741	5D803	196.39	8.00	110.00	0.01	0.02	0.000	0.000
2742	5D81A	356.82	8.00	110.00	0.01	0.04	0.000	0.00
2743	5D879	156.80	6.00	100.00	-0.01	0.07	0.00	0.01
2744	5D8CF	188.27	8.00	110.00	0.01	0.03	0.000	0.000
2745	5D8D1	43.13	10.00	115.00	0.07	0.20	0.00	0.03
2746	5D8D4	58.25	10.00	115.00	0.06	0.18	0.00	0.02
2747	5D974	224.32	6.00	100.00	-0.05	0.37	0.05	0.21
2748	5D977	230.16	8.00	110.00	-0.03	0.12	0.00	0.02
2749	5D978	37.19	8.00	110.00	-0.01	0.06	0.000	0.00
2750	5DB3E	141.98	8.00	110.00	-0.16	0.69	0.06	0.40
2751	5DB3F	262.01	8.00	110.00	-0.26	1.16	0.28	1.05
2752	5DB40	267.01	8.00	110.00	-0.39	1.72	0.58	2.19
2753	5DB41	21.00	8.00	110.00	-0.52	2.33	0.08	3.84
2754	5DB4F	426.87	16.00	125.00	2.96	3.28	1.09	2.55
2755	5E2F4	214.39	6.00	100.00	-0.14	1.08	0.33	1.55
2756	5E2FF	243.00	6.00	100.00	-0.01	0.11	0.01	0.02
2757	5E354	27.23	6.00	100.00	0.04	0.32	0.00	0.16
2758	5E355	246.00	6.00	100.00	0.02	0.18	0.01	0.06
2759	5E36D	14.70	6.00	100.00	0.03	0.25	0.00	0.10

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2760	5E39B	39.58	10.00	115.00	0.08	0.24	0.00	0.04
2761	5E488	85.01	8.00	110.00	0.04	0.16	0.00	0.03
2762	5E48B	33.00	8.00	110.00	-0.02	0.08	0.000	0.01
2763	5E991	696.15	6.00	100.00	0.05	0.41	0.18	0.26
2764	5E999	172.21	8.00	110.00	-0.13	0.56	0.05	0.27
2765	5EA5E	303.46	8.00	110.00	0.02	0.08	0.00	0.01
2766	5EB1C	270.02	6.00	100.00	0.01	0.04	0.00	0.00
2767	5EBA3	1,216.19	6.00	100.00	0.01	0.05	0.01	0.01
2768	5EC56	117.07	6.00	100.00	-0.02	0.18	0.01	0.06
2769	5F67B	189.72	8.00	110.00	0.22	0.98	0.15	0.77
2770	5F683	193.66	12.00	120.00	-0.45	0.88	0.07	0.34
2771	5F698	873.77	6.00	100.00	-0.04	0.33	0.15	0.17
2772	5F699	220.74	6.00	100.00	-0.11	0.86	0.22	1.02
2773	5F69B	168.52	6.00	100.00	-0.11	0.84	0.17	0.98
2774	5F69D	334.07	8.00	110.00	0.01	0.04	0.000	0.00
2775	5F6CC	500.98	6.00	100.00	0.06	0.44	0.15	0.30
2776	5F6EE	146.45	6.00	100.00	0.17	1.36	0.35	2.38
2777	5F752	532.51	6.00	100.00	0.09	0.73	0.40	0.75
2778	5F89C	281.31	6.00	100.00	0.09	0.69	0.19	0.67
2779	600E3	250.28	8.00	110.00	0.21	0.92	0.17	0.69
2780	600FB	109.24	8.00	110.00	0.02	0.08	0.000	0.01
2781	6010D	228.00	8.00	110.00	-0.00	0.01	0.00	0.00
2782	60118	154.61	8.00	110.00	0.01	0.06	0.000	0.00
2783	6011B	553.97	8.00	110.00	-0.00	0.01	0.00	0.00
2784	6011C	25.77	8.00	110.00	0.01	0.04	0.00	0.00
2785	6014C	138.27	8.00	110.00	0.08	0.36	0.02	0.12
2786	6014E	217.85	8.00	110.00	0.04	0.17	0.01	0.03
2787	60151	169.88	8.00	110.00	-0.01	0.03	0.000	0.00
2788	6019F	169.08	8.00	110.00	-0.04	0.16	0.00	0.03
2789	601D2	150.60	8.00	110.00	-0.04	0.19	0.01	0.04
2790	60C68	312.34	8.00	110.00	-0.03	0.12	0.01	0.02

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2791		60CD4	315.03	8.00	110.00	0.25	1.11	0.31	0.97
2792		60CD5	197.13	8.00	110.00	0.22	0.96	0.15	0.75
2793		60D58	701.79	8.00	110.00	-0.18	0.79	0.36	0.52
2794		60D7D	561.97	8.00	110.00	0.19	0.83	0.32	0.57
2795		60E32	276.23	8.00	110.00	-0.03	0.12	0.00	0.02
2796		60E68	183.46	8.00	110.00	-0.38	1.68	0.38	2.09
2797		61	16.68	6.00	100.00	-0.03	0.23	0.00	0.09
2798		61034	897.27	12.00	120.00	0.40	0.78	0.24	0.27
2799		61B2A	795.68	12.00	120.00	-0.47	0.92	0.29	0.36
2800		61B3C	491.28	12.00	120.00	0.58	1.14	0.27	0.54
2801		61B43	780.52	12.00	120.00	0.27	0.54	0.11	0.14
2802		61B49	735.67	12.00	120.00	-0.06	0.13	0.01	0.01
2803		62D65	1,335.86	16.00	125.00	1.78	1.98	1.33	1.00
2804		62D66	1,306.36	16.00	125.00	1.24	1.37	0.66	0.51
2805		63	36.60	24.00	130.00	10.61	5.23	0.13	3.50
2806		639	64.75	16.00	125.00	2.12	2.35	0.09	1.37
2807		641	473.90	16.00	125.00	2.03	2.25	0.60	1.27
2808		643	79.94	16.00	125.00	1.99	2.20	0.10	1.22
2809		645	232.92	16.00	125.00	1.94	2.15	0.27	1.17
2810		647	113.30	16.00	125.00	2.02	2.24	0.14	1.26
2811		6483E	1,600.21	8.00	110.00	-0.11	0.50	0.36	0.23
2812		649	467.15	16.00	125.00	2.08	2.30	0.62	1.32
2813		651	279.14	16.00	125.00	2.05	2.27	0.36	1.29
2814		653	283.17	16.00	125.00	1.54	1.71	0.22	0.76
2815		655	2,280.84	16.00	125.00	1.42	1.58	1.50	0.66
2816		657	95.03	16.00	125.00	0.18	0.20	0.00	0.02
2817		659	367.83	16.00	125.00	1.31	1.45	0.21	0.56
2818		661	234.07	16.00	125.00	1.15	1.27	0.10	0.44
2819		663	606.36	16.00	125.00	0.92	1.02	0.18	0.29
2820		664A6	1,091.36	8.00	110.00	0.26	1.14	1.12	1.03
2821		664B5	199.47	8.00	110.00	0.28	1.24	0.24	1.20

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2822		664B9	276.79	8.00	110.00	-0.07	0.30	0.02	0.08
2823		664BB	1,017.71	8.00	110.00	0.14	0.63	0.35	0.34
2824		664BE	463.18	12.00	120.00	0.74	1.45	0.39	0.85
2825		664BF	351.00	12.00	120.00	0.68	1.33	0.26	0.73
2826		664C2	70.50	12.00	120.00	-0.80	1.58	0.07	1.00
2827		664C4	239.37	12.00	120.00	0.52	1.02	0.11	0.44
2828		664C5	269.90	12.00	120.00	0.37	0.73	0.06	0.24
2829		664C6	555.80	12.00	120.00	0.21	0.41	0.04	0.08
2830		664D0	355.15	8.00	110.00	-0.23	1.00	0.29	0.80
2831		664D1	270.00	8.00	110.00	-0.27	1.18	0.29	1.09
2832		664F1	435.85	12.00	120.00	0.74	1.47	0.38	0.87
2833		665	1,175.66	16.00	125.00	-0.28	0.31	0.04	0.03
2834		66514	203.99	6.00	100.00	-0.06	0.45	0.06	0.30
2835		66530	439.00	12.00	120.00	0.48	0.95	0.17	0.39
2836		66531	991.82	12.00	120.00	0.33	0.64	0.19	0.19
2837		6654A	199.12	8.00	110.00	0.05	0.21	0.01	0.04
2838		66552	49.83	6.00	100.00	-0.13	1.00	0.07	1.35
2839		6655A	188.15	12.00	120.00	-0.68	1.34	0.14	0.74
2840		6656F	846.05	6.00	100.00	0.11	0.90	0.93	1.10
2841		66581	1,068.43	6.00	100.00	0.11	0.84	1.04	0.98
2842		66595	147.89	12.00	120.00	0.31	0.61	0.03	0.17
2843		6659F	237.91	8.00	110.00	-0.19	0.85	0.14	0.60
2844		665E6	349.67	8.00	110.00	-0.34	1.52	0.61	1.75
2845		665F9	298.57	8.00	110.00	0.04	0.17	0.01	0.03
2846		66643	37.98	12.00	120.00	-0.84	1.65	0.04	1.07
2847		6666E	73.99	6.00	100.00	-0.19	1.50	0.21	2.85
2848		66670	106.33	12.00	120.00	0.13	0.26	0.00	0.03
2849		666D8	1,280.11	6.00	100.00	0.07	0.52	0.51	0.39
2850		66754	1,361.98	8.00	110.00	0.20	0.88	0.87	0.64
2851		6685F	500.34	6.00	100.00	0.06	0.47	0.17	0.34
2852		6686F	696.52	6.00	100.00	-0.05	0.43	0.19	0.28

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2853		668B3	376.67	12.00	120.00	-0.95	1.88	0.52	1.37
2854		668BE	266.41	12.00	120.00	-1.05	2.06	0.43	1.63
2855		66919	285.00	8.00	110.00	0.32	1.41	0.43	1.52
2856		6695B	357.27	6.00	100.00	0.02	0.19	0.02	0.06
2857		66A1D	270.01	8.00	110.00	0.03	0.11	0.00	0.01
2858		66A77	1,143.95	6.00	100.00	-0.06	0.44	0.33	0.29
2859		66A7B	896.74	6.00	100.00	-0.05	0.41	0.23	0.26
2860		66A7E	341.19	6.00	100.00	-0.05	0.39	0.08	0.24
2861		66A9E	270.00	8.00	110.00	0.16	0.70	0.11	0.41
2862		66ADA	718.09	6.00	100.00	-0.01	0.11	0.02	0.02
2863		66ADB	257.45	8.00	110.00	-0.06	0.25	0.02	0.06
2864		66B10	270.00	6.00	100.00	0.03	0.23	0.02	0.09
2865		66B26	254.85	8.00	110.00	-0.12	0.55	0.07	0.27
2866		66B27	264.84	6.00	100.00	0.02	0.17	0.01	0.05
2867		66B64	270.01	8.00	110.00	-0.09	0.39	0.04	0.14
2868		671	1,989.86	12.00	120.00	0.07	0.14	0.02	0.01
2869		673	811.49	12.00	120.00	0.08	0.16	0.01	0.02
2870		675	55.55	12.00	120.00	-0.14	0.27	0.00	0.04
2871		677	1,083.13	12.00	120.00	0.10	0.20	0.02	0.02
2872		67AA6	588.44	10.00	115.00	0.00	0.00	0.00	0.00
2873		681	169.32	12.00	120.00	0.01	0.02	0.00	0.00
2874		685	4,957.99	12.00	120.00	-0.90	1.77	6.07	1.22
2875		686C6	101.26	8.00	110.00	-0.07	0.33	0.01	0.10
2876		686CC	427.47	8.00	110.00	-0.02	0.09	0.00	0.01
2877		687	2,456.03	12.00	120.00	-1.05	2.06	4.01	1.63
2878		689	5,159.10	12.00	120.00	0.54	1.06	2.43	0.47
2879		69	1,486.19	12.00	120.00	-0.00	0.01	0.00	0.00
2880		691	3,340.57	12.00	120.00	0.16	0.31	0.17	0.05
2881		693	3,353.83	12.00	120.00	-1.21	2.39	7.19	2.14
2882		695	2,400.91	16.00	120.00	2.99	3.32	6.74	2.81
2883		697	2,246.72	12.00	120.00	1.47	2.90	6.87	3.06

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2884		699	6,909.16	16.00	120.00	-1.37	1.52	4.59	0.66
2885		6AF42	281.26	8.00	110.00	0.09	0.41	0.04	0.15
2886		6AF44	483.45	8.00	110.00	0.05	0.20	0.02	0.04
2887		6AF45	7.38	6.00	100.00	-0.03	0.24	0.000	0.10
2888		6AF46	501.72	6.00	100.00	0.03	0.21	0.04	0.07
2889		6AF6D	643.84	6.00	100.00	0.03	0.24	0.06	0.09
2890		6AFC8	179.43	8.00	110.00	-0.03	0.15	0.00	0.02
2891		6B000	903.45	6.00	100.00	0.05	0.42	0.24	0.26
2892		6BD91	1,097.96	12.00	120.00	-0.79	1.56	1.06	0.97
2893		6BD95	60.36	12.00	120.00	-0.87	1.71	0.07	1.15
2894		6BDB7	17.67	8.00	110.00	0.05	0.21	0.000	0.04
2895		6BDD6	30.00	8.00	110.00	-0.01	0.05	0.000	0.00
2896		6BE40	303.31	12.00	120.00	-0.43	0.85	0.09	0.31
2897		6D054	1,026.76	6.00	100.00	-0.01	0.04	0.00	0.00
2898		6D090	308.63	6.00	100.00	-0.11	0.90	0.34	1.10
2899		6D092	466.88	6.00	100.00	-0.18	1.41	1.19	2.54
2900		701	9,153.39	12.00	120.00	-0.34	0.67	1.86	0.20
2901		703	1,833.83	16.00	120.00	1.33	1.47	1.14	0.62
2902		705	4,417.76	12.00	120.00	0.55	1.09	2.22	0.50
2903		707	5,334.54	24.00	120.00	6.12	3.01	7.82	1.47
2904		709	2,197.76	16.00	120.00	-1.81	2.01	2.43	1.11
2905		70BFB	372.55	6.00	100.00	-0.19	1.46	1.01	2.71
2906		71	1,126.48	24.00	130.00	-1.41	0.69	0.09	0.08
2907		711	896.42	12.00	120.00	-0.55	1.08	0.44	0.49
2908		713	3,481.00	12.00	120.00	-0.04	0.08	0.01	0.00
2909		715	2,179.77	12.00	120.00	0.97	1.91	3.08	1.41
2910		717	3,387.86	12.00	120.00	0.26	0.52	0.42	0.13
2911		719	2,984.63	12.00	120.00	0.78	1.54	2.84	0.95
2912		721	2,799.56	12.00	120.00	0.55	1.07	1.36	0.49
2913		723	5,731.98	12.00	120.00	0.72	1.41	4.64	0.81
2914		72407	324.57	8.00	110.00	-0.17	0.73	0.15	0.45

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2915		72420	67.00	8.00	110.00	-0.34	1.51	0.12	1.73
2916		725	5,768.05	12.00	120.00	0.36	0.70	1.28	0.22
2917		727	4,791.43	12.00	120.00	0.32	0.64	0.89	0.19
2918		729	2,778.44	12.00	120.00	0.07	0.14	0.03	0.01
2919		73	2,697.73	16.00	125.00	-2.14	2.37	3.76	1.39
2920		731	3,252.66	16.00	120.00	0.56	0.62	0.41	0.13
2921		733	4,096.99	12.00	120.00	0.20	0.40	0.32	0.08
2922		735	4,377.78	12.00	120.00	0.24	0.48	0.47	0.11
2923		737	1,416.40	12.00	120.00	0.12	0.25	0.05	0.03
2924		739	3,782.07	12.00	120.00	1.04	2.05	6.11	1.61
2925		73EBF	633.04	8.00	110.00	0.07	0.32	0.06	0.10
2926		741	1,866.54	12.00	120.00	0.30	0.60	0.31	0.16
2927		743	2,183.19	12.00	120.00	0.23	0.45	0.21	0.10
2928		745	6,124.26	16.00	120.00	1.91	2.11	7.46	1.22
2929		749	3,965.93	12.00	120.00	0.50	0.98	1.62	0.41
2930		75	2,642.25	24.00	140.00	4.09	2.01	1.38	0.52
2931		751	2,531.76	12.00	120.00	0.12	0.24	0.08	0.03
2932		753	2,069.30	12.00	120.00	0.12	0.24	0.06	0.03
2933		755	1,334.76	12.00	120.00	0.72	1.43	1.10	0.82
2934		757	1,933.07	12.00	120.00	0.06	0.11	0.01	0.01
2935		759	888.10	12.00	120.00	-0.05	0.09	0.00	0.01
2936		761	10,304.45	12.00	120.00	-0.05	0.09	0.06	0.01
2937		765	2,642.73	16.00	120.00	1.65	1.83	2.47	0.93
2938		769	2,696.14	12.00	120.00	-0.35	0.70	0.59	0.22
2939		77	2,295.67	16.00	125.00	1.61	1.78	1.89	0.83
2940		779	2,667.93	12.00	120.00	0.49	0.96	1.06	0.40
2941		77EF7	179.50	12.00	120.00	-0.04	0.07	0.000	0.00
2942		77EF9	444.52	12.00	120.00	-0.15	0.30	0.02	0.05
2943		77EFD	226.53	12.00	120.00	0.12	0.23	0.01	0.03
2944		77F00	342.19	12.00	120.00	0.08	0.16	0.01	0.01
2945		77F0A	178.60	8.00	110.00	0.15	0.68	0.07	0.40

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2946		781	2,628.44	12.00	120.00	0.19	0.37	0.17	0.07
2947		783	2,740.87	12.00	120.00	0.06	0.12	0.02	0.01
2948		785	2,784.42	16.00	120.00	-0.64	0.70	0.44	0.16
2949		787	2,566.78	16.00	120.00	-1.15	1.28	1.23	0.48
2950		789	2,726.02	12.00	120.00	-0.10	0.20	0.06	0.02
2951		79	393.70	16.00	120.00	1.36	1.50	0.25	0.65
2952		795	2,772.48	12.00	120.00	0.32	0.64	0.51	0.19
2953		797	2,701.76	12.00	120.00	0.07	0.13	0.03	0.01
2954		799	2,440.58	12.00	120.00	0.05	0.11	0.02	0.01
2955		7D052	281.80	6.00	100.00	-0.02	0.16	0.01	0.04
2956		7D059	112.48	6.00	100.00	-0.02	0.14	0.00	0.03
2957		7D05F	269.32	8.00	110.00	-0.18	0.81	0.15	0.55
2958		7D073	181.38	6.00	100.00	0.02	0.18	0.01	0.06
2959		7D171	151.86	16.00	125.00	0.54	0.60	0.02	0.11
2960		7D172	261.00	16.00	125.00	0.43	0.47	0.02	0.07
2961		7D173	1,229.90	16.00	125.00	0.16	0.18	0.01	0.01
2962		7D1E7	1,307.30	6.00	100.00	-0.11	0.86	1.32	1.01
2963		7D1F4	309.26	16.00	125.00	1.73	1.92	0.29	0.94
2964		7D20D	661.25	16.00	125.00	1.40	1.56	0.42	0.64
2965		7D38F	573.00	8.00	110.00	-0.01	0.03	0.000	0.00
2966		7D390	215.07	8.00	110.00	-0.14	0.61	0.07	0.32
2967		7D391	270.00	6.00	100.00	0.02	0.18	0.02	0.06
2968		7D39D	53.98	6.00	100.00	-0.15	1.17	0.10	1.80
2969		7D39E	218.69	6.00	100.00	-0.12	0.96	0.27	1.24
2970		7D39F	455.23	6.00	100.00	-0.13	1.01	0.62	1.36
2971		7D3A0	97.14	6.00	100.00	-0.13	1.05	0.14	1.47
2972		7D3A9	267.43	6.00	100.00	-0.13	1.00	0.36	1.35
2973		7DB03	2,269.91	6.00	100.00	-0.09	0.68	1.50	0.66
2974		7DB2F	846.54	6.00	100.00	0.00	0.04	0.00	0.00
2975		7DB44	1,109.10	6.00	100.00	0.04	0.28	0.14	0.13
2976		7DB5C	1,109.41	6.00	100.00	0.06	0.48	0.38	0.34

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
2977	7DB77	164.84	6.00	100.00	0.01	0.07	0.00	0.01
2978	7DB86	269.96	6.00	100.00	0.11	0.83	0.26	0.95
2979	7E85D	95.37	16.00	125.00	1.82	2.01	0.10	1.03
2980	7E86B	345.01	16.00	125.00	1.87	2.07	0.38	1.09
2981	7E8C6	345.98	12.00	120.00	-0.32	0.63	0.06	0.18
2982	7EF77	141.27	8.00	110.00	-0.17	0.77	0.07	0.49
2983	7EF86	144.00	6.00	100.00	0.08	0.61	0.08	0.53
2984	7EF89	711.34	8.00	110.00	-0.03	0.14	0.01	0.02
2985	7EF8F	5.00	16.00	125.00	0.18	0.20	0.00	0.00
2986	7EF95	20.00	6.00	100.00	0.10	0.80	0.02	0.88
2987	7EFA4	360.70	8.00	110.00	-0.15	0.67	0.14	0.38
2988	801	2,730.92	16.00	120.00	0.14	0.15	0.03	0.01
2989	803	2,461.29	16.00	120.00	-0.23	0.26	0.06	0.02
2990	805	2,295.30	12.00	120.00	-0.50	0.98	0.94	0.41
2991	807	2,715.90	12.00	120.00	0.33	0.65	0.51	0.19
2992	81	506.66	16.00	120.00	0.68	0.76	0.09	0.18
2993	813	2,756.75	12.00	120.00	0.72	1.42	2.25	0.82
2994	815	2,239.30	12.00	120.00	0.63	1.24	1.42	0.63
2995	819	2,840.57	12.00	120.00	0.48	0.94	1.08	0.38
2996	821	2,359.54	12.00	120.00	0.25	0.50	0.27	0.12
2997	823	2,318.32	12.00	120.00	0.21	0.42	0.20	0.08
2998	827	2,887.75	12.00	120.00	0.34	0.66	0.57	0.20
2999	829	2,474.07	16.00	120.00	0.92	1.02	0.78	0.32
3000	83	987.39	16.00	120.00	0.57	0.63	0.13	0.13
3001	831	2,215.20	16.00	120.00	0.53	0.59	0.25	0.11
3002	833	3,283.46	12.00	120.00	-0.68	1.34	2.40	0.73
3003	843	3,306.32	24.00	120.00	1.45	0.72	0.34	0.10
3004	845	2,814.77	12.00	120.00	0.52	1.03	1.27	0.45
3005	847	3,358.92	12.00	120.00	0.15	0.30	0.15	0.05
3006	849	2,556.97	36.00	120.00	2.20	0.48	0.08	0.03
3007	85	1,480.34	16.00	120.00	-0.31	0.34	0.06	0.04

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3008	851	2,758.28	12.00	120.00	0.33	0.65	0.52	0.19
3009	853	2,806.91	12.00	120.00	0.63	1.24	1.79	0.64
3010	855	2,757.72	12.00	120.00	0.00	0.01	0.000	0.0000
3011	857	2,527.94	24.00	120.00	-4.27	2.10	1.90	0.75
3012	859	2,549.51	24.00	120.00	3.15	1.55	1.09	0.43
3013	861	2,549.51	16.00	120.00	0.76	0.84	0.56	0.22
3014	863	2,845.50	16.00	120.00	0.31	0.35	0.12	0.04
3015	865	2,581.45	12.00	120.00	-0.48	0.95	0.99	0.38
3016	867	2,795.46	12.00	120.00	-0.23	0.45	0.27	0.10
3017	869	2,561.56	12.00	120.00	-0.34	0.66	0.51	0.20
3018	87	1,100.18	12.00	120.00	-0.14	0.27	0.04	0.04
3019	871	2,553.14	12.00	120.00	-0.52	1.03	1.14	0.45
3020	873	2,558.60	12.00	120.00	-0.76	1.51	2.33	0.91
3021	875	2,550.66	16.00	120.00	-0.86	0.95	0.71	0.28
3022	877	2,686.29	16.00	120.00	-1.60	1.78	2.37	0.88
3023	879	2,495.66	16.00	120.00	0.11	0.13	0.02	0.01
3024	881	2,818.20	16.00	120.00	-0.02	0.02	0.000	0.000
3025	883	2,528.77	12.00	120.00	-0.41	0.80	0.71	0.28
3026	885	2,655.28	12.00	120.00	-0.63	1.25	1.70	0.64
3027	887	2,578.08	12.00	120.00	0.07	0.13	0.03	0.01
3028	889	2,523.68	12.00	120.00	0.40	0.79	0.70	0.28
3029	89	2,616.40	12.00	120.00	-0.09	0.17	0.04	0.02
3030	891	2,683.60	12.00	120.00	-0.66	1.29	1.84	0.68
3031	893	2,817.03	12.00	120.00	-0.04	0.08	0.01	0.00
3032	897	2,428.26	12.00	120.00	-0.07	0.14	0.03	0.01
3033	8980F	360.65	8.00	110.00	0.04	0.18	0.01	0.03
3034	898A5	141.64	8.00	110.00	0.11	0.48	0.03	0.21
3035	898DD	249.30	6.00	100.00	-0.15	1.18	0.45	1.81
3036	899	2,787.02	12.00	120.00	-0.24	0.48	0.30	0.11
3037	89902	637.91	8.00	110.00	-0.09	0.40	0.09	0.14
3038	8B006	145.03	6.00	100.00	-0.16	1.30	0.31	2.17

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3039	8B012	987.66	6.00	100.00	-0.02	0.13	0.03	0.03
3040	8B02D	487.61	10.00	115.00	-0.43	1.22	0.40	0.82
3041	8B036	270.00	12.00	120.00	0.86	1.68	0.30	1.12
3042	8B039	1,510.38	6.00	100.00	-0.10	0.77	1.24	0.82
3043	8B04E	720.51	8.00	110.00	-0.01	0.05	0.00	0.00
3044	8B057	308.38	8.00	110.00	-0.01	0.03	0.000	0.000
3045	8B05F	323.98	8.00	110.00	-0.04	0.20	0.01	0.04
3046	8B062	25.42	6.00	100.00	-0.07	0.57	0.01	0.48
3047	8B065	20.79	10.00	115.00	-0.00	0.00	0.00	0.00
3048	8B077	743.91	12.00	120.00	-0.21	0.40	0.06	0.08
3049	8B092	644.00	6.00	100.00	0.05	0.40	0.16	0.25
3050	8B0A1	1,364.83	4.00	90.00	-0.02	0.42	0.73	0.53
3051	8B0A4	264.01	6.00	100.00	-0.15	1.15	0.46	1.75
3052	8B0A7	146.90	4.00	90.00	0.05	0.92	0.33	2.22
3053	8B0AA	225.43	6.00	100.00	0.07	0.58	0.11	0.49
3054	8B0AD	620.27	24.00	130.00	-5.41	2.66	0.62	1.00
3055	8B0B3	419.87	6.00	100.00	0.11	0.90	0.47	1.11
3056	8B0D1	543.93	6.00	100.00	0.11	0.88	0.58	1.07
3057	8B0DD	1,219.33	6.00	100.00	-0.08	0.63	0.69	0.57
3058	8B0E0	1,708.28	6.00	100.00	0.02	0.15	0.07	0.04
3059	8B0F2	848.25	16.00	125.00	3.42	3.79	2.82	3.33
3060	8B0FE	43.81	8.00	110.00	-0.36	1.61	0.08	1.94
3061	8B110	169.95	8.00	110.00	0.13	0.57	0.05	0.28
3062	8B11C	1,114.38	8.00	110.00	-0.03	0.15	0.03	0.02
3063	8B12E	477.30	6.00	100.00	-0.17	1.37	1.15	2.42
3064	8B143	1,852.23	16.00	125.00	-4.07	4.51	8.52	4.60
3065	8B14F	109.58	16.00	125.00	-1.59	1.77	0.09	0.81
3066	8B16A	284.15	8.00	110.00	0.19	0.85	0.17	0.60
3067	8B16D	403.63	8.00	110.00	-0.01	0.06	0.00	0.00
3068	8B179	79.58	12.00	120.00	0.53	1.04	0.04	0.46
3069	8B17C	59.00	12.00	120.00	-0.01	0.02	0.000	0.00

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3070	8B17F	22.00	12.00	120.00	-0.02	0.05	0.00	0.00
3071	8B182	396.42	8.00	110.00	0.03	0.14	0.01	0.02
3072	8B185	207.78	6.00	100.00	0.18	1.45	0.55	2.66
3073	8B188	126.99	6.00	100.00	0.16	1.28	0.27	2.13
3074	8B1A3	269.93	6.00	100.00	-0.07	0.54	0.12	0.43
3075	8B1B5	903.00	6.00	100.00	-0.03	0.26	0.10	0.11
3076	8B1BE	200.17	8.00	110.00	0.23	1.01	0.16	0.81
3077	8B1CD	91.20	24.00	140.00	-2.23	1.10	0.02	0.17
3078	8B1D0	1,911.87	16.00	125.00	2.36	2.61	3.20	1.67
3079	8B29C	579.65	10.00	115.00	-0.08	0.22	0.02	0.03
3080	8B29F	104.43	8.00	110.00	0.32	1.43	0.16	1.57
3081	8B2AE	577.49	10.00	115.00	-0.37	1.05	0.36	0.62
3082	8B2BA	141.67	8.00	110.00	0.22	0.95	0.10	0.74
3083	8B2C3	770.01	6.00	100.00	-0.04	0.33	0.13	0.17
3084	8B2D2	1,133.15	6.00	100.00	0.02	0.20	0.07	0.07
3085	8B2D8	554.90	12.00	120.00	0.74	1.46	0.47	0.86
3086	8B2E1	317.00	8.00	110.00	-0.08	0.37	0.04	0.13
3087	8B2E7	146.90	8.00	110.00	0.19	0.83	0.08	0.57
3088	8B2F8	425.03	8.00	110.00	-0.02	0.10	0.00	0.01
3089	8B304	1,064.07	12.00	120.00	0.52	1.02	0.47	0.44
3090	8B322	1,292.92	6.00	100.00	-0.03	0.26	0.15	0.11
3091	8B32E	1,304.87	6.00	100.00	-0.09	0.72	0.94	0.72
3092	8B33D	778.06	24.00	130.00	-7.29	3.59	1.36	1.75
3093	8B376	498.30	20.00	130.00	-0.60	0.43	0.02	0.04
3094	8B388	637.78	6.00	100.00	-0.19	1.52	1.86	2.92
3095	8B397	269.40	6.00	100.00	-0.04	0.29	0.04	0.13
3096	8B39A	1,421.55	6.00	100.00	0.04	0.30	0.20	0.14
3097	8B3B4	2,609.62	16.00	125.00	1.57	1.73	2.04	0.78
3098	8B7E4	52.55	8.00	110.00	0.04	0.20	0.00	0.04
3099	8B7EB	287.84	8.00	110.00	-0.00	0.02	0.000	0.000
3100	8B7FE	204.74	8.00	110.00	-0.01	0.05	0.000	0.00

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3101	8B816	466.23	12.00	120.00	-0.22	0.44	0.04	0.09
3102	8B858	598.41	12.00	120.00	-0.07	0.14	0.01	0.01
3103	8B899	128.08	12.00	120.00	0.000000	0.00000	0.00	0.00
3104	8C218	138.18	8.00	110.00	0.08	0.33	0.01	0.11
3105	8C504	295.00	8.00	110.00	0.09	0.39	0.04	0.14
3106	8C50E	489.00	6.00	100.00	0.01	0.09	0.01	0.02
3107	8C511	197.77	6.00	100.00	0.04	0.34	0.04	0.18
3108	8C514	264.00	8.00	110.00	-0.19	0.85	0.16	0.60
3109	8C520	190.63	12.00	120.00	-0.82	1.61	0.20	1.03
3110	8C550	1,227.15	12.00	120.00	-0.30	0.59	0.20	0.16
3111	8C56B	108.87	6.00	100.00	-0.21	1.64	0.37	3.36
3112	8C56E	542.62	6.00	100.00	-0.16	1.24	1.08	1.99
3113	8C57D	458.03	6.00	100.00	0.07	0.53	0.19	0.41
3114	8C634	1,160.57	6.00	100.00	0.04	0.28	0.15	0.13
3115	8C63E	258.09	12.00	120.00	0.03	0.06	0.000	0.00
3116	8C7FA	258.78	6.00	100.00	-0.16	1.23	0.51	1.97
3117	8C803	1,209.35	6.00	100.00	0.13	1.06	1.80	1.48
3118	8C806	575.21	6.00	100.00	0.10	0.81	0.53	0.91
3119	8C80C	597.00	8.00	110.00	0.58	2.59	2.80	4.68
3120	8C85F	1,405.84	6.00	100.00	0.04	0.32	0.23	0.16
3121	8C878	343.46	16.00	125.00	-1.30	1.44	0.19	0.56
3122	8C8DA	525.84	8.00	110.00	-0.35	1.53	0.93	1.77
3123	8C8E3	849.04	6.00	100.00	0.06	0.51	0.32	0.38
3124	8C8EC	285.00	6.00	100.00	-0.01	0.09	0.00	0.02
3125	8C8EF	270.00	12.00	120.00	0.96	1.88	0.37	1.38
3126	8C8FB	765.85	6.00	100.00	-0.01	0.08	0.01	0.01
3127	8C914	881.87	6.00	100.00	-0.02	0.18	0.05	0.05
3128	8C91A	859.22	6.00	100.00	0.01	0.09	0.01	0.01
3129	8C92C	801.04	6.00	100.00	-0.01	0.09	0.01	0.02
3130	8C932	240.20	8.00	110.00	0.01	0.05	0.000	0.00
3131	8C948	190.00	12.00	120.00	-0.60	1.19	0.11	0.59

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3132	8C95E	906.98	8.00	110.00	-0.27	1.21	1.04	1.14
3133	8C985	869.62	8.00	110.00	0.19	0.84	0.51	0.58
3134	8C98F	56.19	16.00	125.00	2.02	2.24	0.07	1.26
3135	8C9AC	41.42	12.00	120.00	0.22	0.44	0.00	0.09
3136	8C9CC	648.35	6.00	100.00	0.10	0.78	0.55	0.85
3137	8C9D2	478.00	6.00	100.00	-0.09	0.67	0.31	0.64
3138	8C9D8	1,349.16	16.00	125.00	1.07	1.19	0.52	0.39
3139	8C9E0	14.12	24.00	130.00	-6.89	3.39	0.02	1.57
3140	8C9E6	332.87	6.00	100.00	0.10	0.75	0.26	0.79
3141	8C9FB	521.13	6.00	100.00	-0.05	0.41	0.14	0.26
3142	8CA01	1,248.01	6.00	100.00	-0.02	0.18	0.07	0.06
3143	8CA0D	795.90	6.00	100.00	0.07	0.52	0.32	0.40
3144	8CA10	235.00	6.00	100.00	0.06	0.44	0.07	0.29
3145	8CA23	479.61	6.00	100.00	-0.01	0.09	0.01	0.01
3146	8CA2C	379.84	6.00	100.00	0.05	0.36	0.08	0.20
3147	8CA41	641.31	6.00	100.00	-0.01	0.11	0.01	0.02
3148	8CA72	1,308.65	24.00	130.00	0.79	0.39	0.04	0.03
3149	8CB0B	1,339.20	6.00	100.00	-0.03	0.24	0.13	0.09
3150	8CB0E	347.92	8.00	110.00	-0.12	0.51	0.08	0.23
3151	8CB14	280.75	8.00	110.00	-0.11	0.47	0.06	0.20
3152	8CB29	656.45	6.00	100.00	0.03	0.22	0.05	0.08
3153	8CB54	1,299.23	6.00	100.00	0.05	0.43	0.37	0.28
3154	8CCE2	400.11	24.00	130.00	7.90	3.89	0.81	2.03
3155	8CD7E	926.04	24.00	130.00	6.26	3.08	1.22	1.32
3156	8CF89	730.46	16.00	125.00	-1.69	1.88	0.66	0.91
3157	8CF8F	236.28	12.00	120.00	2.14	4.21	1.44	6.10
3158	8CFBE	419.93	8.00	110.00	-0.08	0.35	0.05	0.11
3159	8CFC5	83.00	12.00	120.00	-0.05	0.10	0.000	0.01
3160	8CFCF	457.46	12.00	120.00	1.47	2.89	1.39	3.04
3161	8CFDB	1,155.48	6.00	100.00	-0.04	0.31	0.18	0.15
3162	8CFE1	254.66	12.00	120.00	-0.90	1.78	0.31	1.24

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3163	8D011	804.41	6.00	100.00	-0.02	0.14	0.03	0.04
3164	8D02C	348.06	8.00	110.00	-0.29	1.29	0.45	1.29
3165	8D02F	556.37	8.00	110.00	-0.37	1.62	1.09	1.96
3166	8D0DB	1,377.66	8.00	110.00	-0.14	0.60	0.44	0.32
3167	8D0E7	297.13	8.00	110.00	-0.05	0.24	0.02	0.06
3168	8D0ED	213.91	8.00	110.00	0.17	0.76	0.10	0.49
3169	8D0F0	1,124.61	12.00	120.00	0.13	0.26	0.04	0.04
3170	8D0F4	1,751.95	12.00	120.00	0.56	1.11	0.91	0.52
3171	8D100	166.90	12.00	120.00	-0.35	0.70	0.04	0.22
3172	8D109	1,254.78	6.00	100.00	0.03	0.22	0.10	0.08
3173	8D12E	856.48	6.00	100.00	-0.05	0.38	0.19	0.23
3174	8D14B	394.12	8.00	110.00	-0.13	0.55	0.11	0.27
3175	8D167	120.05	16.00	125.00	-1.11	1.23	0.05	0.41
3176	8D179	291.34	6.00	100.00	-0.03	0.21	0.02	0.08
3177	8D182	188.37	6.00	100.00	-0.02	0.13	0.01	0.03
3178	8D185	187.63	6.00	100.00	-0.14	1.13	0.32	1.70
3179	8D18B	889.96	6.00	100.00	-0.09	0.72	0.65	0.73
3180	8D18E	591.17	6.00	100.00	0.000	0.00	0.00	0.00
3181	8D1A0	514.68	8.00	110.00	-0.08	0.34	0.06	0.11
3182	8D1A4	387.86	16.00	125.00	-2.22	2.46	0.58	1.50
3183	8D1AA	292.21	6.00	100.00	0.17	1.31	0.64	2.20
3184	8D1AD	255.93	6.00	100.00	-0.15	1.20	0.48	1.88
3185	8D1B0	291.61	8.00	110.00	0.06	0.28	0.02	0.08
3186	8D1B3	326.86	6.00	100.00	-0.04	0.33	0.06	0.18
3187	8D1B9	498.00	16.00	125.00	-2.47	2.74	0.91	1.83
3188	8D1BF	383.77	6.00	100.00	0.01	0.10	0.01	0.02
3189	8D1D9	458.64	24.00	130.00	1.69	0.83	0.05	0.12
3190	8D1F8	298.33	20.00	130.00	1.75	1.24	0.09	0.30
3191	8D204	856.34	20.00	130.00	-2.12	1.51	0.37	0.43
3192	8D208	292.00	8.00	110.00	0.10	0.43	0.05	0.17
3193	8D217	1,292.23	8.00	110.00	-0.04	0.18	0.05	0.04

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3194		8D223	460.58	8.00	110.00	-0.27	1.18	0.50	1.09
3195		8D26F	639.50	20.00	130.00	-0.59	0.42	0.03	0.04
3196		8D297	400.45	24.00	130.00	3.44	1.69	0.17	0.43
3197		8D72E	27.83	6.00	100.00	-0.29	2.26	0.17	6.08
3198		8D733	91.28	8.00	110.00	0.47	2.07	0.28	3.10
3199		8D7D2	1,308.93	6.00	100.00	0.06	0.51	0.50	0.38
3200		8D7F7	10.00	16.00	125.00	-2.14	2.37	0.01	1.39
3201		8E0D6	2,654.15	24.00	130.00	0.02	0.01	0.00	0.00
3202		8E0F7	245.91	8.00	110.00	-0.21	0.93	0.17	0.71
3203		8E116	35.74	8.00	110.00	-0.05	0.22	0.00	0.05
3204		8E30B	82.49	8.00	110.00	0.12	0.52	0.02	0.24
3205		8E33C	116.20	24.00	130.00	-5.29	2.61	0.11	0.97
3206		903C4	52.12	16.00	125.00	1.75	1.94	0.05	0.96
3207		907	2,910.10	12.00	120.00	0.01	0.02	0.000	0.000
3208		9087C	640.41	8.00	110.00	0.01	0.05	0.00	0.00
3209		9089A	177.13	8.00	110.00	0.05	0.21	0.01	0.04
3210		9089D	186.63	8.00	110.00	0.03	0.12	0.00	0.02
3211		908BD	359.91	8.00	110.00	0.06	0.26	0.02	0.07
3212		908E6	350.00	8.00	110.00	0.01	0.05	0.000	0.00
3213		909	2,707.98	12.00	120.00	-0.14	0.27	0.10	0.04
3214		90918	345.02	8.00	110.00	0.01	0.06	0.00	0.00
3215		90940	635.33	8.00	110.00	0.01	0.04	0.00	0.00
3216		90BCB	421.39	8.00	110.00	-0.10	0.43	0.07	0.17
3217		90BDF	125.68	6.00	100.00	-0.06	0.49	0.05	0.36
3218		90BE3	178.58	6.00	100.00	-0.08	0.64	0.11	0.59
3219		90BEA	587.41	6.00	100.00	-0.11	0.87	0.61	1.04
3220		90BFD	1,047.60	6.00	100.00	0.01	0.08	0.01	0.01
3221		90C28	586.73	6.00	100.00	0.04	0.28	0.07	0.13
3222		90C2D	23.77	10.00	115.00	0.02	0.05	0.000	0.01
3223		90C2E	564.40	6.00	100.00	0.00	0.04	0.00	0.00
3224		90C4E	99.71	6.00	100.00	0.15	1.18	0.18	1.83

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3225		90C60	742.96	6.00	100.00	-0.06	0.46	0.24	0.32
3226		90C7A	17.05	6.00	100.00	0.03	0.25	0.00	0.10
3227		90C7D	577.96	6.00	100.00	-0.06	0.45	0.18	0.30
3228		90EA3	672.90	12.00	120.00	0.09	0.18	0.01	0.02
3229		90EE4	138.83	8.00	110.00	-0.03	0.11	0.00	0.01
3230		91	2,538.35	16.00	120.00	-0.32	0.36	0.11	0.05
3231		911	2,782.98	16.00	120.00	0.70	0.77	0.53	0.19
3232		913	2,446.18	16.00	120.00	0.13	0.14	0.02	0.01
3233		915	2,760.97	12.00	120.00	-0.12	0.25	0.09	0.03
3234		917	2,837.39	12.00	120.00	-0.07	0.14	0.03	0.01
3235		919	2,425.21	12.00	120.00	-0.06	0.11	0.02	0.01
3236		921	2,798.56	12.00	120.00	-0.26	0.51	0.34	0.12
3237		923	2,759.06	16.00	120.00	-0.26	0.29	0.08	0.03
3238		925	2,837.38	16.00	120.00	-0.17	0.19	0.04	0.01
3239		92562	2,902.44	12.00	120.00	0.74	1.46	2.50	0.86
3240		927	2,546.84	12.00	120.00	0.35	0.69	0.54	0.21
3241		929	2,592.14	12.00	120.00	0.19	0.36	0.17	0.07
3242		929EB	112.00	16.00	125.00	0.000000	0.000000	0.00	0.00
3243		93	1,340.82	16.00	125.00	-0.64	0.71	0.20	0.15
3244		931	2,690.77	12.00	120.00	0.23	0.45	0.26	0.10
3245		933	2,616.71	16.00	120.00	0.09	0.10	0.01	0.00
3246		935	2,542.77	12.00	120.00	-0.17	0.34	0.15	0.06
3247		937	2,616.08	12.00	120.00	-0.25	0.49	0.29	0.11
3248		939	2,778.29	12.00	120.00	0.23	0.46	0.28	0.10
3249		941	2,481.34	12.00	120.00	0.05	0.10	0.02	0.01
3250		943	2,535.50	16.00	120.00	0.54	0.60	0.30	0.12
3251		945	2,626.51	16.00	120.00	0.37	0.41	0.15	0.06
3252		947	2,565.11	16.00	120.00	-1.39	1.54	1.75	0.68
3253		949	2,671.41	16.00	120.00	1.11	1.23	1.19	0.45
3254		95	2,634.82	12.00	120.00	-0.07	0.13	0.03	0.01
3255		951	2,409.45	16.00	120.00	-0.30	0.34	0.10	0.04

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3256	953	2,824.75	16.00	120.00	-0.07	0.08	0.01	0.00
3257	955	2,720.33	12.00	120.00	-0.41	0.81	0.79	0.29
3258	957	2,553.11	12.00	120.00	-0.39	0.77	0.67	0.26
3259	959	2,758.90	12.00	120.00	-0.29	0.57	0.41	0.15
3260	961	2,454.59	24.00	120.00	-1.32	0.65	0.21	0.09
3261	963	2,482.64	12.00	120.00	0.25	0.50	0.29	0.12
3262	965	2,510.38	16.00	120.00	-1.09	1.21	1.08	0.43
3263	967	2,789.45	12.00	120.00	0.02	0.04	0.00	0.00
3264	969	2,734.09	16.00	120.00	-0.88	0.98	0.80	0.29
3265	97	2,586.44	12.00	120.00	-0.12	0.24	0.08	0.03
3266	971	2,018.91	24.00	120.00	-1.70	0.84	0.28	0.14
3267	973	1,227.30	12.00	120.00	0.29	0.58	0.19	0.15
3268	975	1,974.24	12.00	120.00	-0.10	0.19	0.04	0.02
3269	977	2,173.32	16.00	120.00	-0.99	1.10	0.79	0.36
3270	979	2,630.01	24.00	120.00	-5.98	2.95	3.69	1.40
3271	981	2,696.10	24.00	120.00	5.33	2.62	3.06	1.13
3272	983	1,207.09	24.00	120.00	3.99	1.96	0.80	0.66
3273	985	4,757.36	16.00	120.00	0.21	0.23	0.10	0.02
3274	987	3,894.14	16.00	120.00	0.17	0.18	0.05	0.01
3275	989	3,121.18	12.00	120.00	0.16	0.32	0.16	0.05
3276	99	2,628.09	16.00	140.00	-0.33	0.36	0.09	0.03
3277	991	1,515.40	16.00	120.00	-0.41	0.45	0.11	0.07
3278	993	2,650.17	24.00	120.00	-2.68	1.32	0.84	0.32
3279	995	2,542.62	16.00	120.00	0.07	0.08	0.01	0.00
3280	999	2,460.46	16.00	120.00	-0.39	0.43	0.16	0.06
3281	B4CE1	716.07	16.00	125.00	0.23	0.26	0.02	0.02
3282	B4CFD	219.74	16.00	125.00	-0.24	0.26	0.01	0.02
3283	C7E85	389.43	12.00	120.00	-0.24	0.46	0.04	0.10
3284	C7E9D	3,581.45	12.00	120.00	0.13	0.26	0.12	0.03
3285	C7EA0	10.00	12.00	120.00	0.13	0.25	0.000	0.04
3286	C7EA6	1,150.45	8.00	110.00	-0.07	0.32	0.11	0.10

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3287		C7EBA	55.00	8.00	110.00	-0.23	1.01	0.04	0.81
3288		C7EC8	590.58	8.00	110.00	0.10	0.46	0.11	0.19
3289		C7F34	453.80	6.00	100.00	0.01	0.05	0.00	0.01
3290		C841D	485.76	8.00	110.00	0.00	0.00	0.00	0.00
3291		CA404	317.13	8.00	110.00	0.19	0.85	0.19	0.60
3292		CCCCE	158.01	8.00	110.00	0.10	0.42	0.03	0.16
3293		CCCDD	223.77	8.00	110.00	-0.05	0.24	0.01	0.06
3294		CCCFA	644.14	8.00	110.00	-0.03	0.13	0.01	0.02
3295		CCD4A	337.24	8.00	110.00	0.07	0.32	0.03	0.10
3296		CCD54	1,287.92	8.00	110.00	-0.04	0.17	0.04	0.03
3297		CCD64	397.42	8.00	110.00	0.09	0.41	0.06	0.16
3298		CCD86	209.97	8.00	110.00	0.11	0.50	0.05	0.22
3299		CCDB8	388.39	8.00	110.00	0.03	0.13	0.01	0.02
3300		CD3E7	1,246.77	6.00	100.00	0.04	0.31	0.20	0.16
3301		CE017	336.48	8.00	110.00	0.03	0.15	0.01	0.02
3302		CE04E	128.63	6.00	100.00	0.02	0.19	0.01	0.06
3303		CE090	234.45	8.00	110.00	0.91	4.04	2.51	10.69
3304		CE094	233.01	8.00	110.00	0.77	3.43	1.83	7.87
3305		CF74D	827.93	6.00	100.00	0.03	0.21	0.06	0.08
3306		CF794	618.52	6.00	100.00	0.01	0.06	0.00	0.01
3307		D2003	270.17	12.00	120.00	1.69	3.34	1.07	3.97
3308		D2013	18.67	12.00	120.00	0.36	0.72	0.00	0.23
3309		D2016	79.11	12.00	120.00	0.02	0.04	0.000	0.00
3310		D2027	470.00	12.00	120.00	-1.32	2.61	1.18	2.52
3311		D2032	420.00	12.00	120.00	1.21	2.39	0.90	2.14
3312		D203D	99.00	12.00	120.00	0.02	0.03	0.000	0.00
3313		D203E	300.79	12.00	120.00	1.12	2.20	0.55	1.83
3314		D204E	139.21	12.00	120.00	1.05	2.07	0.23	1.64
3315		D2050	99.00	12.00	120.00	0.01	0.02	0.000	0.00
3316		D2056	99.00	12.00	120.00	0.01	0.02	0.00	0.00
3317		D205B	240.00	12.00	120.00	0.99	1.96	0.36	1.48

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3318		D2066	73.98	12.00	120.00	0.68	1.33	0.05	0.73
3319		D2094	600.00	12.00	120.00	0.31	0.60	0.10	0.17
3320		D209D	228.87	12.00	120.00	-0.04	0.08	0.000	0.00
3321		D20A7	420.97	12.00	120.00	0.34	0.67	0.09	0.20
3322		D20AA	452.13	12.00	120.00	0.17	0.34	0.03	0.06
3323		D252B	135.34	8.00	110.00	-0.14	0.63	0.05	0.34
3324		D2547	785.03	8.00	110.00	0.07	0.30	0.07	0.09
3325		D254C	155.91	6.00	100.00	0.02	0.20	0.01	0.07
3326		D2671	136.90	6.00	100.00	0.01	0.10	0.00	0.02
3327		D38FC	839.74	6.00	100.00	0.02	0.14	0.03	0.04
3328		D3931	140.03	6.00	100.00	0.01	0.09	0.00	0.01
3329		D3946	138.03	6.00	100.00	0.01	0.09	0.00	0.02
3330		D3947	364.62	6.00	100.00	0.01	0.07	0.00	0.01
3331		D81FC	2,997.46	10.00	115.00	0.20	0.58	0.63	0.21
3332		DBA89	322.01	8.00	110.00	-0.01	0.05	0.000	0.00
3333		DBABE	228.45	8.00	110.00	-0.02	0.08	0.00	0.01
3334		DBB0F	276.20	8.00	110.00	-0.09	0.38	0.04	0.13
3335		DBB1E	13.34	12.00	120.00	-0.06	0.11	0.000	0.01
3336		DBB21	20.19	6.00	100.00	-0.12	0.91	0.02	1.13
3337		DBDF3	1,262.26	8.00	110.00	0.04	0.17	0.04	0.03
3338		DBDFB	771.00	6.00	100.00	-0.09	0.73	0.58	0.76
3339		DBE31	1,324.24	12.00	120.00	-0.21	0.41	0.11	0.08
3340		DBED8	281.01	8.00	110.00	0.02	0.10	0.00	0.01
3341		DBEDE	158.02	8.00	110.00	-0.03	0.14	0.00	0.02
3342		DBEE8	35.00	8.00	110.00	0.00	0.02	0.000	0.00
3343		DBF3A	1,182.11	8.00	110.00	0.11	0.48	0.25	0.21
3344		DC06F	1,103.99	8.00	110.00	-0.01	0.03	0.00	0.00
3345		DC140	139.83	4.00	90.00	-0.01	0.17	0.01	0.10
3346		DC145	230.85	8.00	110.00	-0.01	0.05	0.000	0.00
3347		DF4E0	2,168.77	16.00	125.00	1.11	1.23	0.90	0.42
3348		E2875	477.94	10.00	115.00	-0.23	0.64	0.12	0.25

Buildout Maximum Hour Pipe Report

		ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3349		E2887	479.00	8.00	110.00	-0.09	0.40	0.07	0.15
3350		E28AD	565.00	8.00	110.00	0.11	0.48	0.12	0.21
3351		E28BA	72.00	10.00	115.00	0.01	0.01	0.00	0.00
3352		E28BB	268.06	10.00	115.00	-0.12	0.35	0.02	0.08
3353		E4D39	190.00	4.00	90.00	0.01	0.21	0.03	0.14
3354		E4D4A	206.68	8.00	110.00	0.00	0.00	0.00	0.00
3355		E5A59	908.13	8.00	110.00	0.07	0.32	0.09	0.10
3356		E5ADA	187.66	24.00	130.00	0.70	0.34	0.00	0.02
3357		E5ADB	719.97	8.00	110.00	0.07	0.30	0.06	0.09
3358		E5B17	537.95	8.00	110.00	0.02	0.08	0.00	0.01
3359		E5B55	841.56	6.00	100.00	0.01	0.11	0.02	0.02
3360		E5B87	255.87	8.00	110.00	0.07	0.32	0.02	0.10
3361		E8FE9	638.64	16.00	125.00	0.85	0.94	0.16	0.25
3362		E8FFE	387.39	8.00	110.00	0.04	0.17	0.01	0.03
3363		E9019	184.18	8.00	110.00	-0.03	0.11	0.00	0.01
3364		E913B	166.00	8.00	110.00	-0.05	0.21	0.01	0.04
3365		E9140	137.45	8.00	110.00	0.10	0.44	0.02	0.17
3366		E9161	1,445.00	8.00	110.00	-0.16	0.70	0.60	0.41
3367		E919A	420.00	6.00	100.00	0.01	0.08	0.01	0.01
3368		E923E	226.11	8.00	110.00	-0.20	0.90	0.15	0.66
3369		EE8E6	627.58	12.00	120.00	0.80	1.58	0.62	0.99
3370		EE911	114.00	6.00	100.00	0.01	0.06	0.000	0.01
3371		EE914	231.00	12.00	120.00	0.67	1.32	0.17	0.72
3372		EE91A	187.00	10.00	115.00	0.01	0.03	0.000	0.000
3373		EE956	712.70	12.00	120.00	0.45	0.89	0.25	0.34
3374		EE976	302.00	8.00	110.00	0.04	0.16	0.01	0.03
3375		EE992	13.00	12.00	120.00	0.23	0.45	0.00	0.09
3376		EE999	705.00	8.00	110.00	0.07	0.30	0.06	0.09
3377		F5387	142.42	6.00	100.00	0.07	0.57	0.07	0.47
3378		F53A1	202.00	6.00	100.00	0.05	0.42	0.05	0.27
3379		F53AA	326.17	6.00	100.00	-0.00	0.03	0.000	0.00

Buildout Maximum Hour Pipe Report

	ID	Length (ft)	Diameter (in)	Roughness	Flow (mgd)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/kft)
3380	F53B9	190.00	6.00	100.00	0.01	0.08	0.00	0.01

APPENDIX F
BUILDOUT FIRE FLOW REPORT

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1		1000	0.03	70.83	1,169.80	5.04	65.05	20.11	20.00
2		10006	0.00	80.35	1,160.44	5.04	72.28	17.17	20.00
3		1002	0.07	73.49	1,169.63	5.04	66.11	17.17	20.00
4		10034	0.02	76.92	1,160.35	5.04	57.90	9.47	20.00
5		10046	0.03	75.99	1,160.34	5.04	13.72	4.78	20.00
6		10050	0.03	75.65	1,160.35	5.04	7.75	4.55	20.00
7		10060	0.02	76.75	1,160.35	5.04	51.15	7.94	20.00
8		10064	0.02	76.96	1,160.36	5.04	50.06	7.73	20.00
9		10084	0.00	76.20	1,160.48	5.04	56.26	9.08	20.00
10		10096	0.02	75.80	1,160.67	5.04	57.57	9.49	20.00
11		10106	0.02	76.92	1,160.66	5.04	25.20	5.33	20.00
12		10112	0.03	77.60	1,160.84	5.04	71.85	20.38	20.00
13		10116	0.02	76.37	1,160.91	5.04	35.04	6.00	20.00
14		10134	0.00	75.99	1,160.92	5.04	60.09	10.22	20.00
15		10146	0.17	74.91	1,160.93	5.04	71.73	30.64	20.00
16		1016	0.07	71.15	1,169.22	5.04	60.83	13.31	20.00
17		10180	0.02	77.10	1,163.30	5.04	19.89	5.05	20.00
18		10184	0.00	76.69	1,163.32	5.04	37.59	6.18	20.00
19		10186	0.02	76.58	1,163.31	5.04	4.04	4.42	20.00
20		102	0.00	73.27	1,161.34	5.04	55.01	9.15	20.00
21		10208	0.05	68.17	1,163.70	5.04	-41.08	3.25	20.00
22		10210	0.02	68.69	1,163.71	5.04	-27.30	3.47	20.00
23		10214	0.02	69.46	1,163.72	5.04	-31.70	3.41	20.00
24		10222	0.00	71.21	1,163.95	5.04	67.92	24.49	20.00
25		10230	0.03	73.14	1,163.80	5.04	9.47	4.60	20.00
26		10254	0.00	68.92	1,164.06	5.04	-15.62	3.75	20.00
27		1028	0.02	69.98	1,168.98	5.04	58.98	12.62	20.00
28		10292	0.02	72.81	1,163.04	5.04	47.98	7.72	20.00
29		10296	0.02	68.25	1,162.63	5.04	28.76	5.66	20.00
30		10300	0.00	68.13	1,162.67	5.04	25.20	5.37	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
31		10304	0.02	63.93	1,162.55	5.04	-6.04	3.91	20.00
32		10308	0.02	62.28	1,162.46	5.04	-13.20	3.67	20.00
33		10312	0.02	65.92	1,162.31	5.04	-33.16	3.31	20.00
34		10332	0.00	63.76	1,162.15	5.04	52.00	10.68	20.00
35		1036	0.00	70.50	1,168.84	5.04	59.93	13.15	20.00
36		10404	0.02	66.07	1,100.42	5.04	62.20	20.00	20.00
37		10444	0.03	82.65	1,161.15	5.04	60.74	9.36	20.00
38		10454	0.00	80.28	1,161.01	5.04	20.26	5.05	20.00
39		10466	0.00	79.44	1,161.62	5.04	-8.93	4.05	20.00
40		10484	0.00	80.72	1,161.65	5.04	10.34	4.64	20.00
41		10488	0.00	79.91	1,161.99	5.04	26.25	5.36	20.00
42		10490	0.00	79.79	1,162.10	5.04	42.79	6.58	20.00
43		10492	0.00	78.43	1,161.96	5.04	-687.43	1.25	20.00
44		10498	0.00	78.74	1,162.20	5.04	29.45	5.55	20.00
45		1050	0.02	72.53	1,168.77	5.04	63.52	15.33	20.00
46		10500	0.07	77.38	1,163.29	5.04	62.78	10.91	20.00
47		10526	0.03	77.16	1,163.38	5.04	70.16	16.75	20.00
48		10548	0.02	76.30	1,163.52	5.04	72.87	26.59	20.00
49		10550	0.00	76.23	1,163.55	5.04	74.13	39.85	20.00
50		10556	0.00	77.23	1,163.27	5.04	54.58	8.42	20.00
51		10560	0.00	81.57	1,163.24	5.04	52.30	7.60	20.00
52		10562	0.00	77.29	1,163.24	5.04	23.76	5.23	20.00
53		10568	0.00	78.87	1,163.31	5.04	56.40	8.60	20.00
54		10578	0.00	78.12	1,163.34	5.04	41.10	6.46	20.00
55		10582	0.00	73.13	1,162.45	5.04	57.72	10.09	20.00
56		10590	0.00	69.72	1,086.01	5.04	42.18	9.30	20.00
57		10600	0.00	89.48	1,161.51	5.04	72.98	11.33	20.00
58		10612	0.03	85.48	1,161.42	5.04	54.26	7.65	20.00
59		10628	0.00	84.69	1,161.21	5.04	23.76	5.21	20.00
60		10632	0.00	84.77	1,161.21	5.04	48.87	7.01	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
61		10644	0.00	84.37	1,161.20	5.04	54.52	7.74	20.00
62		10656	0.00	84.15	1,161.20	5.04	63.76	9.57	20.00
63		10678	0.00	84.71	1,161.62	5.04	79.65	22.06	20.00
64		10682	0.00	80.84	1,161.58	5.04	64.15	10.34	20.00
65		10686	0.00	84.08	1,161.21	5.04	70.87	12.28	20.00
66		10690	0.34	84.33	1,164.91	5.04	84.22	286.10	20.08
67		10694	0.05	67.63	1,100.58	5.04	60.23	14.38	20.00
68		10716	0.00	90.68	1,164.06	5.04	28.24	5.39	20.00
69		10720	0.00	89.32	1,164.07	5.04	9.65	4.67	20.00
70		10730	0.00	62.93	1,086.13	5.04	-11.19	3.36	20.00
71		10736	0.07	69.49	1,086.84	5.04	-93.17	2.42	20.00
72		10762	0.00	96.89	1,168.62	5.04	37.82	5.87	20.00
73		10768	0.02	84.46	1,168.33	5.04	-24.23	3.76	20.00
74		10772	0.00	65.61	1,170.49	5.04	62.01	27.47	20.00
75		10778	0.02	76.33	1,162.94	5.04	-27.60	3.63	20.00
76		108	0.00	76.41	1,161.34	5.04	35.52	6.01	20.00
77		10802	0.00	72.36	1,164.18	5.04	61.87	12.16	20.00
78		10812	0.00	76.56	1,161.69	5.04	-19.84	3.76	20.00
79		10816	0.02	81.51	1,163.12	5.04	33.38	5.78	20.00
80		10856	0.02	71.57	1,100.79	5.04	66.24	18.23	20.00
81		10860	0.00	60.86	1,100.00	5.04	60.85	370.30	20.14
82		10868	0.00	78.35	1,163.33	5.04	51.25	7.70	20.00
83		10872	0.00	76.63	1,163.34	5.04	46.87	7.19	20.00
84		10878	0.00	80.79	1,161.45	5.04	15.65	4.85	20.00
85		10890	0.00	89.44	1,161.41	5.04	63.57	8.76	20.00
86		10894	0.12	80.47	1,160.71	5.04	76.98	31.01	20.00
87		10898	0.07	78.51	1,160.30	5.04	69.68	16.10	20.00
88		1090	0.00	92.21	1,162.81	5.04	74.77	11.03	20.00
89		10906	0.03	78.75	1,160.22	5.04	69.41	15.68	20.00
90		10912	0.02	80.31	1,160.35	5.04	72.89	18.25	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
91		10920	0.10	78.14	1,160.60	5.04	70.81	17.72	20.00
92		10924	0.02	80.47	1,160.71	5.04	73.82	19.11	20.00
93		10930	0.00	76.27	1,160.44	5.04	53.16	8.35	20.00
94		10958	0.00	79.71	1,172.66	5.04	70.06	14.80	20.00
95		10960	0.00	79.72	1,172.59	5.04	63.99	10.94	20.00
96		10962	0.00	78.99	1,163.31	5.04	57.08	8.73	20.00
97		10970	0.00	58.10	1,169.97	5.04	32.47	6.34	20.00
98		10980	0.03	99.45	1,164.51	5.04	99.10	175.19	20.03
99		10982	0.00	95.35	1,164.52	5.04	95.03	194.15	20.04
100		10994	0.00	81.44	1,161.01	5.04	41.48	6.46	20.00
101		10996	0.02	78.44	1,161.98	5.04	73.85	24.96	20.00
102		10998	0.00	78.73	1,161.95	5.04	59.66	9.54	20.00
103		11034	0.03	89.98	1,164.07	5.04	6.90	4.62	20.00
104		11042	0.00	68.89	1,086.02	5.04	39.93	8.54	20.00
105		11052	0.02	85.40	1,172.30	5.04	65.03	9.84	20.00
106		11054	0.00	87.20	1,172.30	5.04	67.12	10.06	20.00
107		11058	0.00	59.04	1,086.03	5.04	40.10	11.03	20.00
108		11060	0.00	59.71	1,086.03	5.04	40.25	10.95	20.00
109		11098	0.00	103.74	1,264.43	5.04	100.27	31.34	20.00
110		11100	0.00	103.85	1,264.46	5.04	100.52	32.20	20.00
111		11104	0.02	81.11	1,172.56	5.04	75.68	25.74	20.00
112		11134	0.02	72.41	1,169.07	5.04	55.70	9.90	20.00
113		11146	0.02	95.62	1,168.64	5.04	38.09	5.92	20.00
114		11158	0.00	84.39	1,168.30	5.04	-27.78	3.67	20.00
115		11166	0.00	71.84	1,169.87	5.04	66.62	22.15	20.00
116		11172	0.02	64.10	1,173.60	5.04	62.56	49.58	20.00
117		11174	0.02	55.34	1,172.71	5.04	52.31	24.97	20.00
118		11178	0.00	58.62	1,171.53	5.04	54.92	22.53	20.00
119		11190	0.00	72.94	1,163.33	5.04	20.89	5.09	20.00
120		11194	0.00	72.76	1,162.92	5.04	27.28	5.47	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
121		11198	0.00	76.90	1,163.38	5.04	17.01	4.90	20.00
122		11210	0.00	72.77	1,162.94	5.04	63.69	13.72	20.00
123		11216	0.03	68.81	1,162.80	5.04	34.94	6.23	20.00
124		11224	0.02	69.01	1,162.37	5.04	14.75	4.78	20.00
125		11238	0.02	73.83	1,172.42	5.04	-9.09	3.97	20.00
126		11240	0.00	80.68	1,161.61	5.04	0.39	4.31	20.00
127		11242	0.00	79.77	1,161.98	5.04	-21.69	3.77	20.00
128		11244	0.00	79.99	1,161.92	5.04	-362.88	1.70	20.00
129		11246	0.00	79.50	1,161.86	5.04	2.71	4.38	20.00
130		11262	0.02	85.41	1,162.97	5.04	20.33	5.07	20.00
131		11282	0.07	64.20	1,100.30	5.04	62.24	28.73	20.00
132		11284	0.00	72.95	1,163.35	5.04	33.98	5.96	20.00
133		11286	0.00	79.39	1,163.25	5.04	41.25	6.43	20.00
134		11292	0.00	78.98	1,163.31	5.04	56.36	8.57	20.00
135		11294	0.00	79.44	1,163.25	5.04	40.16	6.33	20.00
136		11324	0.00	77.76	1,161.15	5.04	-58.68	3.14	20.00
137		11330	0.02	79.56	1,159.95	5.04	64.94	11.84	20.00
138		1134	0.00	89.85	1,162.77	5.04	6.69	4.58	20.00
139		11340	0.34	80.22	1,159.60	5.04	41.81	6.91	20.00
140		11356	0.00	87.40	1,162.64	5.04	29.50	5.48	20.00
141		11374	0.12	74.46	1,100.70	5.04	35.35	6.17	20.00
142		11414	0.03	65.99	1,100.42	5.04	34.52	6.23	20.00
143		11424	0.02	70.77	1,168.34	5.04	-29.21	3.43	20.00
144		11430	0.00	83.65	1,168.30	5.04	-27.14	3.67	20.00
145		11434	0.00	77.99	1,168.31	5.04	-35.40	3.43	20.00
146		11448	0.00	79.00	1,169.40	5.04	50.43	7.61	20.00
147		11452	0.00	79.82	1,169.53	5.04	6.44	4.50	20.00
148		11466	0.00	79.22	1,172.70	5.04	74.51	26.47	20.00
149		11470	0.03	75.50	1,172.06	5.04	65.34	20.11	20.00
150		11472	0.05	81.05	1,172.05	5.04	55.06	8.30	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
151		11474	0.00	44.94	1,107.06	5.04	-4.32	3.44	20.00
152		11482	0.00	115.24	1,263.80	5.04	66.11	7.28	20.00
153		11494	0.02	63.54	1,100.27	5.04	59.93	19.89	20.00
154		1150	0.00	89.84	1,162.79	5.04	71.51	10.54	20.00
155		11508	0.03	76.24	1,163.56	5.04	74.75	58.74	20.00
156		11522	0.00	77.99	1,163.34	5.04	44.84	6.86	20.00
157		11524	0.00	78.16	1,163.34	5.04	23.69	5.22	20.00
158		1154	0.00	89.50	1,162.80	5.04	75.94	12.46	20.00
159		11542	0.71	84.91	1,160.95	5.04	82.44	44.28	20.00
160		11548	0.00	93.29	1,162.79	5.04	79.99	12.97	20.00
161		11560	0.02	82.04	1,098.63	5.04	70.12	12.94	20.00
162		11562	0.00	82.09	1,098.64	5.04	79.35	39.32	20.00
163		11564	0.00	80.60	1,098.60	5.04	77.61	35.37	20.00
164		11566	0.02	106.96	1,263.75	5.04	-48.65	3.68	20.00
165		11576	0.00	56.93	1,170.43	5.04	53.31	24.15	20.00
166		11578	0.10	80.66	1,161.15	5.04	11.15	4.77	20.00
167		11592	0.02	69.77	1,086.01	5.04	43.70	9.95	20.00
168		11594	0.02	67.60	1,086.01	5.04	43.10	10.22	20.00
169		11596	0.02	63.39	1,170.58	5.04	45.15	8.26	20.00
170		11606	0.03	67.45	1,170.54	5.04	63.81	27.73	20.00
171		11612	0.00	83.46	1,161.42	5.04	49.58	7.16	20.00
172		11614	0.00	82.67	1,161.49	5.04	76.36	21.04	20.00
173		11624	0.00	85.14	1,161.49	5.04	-8.81	4.12	20.00
174		11682	0.02	85.10	1,161.36	5.04	62.23	9.18	20.00
175		11686	0.00	82.56	1,161.49	5.04	76.49	21.69	20.00
176		11688	0.00	78.08	1,162.04	5.04	73.74	25.86	20.00
177		11690	0.02	77.90	1,162.15	5.04	73.91	27.35	20.00
178		11692	0.02	77.22	1,162.34	5.04	73.83	30.36	20.00
179		11694	0.00	77.10	1,162.38	5.04	73.86	31.33	20.00
180		11696	0.00	76.73	1,162.46	5.04	73.77	33.24	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
181		11702	0.00	76.89	1,162.45	5.04	42.47	6.64	20.00
182		11704	0.00	73.00	1,162.45	5.04	37.01	6.23	20.00
183		11706	0.00	76.89	1,162.44	5.04	63.26	11.15	20.00
184		11710	0.12	87.12	1,161.73	5.04	83.60	29.82	20.00
185		11728	0.02	85.22	1,161.67	5.04	57.90	8.20	20.00
186		11750	0.00	79.37	1,098.60	5.04	73.38	19.77	20.00
187		11752	0.02	82.96	1,098.66	5.04	80.41	42.79	20.00
188		11762	0.02	77.50	1,171.90	5.04	-247.02	1.93	20.00
189		11776	0.02	76.50	1,172.58	5.04	-89.99	2.80	20.00
190		11784	0.00	85.22	1,162.69	5.04	79.69	20.55	20.00
191		11788	0.00	85.69	1,162.69	5.04	80.21	20.74	20.00
192		11790	0.00	84.80	1,162.69	5.04	80.62	24.46	20.00
193		11794	0.02	85.66	1,162.69	5.04	81.83	26.13	20.00
194		11810	0.14	82.21	1,160.83	5.04	-2.41	4.36	20.00
195		11820	0.07	71.63	1,100.75	5.04	58.45	10.88	20.00
196		1184	0.00	89.93	1,162.79	5.04	33.10	5.64	20.00
197		11866	0.02	58.96	1,086.16	5.04	-81.13	2.15	20.00
198		11888	0.03	54.10	1,086.15	5.04	-152.76	1.66	20.00
199		1192	0.00	91.15	1,162.77	5.04	-32.95	3.73	20.00
200		11920	0.00	77.10	1,163.38	5.04	68.93	15.19	20.00
201		11974	0.00	89.98	1,162.66	5.04	26.18	5.30	20.00
202		11976	0.00	86.43	1,162.66	5.04	28.94	5.45	20.00
203		11986	0.00	85.98	1,162.67	5.04	71.70	11.76	20.00
204		11988	0.00	86.55	1,162.66	5.04	21.66	5.11	20.00
205		11994	0.00	81.56	1,163.22	5.04	51.45	7.48	20.00
206		12032	0.02	76.94	1,160.39	5.04	-93.56	2.78	20.00
207		12036	0.00	76.56	1,160.37	5.04	48.55	7.50	20.00
208		1204	0.00	90.96	1,162.77	5.04	22.60	5.14	20.00
209		12044	0.00	76.75	1,160.40	5.04	47.94	7.38	20.00
210		12054	0.00	77.67	1,160.36	5.04	19.09	5.00	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
211		1206	0.00	90.42	1,162.77	5.04	70.31	10.05	20.00
212		12070	0.02	78.11	1,160.32	5.04	38.83	6.29	20.00
213		12090	0.00	77.14	1,160.35	5.04	53.96	8.42	20.00
214		12118	0.00	71.83	1,160.78	5.04	-138.45	2.35	20.00
215		12130	0.02	75.47	1,160.78	5.04	55.14	8.86	20.00
216		12144	0.02	77.04	1,161.02	5.04	72.95	25.59	20.00
217		1216	0.00	90.04	1,162.77	5.04	69.32	9.86	20.00
218		12170	0.02	78.07	1,160.48	5.04	70.13	16.89	20.00
219		12224	0.00	78.58	1,160.22	5.04	69.00	15.30	20.00
220		12228	0.00	77.36	1,160.34	5.04	69.75	17.43	20.00
221		1224	0.02	94.36	1,162.77	5.04	55.20	7.18	20.00
222		12252	0.05	77.76	1,160.13	5.04	53.81	8.42	20.00
223		12264	0.05	79.76	1,159.91	5.04	60.87	10.08	20.00
224		12266	0.17	79.77	1,159.90	5.04	58.85	9.57	20.00
225		12280	0.00	79.55	1,159.98	5.04	66.13	12.50	20.00
226		12284	0.00	79.52	1,160.00	5.04	66.58	12.79	20.00
227		12286	0.00	79.30	1,160.05	5.04	67.11	13.24	20.00
228		12320	0.02	76.15	1,160.57	5.04	61.67	10.96	20.00
229		12330	0.02	76.11	1,160.56	5.04	61.26	10.80	20.00
230		12340	0.07	80.66	1,161.15	5.04	23.29	5.27	20.00
231		12404	0.27	80.84	1,160.95	5.04	78.38	42.45	20.00
232		12408	0.24	80.60	1,161.02	5.04	77.64	34.58	20.00
233		12416	0.24	81.78	1,161.23	5.04	76.92	23.11	20.00
234		1242	0.00	90.96	1,162.76	5.04	74.74	11.39	20.00
235		12424	0.12	83.66	1,161.17	5.04	79.39	25.46	20.00
236		12446	0.02	85.06	1,161.42	5.04	23.34	5.21	20.00
237		1246	0.00	91.46	1,162.75	5.04	81.23	14.90	20.00
238		12462	0.00	89.39	1,161.31	5.04	55.65	7.54	20.00
239		12470	0.02	85.04	1,161.31	5.04	16.81	4.93	20.00
240		12478	0.00	85.04	1,161.26	5.04	15.08	4.84	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
241		12492	0.00	85.27	1,161.18	5.04	9.36	4.64	20.00
242		12498	0.00	84.98	1,161.18	5.04	31.54	5.62	20.00
243		12510	0.00	84.73	1,161.20	5.04	30.51	5.56	20.00
244		12542	0.02	80.68	1,161.20	5.04	34.20	5.86	20.00
245		12556	0.02	83.84	1,161.20	5.04	44.77	6.63	20.00
246		12560	0.00	84.22	1,161.20	5.04	61.59	9.03	20.00
247		12568	0.00	84.51	1,161.20	5.04	50.97	7.26	20.00
248		12576	0.00	84.55	1,161.20	5.04	50.68	7.22	20.00
249		12582	0.00	85.01	1,161.21	5.04	48.29	6.94	20.00
250		12596	0.00	85.17	1,161.26	5.04	49.06	7.01	20.00
251		1260	0.00	91.83	1,162.77	5.04	72.91	10.51	20.00
252		12600	0.00	84.21	1,161.37	5.04	51.82	7.34	20.00
253		12632	0.00	80.82	1,161.53	5.04	-10.28	4.04	20.00
254		12642	0.00	84.32	1,161.53	5.04	29.88	5.52	20.00
255		12646	0.00	80.81	1,161.51	5.04	21.34	5.10	20.00
256		12652	0.00	85.07	1,161.65	5.04	79.53	20.79	20.00
257		12666	0.00	94.37	1,162.63	5.04	27.57	5.35	20.00
258		12668	0.00	94.17	1,162.63	5.04	46.17	6.41	20.00
259		12686	0.00	95.46	1,162.62	5.04	-81.46	3.17	20.00
260		12706	0.00	95.76	1,162.64	5.04	77.20	10.97	20.00
261		12714	0.02	98.24	1,162.60	5.04	-111.78	2.96	20.00
262		12716	0.00	77.23	1,163.24	5.04	38.21	6.22	20.00
263		12718	0.00	77.23	1,163.24	5.04	38.58	6.26	20.00
264		1272	0.02	92.42	1,162.89	5.04	80.98	14.08	20.00
265		12722	0.00	81.29	1,163.23	5.04	42.04	6.44	20.00
266		12726	0.00	76.94	1,163.31	5.04	58.76	9.52	20.00
267		12728	0.00	76.93	1,163.31	5.04	58.23	9.36	20.00
268		12732	0.00	81.57	1,163.24	5.04	19.55	5.02	20.00
269		12734	0.00	81.57	1,163.24	5.04	16.43	4.89	20.00
270		12738	0.00	77.28	1,163.24	5.04	23.70	5.23	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
271		12740	0.00	72.90	1,163.24	5.04	19.21	5.00	20.00
272		12754	0.05	89.30	1,162.11	5.04	85.49	28.20	20.00
273		1276	0.00	92.77	1,162.83	5.04	81.91	14.51	20.00
274		12764	0.12	90.24	1,163.26	5.04	87.13	32.45	20.00
275		12766	0.07	89.96	1,162.94	5.04	86.55	30.35	20.00
276		12768	0.00	76.46	1,163.70	5.04	54.41	8.44	20.00
277		12770	0.00	76.44	1,163.72	5.04	53.95	8.35	20.00
278		12772	0.00	76.70	1,163.54	5.04	57.77	9.23	20.00
279		12774	0.00	76.95	1,163.42	5.04	63.10	11.07	20.00
280		12776	0.00	78.45	1,163.33	5.04	52.99	7.98	20.00
281		12778	0.00	78.53	1,163.36	5.04	42.57	6.59	20.00
282		12786	0.00	78.69	1,163.31	5.04	35.57	5.97	20.00
283		12790	0.00	78.76	1,163.31	5.04	55.93	8.51	20.00
284		12796	0.00	78.24	1,163.33	5.04	11.98	4.70	20.00
285		12804	0.00	77.53	1,163.34	5.04	18.96	4.99	20.00
286		12808	0.00	77.81	1,163.35	5.04	17.18	4.91	20.00
287		12826	0.00	77.23	1,163.24	5.04	20.71	5.07	20.00
288		12846	0.02	65.43	1,086.00	5.04	32.28	6.91	20.00
289		12848	0.02	58.83	1,085.78	5.04	-67.40	2.25	20.00
290		12866	0.03	70.32	1,099.12	5.04	68.45	41.47	20.00
291		12872	0.03	62.94	1,100.27	5.04	58.79	18.33	20.00
292		12882	0.00	61.45	1,100.27	5.04	-5.49	3.91	20.00
293		1292	0.14	82.38	1,161.28	5.04	75.88	20.97	20.00
294		12986	0.10	68.82	1,100.64	5.04	64.17	19.21	20.00
295		12996	0.05	68.03	1,100.48	5.04	66.15	31.45	20.00
296		12998	0.51	76.60	1,101.77	5.04	72.78	24.65	20.00
297		1300	0.00	87.23	1,161.18	5.04	65.80	9.77	20.00
298		13018	0.03	58.60	1,100.24	5.04	49.79	11.38	20.00
299		13032	0.02	58.59	1,100.22	5.04	52.91	14.53	20.00
300		13034	0.03	84.21	1,161.13	5.04	60.67	9.09	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
301		13046	0.17	65.56	1,100.56	5.04	57.78	13.75	20.00
302		1306	0.00	85.67	1,161.18	5.04	-9.77	4.10	20.00
303		13062	0.19	62.47	1,100.28	5.04	54.72	13.19	20.00
304		13064	0.10	62.80	1,100.29	5.04	59.27	20.29	20.00
305		13114	0.07	61.31	1,100.28	5.04	58.92	25.11	20.00
306		13138	0.10	84.99	1,161.13	5.04	60.92	9.10	20.00
307		13184	0.02	58.59	1,100.23	5.04	56.11	22.91	20.00
308		13214	0.07	58.57	1,100.17	5.04	56.83	27.96	20.00
309		13218	0.10	58.59	1,100.22	5.04	52.35	13.88	20.00
310		1324	0.00	85.54	1,161.18	5.04	44.26	6.54	20.00
311		13254	0.00	66.08	1,100.42	5.04	53.76	10.36	20.00
312		1328	0.00	87.24	1,161.18	5.04	62.71	9.00	20.00
313		13344	0.15	63.08	1,100.57	5.04	59.43	20.67	20.00
314		13382	0.00	83.83	1,105.75	5.04	63.92	9.66	20.00
315		13392	0.00	78.32	1,105.75	5.04	48.82	7.35	20.00
316		134	0.02	72.40	1,161.33	5.04	12.40	4.70	20.00
317		1340	0.02	89.34	1,161.19	5.04	11.63	4.75	20.00
318		1342	0.00	89.34	1,161.19	5.04	69.41	10.39	20.00
319		1344	0.03	89.44	1,161.18	5.04	57.83	7.92	20.00
320		13446	0.00	76.25	1,099.97	5.04	76.21	460.88	20.22
321		13458	0.00	78.86	1,163.31	5.04	51.93	7.76	20.00
322		13494	0.00	83.99	1,161.60	5.04	80.10	26.42	20.00
323		13498	0.12	83.34	1,161.27	5.04	79.58	27.68	20.00
324		13522	0.02	91.05	1,162.93	5.04	4.90	4.55	20.00
325		13534	0.02	88.97	1,162.93	5.04	19.75	5.05	20.00
326		13542	0.00	85.76	1,162.91	5.04	61.30	8.67	20.00
327		13568	0.00	89.08	1,162.92	5.04	34.92	5.76	20.00
328		13602	0.00	88.25	1,162.91	5.04	73.69	11.83	20.00
329		13606	0.00	87.59	1,162.70	5.04	85.35	39.26	20.00
330		1362	0.00	95.41	1,161.12	5.04	49.03	6.64	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
331		13620	0.00	85.61	1,162.58	5.04	82.74	32.01	20.00
332		1364	0.00	84.98	1,161.12	5.04	27.83	5.42	20.00
333		13640	0.00	88.81	1,162.82	5.04	86.62	40.07	20.00
334		13646	0.00	90.57	1,162.96	5.04	88.68	45.63	20.00
335		13650	0.02	92.21	1,163.13	5.04	90.83	62.61	20.00
336		13656	0.00	92.78	1,163.20	5.04	91.79	90.89	20.01
337		13660	0.07	95.05	1,162.56	5.04	-41.00	3.70	20.00
338		13670	0.00	94.44	1,162.60	5.04	4.54	4.54	20.00
339		13684	0.00	94.02	1,162.63	5.04	46.28	6.42	20.00
340		13694	0.00	88.32	1,162.70	5.04	84.63	27.31	20.00
341		13706	0.00	89.76	1,162.70	5.04	84.75	22.65	20.00
342		13720	0.00	91.30	1,162.70	5.04	85.77	21.63	20.00
343		13724	0.00	91.89	1,162.70	5.04	86.58	22.34	20.00
344		13748	0.00	93.24	1,162.69	5.04	87.07	20.57	20.00
345		13762	0.00	94.01	1,162.69	5.04	88.07	21.13	20.00
346		138	0.02	73.85	1,161.34	5.04	31.65	5.78	20.00
347		13838	0.02	89.27	1,163.03	5.04	86.68	35.64	20.00
348		13844	0.00	81.70	1,163.25	5.04	67.47	11.31	20.00
349		13848	0.02	83.18	1,163.10	5.04	81.31	42.96	20.00
350		13866	0.00	90.24	1,163.06	5.04	82.17	16.96	20.00
351		13888	0.00	76.53	1,161.62	5.04	-30.66	3.53	20.00
352		13890	0.02	76.52	1,161.59	5.04	-58.33	3.13	20.00
353		13914	0.00	80.73	1,161.67	5.04	-115.30	2.66	20.00
354		13926	0.00	78.20	1,161.96	5.04	-1,161.35	0.96	20.00
355		13930	0.00	76.66	1,161.92	5.04	-421.46	1.55	20.00
356		13936	0.00	76.52	1,161.59	5.04	-58.17	3.12	20.00
357		13946	0.02	79.88	1,161.13	5.04	-8,052.74	0.36	20.00
358		13948	0.00	79.99	1,161.54	5.04	29.93	5.58	20.00
359		13952	0.00	79.90	1,161.56	5.04	3.59	4.41	20.00
360		13954	0.00	80.93	1,161.58	5.04	-65.56	3.12	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
361		13956	0.00	80.99	1,161.57	5.04	-53.77	3.26	20.00
362		13958	0.00	76.49	1,161.54	5.04	-7.13	4.06	20.00
363		1396	0.02	85.00	1,161.17	5.04	64.55	9.91	20.00
364		13966	0.02	72.57	1,163.99	5.04	72.00	96.22	20.01
365		13972	0.02	72.83	1,163.90	5.04	72.26	96.66	20.01
366		14012	0.00	68.49	1,162.66	5.04	60.75	14.54	20.00
367		14016	0.00	68.66	1,162.65	5.04	55.99	10.79	20.00
368		1402	0.03	89.82	1,161.18	5.04	72.50	11.46	20.00
369		14024	0.00	72.75	1,162.89	5.04	66.33	17.05	20.00
370		14026	0.02	72.77	1,162.94	5.04	66.50	17.31	20.00
371		14044	0.02	73.61	1,164.18	5.04	71.81	36.44	20.00
372		14060	0.02	71.18	1,163.93	5.04	68.29	27.85	20.00
373		14062	0.00	72.97	1,163.40	5.04	68.85	21.88	20.00
374		14066	0.00	76.26	1,163.36	5.04	71.30	20.24	20.00
375		14082	0.02	72.49	1,172.29	5.04	-97.42	2.64	20.00
376		14090	0.02	68.70	1,172.81	5.04	-148.43	2.24	20.00
377		14100	0.02	69.96	1,172.59	5.04	16.30	4.86	20.00
378		14142	0.00	72.90	1,164.18	5.04	60.00	10.90	20.00
379		14156	0.00	68.97	1,164.17	5.04	23.01	5.22	20.00
380		14160	0.00	73.18	1,164.18	5.04	41.31	6.66	20.00
381		14174	0.00	73.23	1,164.14	5.04	22.19	5.16	20.00
382		14206	0.00	73.37	1,163.98	5.04	-9.54	3.97	20.00
383		1422	0.03	89.35	1,161.20	5.04	74.85	12.77	20.00
384		14220	0.02	73.57	1,163.90	5.04	20.31	5.07	20.00
385		14222	0.00	73.39	1,163.90	5.04	37.13	6.23	20.00
386		14228	0.03	73.62	1,163.90	5.04	28.28	5.56	20.00
387		14246	0.00	69.00	1,163.72	5.04	-24.50	3.52	20.00
388		14258	0.00	70.13	1,163.77	5.04	31.79	5.86	20.00
389		14260	0.10	69.93	1,163.75	5.04	18.76	5.07	20.00
390		14278	0.00	66.59	1,162.16	5.04	29.48	5.72	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
391		14286	0.02	63.79	1,162.21	5.04	22.80	5.24	20.00
392		14322	0.03	66.64	1,162.55	5.04	-30.91	3.38	20.00
393		1434	0.05	89.35	1,161.21	5.04	76.72	13.98	20.00
394		14364	0.09	70.59	1,162.71	5.04	-41.49	3.32	20.00
395		14388	0.00	68.67	1,162.90	5.04	40.94	6.89	20.00
396		14414	0.02	75.16	1,163.48	5.04	-82.69	2.86	20.00
397		14420	0.00	75.52	1,163.49	5.04	13.05	4.73	20.00
398		14432	0.00	76.19	1,163.42	5.04	-99.97	2.71	20.00
399		14438	0.00	76.54	1,163.42	5.04	-7.85	4.05	20.00
400		1446	0.02	82.65	1,161.28	5.04	75.74	19.97	20.00
401		14470	0.00	77.38	1,163.26	5.04	35.14	5.96	20.00
402		14476	0.00	77.72	1,163.28	5.04	31.46	5.69	20.00
403		14510	0.00	76.41	1,163.34	5.04	59.55	9.83	20.00
404		14528	0.14	71.77	1,162.81	5.04	-176.37	2.21	20.00
405		14598	0.02	71.84	1,162.94	5.04	-129.29	2.36	20.00
406		14606	0.00	68.61	1,163.34	5.04	-31.73	3.36	20.00
407		14630	0.02	72.75	1,163.36	5.04	-42.67	3.28	20.00
408		14640	0.00	77.33	1,163.47	5.04	15.54	4.84	20.00
409		14646	0.00	73.15	1,163.81	5.04	13.77	4.74	20.00
410		14652	0.00	71.64	1,163.83	5.04	26.05	5.40	20.00
411		14664	0.00	69.65	1,163.78	5.04	0.96	4.21	20.00
412		14674	0.00	72.31	1,163.93	5.04	45.35	7.26	20.00
413		1470	0.00	82.45	1,161.28	5.04	75.93	20.83	20.00
414		1472	0.05	89.84	1,161.08	5.04	14.78	4.89	20.00
415		14722	0.02	72.78	1,163.67	5.04	-15.66	3.82	20.00
416		14790	0.02	74.40	1,163.47	5.04	-42.09	3.32	20.00
417		14810	0.00	70.63	1,163.82	5.04	44.80	7.36	20.00
418		1482	0.00	61.62	1,087.90	5.04	-171.41	1.70	20.00
419		14828	0.02	73.43	1,163.61	5.04	2.43	4.33	20.00
420		14840	0.00	73.83	1,163.50	5.04	-11.08	3.91	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
421		14852	0.02	77.32	1,163.44	5.04	-57.50	3.15	20.00
422		1486	0.02	54.26	1,088.32	5.04	-196.07	1.47	20.00
423		14866	0.00	72.27	1,163.55	5.04	22.05	5.15	20.00
424		14876	0.00	73.56	1,163.42	5.04	-28.47	3.53	20.00
425		14878	0.02	73.53	1,163.47	5.04	-38.29	3.38	20.00
426		1488	0.02	52.96	1,088.33	5.04	-119.04	1.70	20.00
427		14884	0.05	77.34	1,163.48	5.04	-23.60	3.75	20.00
428		14896	0.00	72.37	1,163.71	5.04	62.04	12.53	20.00
429		14914	0.00	74.13	1,163.52	5.04	55.20	9.03	20.00
430		14922	0.02	69.21	1,163.74	5.04	-13.45	3.79	20.00
431		14934	0.00	70.97	1,163.89	5.04	56.54	10.26	20.00
432		1494	0.10	59.73	1,087.76	5.04	-151.32	1.80	20.00
433		14940	0.00	68.87	1,163.95	5.04	35.32	6.19	20.00
434		14942	0.00	72.05	1,164.01	5.04	64.14	14.37	20.00
435		14944	0.00	72.54	1,163.75	5.04	14.39	4.77	20.00
436		14946	0.00	68.82	1,163.83	5.04	11.72	4.63	20.00
437		14948	0.00	71.27	1,163.87	5.04	36.27	6.21	20.00
438		14984	0.03	74.88	1,163.44	5.04	-67.55	3.01	20.00
439		14990	0.02	74.46	1,163.43	5.04	-115.87	2.54	20.00
440		14998	0.00	72.42	1,163.72	5.04	36.66	6.22	20.00
441		150	0.02	76.41	1,161.35	5.04	74.66	54.16	20.00
442		1500	0.05	56.02	1,087.74	5.04	-203.28	1.50	20.00
443		15008	0.00	72.69	1,163.69	5.04	17.24	4.90	20.00
444		15012	0.02	74.91	1,163.43	5.04	-147.19	2.35	20.00
445		15016	0.00	73.66	1,163.55	5.04	23.29	5.22	20.00
446		15018	0.02	73.90	1,163.55	5.04	0.88	4.28	20.00
447		15028	0.00	68.82	1,163.82	5.04	64.57	20.40	20.00
448		15032	0.00	73.48	1,163.62	5.04	68.22	18.70	20.00
449		15038	0.00	72.04	1,164.05	5.04	69.35	27.94	20.00
450		15040	0.00	71.95	1,164.01	5.04	69.03	26.57	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
451		15054	0.07	71.15	1,163.82	5.04	64.07	15.41	20.00
452		15060	0.00	72.38	1,163.73	5.04	67.61	19.77	20.00
453		15068	0.00	74.38	1,163.56	5.04	70.85	23.84	20.00
454		1508	0.03	61.91	1,087.90	5.04	-114.65	2.00	20.00
455		15098	0.00	75.02	1,163.55	5.04	74.21	72.59	20.01
456		15166	0.02	74.45	1,163.59	5.04	73.82	92.27	20.01
457		15184	0.02	76.43	1,161.39	5.04	74.76	56.44	20.00
458		15188	0.00	73.01	1,163.01	5.04	72.09	82.67	20.01
459		15214	0.00	63.27	1,171.01	5.04	59.58	24.71	20.00
460		15246	0.02	103.73	1,264.40	5.04	100.12	30.65	20.00
461		15256	0.07	101.25	1,263.53	5.04	95.23	22.48	20.00
462		15278	0.02	58.59	1,170.22	5.04	54.55	22.92	20.00
463		15284	0.02	63.98	1,170.44	5.04	60.43	27.48	20.00
464		15292	0.02	61.79	1,170.46	5.04	58.21	26.33	20.00
465		15302	0.00	55.85	1,170.41	5.04	51.86	21.68	20.00
466		15304	0.00	56.07	1,170.42	5.04	52.23	22.54	20.00
467		15310	0.02	65.17	1,170.49	5.04	60.75	22.33	20.00
468		15352	0.00	58.03	1,170.33	5.04	54.31	24.37	20.00
469		15386	0.00	79.43	1,168.93	5.04	58.79	9.41	20.00
470		15398	0.00	79.77	1,169.09	5.04	54.89	8.34	20.00
471		15404	0.00	80.67	1,169.04	5.04	1.37	4.34	20.00
472		15414	0.02	75.62	1,169.05	5.04	9.01	4.57	20.00
473		15438	0.00	84.09	1,169.08	5.04	56.72	8.20	20.00
474		15444	0.00	80.47	1,168.96	5.04	56.79	8.70	20.00
475		15454	0.00	82.69	1,168.96	5.04	5.64	4.49	20.00
476		15476	0.00	82.09	1,168.96	5.04	-49.30	3.34	20.00
477		15510	0.00	85.81	1,168.30	5.04	-40.13	3.48	20.00
478		15542	0.02	80.41	1,168.25	5.04	-106.31	2.68	20.00
479		15552	0.03	87.50	1,168.32	5.04	-73.51	3.12	20.00
480		15566	0.02	80.45	1,168.26	5.04	-125.42	2.54	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
481		15570	0.02	75.19	1,168.34	5.04	-71.10	2.92	20.00
482		15614	0.00	80.96	1,168.26	5.04	-67.14	3.04	20.00
483		1562	0.00	89.78	1,162.93	5.04	57.22	7.66	20.00
484		15622	0.00	79.71	1,168.23	5.04	-159.26	2.31	20.00
485		15626	0.03	79.15	1,168.22	5.04	-245.48	1.97	20.00
486		15632	0.02	83.96	1,168.30	5.04	-107.49	2.74	20.00
487		15666	0.03	92.22	1,168.62	5.04	31.04	5.58	20.00
488		1568	0.07	84.99	1,168.02	5.04	-29.55	3.70	20.00
489		15686	0.12	89.24	1,168.56	5.04	19.25	5.13	20.00
490		1572	0.00	73.97	1,168.04	5.04	-8.20	3.93	20.00
491		15722	0.00	79.24	1,169.04	5.04	-104.56	2.71	20.00
492		15752	0.00	79.56	1,169.02	5.04	23.08	5.19	20.00
493		15766	0.00	73.88	1,168.48	5.04	-50.47	3.14	20.00
494		15784	0.00	73.36	1,168.45	5.04	-79.65	2.79	20.00
495		15786	0.00	76.00	1,168.45	5.04	-39.24	3.35	20.00
496		15788	0.00	71.29	1,168.45	5.04	-180.32	2.08	20.00
497		15794	0.00	79.50	1,168.48	5.04	4.31	4.41	20.00
498		15804	0.00	80.88	1,168.57	5.04	19.18	5.00	20.00
499		15810	0.03	84.98	1,171.11	5.04	-0.80	4.35	20.00
500		15818	0.02	88.09	1,171.12	5.04	28.79	5.47	20.00
501		15824	0.00	87.68	1,171.12	5.04	-646.92	1.38	20.00
502		15836	0.00	85.46	1,172.30	5.04	45.73	6.66	20.00
503		1584	0.00	77.67	1,163.34	5.04	5.93	4.47	20.00
504		15846	0.02	55.39	1,086.04	5.04	23.63	5.69	20.00
505		15860	0.02	61.72	1,085.67	5.04	-285.60	1.43	20.00
506		15910	0.00	79.97	1,168.45	5.04	-3.87	4.16	20.00
507		15920	0.00	75.69	1,168.57	5.04	-16.53	3.79	20.00
508		15928	0.00	76.91	1,168.48	5.04	-55.29	3.14	20.00
509		15954	0.00	79.52	1,168.52	5.04	-24.17	3.68	20.00
510		15972	0.00	81.54	1,168.61	5.04	30.28	5.60	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
511		15984	0.00	62.82	1,169.99	5.04	46.15	8.67	20.00
512		15996	0.00	68.60	1,169.89	5.04	43.36	7.30	20.00
513		16008	0.00	62.95	1,169.99	5.04	3.76	4.22	20.00
514		16012	0.00	65.51	1,169.95	5.04	25.68	5.43	20.00
515		16016	0.02	69.30	1,169.89	5.04	28.25	5.60	20.00
516		16018	0.00	62.54	1,169.99	5.04	-22.82	3.44	20.00
517		16020	0.00	61.09	1,169.99	5.04	21.80	5.17	20.00
518		16022	0.00	65.19	1,169.95	5.04	42.53	7.46	20.00
519		16046	0.02	55.84	1,170.29	5.04	43.06	9.23	20.00
520		16096	0.02	62.93	1,170.25	5.04	6.57	4.35	20.00
521		16104	0.02	63.34	1,170.25	5.04	26.40	5.53	20.00
522		16120	0.00	66.66	1,170.25	5.04	-34.71	3.29	20.00
523		16148	0.02	62.85	1,170.24	5.04	-15.09	3.63	20.00
524		16160	0.02	62.94	1,170.26	5.04	50.06	10.20	20.00
525		16162	0.00	70.87	1,168.55	5.04	1.87	4.23	20.00
526		16168	0.00	64.38	1,168.58	5.04	-58.66	2.84	20.00
527		16178	0.00	75.93	1,168.87	5.04	41.60	6.68	20.00
528		16222	0.00	75.39	1,168.98	5.04	51.26	8.18	20.00
529		16230	0.02	70.24	1,168.97	5.04	-39.05	3.29	20.00
530		16234	0.00	66.81	1,168.50	5.04	-75.34	2.70	20.00
531		16238	0.00	69.76	1,168.48	5.04	2.19	4.22	20.00
532		16256	0.00	72.70	1,168.76	5.04	-30.08	3.47	20.00
533		16258	0.00	65.55	1,168.64	5.04	-62.92	2.82	20.00
534		16270	0.00	74.35	1,168.87	5.04	15.89	4.84	20.00
535		16272	0.02	66.71	1,168.63	5.04	-135.59	2.25	20.00
536		16276	0.02	65.73	1,168.58	5.04	-115.65	2.36	20.00
537		16280	0.02	61.13	1,168.54	5.04	-102.21	2.34	20.00
538		16282	0.00	63.18	1,168.55	5.04	-36.74	3.13	20.00
539		16288	0.00	84.29	1,169.53	5.04	-86.07	2.96	20.00
540		16318	0.00	72.38	1,170.60	5.04	23.52	5.24	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
541		16332	0.02	75.98	1,170.38	5.04	-92.93	2.77	20.00
542		16350	0.00	78.57	1,170.30	5.04	1.48	4.33	20.00
543		16352	0.00	76.52	1,170.39	5.04	-21.24	3.73	20.00
544		16354	0.00	70.04	1,170.82	5.04	65.29	22.49	20.00
545		16358	0.00	84.11	1,169.17	5.04	53.11	7.61	20.00
546		16370	0.00	85.04	1,169.18	5.04	-27.64	3.73	20.00
547		16414	0.00	83.09	1,169.24	5.04	-102.80	2.79	20.00
548		16416	0.00	82.89	1,169.24	5.04	-175.30	2.33	20.00
549		16426	0.00	84.09	1,169.18	5.04	-123.73	2.65	20.00
550		16434	0.02	73.81	1,169.72	5.04	-7.82	4.02	20.00
551		16438	0.00	71.23	1,169.78	5.04	62.72	15.27	20.00
552		16442	0.02	57.22	1,172.49	5.04	40.07	7.92	20.00
553		16448	0.02	53.76	1,172.37	5.04	26.84	5.76	20.00
554		16456	0.02	64.67	1,172.14	5.04	22.95	5.26	20.00
555		16468	0.02	63.48	1,171.50	5.04	-1.50	4.04	20.00
556		16478	0.02	55.40	1,172.33	5.04	6.98	4.24	20.00
557		16538	0.02	63.47	1,171.48	5.04	-48.74	2.99	20.00
558		16544	0.02	60.73	1,171.53	5.04	42.88	8.09	20.00
559		16556	0.02	59.50	1,172.33	5.04	-106.99	2.30	20.00
560		16562	0.02	58.07	1,172.03	5.04	-58.12	2.73	20.00
561		16564	0.00	71.16	1,169.87	5.04	56.86	10.57	20.00
562		16572	0.02	72.29	1,169.86	5.04	22.16	5.18	20.00
563		16592	0.14	62.98	1,169.73	5.04	29.94	6.01	20.00
564		16604	0.00	66.50	1,169.91	5.04	54.54	11.23	20.00
565		16614	0.02	54.79	1,170.37	5.04	50.37	19.53	20.00
566		16622	0.00	94.68	1,262.76	5.04	88.38	21.27	20.00
567		16642	0.07	91.94	1,107.19	5.04	85.48	20.64	20.00
568		16644	0.02	93.39	1,168.64	5.04	49.20	6.79	20.00
569		16650	0.02	83.11	1,168.66	5.04	55.16	8.22	20.00
570		16654	0.02	83.94	1,168.72	5.04	60.56	9.25	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
571		16658	0.00	78.81	1,168.89	5.04	62.06	10.81	20.00
572		16662	0.00	74.30	1,168.98	5.04	60.49	11.62	20.00
573		16678	0.03	96.90	1,168.64	5.04	36.17	5.81	20.00
574		16684	0.00	93.01	1,169.25	5.04	30.02	5.48	20.00
575		16692	0.05	89.32	1,171.13	5.04	48.99	6.91	20.00
576		16696	0.00	85.30	1,172.30	5.04	73.36	13.72	20.00
577		16698	0.00	82.50	1,172.42	5.04	74.92	19.87	20.00
578		1670	0.07	75.36	1,161.14	5.04	71.79	27.47	20.00
579		16702	0.00	85.09	1,106.38	5.04	73.16	13.20	20.00
580		16714	0.00	53.48	1,107.06	5.04	24.41	5.46	20.00
581		16724	0.00	49.07	1,107.06	5.04	15.52	4.65	20.00
582		16726	0.00	115.70	1,263.81	5.04	73.34	7.94	20.00
583		16736	0.00	100.08	1,263.91	5.04	82.12	11.61	20.00
584		1676	0.09	76.47	1,161.14	5.04	72.95	28.00	20.00
585		16760	0.02	75.62	1,172.27	5.04	67.86	22.74	20.00
586		16764	0.02	80.01	1,172.48	5.04	74.50	28.38	20.00
587		16770	0.00	80.57	1,172.61	5.04	75.33	25.51	20.00
588		16774	0.00	72.27	1,172.87	5.04	67.96	25.28	20.00
589		16778	0.02	69.00	1,173.94	5.04	68.13	83.23	20.01
590		16780	0.00	64.58	1,173.72	5.04	63.47	66.03	20.00
591		16890	0.02	56.26	1,086.25	5.04	36.18	10.52	20.00
592		16892	0.00	85.26	1,106.77	5.04	73.62	13.40	20.00
593		16898	0.02	97.11	1,168.64	5.04	25.12	5.26	20.00
594		16908	0.03	90.77	1,169.25	5.04	16.11	4.92	20.00
595		16914	0.02	81.73	1,172.36	5.04	58.91	8.89	20.00
596		16916	0.00	81.21	1,172.42	5.04	62.66	9.96	20.00
597		16954	0.00	72.05	1,171.07	5.04	68.71	30.85	20.00
598		16956	0.00	73.62	1,170.96	5.04	70.12	30.27	20.00
599		17028	0.05	82.45	1,172.26	5.04	58.89	8.87	20.00
600		17030	0.03	81.09	1,172.55	5.04	59.99	9.23	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
601	17032	0.02	77.86	1,172.61	5.04	57.05	9.00	20.00
602	17072	0.12	73.77	1,171.72	5.04	9.59	4.67	20.00
603	17080	0.12	72.19	1,171.60	5.04	-25.49	3.63	20.00
604	17094	0.03	75.09	1,171.73	5.04	3.56	4.37	20.00
605	17180	0.07	71.56	1,171.83	5.04	-5.32	4.08	20.00
606	17208	0.03	88.84	1,169.08	5.04	-208.03	2.28	20.00
607	17212	0.00	88.44	1,169.11	5.04	-66.52	3.19	20.00
608	17220	0.02	97.13	1,169.17	5.04	-70.78	3.29	20.00
609	17226	0.02	90.87	1,169.12	5.04	-25.15	3.84	20.00
610	17234	0.00	88.44	1,169.11	5.04	-54.86	3.33	20.00
611	1724	0.02	90.07	1,162.87	5.04	45.68	6.52	20.00
612	17242	0.00	88.44	1,169.10	5.04	-120.40	2.71	20.00
613	17246	0.00	71.77	1,170.30	5.04	3.22	3.78	20.00
614	17310	0.02	70.93	1,170.29	5.04	-126.57	2.26	20.00
615	17320	0.02	71.63	1,170.31	5.04	-111.18	2.36	20.00
616	17344	0.02	71.48	1,170.29	5.04	-3.74	3.62	20.00
617	17346	0.02	63.40	1,170.28	5.04	-126.98	2.09	20.00
618	17352	0.02	80.28	1,170.29	5.04	19.30	5.00	20.00
619	17354	0.00	74.00	1,170.32	5.04	19.93	5.03	20.00
620	1736	0.03	90.06	1,162.85	5.04	-52.36	3.44	20.00
621	17360	0.02	80.28	1,170.28	5.04	-43.33	3.13	20.00
622	17384	0.02	103.42	1,263.69	5.04	3.45	4.57	20.00
623	17388	0.00	100.85	1,263.67	5.04	-127.17	2.85	20.00
624	17396	0.02	112.67	1,263.76	5.04	42.05	5.88	20.00
625	17406	0.00	110.95	1,263.75	5.04	33.89	5.53	20.00
626	17412	0.00	103.76	1,263.71	5.04	5.88	4.62	20.00
627	17414	0.00	100.06	1,263.69	5.04	-7.97	4.27	20.00
628	17418	0.00	99.91	1,263.69	5.04	-80.50	3.22	20.00
629	1742	0.00	72.89	1,162.79	5.04	71.77	72.38	20.01
630	17432	0.02	91.85	1,263.67	5.04	-26.34	3.84	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
631		1746	0.02	72.08	1,162.84	5.04	57.71	10.31	20.00
632		17512	0.00	77.41	1,263.66	5.04	-181.87	2.19	20.00
633		17514	0.02	77.41	1,263.66	5.04	-182.40	2.21	20.00
634		17524	0.00	108.83	1,263.74	5.04	24.69	5.19	20.00
635		1758	0.00	72.56	1,162.80	5.04	-25.72	3.59	20.00
636		17598	0.00	116.45	1,263.76	5.04	-24.11	4.10	20.00
637		17600	0.02	106.17	1,263.69	5.04	-34.70	3.86	20.00
638		17602	0.00	109.19	1,263.74	5.04	-117.45	3.03	20.00
639		17606	0.02	93.23	1,263.71	5.04	-59.16	3.38	20.00
640		17612	0.02	82.55	1,263.67	5.04	-153.01	2.44	20.00
641		17616	0.02	95.94	1,263.67	5.04	-22.15	3.96	20.00
642		17620	0.00	77.05	1,263.66	5.04	-182.15	2.19	20.00
643		17622	0.00	77.01	1,263.66	5.04	-187.19	2.16	20.00
644		17626	0.00	90.85	1,263.67	5.04	-24.46	3.84	20.00
645		17634	0.00	77.09	1,263.66	5.04	-197.44	2.12	20.00
646		17638	0.00	67.99	1,263.66	5.04	-238.13	1.82	20.00
647		17666	0.02	76.64	1,172.40	5.04	47.42	7.41	20.00
648		17668	0.02	78.21	1,172.42	5.04	52.86	8.18	20.00
649		17690	0.03	73.39	1,172.28	5.04	28.92	5.63	20.00
650		17704	0.02	72.57	1,172.48	5.04	-107.52	2.57	20.00
651		17736	0.02	63.26	1,170.44	5.04	44.98	8.26	20.00
652		1774	0.02	72.68	1,162.80	5.04	63.72	13.57	20.00
653		17740	0.00	59.08	1,170.44	5.04	18.02	4.90	20.00
654		17744	0.00	57.49	1,170.44	5.04	-25.25	3.26	20.00
655		17752	0.00	57.01	1,170.44	5.04	-32.81	3.10	20.00
656		17756	0.00	59.43	1,170.44	5.04	-11.57	3.65	20.00
657		17762	0.02	62.17	1,170.44	5.04	-14.89	3.63	20.00
658		17776	0.02	65.36	1,170.44	5.04	-11.92	3.77	20.00
659		17818	0.00	83.53	1,172.30	5.04	62.40	9.45	20.00
660		17824	0.00	62.81	1,170.04	5.04	20.78	5.09	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
661		17838	0.00	58.91	1,170.12	5.04	34.87	6.64	20.00
662		17840	0.00	62.89	1,170.13	5.04	-30.76	3.28	20.00
663		17848	0.02	63.66	1,170.18	5.04	45.44	8.36	20.00
664		17866	0.00	54.33	1,170.38	5.04	42.65	9.45	20.00
665		17884	0.00	57.21	1,170.40	5.04	45.63	9.94	20.00
666		17886	0.00	56.95	1,170.39	5.04	38.82	7.56	20.00
667		17894	0.00	56.73	1,170.38	5.04	34.72	6.73	20.00
668		17946	0.14	59.60	1,169.73	5.04	24.59	5.55	20.00
669		17952	0.00	54.71	1,169.98	5.04	29.50	6.07	20.00
670		17958	0.02	69.64	1,085.72	5.04	-67.26	2.57	20.00
671		17962	0.02	63.45	1,085.87	5.04	-54.20	2.56	20.00
672		17964	0.02	65.37	1,085.87	5.04	-116.13	2.08	20.00
673		17966	0.02	69.23	1,085.93	5.04	-0.19	3.89	20.00
674		17984	0.00	82.74	1,172.30	5.04	65.54	10.63	20.00
675		17990	0.00	82.64	1,172.30	5.04	54.18	7.87	20.00
676		17994	0.00	80.89	1,172.30	5.04	48.51	7.19	20.00
677		18002	0.02	45.93	1,091.31	5.04	-19.81	2.56	20.00
678		18012	0.03	58.16	1,089.22	5.04	36.95	9.26	20.00
679		18016	0.02	64.29	1,088.03	5.04	38.48	8.63	20.00
680		18026	0.02	69.13	1,086.69	5.04	39.75	8.28	20.00
681		18050	0.02	67.60	1,086.84	5.04	-127.74	2.08	20.00
682		18072	0.02	69.50	1,086.69	5.04	-68.39	2.61	20.00
683		18076	0.02	69.64	1,086.14	5.04	-13.52	3.50	20.00
684		18106	0.02	59.28	1,086.00	5.04	-68.18	2.25	20.00
685		18108	0.00	61.09	1,086.00	5.04	-220.17	1.57	20.00
686		18118	0.00	66.92	1,086.00	5.04	-26.80	3.01	20.00
687		18122	0.00	71.08	1,086.00	5.04	-38.63	2.93	20.00
688		18128	0.00	69.76	1,086.00	5.04	-137.34	2.05	20.00
689		18136	0.00	61.09	1,086.00	5.04	-92.74	2.09	20.00
690		18146	0.00	68.34	1,086.35	5.04	38.53	8.06	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
691		18152	0.00	65.56	1,086.01	5.04	38.22	8.73	20.00
692		18172	0.02	69.64	1,086.02	5.04	10.71	4.42	20.00
693		18176	0.02	69.70	1,085.99	5.04	9.82	4.37	20.00
694		18186	0.05	69.68	1,085.94	5.04	-10.11	3.61	20.00
695		18202	0.02	69.19	1,085.87	5.04	-17.65	3.36	20.00
696		1822	0.17	67.54	1,160.85	5.04	25.01	5.54	20.00
697		18242	0.02	68.81	1,086.06	5.04	39.19	8.28	20.00
698		18246	0.00	65.45	1,086.06	5.04	35.77	7.76	20.00
699		18254	0.02	67.11	1,085.98	5.04	-17.56	3.31	20.00
700		18274	0.02	61.20	1,086.04	5.04	-34.29	2.80	20.00
701		18284	0.00	64.85	1,086.16	5.04	0.41	3.80	20.00
702		18288	0.00	69.88	1,086.26	5.04	12.80	4.53	20.00
703		18298	0.00	67.93	1,086.01	5.04	-11.14	3.48	20.00
704		1830	0.02	71.90	1,160.93	5.04	47.98	7.87	20.00
705		18302	0.02	65.24	1,085.98	5.04	-81.10	2.33	20.00
706		184	0.02	85.66	1,162.70	5.04	-25.73	3.80	20.00
707		1840	0.02	68.21	1,160.95	5.04	43.77	7.45	20.00
708		18402	0.02	72.96	1,085.73	5.04	-38.31	3.04	20.00
709		18410	0.03	77.95	1,085.72	5.04	-85.40	2.61	20.00
710		18416	0.03	69.67	1,085.80	5.04	-37.63	2.99	20.00
711		1842	0.00	71.92	1,160.99	5.04	48.15	7.86	20.00
712		1844	0.00	68.55	1,160.99	5.04	24.76	5.34	20.00
713		1846	0.00	71.95	1,161.06	5.04	31.29	5.78	20.00
714		18468	0.00	92.46	1,162.69	5.04	86.27	20.41	20.00
715		1848	0.02	68.63	1,161.06	5.04	48.27	8.29	20.00
716		18488	0.10	92.27	1,164.02	5.04	15.57	4.98	20.00
717		18530	0.00	88.02	1,164.06	5.04	21.33	5.09	20.00
718		18536	0.03	88.16	1,164.06	5.04	-5.18	4.28	20.00
719		18542	0.02	90.27	1,164.19	5.04	73.83	11.24	20.00
720		18594	0.02	88.88	1,164.02	5.04	71.86	10.89	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
721		18610	0.00	88.88	1,164.08	5.04	79.22	14.89	20.00
722		18630	0.02	86.24	1,164.04	5.04	62.43	8.85	20.00
723		18632	0.00	89.61	1,164.05	5.04	65.89	9.08	20.00
724		1866	0.00	72.92	1,163.28	5.04	-3.20	4.13	20.00
725		18666	0.00	88.08	1,164.08	5.04	77.70	14.23	20.00
726		18702	0.00	77.44	1,162.70	5.04	75.49	46.50	20.00
727		18706	0.00	77.27	1,162.43	5.04	60.34	9.96	20.00
728		18718	0.05	89.38	1,161.27	5.04	62.92	8.76	20.00
729		1872	0.00	81.03	1,162.87	5.04	-147.53	2.44	20.00
730		18720	0.00	89.38	1,161.27	5.04	63.16	8.76	20.00
731		18722	0.00	93.98	1,161.89	5.04	-95.18	3.03	20.00
732		18726	0.00	89.88	1,161.89	5.04	-12.67	4.09	20.00
733		18734	0.00	89.50	1,162.05	5.04	37.57	5.91	20.00
734		18744	0.00	87.41	1,161.73	5.04	73.79	12.33	20.00
735		18748	0.00	87.87	1,161.81	5.04	83.98	26.97	20.00
736		18756	0.00	84.66	1,161.67	5.04	-17.85	3.92	20.00
737		18766	0.00	85.94	1,161.68	5.04	9.54	4.65	20.00
738		18770	0.02	85.62	1,161.73	5.04	79.74	20.09	20.00
739		18772	0.00	85.30	1,161.67	5.04	17.41	4.93	20.00
740		18786	0.00	80.94	1,161.51	5.04	-136.42	2.53	20.00
741		18796	0.02	90.58	1,164.23	5.04	89.87	87.65	20.01
742		18818	0.00	90.56	1,164.01	5.04	63.91	8.57	20.00
743		18828	0.00	81.88	1,163.97	5.04	10.66	4.67	20.00
744		1884	0.00	81.36	1,162.87	5.04	-120.16	2.62	20.00
745		18842	0.00	76.89	1,162.46	5.04	58.65	9.46	20.00
746		1886	0.00	82.00	1,162.83	5.04	-144.23	2.47	20.00
747		1888	0.00	81.59	1,162.83	5.04	-116.38	2.65	20.00
748		18880	0.00	67.45	1,160.68	5.04	59.36	14.91	20.00
749		18900	0.00	82.37	1,163.20	5.04	81.44	88.89	20.01
750		18902	0.02	72.76	1,162.92	5.04	70.93	47.19	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
751		18920	0.00	86.35	1,161.33	5.04	56.07	7.86	20.00
752		18924	0.00	85.85	1,161.20	5.04	20.97	5.08	20.00
753		18928	0.00	86.31	1,161.34	5.04	58.97	8.34	20.00
754		18932	0.00	85.10	1,161.39	5.04	57.99	8.28	20.00
755		18942	0.02	83.53	1,161.28	5.04	72.64	14.41	20.00
756		18952	0.00	79.88	1,161.52	5.04	33.74	5.83	20.00
757		18956	0.02	85.10	1,161.40	5.04	56.98	8.12	20.00
758		1896	0.10	82.54	1,162.75	5.04	-51.14	3.40	20.00
759		18968	0.00	85.09	1,161.37	5.04	56.28	7.99	20.00
760		18986	0.00	85.09	1,161.37	5.04	74.08	14.43	20.00
761		19044	0.00	85.06	1,161.30	5.04	57.78	8.25	20.00
762		19054	0.03	86.10	1,161.18	5.04	-59.44	3.29	20.00
763		19070	0.24	76.94	1,161.54	5.04	5.22	4.65	20.00
764		1908	0.00	82.82	1,162.99	5.04	7.33	4.55	20.00
765		19094	0.24	80.45	1,160.90	5.04	25.77	5.58	20.00
766		19152	0.02	76.04	1,162.39	5.04	50.91	7.87	20.00
767		19170	0.03	72.59	1,162.54	5.04	20.73	5.11	20.00
768		19224	0.00	75.93	1,162.38	5.04	73.24	33.18	20.00
769		19238	0.00	76.18	1,162.68	5.04	72.10	23.84	20.00
770		19244	0.00	79.06	1,098.60	5.04	71.12	16.31	20.00
771		19262	0.02	98.96	1,162.35	5.04	94.17	25.28	20.00
772		19284	0.02	79.79	1,098.55	5.04	-28.79	3.64	20.00
773		19286	0.02	78.63	1,098.54	5.04	-172.26	2.29	20.00
774		19294	0.05	75.31	1,098.80	5.04	73.07	38.02	20.00
775		19302	0.07	70.41	1,097.49	5.04	67.86	39.56	20.00
776		19310	0.03	78.94	1,098.60	5.04	70.88	16.17	20.00
777		19358	0.00	81.26	1,163.23	5.04	42.21	6.46	20.00
778		19360	0.00	76.94	1,163.31	5.04	59.06	9.61	20.00
779		19362	0.00	81.57	1,163.24	5.04	58.94	8.78	20.00
780		19388	0.00	76.66	1,163.34	5.04	45.17	6.96	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
781		19408	0.00	81.57	1,163.24	5.04	-3.89	4.21	20.00
782		19446	0.00	72.94	1,163.33	5.04	60.18	11.20	20.00
783		19448	0.00	77.44	1,163.27	5.04	57.45	9.06	20.00
784		19458	0.00	77.42	1,163.23	5.04	53.58	8.20	20.00
785		19460	0.00	81.56	1,163.24	5.04	58.47	8.68	20.00
786		19486	0.00	80.81	1,164.92	5.04	80.68	228.58	20.05
787		19488	0.00	79.31	1,164.93	5.04	79.19	237.51	20.06
788		19496	0.00	73.34	1,164.26	5.04	72.38	74.87	20.01
789		1952	0.03	83.72	1,162.73	5.04	-121.74	2.66	20.00
790		19528	0.00	76.79	1,162.23	5.04	62.53	10.97	20.00
791		19534	0.37	76.00	1,160.40	5.04	68.38	18.16	20.00
792		19552	0.00	67.45	1,160.68	5.04	59.27	14.79	20.00
793		19556	0.00	76.89	1,162.45	5.04	59.83	9.88	20.00
794		1958	0.07	84.40	1,162.74	5.04	-83.63	3.02	20.00
795		19580	0.00	73.14	1,162.45	5.04	57.86	10.14	20.00
796		19588	0.02	72.75	1,162.89	5.04	39.43	6.51	20.00
797		19610	0.02	76.44	1,162.68	5.04	57.44	9.27	20.00
798		19620	0.00	72.87	1,163.18	5.04	71.17	50.68	20.00
799		19636	0.02	76.56	1,162.70	5.04	72.14	22.64	20.00
800		19648	0.02	72.72	1,162.82	5.04	70.83	45.59	20.00
801		19698	0.00	78.34	1,162.42	5.04	51.52	7.76	20.00
802		19702	0.00	77.81	1,162.34	5.04	28.46	5.50	20.00
803		19706	0.00	81.14	1,162.27	5.04	13.99	4.79	20.00
804		19716	0.00	78.83	1,162.33	5.04	47.63	7.17	20.00
805		19720	0.00	79.47	1,162.24	5.04	45.20	6.85	20.00
806		19722	0.02	76.95	1,162.35	5.04	-87.88	2.84	20.00
807		19724	0.00	79.66	1,162.15	5.04	45.47	6.87	20.00
808		19728	0.00	77.70	1,162.36	5.04	33.81	5.86	20.00
809		19730	0.00	79.01	1,162.24	5.04	-1,301.20	0.92	20.00
810		19732	0.00	78.73	1,162.27	5.04	-1,521.75	0.84	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
811		19746	0.41	75.94	1,160.26	5.04	59.30	10.84	20.00
812		19776	0.00	77.26	1,162.44	5.04	45.49	6.98	20.00
813		19778	0.00	77.19	1,162.44	5.04	58.81	9.49	20.00
814		19826	0.00	77.51	1,162.68	5.04	61.24	10.17	20.00
815		19834	0.00	72.94	1,163.34	5.04	-45.37	3.25	20.00
816		19836	0.02	76.74	1,163.34	5.04	1.05	4.32	20.00
817		19844	0.00	78.56	1,163.33	5.04	53.32	8.03	20.00
818		19854	0.17	88.77	1,163.21	5.04	74.01	12.19	20.00
819		19856	0.26	79.54	1,160.71	5.04	76.07	31.36	20.00
820		1986	0.03	82.47	1,163.04	5.04	-108.31	2.76	20.00
821		19860	0.07	79.02	1,160.71	5.04	75.41	29.73	20.00
822		19868	0.20	87.57	1,161.81	5.04	83.92	29.06	20.00
823		19880	0.17	91.17	1,162.61	5.04	87.53	29.48	20.00
824		19888	0.22	89.46	1,162.03	5.04	71.90	11.21	20.00
825		19900	0.10	87.36	1,161.71	5.04	70.69	11.14	20.00
826		19902	0.07	86.50	1,161.65	5.04	83.47	33.47	20.00
827		19908	0.03	76.13	1,160.71	5.04	58.52	9.72	20.00
828		19934	0.05	81.13	1,102.06	5.04	79.39	49.52	20.00
829		19948	0.00	83.63	1,107.97	5.04	82.01	50.25	20.00
830		1996	0.02	85.22	1,163.05	5.04	-83.85	3.00	20.00
831		19962	0.00	84.64	1,107.94	5.04	82.57	42.49	20.00
832		19972	0.12	78.57	1,101.87	5.04	76.21	36.92	20.00
833		19976	0.05	81.90	1,108.00	5.04	81.27	148.77	20.02
834		19990	0.00	85.79	1,163.97	5.04	85.01	77.62	20.01
835		20004	0.00	90.58	1,164.05	5.04	89.79	79.24	20.01
836		20006	0.00	86.80	1,164.03	5.04	86.01	76.93	20.01
837		20014	0.00	84.50	1,163.89	5.04	83.74	80.58	20.01
838		2002	0.00	84.34	1,163.11	5.04	22.06	5.13	20.00
839		20020	0.15	81.63	1,163.85	5.04	80.65	60.82	20.00
840		20028	0.09	83.70	1,163.84	5.04	82.97	84.86	20.01

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
841		20030	0.00	85.46	1,163.97	5.04	75.12	13.97	20.00
842		20034	0.02	88.23	1,164.00	5.04	71.70	11.02	20.00
843		20038	0.00	83.76	1,163.86	5.04	18.30	4.97	20.00
844		20050	0.00	85.10	1,163.97	5.04	65.17	9.65	20.00
845		20052	0.00	85.89	1,163.97	5.04	21.06	5.08	20.00
846		20060	0.02	85.55	1,163.98	5.04	68.19	10.50	20.00
847		20076	0.00	84.82	1,163.88	5.04	64.93	9.64	20.00
848		20086	0.00	87.87	1,164.00	5.04	49.02	6.83	20.00
849		20090	0.00	86.11	1,163.97	5.04	76.86	14.93	20.00
850		20104	0.05	87.08	1,163.96	5.04	26.53	5.38	20.00
851		20118	0.02	86.78	1,163.98	5.04	66.99	9.85	20.00
852		20156	0.02	85.61	1,163.88	5.04	15.07	4.86	20.00
853		20158	0.03	84.63	1,163.87	5.04	17.87	4.99	20.00
854		20176	0.00	86.57	1,164.00	5.04	52.98	7.31	20.00
855		202	0.00	85.69	1,162.70	5.04	0.94	4.39	20.00
856		20222	0.02	84.98	1,163.97	5.04	63.04	9.17	20.00
857		20256	0.00	83.62	1,163.86	5.04	8.23	4.59	20.00
858		20260	0.02	83.17	1,163.86	5.04	7.33	4.58	20.00
859		20264	0.00	83.37	1,163.86	5.04	16.64	4.90	20.00
860		20274	0.00	84.08	1,163.87	5.04	20.21	5.05	20.00
861		20286	0.02	82.63	1,163.86	5.04	-9.82	4.09	20.00
862		20290	0.00	84.20	1,163.88	5.04	68.19	10.81	20.00
863		20326	0.00	84.38	1,163.89	5.04	77.16	16.91	20.00
864		20344	0.00	86.98	1,164.05	5.04	4.32	4.50	20.00
865		20350	0.00	88.53	1,164.12	5.04	87.77	80.41	20.01
866		20410	0.00	82.38	1,163.16	5.04	81.35	79.95	20.01
867		20414	0.02	84.67	1,163.04	5.04	82.55	39.65	20.00
868		20418	0.00	90.06	1,163.06	5.04	87.72	38.41	20.00
869		20422	0.00	92.87	1,163.20	5.04	91.90	92.92	20.01
870		20428	0.00	92.96	1,163.21	5.04	91.99	92.21	20.01

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
871		20440	0.00	92.83	1,163.44	5.04	91.82	79.23	20.01
872		20482	0.02	95.47	1,164.54	5.04	95.18	210.56	20.05
873		2050	0.00	81.49	1,163.06	5.04	-13.30	3.97	20.00
874		20510	0.00	93.06	1,163.19	5.04	91.85	71.49	20.01
875		20512	0.00	94.66	1,163.32	5.04	93.66	85.15	20.01
876		20514	0.00	94.05	1,163.29	5.04	93.06	86.60	20.01
877		20518	0.00	75.79	1,162.52	5.04	-24.79	3.65	20.00
878		20522	0.00	74.98	1,162.52	5.04	16.44	4.87	20.00
879		20526	0.00	75.42	1,162.52	5.04	15.80	4.84	20.00
880		20532	0.00	75.68	1,162.52	5.04	31.71	5.74	20.00
881		20534	0.00	76.02	1,162.53	5.04	-9.97	3.99	20.00
882		20536	0.02	75.90	1,162.53	5.04	-118.15	2.57	20.00
883		20540	0.00	76.07	1,162.54	5.04	8.32	4.54	20.00
884		20542	0.00	76.76	1,162.54	5.04	-24.67	3.67	20.00
885		20546	0.00	76.44	1,162.54	5.04	-10.03	3.99	20.00
886		20548	0.02	76.39	1,162.53	5.04	-109.58	2.65	20.00
887		20554	0.00	76.57	1,162.54	5.04	8.74	4.56	20.00
888		20556	0.00	77.05	1,162.55	5.04	-22.89	3.71	20.00
889		20564	0.00	76.79	1,162.55	5.04	28.24	5.49	20.00
890		20568	0.00	76.33	1,162.54	5.04	28.11	5.49	20.00
891		20574	0.00	72.59	1,162.52	5.04	31.90	5.81	20.00
892		20580	0.02	73.93	1,162.51	5.04	-7.59	4.04	20.00
893		20582	0.00	74.74	1,162.52	5.04	46.38	7.25	20.00
894		20590	0.02	73.37	1,162.51	5.04	-6.40	4.06	20.00
895		20598	0.02	72.76	1,162.45	5.04	-2.43	4.17	20.00
896		20606	0.00	72.28	1,162.45	5.04	-2.41	4.15	20.00
897		20610	0.00	74.16	1,162.52	5.04	53.37	8.56	20.00
898		20620	0.02	74.71	1,162.51	5.04	-24.23	3.66	20.00
899		20626	0.02	75.32	1,162.51	5.04	-23.18	3.69	20.00
900		20630	0.00	76.18	1,162.52	5.04	-26.20	3.63	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
901		20652	0.00	75.83	1,162.52	5.04	30.38	5.64	20.00
902		20654	0.00	76.23	1,162.53	5.04	28.39	5.51	20.00
903		20664	0.00	74.29	1,162.51	5.04	31.94	5.78	20.00
904		20668	0.00	75.40	1,162.52	5.04	-11.21	3.95	20.00
905		20676	0.00	73.69	1,162.51	5.04	34.41	5.98	20.00
906		20692	0.00	73.71	1,162.46	5.04	4.66	4.40	20.00
907		20700	0.00	73.17	1,162.44	5.04	-3.34	4.13	20.00
908		20706	0.00	76.91	1,162.50	5.04	55.76	8.71	20.00
909		20710	0.00	77.08	1,162.89	5.04	74.86	34.32	20.00
910		2076	0.00	77.15	1,163.28	5.04	13.80	4.77	20.00
911		20760	0.02	72.74	1,162.88	5.04	15.56	4.84	20.00
912		20770	0.00	73.82	1,162.91	5.04	71.83	35.91	20.00
913		20778	0.00	77.08	1,162.89	5.04	-16.82	3.85	20.00
914		20780	0.00	73.41	1,162.89	5.04	-89.21	2.76	20.00
915		20782	0.00	74.17	1,162.85	5.04	3.00	4.35	20.00
916		20784	0.00	74.09	1,162.85	5.04	-69.58	2.97	20.00
917		20786	0.00	75.05	1,162.76	5.04	13.89	4.76	20.00
918		20790	0.00	74.99	1,162.76	5.04	58.96	9.94	20.00
919		20792	0.00	74.20	1,162.82	5.04	55.10	8.93	20.00
920		20804	0.00	73.10	1,163.00	5.04	72.11	73.80	20.01
921		20806	0.00	73.48	1,162.98	5.04	72.21	53.50	20.00
922		20808	0.00	73.51	1,162.98	5.04	72.22	52.83	20.00
923		20810	0.00	73.75	1,162.94	5.04	-27.33	3.58	20.00
924		20814	0.00	73.69	1,162.94	5.04	-109.80	2.59	20.00
925		20816	0.00	73.96	1,162.92	5.04	-3.30	4.15	20.00
926		20818	0.00	77.09	1,162.92	5.04	-82.59	2.89	20.00
927		20820	0.00	74.85	1,162.89	5.04	32.15	5.78	20.00
928		20832	0.00	76.32	1,162.75	5.04	54.52	8.48	20.00
929		20864	0.00	76.86	1,162.84	5.04	74.29	30.92	20.00
930		20870	0.00	72.72	1,162.82	5.04	70.03	28.75	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
931		20898	0.00	72.69	1,162.75	5.04	49.70	7.94	20.00
932		20902	0.00	75.73	1,162.76	5.04	56.82	9.13	20.00
933		20916	0.00	77.02	1,162.76	5.04	10.39	4.63	20.00
934		20918	0.00	75.68	1,162.75	5.04	5.19	4.43	20.00
935		20920	0.00	75.93	1,162.75	5.04	9.06	4.57	20.00
936		20922	0.00	76.11	1,162.75	5.04	5.12	4.44	20.00
937		20932	0.00	75.51	1,162.86	5.04	73.14	32.21	20.00
938		20934	0.00	75.90	1,162.84	5.04	32.32	5.77	20.00
939		20994	0.00	77.23	1,162.73	5.04	56.81	8.88	20.00
940		20996	0.00	77.28	1,162.78	5.04	74.37	28.62	20.00
941		20998	0.00	76.92	1,162.80	5.04	29.65	5.58	20.00
942		21000	0.00	76.73	1,162.74	5.04	53.08	8.14	20.00
943		21002	0.00	76.52	1,162.74	5.04	5.14	4.44	20.00
944		21004	0.00	76.92	1,162.73	5.04	8.87	4.57	20.00
945		21006	0.00	76.94	1,162.74	5.04	7.85	4.54	20.00
946		21010	0.00	76.82	1,162.80	5.04	74.00	29.03	20.00
947		21012	0.00	77.84	1,162.77	5.04	74.85	28.31	20.00
948		21014	0.02	76.42	1,162.80	5.04	21.92	5.15	20.00
949		21016	0.02	81.37	1,162.78	5.04	26.11	5.35	20.00
950		21018	0.00	81.36	1,162.77	5.04	26.35	5.35	20.00
951		21024	0.00	80.77	1,162.69	5.04	78.16	32.82	20.00
952		21108	0.00	78.44	1,162.69	5.04	25.73	5.33	20.00
953		21112	0.00	77.51	1,162.69	5.04	24.91	5.29	20.00
954		21114	0.00	77.69	1,162.70	5.04	56.34	8.71	20.00
955		21116	0.00	77.97	1,162.68	5.04	56.61	8.73	20.00
956		21120	0.00	77.24	1,162.70	5.04	8.15	4.55	20.00
957		21122	0.00	77.73	1,162.69	5.04	8.02	4.55	20.00
958		21124	0.00	78.27	1,162.69	5.04	56.08	8.57	20.00
959		21128	0.00	79.73	1,162.69	5.04	5.12	4.47	20.00
960		21130	0.00	78.66	1,162.69	5.04	55.56	8.41	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
961		21132	0.00	78.05	1,162.69	5.04	8.46	4.57	20.00
962		21136	0.00	81.34	1,162.73	5.04	33.52	5.77	20.00
963		21138	0.00	78.62	1,162.75	5.04	75.61	28.44	20.00
964		21140	0.00	79.16	1,162.74	5.04	76.15	28.62	20.00
965		21142	0.00	79.69	1,162.73	5.04	76.67	28.76	20.00
966		21144	0.00	79.74	1,162.73	5.04	25.27	5.30	20.00
967		21146	0.02	79.16	1,162.74	5.04	23.07	5.21	20.00
968		21148	0.00	78.58	1,162.75	5.04	23.82	5.23	20.00
969		21150	0.02	81.36	1,162.76	5.04	76.66	21.72	20.00
970		21154	0.00	76.99	1,162.68	5.04	19.09	5.00	20.00
971		21156	0.00	78.71	1,162.68	5.04	-50.97	3.28	20.00
972		21162	0.00	79.73	1,162.68	5.04	19.13	5.00	20.00
973		21174	0.00	78.49	1,162.69	5.04	17.81	4.94	20.00
974		21178	0.00	81.32	1,162.68	5.04	20.07	5.04	20.00
975		21196	0.00	77.01	1,162.72	5.04	44.15	6.81	20.00
976		21206	0.00	77.00	1,162.71	5.04	36.10	6.04	20.00
977		21210	0.00	80.76	1,162.70	5.04	39.91	6.26	20.00
978		21218	0.00	77.00	1,162.70	5.04	55.19	8.55	20.00
979		21222	0.00	81.39	1,162.69	5.04	54.15	7.87	20.00
980		21250	0.00	78.30	1,162.69	5.04	-53.62	3.24	20.00
981		21252	0.00	78.95	1,162.69	5.04	51.20	7.62	20.00
982		21254	0.00	78.55	1,162.68	5.04	-53.95	3.24	20.00
983		21256	0.00	79.20	1,162.68	5.04	50.87	7.55	20.00
984		21258	0.00	76.99	1,162.68	5.04	-55.38	3.19	20.00
985		21262	0.00	77.01	1,162.72	5.04	-27.61	3.63	20.00
986		21264	0.00	79.97	1,162.72	5.04	76.97	29.09	20.00
987		21266	0.00	80.36	1,162.71	5.04	77.43	29.76	20.00
988		21268	0.02	80.58	1,162.71	5.04	14.20	4.81	20.00
989		21270	0.00	81.30	1,162.71	5.04	-22.44	3.79	20.00
990		21272	0.00	80.94	1,162.70	5.04	-12.65	3.99	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
991		21274	0.00	77.00	1,162.70	5.04	74.13	29.33	20.00
992		21276	0.00	81.12	1,162.69	5.04	-17.58	3.89	20.00
993		21278	0.00	76.99	1,162.69	5.04	74.23	30.22	20.00
994		21280	0.00	82.00	1,162.70	5.04	-20.72	3.83	20.00
995		21282	0.02	81.21	1,162.69	5.04	15.65	4.87	20.00
996		21284	0.00	81.42	1,162.68	5.04	-79.26	2.99	20.00
997		21286	0.00	81.43	1,162.68	5.04	3.81	4.44	20.00
998		21288	0.00	81.08	1,162.68	5.04	-20.05	3.83	20.00
999		21290	0.00	81.83	1,162.68	5.04	-100.06	2.81	20.00
1000		21294	0.00	79.91	1,162.68	5.04	43.36	6.61	20.00
1001		21298	0.00	79.29	1,162.67	5.04	18.77	4.98	20.00
1002		21302	0.00	80.12	1,162.68	5.04	31.55	5.66	20.00
1003		21308	0.00	79.50	1,162.68	5.04	54.53	8.13	20.00
1004		21312	0.00	79.83	1,162.68	5.04	52.45	7.75	20.00
1005		21318	0.00	80.51	1,162.67	5.04	27.05	5.39	20.00
1006		21322	0.00	79.69	1,162.67	5.04	20.97	5.09	20.00
1007		21328	0.00	80.12	1,162.67	5.04	54.53	8.07	20.00
1008		21336	0.00	80.15	1,162.67	5.04	-4.08	4.19	20.00
1009		21344	0.00	76.98	1,162.67	5.04	-26.95	3.63	20.00
1010		21348	0.00	81.46	1,162.67	5.04	79.48	42.38	20.00
1011		21358	0.00	81.15	1,162.68	5.04	78.91	37.65	20.00
1012		21364	0.00	80.48	1,162.67	5.04	61.34	9.52	20.00
1013		21366	0.00	76.98	1,162.67	5.04	-74.76	2.96	20.00
1014		21368	0.02	80.48	1,162.66	5.04	-107.98	2.73	20.00
1015		21370	0.02	79.12	1,162.67	5.04	-52.28	3.28	20.00
1016		21372	0.02	79.54	1,162.67	5.04	-50.87	3.30	20.00
1017		21374	0.00	80.36	1,162.68	5.04	-39.98	3.46	20.00
1018		21376	0.00	80.71	1,162.67	5.04	-38.68	3.49	20.00
1019		21392	0.00	81.55	1,162.66	5.04	79.88	50.61	20.00
1020		21406	0.00	98.65	1,162.67	5.04	93.38	23.53	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1021		21410	0.00	93.44	1,162.79	5.04	76.80	11.44	20.00
1022		21414	0.00	95.39	1,162.79	5.04	81.67	12.94	20.00
1023		21438	0.00	94.06	1,162.69	5.04	88.74	22.62	20.00
1024		21444	0.00	103.03	1,162.79	5.04	99.50	31.36	20.00
1025		21450	0.00	94.14	1,162.74	5.04	84.89	16.12	20.00
1026		21454	0.00	94.78	1,162.76	5.04	81.05	12.88	20.00
1027		21458	0.00	94.42	1,162.90	5.04	91.46	33.19	20.00
1028		21468	0.00	95.26	1,162.69	5.04	15.22	4.87	20.00
1029		21474	0.00	98.67	1,162.71	5.04	30.90	5.47	20.00
1030		21494	0.00	98.67	1,162.73	5.04	53.99	6.86	20.00
1031		21498	0.00	94.33	1,162.70	5.04	-167.32	2.55	20.00
1032		21500	0.00	97.49	1,162.70	5.04	-47.72	3.58	20.00
1033		21502	0.02	96.53	1,162.69	5.04	-20.60	4.01	20.00
1034		21508	0.00	95.01	1,162.69	5.04	50.13	6.67	20.00
1035		21522	0.00	93.72	1,162.78	5.04	23.10	5.16	20.00
1036		21524	0.00	95.16	1,162.79	5.04	52.72	6.89	20.00
1037		21546	0.00	93.90	1,162.79	5.04	54.97	7.16	20.00
1038		21566	0.02	95.43	1,162.78	5.04	0.66	4.47	20.00
1039		21590	0.00	95.44	1,162.64	5.04	90.82	25.01	20.00
1040		21592	0.00	96.89	1,162.63	5.04	93.29	29.99	20.00
1041		21618	0.00	94.44	1,162.71	5.04	-56.98	3.43	20.00
1042		21630	0.07	78.20	1,098.45	5.04	63.94	11.44	20.00
1043		21636	0.03	78.37	1,098.47	5.04	68.85	14.65	20.00
1044		2166	0.02	83.56	1,163.02	5.04	-64.66	3.17	20.00
1045		21662	0.00	76.05	1,161.11	5.04	23.85	5.24	20.00
1046		21710	0.02	76.22	1,161.14	5.04	22.72	5.20	20.00
1047		21726	0.00	75.97	1,161.13	5.04	-56.63	3.15	20.00
1048		21730	0.00	76.34	1,161.13	5.04	66.89	14.17	20.00
1049		2174	0.03	82.26	1,163.01	5.04	-78.94	3.01	20.00
1050		21742	0.00	75.48	1,161.12	5.04	-60.26	3.09	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1051		21746	0.00	75.87	1,161.12	5.04	63.53	11.99	20.00
1052		21750	0.02	76.49	1,161.10	5.04	-114.16	2.61	20.00
1053		21758	0.00	75.49	1,161.11	5.04	60.04	10.46	20.00
1054		21768	0.03	74.09	1,160.82	5.04	-85.48	2.79	20.00
1055		21770	0.05	73.55	1,160.81	5.04	-123.01	2.49	20.00
1056		21776	0.07	71.97	1,161.11	5.04	54.83	9.54	20.00
1057		21784	0.00	76.11	1,161.14	5.04	69.55	17.81	20.00
1058		21786	0.00	76.44	1,161.15	5.04	71.77	22.54	20.00
1059		21794	0.02	74.06	1,160.83	5.04	-138.48	2.37	20.00
1060		21798	0.02	74.43	1,160.83	5.04	-103.12	2.63	20.00
1061		21814	0.02	75.10	1,161.15	5.04	37.69	6.26	20.00
1062		21816	0.02	71.99	1,161.14	5.04	69.73	41.90	20.00
1063		21824	0.00	76.54	1,161.17	5.04	74.50	48.07	20.00
1064		21826	0.00	72.03	1,161.23	5.04	70.08	47.35	20.00
1065		21834	0.02	74.99	1,161.13	5.04	72.72	43.05	20.00
1066		21872	0.00	82.07	1,161.46	5.04	-14.16	3.97	20.00
1067		21876	0.00	81.74	1,161.46	5.04	-68.28	3.11	20.00
1068		2188	0.02	82.63	1,163.01	5.04	-117.52	2.67	20.00
1069		21880	0.00	81.16	1,161.46	5.04	-78.75	2.99	20.00
1070		21884	0.00	81.34	1,161.46	5.04	-41.38	3.46	20.00
1071		21888	0.00	80.77	1,161.46	5.04	11.42	4.69	20.00
1072		21892	0.00	80.93	1,161.38	5.04	-20.05	3.83	20.00
1073		21896	0.00	81.54	1,161.35	5.04	-6.68	4.14	20.00
1074		21900	0.00	81.54	1,161.35	5.04	4.64	4.46	20.00
1075		21902	0.00	81.87	1,161.34	5.04	37.22	6.03	20.00
1076		21906	0.00	82.11	1,161.43	5.04	-2.83	4.25	20.00
1077		21910	0.00	83.75	1,161.77	5.04	78.53	21.21	20.00
1078		21918	0.00	84.00	1,161.92	5.04	29.56	5.50	20.00
1079		21926	0.00	83.34	1,161.69	5.04	27.24	5.39	20.00
1080		21930	0.00	82.62	1,161.81	5.04	-28.87	3.68	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1081		21934	0.00	82.45	1,161.82	5.04	-35.40	3.57	20.00
1082		21938	0.00	82.73	1,161.83	5.04	20.78	5.07	20.00
1083		21942	0.00	83.44	1,161.87	5.04	77.65	19.73	20.00
1084		21944	0.00	83.81	1,161.70	5.04	79.12	22.87	20.00
1085		21972	0.00	85.21	1,161.71	5.04	-17.00	3.95	20.00
1086		21988	0.00	85.28	1,161.68	5.04	-120.79	2.70	20.00
1087		21990	0.00	85.26	1,161.68	5.04	-11.11	4.08	20.00
1088		21996	0.00	80.88	1,161.66	5.04	24.92	5.28	20.00
1089		22000	0.00	85.63	1,161.71	5.04	10.70	4.69	20.00
1090		22002	0.00	85.76	1,161.71	5.04	33.80	5.73	20.00
1091		22030	0.00	80.85	1,161.51	5.04	0.54	4.33	20.00
1092		22052	0.00	80.85	1,161.51	5.04	21.72	5.12	20.00
1093		2206	0.02	82.35	1,163.12	5.04	16.33	4.90	20.00
1094		22066	0.00	81.26	1,161.46	5.04	-70.92	3.07	20.00
1095		22068	0.00	81.10	1,161.46	5.04	-80.88	2.97	20.00
1096		22070	0.00	81.30	1,161.46	5.04	-53.73	3.28	20.00
1097		22074	0.02	80.97	1,161.37	5.04	-19.08	3.86	20.00
1098		22078	0.00	80.92	1,161.40	5.04	-19.82	3.83	20.00
1099		22082	0.00	80.74	1,161.48	5.04	12.85	4.74	20.00
1100		22084	0.00	80.85	1,161.51	5.04	-20.78	3.81	20.00
1101		22086	0.00	81.39	1,161.35	5.04	-134.34	2.55	20.00
1102		22096	0.00	82.11	1,161.42	5.04	-1.91	4.27	20.00
1103		22098	0.00	82.10	1,161.46	5.04	-1.49	4.29	20.00
1104		22100	0.00	81.58	1,161.46	5.04	-77.06	3.01	20.00
1105		22102	0.00	85.12	1,161.46	5.04	-61.15	3.25	20.00
1106		22104	0.00	82.71	1,161.51	5.04	-32.16	3.63	20.00
1107		22106	0.00	82.78	1,161.54	5.04	-39.67	3.50	20.00
1108		22116	0.00	83.35	1,161.70	5.04	38.89	6.12	20.00
1109		22118	0.00	83.45	1,161.65	5.04	-10.13	4.08	20.00
1110		22120	0.00	83.10	1,161.80	5.04	14.33	4.81	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1111		22126	0.00	82.49	1,161.81	5.04	-34.20	3.59	20.00
1112		22128	0.00	82.24	1,161.82	5.04	-30.41	3.65	20.00
1113		22132	0.00	83.36	1,162.05	5.04	77.46	19.41	20.00
1114		22134	0.00	83.64	1,161.98	5.04	77.81	19.64	20.00
1115		22138	0.00	84.19	1,161.88	5.04	21.18	5.09	20.00
1116		22140	0.00	84.23	1,161.87	5.04	21.13	5.09	20.00
1117		22150	0.00	83.63	1,161.82	5.04	78.01	20.16	20.00
1118		22152	0.03	93.89	1,161.69	5.04	66.36	8.76	20.00
1119		22156	0.00	87.91	1,161.73	5.04	-48.25	3.45	20.00
1120		2216	0.00	80.17	1,163.15	5.04	-107.52	2.71	20.00
1121		22170	0.02	87.24	1,161.75	5.04	82.96	25.32	20.00
1122		22176	0.00	87.75	1,161.72	5.04	67.26	9.79	20.00
1123		22178	0.00	87.18	1,161.69	5.04	40.36	6.14	20.00
1124		22186	0.00	89.47	1,161.69	5.04	60.33	8.16	20.00
1125		22196	0.00	88.91	1,161.67	5.04	58.28	7.90	20.00
1126		22204	0.05	89.43	1,161.65	5.04	64.18	8.92	20.00
1127		2224	0.00	80.09	1,163.15	5.04	-78.11	2.97	20.00
1128		22244	0.00	88.78	1,161.69	5.04	65.70	9.25	20.00
1129		22268	0.00	86.96	1,161.72	5.04	-73.19	3.14	20.00
1130		22274	0.00	85.23	1,161.70	5.04	64.30	9.48	20.00
1131		22300	0.00	85.23	1,161.69	5.04	-12.77	4.04	20.00
1132		22312	0.00	87.20	1,161.97	5.04	-103.33	2.86	20.00
1133		22318	0.00	87.52	1,161.96	5.04	18.12	4.97	20.00
1134		22326	0.00	87.66	1,161.98	5.04	6.11	4.55	20.00
1135		22334	0.00	86.60	1,161.87	5.04	42.65	6.32	20.00
1136		22338	0.00	86.44	1,161.77	5.04	81.00	21.23	20.00
1137		2236	0.02	81.52	1,163.14	5.04	-31.06	3.64	20.00
1138		22364	0.00	85.39	1,162.07	5.04	38.43	6.04	20.00
1139		22368	0.00	87.57	1,161.97	5.04	-13.43	4.05	20.00
1140		22404	0.02	89.83	1,161.83	5.04	24.44	5.24	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1141		2242	0.00	79.82	1,163.15	5.04	-56.06	3.22	20.00
1142		22458	0.12	81.94	1,161.95	5.04	80.00	44.52	20.00
1143		22524	0.00	86.32	1,161.60	5.04	83.72	38.51	20.00
1144		22526	0.07	89.82	1,161.70	5.04	85.90	27.70	20.00
1145		22540	0.22	82.23	1,161.86	5.04	80.18	43.21	20.00
1146		22550	0.00	81.75	1,163.26	5.04	76.92	21.17	20.00
1147		22554	0.02	82.44	1,163.26	5.04	-2.65	4.28	20.00
1148		22558	0.00	81.77	1,163.26	5.04	76.63	20.40	20.00
1149		22580	0.37	76.23	1,161.21	5.04	72.15	25.27	20.00
1150		22592	0.20	76.38	1,161.21	5.04	71.68	22.70	20.00
1151		22602	0.00	35.56	1,107.06	5.04	-32.76	2.19	20.00
1152		22608	0.00	78.94	1,168.90	5.04	62.44	10.92	20.00
1153		22616	0.00	61.25	1,100.00	5.04	-22.55	3.44	20.00
1154		22622	0.00	80.06	1,161.78	5.04	-30.39	3.61	20.00
1155		22624	0.00	80.09	1,161.78	5.04	-45.78	3.36	20.00
1156		22628	0.00	76.63	1,161.84	5.04	-71.93	2.97	20.00
1157		22640	0.00	85.68	1,162.74	5.04	33.89	5.76	20.00
1158		22646	0.00	76.16	1,099.77	5.04	75.91	166.54	20.03
1159		22648	0.46	68.69	1,163.54	5.04	67.46	48.19	20.00
1160		22650	0.42	71.64	1,163.56	5.04	70.27	44.74	20.00
1161		22652	0.00	71.39	1,164.63	5.04	71.13	173.77	20.03
1162		22654	0.00	69.60	1,163.79	5.04	64.86	19.61	20.00
1163		22656	0.17	64.55	1,163.97	5.04	61.21	23.22	20.00
1164		22658	0.03	69.23	1,163.88	5.04	65.72	23.80	20.00
1165		22660	0.07	69.83	1,163.85	5.04	65.79	21.94	20.00
1166		22662	0.15	69.66	1,163.81	5.04	65.01	20.10	20.00
1167		22664	0.14	72.82	1,163.81	5.04	67.64	19.10	20.00
1168		22666	0.19	79.64	1,163.83	5.04	75.20	22.53	20.00
1169		22668	0.27	82.35	1,163.88	5.04	79.76	32.51	20.00
1170		22670	0.00	86.21	1,163.97	5.04	83.87	34.33	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1171		22672	0.19	77.58	1,164.06	5.04	76.78	67.34	20.00
1172		22674	0.24	86.94	1,163.84	5.04	79.64	17.96	20.00
1173		22676	0.19	89.48	1,164.08	5.04	87.60	39.96	20.00
1174		22678	0.00	95.04	1,164.05	5.04	87.62	18.29	20.00
1175		22680	0.00	95.58	1,164.10	5.04	91.55	26.31	20.00
1176		22682	0.17	97.00	1,164.28	5.04	95.84	59.17	20.00
1177		22684	0.19	72.87	1,095.67	5.04	61.22	12.73	20.00
1178		22686	0.27	74.00	1,095.71	5.04	65.87	16.62	20.00
1179		22688	0.32	78.44	1,096.03	5.04	73.28	24.39	20.00
1180		22690	0.19	73.56	1,096.02	5.04	59.56	11.34	20.00
1181		22692	0.17	66.02	1,096.09	5.04	50.40	9.70	20.00
1182		22694	0.03	70.09	1,096.39	5.04	57.57	11.44	20.00
1183		22696	0.17	73.29	1,096.65	5.04	66.57	18.13	20.00
1184		22698	0.32	76.08	1,164.19	5.04	75.41	77.49	20.01
1185		22706	0.00	74.52	1,164.91	5.04	74.46	428.45	20.19
1186		22708	0.00	71.34	1,165.00	5.04	71.33	520.08	20.28
1187		22710	0.15	81.00	1,171.93	5.04	69.15	19.85	20.00
1188		22720	0.77	84.08	1,160.95	5.04	79.92	28.18	20.00
1189		22724	0.00	82.49	1,162.64	5.04	78.67	25.54	20.00
1190		22726	0.00	85.63	1,162.63	5.04	67.17	10.14	20.00
1191		22728	0.00	81.95	1,162.63	5.04	34.85	5.85	20.00
1192		22730	0.02	81.41	1,162.57	5.04	41.42	6.39	20.00
1193		22732	0.00	81.41	1,162.54	5.04	17.58	4.93	20.00
1194		22734	0.00	84.84	1,162.73	5.04	68.19	10.68	20.00
1195		22736	0.00	84.56	1,162.74	5.04	80.94	26.59	20.00
1196		22738	0.02	86.03	1,162.70	5.04	23.91	5.23	20.00
1197		22740	0.02	85.76	1,162.69	5.04	1.49	4.42	20.00
1198		22742	0.00	83.10	1,162.67	5.04	29.12	5.49	20.00
1199		22744	0.00	82.73	1,162.64	5.04	78.68	24.47	20.00
1200		22746	0.00	83.12	1,162.63	5.04	79.65	27.18	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1201		22748	0.00	82.77	1,162.60	5.04	78.69	24.29	20.00
1202		22750	0.00	83.91	1,162.69	5.04	80.59	28.15	20.00
1203		22752	0.00	84.20	1,162.68	5.04	79.67	23.01	20.00
1204		22754	0.00	84.87	1,162.69	5.04	68.72	10.86	20.00
1205		22756	0.00	85.13	1,162.82	5.04	81.51	26.69	20.00
1206		22760	0.00	84.75	1,162.80	5.04	66.28	10.05	20.00
1207		22762	0.00	83.59	1,162.70	5.04	16.68	4.90	20.00
1208		22764	0.02	83.07	1,162.68	5.04	-32.41	3.64	20.00
1209		22766	0.00	83.09	1,162.67	5.04	29.96	5.54	20.00
1210		22768	0.00	81.32	1,162.68	5.04	-274.48	1.94	20.00
1211		22770	0.00	85.06	1,162.80	5.04	13.47	4.78	20.00
1212		22772	0.00	81.33	1,162.70	5.04	6.12	4.51	20.00
1213		22774	0.00	85.60	1,162.55	5.04	22.09	5.13	20.00
1214		22776	0.00	85.59	1,162.52	5.04	-13.93	4.02	20.00
1215		22778	0.00	81.70	1,162.51	5.04	35.67	5.91	20.00
1216		22780	0.00	81.87	1,162.51	5.04	27.28	5.40	20.00
1217		22782	0.00	81.76	1,162.45	5.04	76.13	19.61	20.00
1218		22784	0.00	81.86	1,162.50	5.04	76.47	20.17	20.00
1219		22786	0.00	82.78	1,162.52	5.04	-162.40	2.41	20.00
1220		22788	0.00	82.40	1,162.38	5.04	76.70	19.59	20.00
1221		22790	0.00	82.75	1,162.38	5.04	35.95	5.91	20.00
1222		22792	0.00	82.93	1,162.26	5.04	77.30	19.89	20.00
1223		22794	0.02	84.05	1,162.61	5.04	68.37	10.99	20.00
1224		22796	0.00	84.44	1,162.52	5.04	11.77	4.72	20.00
1225		22798	0.00	83.32	1,162.30	5.04	68.37	11.18	20.00
1226		22800	0.00	85.94	1,162.69	5.04	80.47	20.78	20.00
1227		22802	0.00	84.68	1,162.68	5.04	79.93	22.42	20.00
1228		22804	0.00	85.51	1,163.01	5.04	83.40	40.46	20.00
1229		22806	0.00	78.43	1,170.52	5.04	50.00	12.80	20.00
1230		22808	0.00	93.70	1,168.64	5.04	49.04	6.75	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1231		22810	0.20	85.29	1,163.69	5.04	84.51	82.86	20.01
1232		22812	0.87	66.68	1,163.33	5.04	62.41	21.85	20.00
1233		22816	0.37	69.06	1,164.19	5.04	67.18	36.77	20.00
1234		22818	0.00	80.31	1,095.60	5.04	72.42	17.82	20.00
1235		22820	0.58	82.83	1,095.89	5.04	77.90	27.93	20.00
1236		22822	0.20	72.10	1,096.39	5.04	60.06	12.17	20.00
1237		22824	0.00	87.34	1,096.56	5.04	84.11	44.12	20.00
1238		22826	0.00	86.38	1,095.60	5.04	76.24	15.46	20.00
1239		22828	0.00	82.74	1,095.96	5.04	75.64	19.21	20.00
1240		22830	0.00	82.80	1,096.10	5.04	78.84	35.68	20.00
1241		22832	0.00	82.91	1,096.35	5.04	78.32	27.69	20.00
1242		22834	0.82	79.74	1,095.59	5.04	72.85	21.09	20.00
1243		22836	0.00	90.64	1,164.19	5.04	88.88	41.94	20.00
1244		22838	0.14	86.32	1,164.22	5.04	78.87	17.11	20.00
1245		22840	0.00	91.82	1,164.38	5.04	90.96	71.28	20.01
1246		22842	0.24	73.20	1,163.93	5.04	69.65	23.84	20.00
1247		22850	0.07	97.60	1,164.17	5.04	96.89	104.74	20.01
1248		22854	0.03	81.18	1,097.38	5.04	78.76	53.24	20.00
1249		2286	0.00	79.08	1,163.14	5.04	-125.20	2.56	20.00
1250		22860	0.00	58.59	1,100.22	5.04	57.42	35.64	20.00
1251		22862	0.00	85.33	1,161.15	5.04	67.95	11.04	20.00
1252		22864	0.03	80.61	1,097.39	5.04	78.21	53.01	20.00
1253		22876	0.00	59.96	1,163.37	5.04	55.33	17.87	20.00
1254		22890	0.07	71.73	1,162.06	5.04	70.19	57.45	20.00
1255		2290	0.00	78.11	1,163.14	5.04	-158.33	2.35	20.00
1256		22900	0.02	73.39	1,164.37	5.04	73.04	153.09	20.02
1257		22902	0.00	72.61	1,168.48	5.04	-55.55	3.05	20.00
1258		22904	0.03	102.28	1,264.01	5.04	87.18	12.95	20.00
1259		22906	0.00	92.32	1,162.69	5.04	86.57	21.36	20.00
1260		22908	0.02	90.40	1,161.09	5.04	25.31	5.29	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1261		22910	0.00	90.16	1,161.09	5.04	25.80	5.29	20.00
1262		22912	0.53	95.06	1,362.95	5.04	91.26	31.76	20.00
1263		22914	0.97	89.14	1,361.39	5.04	80.00	18.78	20.00
1264		22916	0.90	87.35	1,364.72	5.04	87.18	246.56	20.06
1265		22918	0.37	87.57	1,362.10	5.04	83.14	27.62	20.00
1266		22920	0.29	75.90	1,360.73	5.04	68.66	19.06	20.00
1267		22922	0.65	76.86	1,361.67	5.04	73.48	35.39	20.00
1268		22924	0.51	76.37	1,361.22	5.04	70.34	21.34	20.00
1269		22926	0.54	66.13	1,358.89	5.04	47.15	9.27	20.00
1270		22928	0.37	55.97	1,358.37	5.04	35.00	7.45	20.00
1271		22930	0.75	62.28	1,358.73	5.04	51.41	13.16	20.00
1272		22932	0.32	70.10	1,358.81	5.04	57.49	12.34	20.00
1273		22934	0.14	69.67	1,358.70	5.04	54.39	10.61	20.00
1274		22936	0.32	60.34	1,358.56	5.04	45.90	10.08	20.00
1275		22938	0.12	49.47	1,358.36	5.04	20.51	5.21	20.00
1276		22940	0.15	70.57	1,359.41	5.04	48.79	8.48	20.00
1277		22942	0.02	75.05	1,360.55	5.04	64.23	13.70	20.00
1278		22944	0.44	84.81	1,360.73	5.04	73.72	15.12	20.00
1279		22946	0.24	83.16	1,361.92	5.04	74.03	16.10	20.00
1280		22948	0.48	87.57	1,361.98	5.04	74.45	13.72	20.00
1281		22950	0.15	81.78	1,359.45	5.04	65.94	11.69	20.00
1282		22952	0.51	74.09	1,359.07	5.04	34.59	6.60	20.00
1283		22954	0.07	49.65	1,358.38	5.04	20.36	5.15	20.00
1284		22956	0.22	70.96	1,358.77	5.04	44.97	7.73	20.00
1285		22958	0.00	73.11	1,358.73	5.04	50.16	8.29	20.00
1286		22960	0.39	85.28	1,359.05	5.04	59.49	9.19	20.00
1287		22962	0.05	82.89	1,359.05	5.04	48.40	7.23	20.00
1288		22964	0.00	84.72	1,359.05	5.04	47.31	6.95	20.00
1289		22968	0.02	97.67	1,364.60	5.04	97.02	107.01	20.01
1290		22970	0.42	89.64	1,363.67	5.04	85.18	26.42	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1291		22972	0.20	87.89	1,363.76	5.04	79.27	16.70	20.00
1292		22974	0.03	94.65	1,363.99	5.04	89.60	24.10	20.00
1293		22980	0.02	96.35	1,364.15	5.04	92.68	29.30	20.00
1294		22982	0.22	88.72	1,363.75	5.04	81.24	18.29	20.00
1295		22984	0.27	54.24	1,261.99	5.04	51.24	21.91	20.00
1296		22986	0.17	59.37	1,262.01	5.04	53.78	15.65	20.00
1297		22988	0.03	91.05	1,363.99	5.04	85.87	23.09	20.00
1298		22990	0.29	81.48	1,363.79	5.04	72.51	15.63	20.00
1299		22992	0.20	84.16	1,363.77	5.04	75.09	15.75	20.00
1300		22994	0.02	94.88	1,363.98	5.04	89.42	23.04	20.00
1301		22996	0.31	50.48	1,263.57	5.04	44.36	12.98	20.00
1302		22998	0.17	51.73	1,262.12	5.04	48.32	18.98	20.00
1303		23000	0.36	49.63	1,262.68	5.04	44.17	13.84	20.00
1304		23002	0.03	84.39	1,364.40	5.04	82.27	37.57	20.00
1305		23004	0.22	73.94	1,364.01	5.04	66.28	15.57	20.00
1306		23006	0.22	81.84	1,363.88	5.04	73.67	16.36	20.00
1307		23008	0.03	88.94	1,364.09	5.04	84.67	25.30	20.00
1308		23010	0.19	47.02	1,264.51	5.04	46.87	208.95	20.05
1309		23014	0.10	87.91	1,364.75	5.04	87.65	181.40	20.03
1310		23016	0.12	80.85	1,364.53	5.04	79.56	50.70	20.00
1311		23018	0.22	68.29	1,364.10	5.04	61.11	15.04	20.00
1312		23020	0.27	76.89	1,364.73	5.04	76.46	102.58	20.01
1313		23022	0.12	63.42	1,364.11	5.04	57.04	14.89	20.00
1314		23024	0.24	83.94	1,364.21	5.04	82.71	62.47	20.00
1315		23026	0.19	80.72	1,363.93	5.04	78.95	47.24	20.00
1316		23028	0.19	68.78	1,363.77	5.04	65.52	25.75	20.00
1317		23030	0.10	54.27	1,363.73	5.04	49.10	15.38	20.00
1318		23032	0.12	59.28	1,363.94	5.04	52.60	13.92	20.00
1319		23034	0.20	71.48	1,364.04	5.04	67.57	22.36	20.00
1320		23036	0.24	70.15	1,363.31	5.04	66.58	27.06	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1321	23038	0.24	76.47	1,363.42	5.04	72.94	27.75	20.00
1322	2304	0.02	77.19	1,163.14	5.04	17.89	4.96	20.00
1323	23040	0.20	56.33	1,363.26	5.04	51.40	17.57	20.00
1324	23042	0.12	47.44	1,363.25	5.04	40.57	11.76	20.00
1325	23044	0.12	48.96	1,363.37	5.04	41.11	10.95	20.00
1326	23046	0.22	64.40	1,363.37	5.04	58.88	17.71	20.00
1327	23048	0.00	47.32	1,363.24	5.04	30.17	6.59	20.00
1328	23052	0.00	58.89	1,363.25	5.04	49.86	11.99	20.00
1329	23054	0.12	68.58	1,363.36	5.04	59.06	13.20	20.00
1330	2306	0.03	81.01	1,163.15	5.04	58.97	8.94	20.00
1331	23064	0.24	65.48	1,363.36	5.04	58.54	15.88	20.00
1332	23066	0.22	70.53	1,363.41	5.04	65.79	22.22	20.00
1333	23068	0.19	62.06	1,363.20	5.04	56.01	17.18	20.00
1334	23070	0.00	52.04	1,363.20	5.04	43.64	11.38	20.00
1335	23072	0.00	49.71	1,363.23	5.04	38.15	8.79	20.00
1336	23074	0.07	57.73	1,363.24	5.04	50.65	14.08	20.00
1337	23076	0.20	77.29	1,363.20	5.04	69.92	17.62	20.00
1338	23078	0.15	85.71	1,363.13	5.04	77.18	17.40	20.00
1339	23080	0.22	81.48	1,363.04	5.04	73.17	17.48	20.00
1340	23082	0.14	73.48	1,363.03	5.04	62.78	13.41	20.00
1341	23084	0.07	61.31	1,363.09	5.04	50.45	11.26	20.00
1342	23086	0.20	61.25	1,363.10	5.04	54.14	15.31	20.00
1343	23088	0.22	70.45	1,262.70	5.04	68.95	44.74	20.00
1344	23090	0.24	67.53	1,262.31	5.04	65.19	30.72	20.00
1345	23092	0.24	59.18	1,261.85	5.04	56.76	27.91	20.00
1346	23094	0.19	50.65	1,261.89	5.04	47.48	19.87	20.00
1347	23096	0.10	46.32	1,261.89	5.04	40.71	12.43	20.00
1348	23098	0.00	58.45	1,262.20	5.04	51.57	13.31	20.00
1349	23100	0.15	58.11	1,262.45	5.04	51.30	13.60	20.00
1350	23102	0.20	65.14	1,262.62	5.04	63.49	39.02	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1351		23104	0.26	64.79	1,262.20	5.04	61.99	26.55	20.00
1352		23106	0.22	74.88	1,262.81	5.04	73.68	58.09	20.00
1353		23108	0.24	76.94	1,262.72	5.04	69.99	16.94	20.00
1354		23110	0.54	77.11	1,262.74	5.04	74.89	35.66	20.00
1355		23112	0.46	81.45	1,263.05	5.04	80.57	80.30	20.01
1356		23114	0.24	81.27	1,264.50	5.04	81.13	371.57	20.14
1357		23116	0.17	75.21	1,263.31	5.04	74.21	70.41	20.01
1358		23118	0.34	68.75	1,262.76	5.04	67.15	40.08	20.00
1359		2312	0.02	81.14	1,163.15	5.04	64.00	10.32	20.00
1360		23120	0.31	81.32	1,262.67	5.04	78.42	30.63	20.00
1361		23122	0.19	79.17	1,262.71	5.04	78.00	57.87	20.00
1362		23124	0.26	64.58	1,262.68	5.04	61.80	25.92	20.00
1363		23126	0.22	62.44	1,263.01	5.04	61.13	42.80	20.00
1364		23128	0.12	56.21	1,262.65	5.04	49.70	13.49	20.00
1365		23130	0.17	65.08	1,261.75	5.04	62.65	30.85	20.00
1366		23132	0.19	68.28	1,262.58	5.04	65.31	25.82	20.00
1367		23134	0.24	72.25	1,261.74	5.04	70.62	55.11	20.00
1368		23136	0.17	72.69	1,262.77	5.04	71.47	69.02	20.00
1369		23138	0.26	87.61	1,262.20	5.04	86.18	75.60	20.01
1370		23140	0.37	83.36	1,262.38	5.04	81.03	35.60	20.00
1371		23142	0.12	54.63	1,262.98	5.04	50.58	17.41	20.00
1372		23162	0.10	59.93	1,263.02	5.04	51.65	12.28	20.00
1373		23164	0.20	58.63	1,262.99	5.04	53.66	16.43	20.00
1374		23166	0.19	56.43	1,262.51	5.04	53.26	21.11	20.00
1375		23168	0.14	65.19	1,262.90	5.04	63.54	35.37	20.00
1376		23170	0.10	70.54	1,262.80	5.04	68.56	33.76	20.00
1377		23172	0.20	64.69	1,263.83	5.04	63.75	60.87	20.00
1378		23174	0.12	58.14	1,263.53	5.04	51.89	14.09	20.00
1379		23176	0.07	58.83	1,263.60	5.04	52.77	14.23	20.00
1380		23178	0.09	65.40	1,264.86	5.04	65.27	234.68	20.06

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1381	23180	0.22	63.40	1,263.28	5.04	62.28	48.64	20.00
1382	23182	0.12	54.20	1,263.23	5.04	47.93	13.28	20.00
1383	23184	0.42	58.59	1,261.89	5.04	56.51	31.64	20.00
1384	23186	0.22	62.69	1,261.76	5.04	60.41	31.14	20.00
1385	23188	0.20	66.81	1,261.76	5.04	64.68	34.45	20.00
1386	23190	0.17	61.63	1,261.85	5.04	59.56	32.37	20.00
1387	23192	0.12	57.64	1,262.02	5.04	55.14	25.30	20.00
1388	23194	0.14	63.73	1,260.69	5.04	61.35	39.00	20.00
1389	23196	0.19	70.08	1,258.08	5.04	66.22	31.07	20.00
1390	23198	0.20	61.61	1,261.75	5.04	57.70	20.74	20.00
1391	23200	0.29	62.42	1,261.74	5.04	58.78	22.24	20.00
1392	23202	0.14	65.73	1,261.70	5.04	54.93	11.63	20.00
1393	23204	0.20	66.35	1,261.70	5.04	57.09	12.95	20.00
1394	23206	0.14	67.32	1,260.69	5.04	65.09	37.77	20.00
1395	23208	0.05	63.52	1,261.94	5.04	62.55	78.43	20.01
1396	23210	0.15	50.80	1,262.23	5.04	44.76	12.87	20.00
1397	23212	0.07	56.09	1,262.69	5.04	55.29	85.26	20.01
1398	23214	0.29	59.99	1,261.37	5.04	57.90	34.63	20.00
1399	23216	0.07	59.68	1,262.24	5.04	58.78	80.52	20.01
1400	23218	0.36	83.87	1,257.11	5.04	80.48	41.72	20.00
1401	23220	0.17	79.53	1,259.64	5.04	76.42	37.44	20.00
1402	23222	0.20	67.16	1,260.00	5.04	64.50	35.05	20.00
1403	23224	0.37	69.51	1,255.41	5.04	56.84	11.76	20.00
1404	23226	1.46	62.93	1,254.01	5.04	58.24	26.53	20.00
1405	23228	0.42	70.77	1,253.79	5.04	66.21	28.24	20.00
1406	23230	0.41	75.62	1,254.89	5.04	71.62	35.38	20.00
1407	23232	0.26	87.10	1,260.97	5.04	85.52	69.75	20.00
1408	23234	0.09	96.67	1,258.09	5.04	92.61	32.36	20.00
1409	23236	0.44	91.46	1,259.12	5.04	86.24	24.66	20.00
1410	23238	0.15	88.48	1,258.30	5.04	84.14	28.88	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1411		23240	0.19	72.33	1,259.13	5.04	69.43	34.10	20.00
1412		23242	0.32	56.35	1,260.86	5.04	53.73	28.08	20.00
1413		23244	0.39	64.87	1,260.92	5.04	62.20	31.16	20.00
1414		23246	0.49	67.93	1,259.41	5.04	60.50	15.66	20.00
1415		23248	0.22	74.37	1,259.13	5.04	70.81	28.48	20.00
1416		23250	0.07	78.22	1,259.19	5.04	75.10	32.97	20.00
1417		23252	0.14	80.86	1,259.41	5.04	78.35	40.97	20.00
1418		23254	0.39	84.76	1,260.39	5.04	81.82	34.48	20.00
1419		23256	0.37	76.32	1,261.13	5.04	65.24	13.16	20.00
1420		23258	0.24	76.78	1,262.20	5.04	75.24	60.68	20.00
1421		23260	0.19	79.79	1,259.15	5.04	75.98	28.31	20.00
1422		23264	0.10	89.25	1,260.99	5.04	85.38	27.48	20.00
1423		23266	0.22	82.78	1,261.03	5.04	80.97	55.86	20.00
1424		23268	0.05	87.08	1,260.97	5.04	84.15	33.36	20.00
1425		23270	0.26	83.26	1,258.72	5.04	77.16	20.90	20.00
1426		23272	0.20	91.50	1,258.12	5.04	86.32	25.48	20.00
1427		23274	0.31	88.30	1,258.79	5.04	84.92	35.01	20.00
1428		23276	0.83	87.25	1,255.11	5.04	82.46	30.71	20.00
1429		23278	0.00	90.84	1,255.09	5.04	86.16	30.99	20.00
1430		23280	0.39	93.35	1,251.77	5.04	87.30	27.81	20.00
1431		23282	0.27	92.85	1,251.64	5.04	87.08	29.72	20.00
1432		23284	0.46	83.82	1,251.47	5.04	78.17	28.73	20.00
1433		23286	0.61	72.16	1,251.54	5.04	67.06	28.69	20.00
1434		23288	0.61	74.80	1,251.61	5.04	69.42	26.80	20.00
1435		23290	0.29	74.42	1,252.37	5.04	69.56	28.26	20.00
1436		23292	0.70	79.85	1,253.40	5.04	74.66	27.18	20.00
1437		23294	0.73	84.13	1,251.31	5.04	76.65	22.61	20.00
1438		23296	0.94	88.59	1,250.95	5.04	75.87	15.95	20.00
1439		23298	0.51	73.03	1,251.72	5.04	67.76	27.36	20.00
1440		23300	0.83	72.20	1,251.97	5.04	67.37	31.92	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1441		23302	0.56	70.08	1,252.30	5.04	64.20	24.25	20.00
1442		23304	0.65	68.25	1,252.94	5.04	63.90	34.38	20.00
1443		23306	0.19	71.05	1,253.48	5.04	66.12	25.74	20.00
1444		23308	0.31	78.88	1,254.47	5.04	73.51	25.11	20.00
1445		23310	0.41	85.11	1,255.59	5.04	79.70	25.61	20.00
1446		23312	0.34	85.52	1,258.51	5.04	80.27	26.45	20.00
1447		23314	0.10	85.46	1,261.92	5.04	82.20	40.43	20.00
1448		23316	0.02	86.62	1,262.17	5.04	83.75	45.17	20.00
1449		23318	0.12	85.76	1,262.71	5.04	83.36	50.82	20.00
1450		23320	0.12	76.08	1,263.59	5.04	74.41	57.28	20.00
1451		23322	0.05	84.58	1,260.21	5.04	72.51	13.76	20.00
1452		23324	0.10	70.38	1,257.43	5.04	56.15	10.95	20.00
1453		23326	0.20	72.17	1,256.50	5.04	52.97	9.35	20.00
1454		23328	0.24	67.37	1,255.61	5.04	53.54	11.01	20.00
1455		23330	0.12	67.06	1,255.00	5.04	54.53	11.69	20.00
1456		23332	0.15	65.40	1,254.14	5.04	48.80	9.51	20.00
1457		23334	0.14	64.26	1,253.75	5.04	46.31	8.89	20.00
1458		23336	0.48	64.25	1,253.46	5.04	46.18	9.21	20.00
1459		23338	0.27	79.46	1,255.15	5.04	66.59	13.08	20.00
1460		23340	0.17	65.52	1,260.95	5.04	48.59	9.18	20.00
1461		23342	0.10	66.11	1,258.24	5.04	42.88	7.62	20.00
1462		23344	0.15	65.17	1,257.32	5.04	48.66	9.42	20.00
1463		23346	0.10	100.67	1,261.94	5.04	96.73	33.92	20.00
1464		23348	0.20	102.92	1,262.49	5.04	98.87	31.74	20.00
1465		23350	0.32	98.87	1,263.13	5.04	97.28	73.43	20.01
1466		23352	0.44	94.70	1,261.20	5.04	90.90	42.60	20.00
1467		23354	0.22	87.86	1,257.78	5.04	83.08	31.36	20.00
1468		23356	0.12	84.61	1,254.97	5.04	79.20	27.30	20.00
1469		23358	0.15	68.60	1,253.39	5.04	62.78	21.40	20.00
1470		2336	0.00	80.99	1,163.16	5.04	65.66	10.98	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1471		23360	0.15	77.12	1,252.97	5.04	72.88	37.39	20.00
1472		23362	0.22	79.36	1,252.33	5.04	72.36	21.15	20.00
1473		23364	0.34	81.76	1,251.93	5.04	76.43	29.73	20.00
1474		23366	0.49	82.77	1,251.54	5.04	75.54	22.14	20.00
1475		23368	1.11	66.52	1,251.61	5.04	56.90	15.33	20.00
1476		23370	0.20	81.47	1,254.57	5.04	72.32	16.84	20.00
1477		23372	0.27	95.08	1,260.67	5.04	87.12	19.66	20.00
1478		23374	0.17	94.97	1,169.18	5.04	85.31	17.64	20.00
1479		23376	0.36	84.30	1,169.25	5.04	78.79	25.35	20.00
1480		23378	0.39	69.14	1,169.17	5.04	62.44	18.60	20.00
1481		2338	0.00	81.30	1,163.16	5.04	68.68	12.34	20.00
1482		23380	0.20	60.51	1,169.64	5.04	54.89	18.59	20.00
1483		23382	0.17	62.77	1,171.49	5.04	60.27	34.97	20.00
1484		23384	0.27	68.43	1,172.93	5.04	67.04	57.46	20.00
1485		23386	0.26	72.55	1,172.73	5.04	70.32	35.84	20.00
1486		23388	0.24	78.09	1,173.05	5.04	76.92	73.39	20.01
1487		23390	0.12	83.91	1,171.48	5.04	81.50	47.73	20.00
1488		23392	0.22	84.48	1,170.50	5.04	81.20	37.42	20.00
1489		23394	0.53	76.32	1,170.00	5.04	70.10	20.37	20.00
1490		23396	0.32	69.40	1,170.16	5.04	56.65	11.49	20.00
1491		23398	0.12	65.97	1,171.08	5.04	62.18	24.39	20.00
1492		23400	0.31	70.09	1,171.05	5.04	65.82	23.65	20.00
1493		23402	0.31	77.54	1,170.95	5.04	73.82	28.86	20.00
1494		23404	0.19	85.01	1,171.00	5.04	82.35	44.58	20.00
1495		23406	0.31	80.76	1,171.40	5.04	73.21	17.34	20.00
1496		23408	0.05	88.65	1,169.59	5.04	78.05	15.04	20.00
1497		23410	0.75	61.55	1,170.10	5.04	55.50	18.41	20.00
1498		23412	0.97	52.88	1,167.00	5.04	29.98	7.37	20.00
1499		23414	0.32	59.84	1,168.19	5.04	43.51	9.42	20.00
1500		23416	0.63	62.70	1,171.20	5.04	54.44	14.50	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1501		23418	0.24	56.60	1,171.30	5.04	49.34	13.80	20.00
1502		23420	0.37	61.63	1,166.92	5.04	25.62	5.89	20.00
1503		23422	0.29	65.38	1,167.34	5.04	36.75	7.03	20.00
1504		23424	0.34	70.84	1,173.49	5.04	70.00	86.54	20.01
1505		23426	0.10	63.70	1,172.20	5.04	52.98	11.41	20.00
1506		23428	0.14	72.85	1,171.17	5.04	58.07	10.56	20.00
1507		23430	0.07	80.67	1,170.52	5.04	65.46	11.14	20.00
1508		23432	0.17	81.12	1,171.08	5.04	63.29	10.46	20.00
1509		23434	0.17	86.37	1,170.93	5.04	63.37	9.45	20.00
1510		23436	0.09	88.90	1,170.93	5.04	69.73	10.61	20.00
1511		23438	0.24	61.45	1,170.37	5.04	56.36	19.57	20.00
1512		2344	0.00	77.18	1,163.13	5.04	-89.65	2.80	20.00
1513		23440	0.14	53.23	1,170.38	5.04	47.68	15.77	20.00
1514		23442	0.05	54.99	1,171.28	5.04	50.43	18.12	20.00
1515		23444	0.19	58.15	1,171.29	5.04	50.25	13.05	20.00
1516		23446	0.42	79.80	1,169.17	5.04	73.89	23.33	20.00
1517		23448	0.31	70.86	1,168.56	5.04	46.24	8.06	20.00
1518		23450	0.41	81.70	1,168.56	5.04	67.48	12.85	20.00
1519		23452	0.36	74.14	1,168.58	5.04	61.62	12.88	20.00
1520		23454	0.42	68.15	1,168.68	5.04	55.39	11.87	20.00
1521		23456	0.00	60.84	1,169.06	5.04	45.55	9.06	20.00
1522		23458	0.22	58.41	1,173.37	5.04	56.89	40.86	20.00
1523		23460	0.05	53.22	1,173.41	5.04	48.13	14.77	20.00
1524		23462	0.20	55.96	1,173.69	5.04	50.26	14.59	20.00
1525		23464	0.09	55.95	1,174.14	5.04	52.28	18.53	20.00
1526		23466	0.17	60.39	1,174.36	5.04	59.73	78.18	20.01
1527		23468	0.31	69.23	1,174.78	5.04	69.12	294.70	20.09
1528		23470	0.12	67.28	1,173.73	5.04	66.22	65.63	20.00
1529		23472	0.20	61.26	1,173.77	5.04	60.09	50.64	20.00
1530		23474	0.32	68.53	1,173.16	5.04	64.52	21.86	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1531		23476	0.53	68.30	1,174.22	5.04	67.32	55.32	20.00
1532		23478	0.17	77.62	1,172.74	5.04	64.69	11.95	20.00
1533		23480	0.37	73.57	1,172.98	5.04	65.98	16.06	20.00
1534		23482	0.34	68.76	1,173.76	5.04	67.35	45.69	20.00
1535		23484	0.07	94.49	1,168.72	5.04	82.15	15.16	20.00
1536		23486	0.00	92.85	1,168.84	5.04	81.13	15.18	20.00
1537		23488	0.00	82.63	1,169.31	5.04	75.84	20.52	20.00
1538		23490	0.24	63.70	1,168.86	5.04	54.89	14.09	20.00
1539		23492	0.15	63.66	1,168.78	5.04	53.45	12.62	20.00
1540		23494	0.12	75.34	1,168.77	5.04	66.22	15.80	20.00
1541		23496	0.10	89.57	1,168.72	5.04	78.56	15.88	20.00
1542		23498	0.20	90.44	1,168.72	5.04	79.53	16.23	20.00
1543		2350	0.02	79.20	1,163.13	5.04	-107.91	2.70	20.00
1544		23500	0.24	81.24	1,168.75	5.04	70.91	15.48	20.00
1545		23502	0.34	88.06	1,095.79	5.04	83.26	32.53	20.00
1546		23504	0.46	92.44	1,095.34	5.04	83.34	19.16	20.00
1547		23506	0.19	90.31	1,094.72	5.04	77.84	16.58	20.00
1548		23508	0.10	89.02	1,170.01	5.04	76.09	13.33	20.00
1549		23510	0.02	91.48	1,169.74	5.04	77.97	13.13	20.00
1550		23512	0.12	78.10	1,172.94	5.04	75.02	28.44	20.00
1551		23514	0.32	56.38	1,163.34	5.04	47.12	11.51	20.00
1552		23516	0.42	60.09	1,163.34	5.04	52.09	13.44	20.00
1553		23518	0.83	59.97	1,163.41	5.04	56.29	22.22	20.00
1554		2352	0.02	78.87	1,163.14	5.04	-25.34	3.70	20.00
1555		23520	0.36	88.88	1,163.88	5.04	84.33	24.35	20.00
1556		23522	0.17	78.37	1,164.10	5.04	77.65	73.11	20.01
1557		23524	0.00	81.77	1,163.84	5.04	78.86	28.17	20.00
1558		23526	0.26	79.57	1,163.56	5.04	76.17	26.14	20.00
1559		23528	0.19	79.71	1,163.56	5.04	76.15	25.38	20.00
1560		23530	0.22	90.45	1,108.74	5.04	89.64	117.72	20.01

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1561		23532	0.36	91.55	1,106.29	5.04	84.83	26.05	20.00
1562		23534	0.42	68.32	1,104.35	5.04	59.08	17.71	20.00
1563		23536	0.24	48.84	1,100.11	5.04	31.06	8.03	20.00
1564		23538	0.20	56.94	1,101.37	5.04	43.39	13.43	20.00
1565		23540	0.19	79.88	1,104.35	5.04	71.29	23.11	20.00
1566		23542	0.20	92.32	1,108.05	5.04	80.00	14.04	20.00
1567		23544	0.17	89.69	1,107.51	5.04	69.13	10.21	20.00
1568		23548	0.10	80.88	1,101.67	5.04	77.85	31.70	20.00
1569		23550	0.03	80.79	1,101.36	5.04	77.93	34.61	20.00
1570		23552	0.19	84.01	1,098.89	5.04	81.64	46.63	20.00
1571		23554	0.26	88.73	1,099.77	5.04	85.92	40.03	20.00
1572		23556	0.17	82.35	1,102.62	5.04	75.29	18.04	20.00
1573		23558	0.19	81.84	1,103.87	5.04	80.05	56.33	20.00
1574		23560	0.19	81.51	1,103.11	5.04	78.36	34.42	20.00
1575		23562	0.19	81.78	1,101.87	5.04	77.90	27.35	20.00
1576		23564	0.00	80.13	1,104.92	5.04	77.72	43.15	20.00
1577		23566	0.39	83.03	1,106.63	5.04	81.40	69.09	20.00
1578		23568	0.32	78.77	1,102.93	5.04	75.98	30.34	20.00
1579		23570	0.20	76.08	1,101.80	5.04	74.06	37.90	20.00
1580		23572	0.32	71.76	1,101.43	5.04	67.53	21.92	20.00
1581		23574	0.00	72.85	1,101.43	5.04	67.21	17.96	20.00
1582		23576	0.00	78.29	1,102.00	5.04	72.72	19.57	20.00
1583		23578	0.54	76.83	1,102.32	5.04	73.02	25.75	20.00
1584		23580	0.24	79.81	1,102.00	5.04	61.03	9.98	20.00
1585		23582	0.31	85.51	1,102.34	5.04	74.26	14.28	20.00
1586		23584	0.48	82.30	1,103.95	5.04	73.00	15.90	20.00
1587		23586	0.02	58.61	1,100.25	5.04	49.18	10.95	20.00
1588		23588	0.00	63.21	1,100.35	5.04	57.15	15.02	20.00
1589		23590	0.15	65.98	1,100.59	5.04	60.30	16.53	20.00
1590		23594	0.05	70.92	1,098.69	5.04	68.58	34.26	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1591		23596	0.22	85.45	1,098.10	5.04	79.83	22.13	20.00
1592		23598	0.31	79.29	1,098.00	5.04	75.72	30.16	20.00
1593		23600	0.31	82.50	1,097.78	5.04	79.09	32.78	20.00
1594		23602	0.22	89.43	1,097.97	5.04	85.26	29.09	20.00
1595		23604	0.24	83.74	1,098.25	5.04	77.95	21.61	20.00
1596		23606	0.05	85.56	1,099.76	5.04	82.07	32.26	20.00
1597		23608	0.22	87.79	1,098.30	5.04	84.52	35.48	20.00
1598		23610	0.07	91.13	1,100.31	5.04	87.78	34.30	20.00
1599		23612	0.07	90.92	1,099.83	5.04	86.25	26.60	20.00
1600		23614	0.42	86.47	1,097.87	5.04	83.02	34.41	20.00
1601		23616	0.07	81.09	1,097.49	5.04	78.57	47.31	20.00
1602		23618	0.00	86.85	1,363.03	5.04	64.79	9.51	20.00
1603		23620	0.17	91.94	1,363.03	5.04	83.02	18.11	20.00
1604		23622	0.05	92.17	1,363.03	5.04	70.22	10.02	20.00
1605		23624	0.07	92.32	1,363.13	5.04	81.80	15.80	20.00
1606		23628	0.14	78.82	1,363.70	5.04	71.66	17.50	20.00
1607		23630	0.24	77.47	1,363.80	5.04	73.01	23.73	20.00
1608		23632	0.22	81.10	1,364.28	5.04	79.30	47.32	20.00
1609		23634	0.17	86.28	1,363.51	5.04	79.87	20.49	20.00
1610		23636	0.10	91.68	1,363.29	5.04	83.26	18.15	20.00
1611		23638	0.07	90.26	1,363.78	5.04	74.70	11.83	20.00
1612		23640	0.14	92.65	1,363.94	5.04	84.44	17.48	20.00
1613		23642	0.12	92.25	1,364.98	5.04	92.21	407.63	20.17
1614		23644	0.10	92.48	1,363.66	5.04	84.82	18.60	20.00
1615		23646	0.03	94.16	1,257.77	5.04	90.01	31.84	20.00
1616		23648	0.10	58.07	1,174.02	5.04	42.72	8.47	20.00
1617		23650	0.27	60.16	1,174.02	5.04	55.26	17.20	20.00
1618		23652	0.29	59.81	1,173.79	5.04	52.83	13.93	20.00
1619		23654	0.29	57.53	1,173.23	5.04	49.53	12.57	20.00
1620		23656	0.39	57.79	1,172.25	5.04	50.23	13.40	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1621		23658	0.17	52.97	1,172.25	5.04	44.95	11.70	20.00
1622		23660	0.32	47.53	1,171.93	5.04	39.01	10.48	20.00
1623		23662	0.39	56.11	1,172.16	5.04	50.68	16.14	20.00
1624		23664	0.59	67.41	1,173.81	5.04	66.23	52.90	20.00
1625		23666	0.63	68.64	1,174.27	5.04	68.41	231.07	20.06
1626		23668	0.39	59.41	1,172.12	5.04	55.44	21.05	20.00
1627		23670	0.17	46.85	1,171.80	5.04	38.50	10.27	20.00
1628		23672	0.36	73.78	1,172.80	5.04	72.35	65.55	20.00
1629		23674	0.12	67.16	1,169.64	5.04	61.32	19.20	20.00
1630		23676	0.36	70.05	1,170.49	5.04	64.39	19.88	20.00
1631		23678	0.22	75.12	1,172.04	5.04	71.62	29.68	20.00
1632		23680	0.12	52.35	1,169.76	5.04	45.95	14.27	20.00
1633		23682	0.02	52.39	1,169.60	5.04	42.12	10.19	20.00
1634		23684	0.15	55.12	1,169.44	5.04	42.42	9.47	20.00
1635		23686	0.22	60.65	1,169.27	5.04	49.37	11.30	20.00
1636		23688	0.32	63.60	1,172.10	5.04	61.48	40.15	20.00
1637		23690	0.12	55.49	1,172.12	5.04	51.83	20.77	20.00
1638		23692	0.03	48.80	1,261.88	5.04	40.44	10.20	20.00
1639		23694	0.10	48.73	1,261.85	5.04	43.60	13.85	20.00
1640		23696	0.17	46.22	1,261.67	5.04	41.01	13.17	20.00
1641		23698	0.20	50.11	1,261.07	5.04	46.25	17.95	20.00
1642		23700	0.22	61.14	1,261.11	5.04	55.38	16.20	20.00
1643		23702	0.05	94.73	1,258.30	5.04	86.74	18.82	20.00
1644		23704	0.12	92.39	1,258.33	5.04	84.16	18.29	20.00
1645		23706	0.22	88.12	1,258.37	5.04	83.90	29.86	20.00
1646		23708	0.12	92.08	1,258.38	5.04	86.23	23.61	20.00
1647		23710	0.31	88.17	1,258.49	5.04	84.91	40.42	20.00
1648		23712	0.24	82.71	1,258.35	5.04	77.93	27.26	20.00
1649		23714	0.12	90.87	1,258.31	5.04	82.37	18.02	20.00
1650		23716	0.20	82.64	1,258.29	5.04	77.18	25.35	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1651		23718	0.12	89.13	1,258.27	5.04	81.64	20.15	20.00
1652		23720	0.15	80.19	1,258.24	5.04	73.30	20.35	20.00
1653		23722	0.07	92.39	1,258.23	5.04	81.87	16.14	20.00
1654		23724	0.17	78.28	1,258.23	5.04	69.62	16.65	20.00
1655		23726	0.12	88.70	1,258.21	5.04	73.28	12.18	20.00
1656		23728	0.19	71.04	1,258.27	5.04	60.81	13.55	20.00
1657		23730	0.15	71.50	1,258.31	5.04	63.98	17.08	20.00
1658		23732	0.20	73.91	1,258.40	5.04	68.57	23.40	20.00
1659		23734	0.26	70.83	1,258.48	5.04	64.90	19.50	20.00
1660		23736	0.27	76.52	1,258.71	5.04	73.53	39.50	20.00
1661		23738	0.26	75.24	1,258.64	5.04	69.83	21.23	20.00
1662		2374	0.00	79.06	1,163.13	5.04	-15.09	3.90	20.00
1663		23742	0.32	82.06	1,258.66	5.04	76.86	23.25	20.00
1664		23744	0.24	68.11	1,259.13	5.04	64.67	27.87	20.00
1665		23746	0.22	66.77	1,259.20	5.04	64.17	40.81	20.00
1666		23748	0.20	65.44	1,258.96	5.04	61.41	25.73	20.00
1667		23750	0.15	63.46	1,258.78	5.04	58.95	24.79	20.00
1668		23752	0.10	57.82	1,258.44	5.04	47.94	11.44	20.00
1669		23754	0.15	61.22	1,258.51	5.04	54.27	15.90	20.00
1670		23756	0.14	50.47	1,264.95	5.04	50.43	352.59	20.13
1671		23758	0.05	48.62	1,260.30	5.04	42.88	25.63	20.00
1672		23760	0.10	55.09	1,259.52	5.04	50.15	22.73	20.00
1673		23762	0.19	57.15	1,259.49	5.04	54.56	35.06	20.00
1674		23764	0.29	67.03	1,259.69	5.04	63.51	25.18	20.00
1675		23766	0.14	51.32	1,261.54	5.04	48.70	24.03	20.00
1676		23768	0.15	50.38	1,261.49	5.04	46.40	22.52	20.00
1677		23770	0.17	53.95	1,259.52	5.04	48.98	17.45	20.00
1678		23772	0.20	58.51	1,259.68	5.04	54.07	18.80	20.00
1679		23774	0.07	49.27	1,261.40	5.04	41.33	10.89	20.00
1680		23776	0.00	79.14	1,262.63	5.04	77.50	43.03	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1681	23778	0.24	72.81	1,261.29	5.04	71.32	57.67	20.00
1682	23780	0.00	51.82	1,261.45	5.04	49.93	42.76	20.00
1683	23782	0.14	52.67	1,263.39	5.04	52.00	90.49	20.01
1684	23786	0.00	61.71	1,257.42	5.04	58.13	35.72	20.00
1685	23788	0.07	54.40	1,262.86	5.04	39.99	8.25	20.00
1686	23790	0.10	53.27	1,262.78	5.04	44.94	11.14	20.00
1687	23792	0.14	51.85	1,262.50	5.04	47.23	15.49	20.00
1688	23794	0.12	49.02	1,262.37	5.04	44.45	14.81	20.00
1689	23796	0.07	47.92	1,262.46	5.04	44.49	17.22	20.00
1690	23798	0.10	45.73	1,262.89	5.04	42.80	18.16	20.00
1691	23800	0.14	41.93	1,264.01	5.04	40.40	26.37	20.00
1692	23802	0.48	91.94	1,364.07	5.04	83.44	17.57	20.00
1693	23804	0.12	92.39	1,364.03	5.04	86.32	20.73	20.00
1694	23806	0.12	92.35	1,363.86	5.04	87.88	25.38	20.00
1695	23808	0.15	91.65	1,363.38	5.04	85.57	21.51	20.00
1696	23810	0.19	85.97	1,363.32	5.04	80.97	24.12	20.00
1697	23812	0.12	47.42	1,363.20	5.04	36.25	8.69	20.00
1698	23814	0.07	41.28	1,363.20	5.04	23.34	5.63	20.00
1699	23816	0.12	41.29	1,363.21	5.04	30.83	7.81	20.00
1700	23818	0.22	47.42	1,363.21	5.04	39.96	11.34	20.00
1701	23820	0.24	64.31	1,363.32	5.04	60.67	24.84	20.00
1702	23822	0.15	59.69	1,363.36	5.04	56.02	22.90	20.00
1703	23824	0.00	79.68	1,363.50	5.04	76.20	29.60	20.00
1704	23826	0.27	82.36	1,363.32	5.04	76.17	20.32	20.00
1705	23828	0.00	86.56	1,363.59	5.04	83.21	32.04	20.00
1706	23830	0.12	90.88	1,363.33	5.04	83.40	18.87	20.00
1707	23832	0.05	91.96	1,363.32	5.04	85.99	22.06	20.00
1708	23834	0.00	58.13	1,259.15	5.04	54.90	35.86	20.00
1709	23836	0.00	53.44	1,253.02	5.04	46.94	19.04	20.00
1710	23838	0.00	40.99	1,253.03	5.04	32.51	10.56	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1711		23840	0.00	45.18	1,253.10	5.04	40.00	28.27	20.00
1712		23842	0.00	55.99	1,253.03	5.04	50.13	23.34	20.00
1713		23844	0.00	59.86	1,253.14	5.04	54.82	26.19	20.00
1714		23846	0.00	46.71	1,253.34	5.04	37.73	11.29	20.00
1715		23848	0.00	64.65	1,254.21	5.04	59.63	24.42	20.00
1716		23850	0.00	53.22	1,254.28	5.04	40.71	9.27	20.00
1717		23852	0.00	46.50	1,254.33	5.04	35.96	9.09	20.00
1718		23854	0.00	57.06	1,256.69	5.04	45.22	10.03	20.00
1719		23856	0.00	47.84	1,255.94	5.04	32.80	7.23	20.00
1720		23858	0.00	40.99	1,253.02	5.04	21.62	5.32	20.00
1721		23860	0.00	51.45	1,253.02	5.04	32.00	6.90	20.00
1722		23862	0.22	90.70	1,251.66	5.04	84.39	26.20	20.00
1723		23864	0.02	87.50	1,251.94	5.04	82.10	29.91	20.00
1724		23866	0.02	81.39	1,252.36	5.04	75.90	27.21	20.00
1725		23868	0.10	83.21	1,252.99	5.04	78.90	37.68	20.00
1726		23870	0.15	87.88	1,255.36	5.04	83.38	32.62	20.00
1727		23878	0.02	102.18	1,262.22	5.04	98.44	35.25	20.00
1728		23880	0.12	95.83	1,262.70	5.04	89.62	21.80	20.00
1729		23882	0.19	52.68	1,171.40	5.04	47.39	15.71	20.00
1730		23884	0.10	62.23	1,085.79	5.04	38.89	9.13	20.00
1731		23886	0.15	70.16	1,085.78	5.04	43.09	8.59	20.00
1732		23888	0.12	72.55	1,085.85	5.04	48.75	9.76	20.00
1733		23890	0.07	65.46	1,085.62	5.04	39.69	7.86	20.00
1734		23892	0.02	62.98	1,085.51	5.04	46.78	12.89	20.00
1735		23894	0.02	58.90	1,085.48	5.04	34.57	7.40	20.00
1736		23896	0.05	58.83	1,085.46	5.04	30.03	6.42	20.00
1737		23898	0.05	59.06	1,085.45	5.04	26.65	5.87	20.00
1738		23900	0.10	61.92	1,085.45	5.04	29.19	6.18	20.00
1739		23902	0.10	58.63	1,085.48	5.04	26.36	5.88	20.00
1740		23904	0.05	58.96	1,085.57	5.04	28.85	6.21	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1741		23906	0.05	87.42	1,086.74	5.04	58.96	9.70	20.00
1742		23908	0.03	64.13	1,087.84	5.04	42.00	9.18	20.00
1743		23910	0.03	91.50	1,091.16	5.04	71.48	13.08	20.00
1744		23912	0.00	91.51	1,091.20	5.04	67.67	11.19	20.00
1745		23914	0.00	91.52	1,091.21	5.04	67.45	11.11	20.00
1746		23916	0.05	92.26	1,091.24	5.04	70.37	12.21	20.00
1747		23918	0.05	81.12	1,094.24	5.04	55.92	9.34	20.00
1748		23920	0.07	87.03	1,090.02	5.04	60.53	9.93	20.00
1749		23922	0.07	81.93	1,088.99	5.04	54.27	9.23	20.00
1750		23924	0.05	58.03	1,088.22	5.04	31.97	7.00	20.00
1751		23926	0.05	56.82	1,087.55	5.04	35.27	8.86	20.00
1752		23928	0.17	61.00	1,095.68	5.04	36.61	7.52	20.00
1753		23930	0.14	61.73	1,097.47	5.04	39.50	8.18	20.00
1754		23932	0.41	87.13	1,095.90	5.04	82.67	34.27	20.00
1755		23934	0.02	71.25	1,099.44	5.04	70.52	86.26	20.01
1756		23936	0.09	73.99	1,097.47	5.04	71.59	46.76	20.00
1757		23938	0.22	74.53	1,098.09	5.04	70.28	24.31	20.00
1758		23940	0.07	70.82	1,098.29	5.04	67.16	26.12	20.00
1759		23942	0.03	68.69	1,098.42	5.04	65.47	27.93	20.00
1760		23944	0.19	73.64	1,098.13	5.04	65.31	15.17	20.00
1761		23946	0.09	71.36	1,098.34	5.04	66.78	22.16	20.00
1762		23948	0.05	68.82	1,098.35	5.04	65.25	26.20	20.00
1763		23950	0.07	69.67	1,098.32	5.04	65.30	22.36	20.00
1764		23952	0.03	71.24	1,098.46	5.04	67.82	27.92	20.00
1765		23954	0.02	67.99	1,098.39	5.04	64.20	24.51	20.00
1766		23956	0.03	64.98	1,098.38	5.04	61.07	22.99	20.00
1767		23958	0.02	75.17	1,098.49	5.04	71.78	29.46	20.00
1768		23960	0.05	71.72	1,099.23	5.04	61.58	12.83	20.00
1769		23962	0.03	71.73	1,099.23	5.04	61.30	12.61	20.00
1770		23966	0.03	70.94	1,098.54	5.04	65.92	20.15	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1771		23968	0.07	72.44	1,101.23	5.04	69.02	25.86	20.00
1772		23970	0.12	72.23	1,101.21	5.04	68.40	23.90	20.00
1773		23972	0.05	63.80	1,100.95	5.04	49.37	9.48	20.00
1774		23974	0.12	67.54	1,100.87	5.04	53.10	10.00	20.00
1775		23976	0.03	63.20	1,100.85	5.04	53.29	11.65	20.00
1776		23978	0.15	69.98	1,101.22	5.04	64.28	17.80	20.00
1777		23980	0.07	65.43	1,100.50	5.04	52.41	10.15	20.00
1778		23982	0.02	61.44	1,100.25	5.04	58.25	20.80	20.00
1779		23984	0.00	84.98	1,161.13	5.04	61.66	9.17	20.00
1780		23986	0.07	88.04	1,095.82	5.04	77.27	15.40	20.00
1781		23988	0.20	89.41	1,095.91	5.04	74.18	12.55	20.00
1782		23990	0.27	88.41	1,096.47	5.04	72.70	12.23	20.00
1783		23992	0.00	70.13	1,096.86	5.04	65.66	23.94	20.00
1784		23994	0.07	65.57	1,095.87	5.04	48.83	9.13	20.00
1785		23996	0.20	66.19	1,096.23	5.04	58.31	15.30	20.00
1786		23998	0.07	62.80	1,097.15	5.04	58.47	22.25	20.00
1787		240	0.00	85.93	1,162.70	5.04	36.86	5.92	20.00
1788		2400	0.00	78.38	1,163.18	5.04	27.55	5.44	20.00
1789		24000	0.03	67.18	1,099.37	5.04	66.18	64.33	20.00
1790		24004	0.00	56.49	1,163.36	5.04	46.13	10.30	20.00
1791		24006	0.00	56.49	1,163.37	5.04	48.11	11.67	20.00
1792		24008	0.00	53.13	1,107.06	5.04	28.28	5.93	20.00
1793		24010	0.15	83.22	1,107.06	5.04	69.80	12.40	20.00
1794		24012	0.00	87.32	1,106.52	5.04	64.22	9.13	20.00
1795		24014	0.00	85.12	1,106.44	5.04	67.25	10.39	20.00
1796		24016	0.00	84.98	1,106.12	5.04	72.08	12.58	20.00
1797		24018	0.00	84.24	1,105.74	5.04	69.44	11.52	20.00
1798		24020	0.00	82.69	1,105.83	5.04	65.89	10.55	20.00
1799		24022	0.00	82.68	1,105.82	5.04	61.92	9.33	20.00
1800		24024	0.00	78.34	1,105.80	5.04	52.54	7.93	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1801	24026	0.00	74.97	1,105.79	5.04	47.92	7.47	20.00
1802	24028	0.00	29.61	1,107.06	5.04	-14.35	2.10	20.00
1803	24030	0.00	48.67	1,107.06	5.04	12.77	4.44	20.00
1804	24032	0.05	67.69	1,170.97	5.04	39.18	12.64	20.00
1805	24034	0.15	79.07	1,170.80	5.04	50.51	13.66	20.00
1806	24036	0.03	85.75	1,170.65	5.04	57.22	13.80	20.00
1807	24038	0.03	77.17	1,170.32	5.04	39.52	9.54	20.00
1808	24040	0.05	72.46	1,170.28	5.04	32.30	7.65	20.00
1809	24042	0.22	71.89	1,170.27	5.04	30.48	7.29	20.00
1810	24046	0.02	80.28	1,170.28	5.04	40.04	8.88	20.00
1811	24048	0.02	77.01	1,170.56	5.04	48.53	12.73	20.00
1812	24050	0.00	81.18	1,170.53	5.04	52.74	13.08	20.00
1813	24052	0.05	58.69	1,171.17	5.04	33.01	11.09	20.00
1814	24054	0.02	95.50	1,263.93	5.04	82.96	13.79	20.00
1815	24056	0.05	87.62	1,264.18	5.04	86.56	81.16	20.01
1816	24058	0.07	86.20	1,263.93	5.04	84.45	49.75	20.00
1817	2406	0.00	77.59	1,163.17	5.04	-39.90	3.41	20.00
1818	24060	0.00	70.08	1,263.80	5.04	67.26	28.81	20.00
1819	24062	0.00	71.40	1,263.65	5.04	69.00	33.79	20.00
1820	2412	0.00	81.54	1,163.17	5.04	-2.81	4.24	20.00
1821	24148	0.02	84.98	1,161.13	5.04	63.24	9.59	20.00
1822	24150	0.02	88.77	1,161.13	5.04	65.90	9.60	20.00
1823	24152	0.02	84.98	1,161.13	5.04	63.60	9.69	20.00
1824	24154	0.07	68.09	1,263.65	5.04	65.54	30.97	20.00
1825	24156	0.03	70.77	1,263.75	5.04	67.89	28.72	20.00
1826	24158	0.00	62.06	1,163.35	5.04	56.34	15.93	20.00
1827	24160	0.00	66.90	1,160.88	5.04	52.10	9.75	20.00
1828	24162	0.00	76.89	1,162.45	5.04	63.68	11.47	20.00
1829	24164	0.00	75.00	1,163.18	5.04	70.17	20.83	20.00
1830	24166	0.00	73.07	1,163.64	5.04	71.65	59.14	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1831		24168	0.00	75.85	1,163.29	5.04	73.28	33.13	20.00
1832		24170	0.07	72.87	1,163.18	5.04	71.17	50.62	20.00
1833		24172	0.10	96.94	1,168.73	5.04	83.55	14.57	20.00
1834		24174	0.02	61.39	1,085.51	5.04	50.00	17.71	20.00
1835		24176	0.02	103.99	1,264.99	5.04	103.98	1,004.62	21.05
1836		24178	0.20	83.77	1,169.67	5.04	74.62	16.02	20.00
1837		24180	0.14	82.51	1,169.65	5.04	73.39	15.87	20.00
1838		24182	0.31	55.04	1,171.38	5.04	47.58	13.22	20.00
1839		24184	0.49	96.87	1,363.39	5.04	93.68	35.32	20.00
1840		24186	0.14	103.29	1,362.60	5.04	83.38	11.48	20.00
1841		24188	0.24	63.68	1,261.96	5.04	60.73	25.01	20.00
1842		24190	0.12	65.42	1,261.99	5.04	62.16	23.64	20.00
1843		24192	0.10	60.89	1,262.10	5.04	58.77	29.91	20.00
1844		24194	0.22	59.90	1,261.99	5.04	57.22	25.55	20.00
1845		24196	0.15	61.45	1,262.50	5.04	59.61	32.48	20.00
1846		24198	0.22	69.32	1,262.74	5.04	67.20	32.59	20.00
1847		24200	0.15	73.35	1,262.31	5.04	62.95	12.73	20.00
1848		24202	0.26	76.58	1,262.03	5.04	74.54	36.86	20.00
1849		24204	0.20	73.20	1,262.67	5.04	68.07	19.53	20.00
1850		24206	0.17	82.84	1,261.32	5.04	79.37	27.62	20.00
1851		24208	0.37	75.92	1,261.36	5.04	71.76	23.49	20.00
1852		24210	0.22	67.71	1,261.54	5.04	61.68	16.73	20.00
1853		24212	0.36	69.34	1,261.76	5.04	66.79	30.62	20.00
1854		24214	0.12	66.17	1,261.73	5.04	64.97	64.96	20.00
1855		24216	0.00	67.99	1,098.39	5.04	63.45	21.16	20.00
1856		24218	0.46	76.13	1,260.70	5.04	72.55	27.57	20.00
1857		24220	0.24	75.71	1,259.74	5.04	71.94	26.06	20.00
1858		24222	0.32	96.64	1,258.04	5.04	92.93	35.84	20.00
1859		24226	0.00	95.45	1,263.01	5.04	89.00	20.89	20.00
1860		24228	0.00	93.84	1,262.87	5.04	87.44	20.82	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1861	24230	0.00	93.84	1,262.87	5.04	84.85	16.77	20.00
1862	2446	0.05	77.98	1,163.11	5.04	-3.67	4.22	20.00
1863	2452	0.00	81.52	1,163.13	5.04	36.23	5.97	20.00
1864	246	0.00	85.60	1,162.73	5.04	-82.85	3.02	20.00
1865	248	0.00	85.48	1,162.73	5.04	0.88	4.38	20.00
1866	2486	0.02	76.81	1,163.11	5.04	-3.86	4.17	20.00
1867	2518	0.00	76.98	1,163.15	5.04	22.90	5.19	20.00
1868	252	0.00	86.15	1,162.71	5.04	22.59	5.15	20.00
1869	2552	0.02	75.97	1,163.08	5.04	-30.02	3.55	20.00
1870	2562	0.09	75.70	1,162.92	5.04	-133.24	2.50	20.00
1871	2572	0.02	74.69	1,163.14	5.04	-71.37	2.95	20.00
1872	2578	0.00	75.15	1,163.28	5.04	-27.84	3.58	20.00
1873	2598	0.02	72.85	1,163.14	5.04	-37.96	3.36	20.00
1874	2612	0.00	77.12	1,163.30	5.04	70.53	17.29	20.00
1875	2616	0.00	77.99	1,163.26	5.04	70.25	15.85	20.00
1876	2618	0.00	78.45	1,163.24	5.04	70.09	15.24	20.00
1877	2642	0.00	77.19	1,163.15	5.04	58.92	9.57	20.00
1878	2654	0.07	79.17	1,163.15	5.04	57.62	8.94	20.00
1879	2668	0.02	77.20	1,163.17	5.04	67.49	13.89	20.00
1880	2682	0.00	81.54	1,163.16	5.04	71.93	14.57	20.00
1881	2688	0.00	82.45	1,163.17	5.04	73.52	15.34	20.00
1882	2692	0.00	83.03	1,163.17	5.04	74.63	15.99	20.00
1883	2696	0.00	84.33	1,163.21	5.04	77.85	18.83	20.00
1884	2708	0.00	81.58	1,163.27	5.04	77.61	24.78	20.00
1885	2716	0.03	86.72	1,163.35	5.04	85.77	76.11	20.01
1886	272	0.00	87.26	1,162.71	5.04	-10.38	4.11	20.00
1887	2720	0.10	98.34	1,162.19	5.04	93.19	24.17	20.00
1888	2722	0.07	98.57	1,161.99	5.04	93.33	23.92	20.00
1889	2740	0.00	76.18	1,163.24	5.04	-41.51	3.37	20.00
1890	2742	0.02	92.05	1,262.86	5.04	48.20	6.65	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1891		2746	0.00	92.17	1,262.86	5.04	-49.88	3.48	20.00
1892		2776	0.00	94.49	1,262.92	5.04	50.92	6.78	20.00
1893		2782	0.05	72.01	1,161.19	5.04	64.81	16.36	20.00
1894		28	0.00	82.58	1,161.28	5.04	75.78	20.16	20.00
1895		2802	0.22	71.91	1,160.95	5.04	62.90	14.45	20.00
1896		2812	0.02	69.57	1,161.17	5.04	63.91	18.82	20.00
1897		2818	0.10	69.76	1,161.19	5.04	64.48	19.83	20.00
1898		2830	0.00	77.84	1,163.17	5.04	57.31	8.97	20.00
1899		2842	0.02	78.15	1,163.10	5.04	49.83	7.52	20.00
1900		2874	0.00	77.99	1,163.13	5.04	-16.87	3.85	20.00
1901		2880	0.02	77.87	1,163.13	5.04	43.67	6.76	20.00
1902		2890	0.00	77.82	1,163.14	5.04	52.64	7.99	20.00
1903		2894	0.00	77.83	1,163.17	5.04	57.51	9.03	20.00
1904		2896	0.00	77.67	1,163.21	5.04	56.60	8.82	20.00
1905		2914	0.00	78.47	1,163.06	5.04	54.98	8.36	20.00
1906		2920	0.00	78.39	1,163.15	5.04	51.46	7.74	20.00
1907		294	0.00	85.67	1,162.72	5.04	-58.76	3.28	20.00
1908		2954	0.00	79.44	1,160.03	5.04	55.13	8.45	20.00
1909		2956	0.00	79.41	1,160.03	5.04	54.64	8.34	20.00
1910		2960	0.00	79.38	1,160.03	5.04	53.91	8.20	20.00
1911		2970	0.02	78.70	1,160.05	5.04	49.46	7.52	20.00
1912		298	0.00	89.11	1,162.72	5.04	-165.47	2.49	20.00
1913		2990	0.02	75.86	1,160.08	5.04	45.51	7.15	20.00
1914		3006	0.00	78.63	1,160.14	5.04	52.23	7.95	20.00
1915		3014	0.00	78.15	1,163.20	5.04	38.95	6.26	20.00
1916		3018	0.00	78.11	1,163.21	5.04	44.61	6.83	20.00
1917		302	0.00	87.41	1,162.73	5.04	-34.98	3.64	20.00
1918		3020	0.00	77.51	1,163.23	5.04	53.14	8.11	20.00
1919		3022	0.00	77.82	1,163.22	5.04	46.83	7.11	20.00
1920		3032	0.00	77.90	1,163.20	5.04	-56.55	3.19	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1921	3036	0.00	77.74	1,163.20	5.04	10.05	4.62	20.00
1922	304	0.00	87.76	1,162.73	5.04	-119.60	2.75	20.00
1923	3042	0.00	77.94	1,163.20	5.04	11.01	4.66	20.00
1924	3046	0.00	77.79	1,163.20	5.04	25.80	5.34	20.00
1925	3054	0.00	77.64	1,163.20	5.04	40.39	6.41	20.00
1926	306	0.00	86.22	1,162.74	5.04	23.28	5.18	20.00
1927	3076	0.02	81.54	1,163.19	5.04	15.45	4.86	20.00
1928	3078	0.00	77.68	1,163.19	5.04	40.04	6.38	20.00
1929	3120	0.00	77.23	1,163.24	5.04	33.54	5.85	20.00
1930	3122	0.00	77.23	1,163.24	5.04	31.03	5.67	20.00
1931	3130	0.00	77.23	1,163.24	5.04	-15.38	3.87	20.00
1932	3142	0.02	77.23	1,163.23	5.04	-71.80	3.01	20.00
1933	3164	0.00	77.23	1,163.24	5.04	21.96	5.14	20.00
1934	3192	0.02	71.87	1,160.86	5.04	67.58	25.00	20.00
1935	3194	0.02	71.86	1,160.84	5.04	67.48	24.64	20.00
1936	3200	0.00	71.87	1,160.86	5.04	56.14	9.94	20.00
1937	3204	0.02	73.24	1,160.92	5.04	69.36	27.31	20.00
1938	3222	0.03	80.51	1,160.81	5.04	-74.45	3.01	20.00
1939	3238	0.00	75.88	1,163.24	5.04	-52.20	3.21	20.00
1940	3262	0.00	71.39	1,164.98	5.04	71.35	350.81	20.13
1941	3274	0.02	96.99	1,162.60	5.04	-77.26	3.24	20.00
1942	3290	0.26	74.12	1,163.53	5.04	73.07	59.32	20.00
1943	3308	0.00	73.36	1,163.29	5.04	29.54	5.61	20.00
1944	3316	0.00	73.41	1,163.29	5.04	-851.22	1.08	20.00
1945	3326	0.00	72.89	1,163.34	5.04	44.82	7.12	20.00
1946	3340	0.02	72.77	1,163.15	5.04	53.31	8.72	20.00
1947	3344	0.00	77.29	1,163.38	5.04	76.58	103.34	20.01
1948	3346	0.00	72.95	1,163.14	5.04	72.09	86.54	20.01
1949	3362	0.00	79.22	1,161.21	5.04	28.53	5.50	20.00
1950	3364	0.00	78.92	1,161.18	5.04	25.44	5.32	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1951	3368	0.02	79.38	1,161.17	5.04	-561.78	1.39	20.00
1952	338	0.00	88.93	1,162.53	5.04	85.82	31.10	20.00
1953	3380	0.15	75.91	1,162.84	5.04	57.08	9.48	20.00
1954	340	0.00	89.08	1,162.20	5.04	85.16	26.71	20.00
1955	3482	0.10	78.72	1,161.15	5.04	23.36	5.31	20.00
1956	3502	0.00	78.89	1,161.28	5.04	-24.37	3.70	20.00
1957	3506	0.00	79.12	1,161.28	5.04	35.06	5.95	20.00
1958	3508	0.02	78.18	1,161.35	5.04	-5.71	4.13	20.00
1959	3516	0.02	79.11	1,161.35	5.04	43.42	6.71	20.00
1960	3566	0.00	81.86	1,108.04	5.04	81.28	161.30	20.03
1961	3628	0.02	80.44	1,171.96	5.04	-117.10	2.60	20.00
1962	3634	0.00	77.49	1,162.64	5.04	75.37	42.26	20.00
1963	3636	0.00	77.49	1,162.64	5.04	75.38	42.44	20.00
1964	3646	0.03	67.71	1,161.27	5.04	43.35	7.37	20.00
1965	3664	0.02	65.42	1,085.97	5.04	-120.21	2.06	20.00
1966	3680	0.02	61.09	1,086.00	5.04	-73.61	2.26	20.00
1967	374	0.00	73.96	1,160.86	5.04	55.17	9.15	20.00
1968	3760	0.03	63.46	1,171.45	5.04	-181.24	1.97	20.00
1969	3782	0.03	64.99	1,172.03	5.04	14.37	4.75	20.00
1970	3784	0.02	73.14	1,169.72	5.04	56.66	10.02	20.00
1971	38	0.00	77.28	1,163.36	5.04	58.43	9.25	20.00
1972	3816	0.00	69.91	1,168.50	5.04	5.38	4.34	20.00
1973	382	0.00	73.98	1,160.86	5.04	54.79	9.04	20.00
1974	3830	0.00	71.85	1,168.45	5.04	-148.13	2.25	20.00
1975	3834	0.00	69.40	1,168.45	5.04	-161.07	2.14	20.00
1976	3838	0.00	79.46	1,168.48	5.04	-163.57	2.31	20.00
1977	3842	0.00	72.26	1,168.48	5.04	-135.60	2.34	20.00
1978	3854	0.00	60.72	1,086.00	5.04	-18.91	3.02	20.00
1979	3856	0.05	59.62	1,085.68	5.04	-179.28	1.68	20.00
1980	3870	0.03	96.65	1,168.61	5.04	42.19	6.18	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
1981	3886	0.00	81.19	1,168.31	5.04	-135.82	2.48	20.00
1982	3896	0.00	83.35	1,169.01	5.04	55.92	8.15	20.00
1983	3916	0.02	76.87	1,172.41	5.04	-96.04	2.74	20.00
1984	3926	0.02	61.09	1,085.99	5.04	-23.54	2.96	20.00
1985	3944	0.02	78.93	1,169.43	5.04	51.13	7.75	20.00
1986	4006	0.02	59.52	1,169.75	5.04	26.60	5.62	20.00
1987	402	0.00	71.87	1,160.86	5.04	60.67	12.24	20.00
1988	4036	0.02	59.93	1,088.31	5.04	35.17	8.17	20.00
1989	4056	0.00	84.99	1,168.97	5.04	16.20	4.88	20.00
1990	406	0.00	71.87	1,160.86	5.04	62.50	13.73	20.00
1991	4076	0.02	73.45	1,172.34	5.04	38.46	6.45	20.00
1992	410	0.00	71.88	1,160.89	5.04	62.59	13.78	20.00
1993	4116	0.00	61.19	1,086.00	5.04	-169.16	1.73	20.00
1994	412	0.00	71.87	1,160.87	5.04	60.43	12.06	20.00
1995	4138	0.02	64.91	1,087.62	5.04	37.69	8.31	20.00
1996	4142	0.02	61.77	1,169.97	5.04	40.59	7.52	20.00
1997	4182	0.00	62.45	1,170.45	5.04	50.46	10.52	20.00
1998	42	0.00	76.15	1,163.24	5.04	-27.01	3.62	20.00
1999	4212	0.02	63.02	1,170.44	5.04	33.49	6.24	20.00
2000	4218	0.00	59.28	1,170.44	5.04	21.75	5.17	20.00
2001	422	0.00	75.15	1,160.86	5.04	30.81	5.69	20.00
2002	4258	0.00	63.76	1,170.44	5.04	51.79	10.71	20.00
2003	4262	0.00	80.75	1,171.96	5.04	-130.54	2.50	20.00
2004	4264	0.00	80.83	1,171.96	5.04	-139.63	2.45	20.00
2005	4268	0.02	76.71	1,171.96	5.04	-221.97	2.01	20.00
2006	4274	0.02	80.33	1,172.27	5.04	0.71	4.32	20.00
2007	4278	0.00	73.76	1,172.49	5.04	21.18	5.10	20.00
2008	4284	0.02	82.80	1,172.27	5.04	-96.72	2.83	20.00
2009	4288	0.02	82.99	1,172.28	5.04	33.86	5.83	20.00
2010	4294	0.00	81.22	1,171.93	5.04	-137.11	2.46	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2011	4298	0.02	80.98	1,171.89	5.04	-251.52	1.97	20.00
2012	430	0.02	74.11	1,160.87	5.04	54.00	8.83	20.00
2013	4306	0.00	88.51	1,169.11	5.04	-130.06	2.65	20.00
2014	4316	0.00	96.34	1,169.17	5.04	25.60	5.26	20.00
2015	4326	0.00	97.11	1,169.11	5.04	-62.80	3.36	20.00
2016	4342	0.00	97.11	1,169.11	5.04	13.92	4.83	20.00
2017	4368	0.03	73.25	1,171.95	5.04	22.19	5.20	20.00
2018	4372	0.02	76.62	1,171.83	5.04	7.25	4.50	20.00
2019	4376	0.02	77.97	1,171.83	5.04	20.40	5.08	20.00
2020	4424	0.03	72.21	1,171.66	5.04	-20.74	3.66	20.00
2021	4438	0.02	69.52	1,169.87	5.04	53.91	9.85	20.00
2022	4448	0.02	61.30	1,169.75	5.04	27.45	5.67	20.00
2023	4466	0.02	64.32	1,172.22	5.04	26.71	5.55	20.00
2024	4480	0.02	68.13	1,172.23	5.04	16.13	4.84	20.00
2025	4494	0.02	62.35	1,171.72	5.04	1.64	4.14	20.00
2026	4496	0.00	60.48	1,171.72	5.04	-115.30	2.25	20.00
2027	450	0.02	71.87	1,160.86	5.04	27.59	5.52	20.00
2028	4502	0.02	63.29	1,172.35	5.04	-6.31	3.89	20.00
2029	4546	0.02	79.70	1,169.30	5.04	46.95	7.10	20.00
2030	4570	0.00	81.73	1,169.20	5.04	-210.99	2.16	20.00
2031	4576	0.00	84.77	1,169.20	5.04	-80.59	3.02	20.00
2032	4632	0.02	80.75	1,169.79	5.04	14.34	4.81	20.00
2033	4646	0.02	71.89	1,168.55	5.04	17.79	4.94	20.00
2034	4664	0.00	71.13	1,168.76	5.04	-98.11	2.60	20.00
2035	4692	0.02	64.61	1,170.25	5.04	19.48	5.02	20.00
2036	4694	0.02	63.16	1,170.25	5.04	18.97	4.99	20.00
2037	472	0.02	71.73	1,164.05	5.04	-15.81	3.80	20.00
2038	474	0.02	71.87	1,164.04	5.04	-72.76	2.90	20.00
2039	4774	0.00	78.87	1,168.61	5.04	-1.44	4.23	20.00
2040	4778	0.00	77.36	1,168.61	5.04	-60.66	3.09	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2041		4798	0.00	79.69	1,168.52	5.04	9.93	4.61	20.00
2042		4814	0.03	61.00	1,085.77	5.04	-71.32	2.30	20.00
2043		4844	0.02	61.34	1,085.84	5.04	-46.04	2.59	20.00
2044		4882	0.00	81.61	1,169.05	5.04	26.81	5.38	20.00
2045		4902	0.02	86.50	1,168.27	5.04	-139.41	2.55	20.00
2046		4910	0.00	84.01	1,168.28	5.04	-46.07	3.36	20.00
2047		4930	0.00	81.56	1,168.99	5.04	56.91	8.56	20.00
2048		4998	0.03	71.11	1,172.60	5.04	13.78	4.76	20.00
2049		5016	0.02	57.70	1,085.90	5.04	-14.56	3.02	20.00
2050		5028	0.02	78.36	1,172.27	5.04	-61.43	3.11	20.00
2051		5042	0.00	73.04	1,172.60	5.04	38.40	6.41	20.00
2052		5056	0.03	76.75	1,171.85	5.04	-287.24	1.81	20.00
2053		5070	0.02	74.75	1,172.29	5.04	-59.22	3.08	20.00
2054		5074	0.02	74.37	1,172.29	5.04	31.05	5.76	20.00
2055		5078	0.02	74.57	1,172.34	5.04	14.55	4.79	20.00
2056		510	0.00	72.29	1,164.00	5.04	48.66	7.77	20.00
2057		5104	0.03	70.09	1,086.69	5.04	-24.03	3.32	20.00
2058		5128	0.02	70.55	1,172.83	5.04	20.46	5.08	20.00
2059		5158	0.02	66.41	1,086.09	5.04	-70.22	2.49	20.00
2060		5202	0.00	84.97	1,161.09	5.04	2.42	4.41	20.00
2061		5210	0.00	89.42	1,161.09	5.04	17.97	4.96	20.00
2062		5224	0.02	87.45	1,161.08	5.04	-3.75	4.27	20.00
2063		5228	0.02	87.16	1,161.08	5.04	-17.98	3.94	20.00
2064		5232	0.03	62.98	1,100.25	5.04	60.28	23.32	20.00
2065		5250	0.03	71.62	1,170.30	5.04	32.18	7.75	20.00
2066		5252	0.00	80.29	1,170.30	5.04	38.66	8.29	20.00
2067		5254	0.00	75.95	1,170.34	5.04	39.83	9.80	20.00
2068		5258	0.00	75.75	1,170.34	5.04	37.31	8.90	20.00
2069		5270	0.00	118.46	1,263.80	5.04	66.23	7.17	20.00
2070		5278	0.00	71.25	1,169.78	5.04	63.80	16.83	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2071		5282	0.02	71.94	1,167.93	5.04	-7.26	3.94	20.00
2072		5328	0.00	89.99	1,162.69	5.04	57.83	7.72	20.00
2073		5330	0.00	85.96	1,162.69	5.04	80.71	21.36	20.00
2074		5360	0.02	85.36	1,162.68	5.04	-6.62	4.20	20.00
2075		5362	0.00	85.93	1,162.69	5.04	-16.32	3.97	20.00
2076		538	0.00	72.12	1,164.15	5.04	63.82	13.88	20.00
2077		5386	0.00	86.23	1,162.69	5.04	43.68	6.42	20.00
2078		5402	0.00	86.17	1,162.69	5.04	69.36	10.76	20.00
2079		5416	0.02	69.15	1,168.59	5.04	-2.48	4.06	20.00
2080		5434	0.02	79.53	1,168.54	5.04	-7.52	4.07	20.00
2081		5442	0.02	77.49	1,168.53	5.04	-8.28	4.02	20.00
2082		5448	0.02	76.27	1,168.73	5.04	18.42	4.98	20.00
2083		5474	0.02	79.50	1,168.47	5.04	11.98	4.70	20.00
2084		5480	0.02	79.96	1,168.51	5.04	6.29	4.49	20.00
2085		550	0.02	76.59	1,162.82	5.04	52.38	8.05	20.00
2086		5576	0.02	70.90	1,167.68	5.04	-48.13	3.07	20.00
2087		5594	0.02	70.74	1,167.68	5.04	-109.89	2.44	20.00
2088		5614	0.02	70.70	1,167.76	5.04	-28.83	3.40	20.00
2089		5620	0.02	70.52	1,167.74	5.04	-31.26	3.35	20.00
2090		5622	0.02	71.35	1,167.82	5.04	-16.18	3.69	20.00
2091		5640	0.02	65.57	1,167.72	5.04	-51.15	2.92	20.00
2092		5642	0.02	70.51	1,167.72	5.04	-63.12	2.88	20.00
2093		5660	0.02	69.94	1,167.77	5.04	-36.32	3.25	20.00
2094		5666	0.02	71.00	1,167.77	5.04	-75.78	2.75	20.00
2095		5684	0.07	61.34	1,167.71	5.04	-39.35	3.03	20.00
2096		5722	0.17	82.81	1,106.11	5.04	79.81	41.29	20.00
2097		5732	0.07	81.76	1,107.95	5.04	80.21	52.63	20.00
2098		5734	0.12	75.05	1,167.68	5.04	-31.70	3.52	20.00
2099		5736	0.02	80.89	1,167.72	5.04	-22.20	3.71	20.00
2100		574	0.02	78.02	1,162.81	5.04	-76.38	2.98	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2101		5750	0.03	74.76	1,167.87	5.04	-10.11	3.92	20.00
2102		5786	0.00	90.46	1,162.70	5.04	-8.33	4.19	20.00
2103		58	0.10	77.67	1,168.76	5.04	66.27	13.71	20.00
2104		580	0.00	70.25	1,168.85	5.04	44.18	7.34	20.00
2105		5824	0.00	89.91	1,162.70	5.04	33.60	5.67	20.00
2106		5826	0.00	89.86	1,162.70	5.04	31.08	5.54	20.00
2107		5828	0.00	89.62	1,162.70	5.04	27.70	5.37	20.00
2108		5838	0.03	70.63	1,161.22	5.04	46.90	7.73	20.00
2109		5846	0.03	70.79	1,161.23	5.04	66.21	21.94	20.00
2110		5848	0.02	67.71	1,161.27	5.04	63.83	23.71	20.00
2111		5858	0.02	89.25	1,262.82	5.04	-290.44	2.00	20.00
2112		5876	0.02	91.07	1,262.86	5.04	38.69	5.99	20.00
2113		5880	0.00	94.77	1,262.84	5.04	-3.84	4.33	20.00
2114		5882	0.02	88.46	1,262.84	5.04	-26.73	3.80	20.00
2115		5888	0.00	90.42	1,262.84	5.04	-0.13	4.39	20.00
2116		5908	0.02	94.37	1,262.80	5.04	-615.23	1.49	20.00
2117		5920	0.00	84.96	1,161.08	5.04	18.85	4.99	20.00
2118		5922	0.00	86.50	1,161.17	5.04	36.69	5.93	20.00
2119		5926	0.03	79.74	1,161.40	5.04	14.29	4.82	20.00
2120		5938	0.00	91.64	1,163.28	5.04	90.67	81.31	20.01
2121		5962	0.02	86.54	1,163.33	5.04	83.65	30.58	20.00
2122		5964	0.00	86.58	1,163.34	5.04	85.64	76.00	20.01
2123		598	0.00	70.57	1,168.85	5.04	-27.13	3.50	20.00
2124		5980	0.02	52.55	1,086.11	5.04	31.82	9.62	20.00
2125		6004	0.00	93.62	1,163.40	5.04	92.61	80.97	20.01
2126		6026	0.00	93.26	1,161.12	5.04	-25.71	3.85	20.00
2127		6028	0.00	84.98	1,161.12	5.04	-128.06	2.63	20.00
2128		6030	0.00	93.17	1,161.12	5.04	-60.96	3.34	20.00
2129		6032	0.00	93.05	1,161.12	5.04	-47.97	3.51	20.00
2130		6046	0.00	111.22	1,263.86	5.04	81.25	9.37	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2131		6052	0.00	102.58	1,263.90	5.04	82.27	11.02	20.00
2132		6072	0.00	85.43	1,172.25	5.04	72.25	12.90	20.00
2133		6100	0.00	57.44	1,170.43	5.04	40.34	7.88	20.00
2134		6112	0.00	72.29	1,169.84	5.04	66.94	21.81	20.00
2135		6116	0.00	55.85	1,170.42	5.04	38.53	7.63	20.00
2136		612	0.02	74.41	1,168.85	5.04	20.53	5.08	20.00
2137		6120	0.00	78.57	1,099.10	5.04	52.77	7.99	20.00
2138		6124	0.03	78.73	1,099.09	5.04	49.13	7.43	20.00
2139		6130	0.05	79.12	1,098.60	5.04	71.33	16.59	20.00
2140		6138	0.00	79.77	1,098.55	5.04	-29.86	3.61	20.00
2141		6140	0.02	79.05	1,098.40	5.04	49.16	7.43	20.00
2142		6142	0.14	79.15	1,098.38	5.04	45.53	7.08	20.00
2143		6154	0.03	76.76	1,163.15	5.04	13.02	4.76	20.00
2144		6176	0.00	73.22	1,163.98	5.04	47.41	7.49	20.00
2145		6222	0.03	69.19	1,100.32	5.04	2.34	4.30	20.00
2146		6236	0.00	72.12	1,169.82	5.04	65.03	17.46	20.00
2147		6238	0.00	71.85	1,169.83	5.04	64.87	17.57	20.00
2148		6284	0.00	81.23	1,172.57	5.04	75.83	25.66	20.00
2149		6286	0.00	77.34	1,162.76	5.04	50.86	7.69	20.00
2150		6292	0.00	77.53	1,162.76	5.04	25.06	5.30	20.00
2151		6308	0.00	77.24	1,162.76	5.04	51.15	7.74	20.00
2152		6322	0.00	78.34	1,162.76	5.04	68.66	13.67	20.00
2153		6338	0.00	77.71	1,162.76	5.04	32.19	5.73	20.00
2154		634	0.00	76.60	1,168.86	5.04	16.75	4.89	20.00
2155		6348	0.00	78.19	1,162.76	5.04	75.20	28.36	20.00
2156		6350	0.00	78.36	1,162.76	5.04	75.37	28.44	20.00
2157		6362	0.00	92.57	1,162.30	5.04	-140.75	2.63	20.00
2158		6388	0.02	91.13	1,162.40	5.04	-121.31	2.76	20.00
2159		6390	0.00	90.17	1,162.40	5.04	-292.37	1.98	20.00
2160		6392	0.00	90.06	1,162.68	5.04	-20.64	3.91	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2161		6394	0.02	91.78	1,162.11	5.04	-123.39	2.74	20.00
2162		64	0.00	71.87	1,160.86	5.04	50.41	8.28	20.00
2163		6400	0.07	90.86	1,162.07	5.04	-98.94	2.96	20.00
2164		6406	0.07	91.84	1,162.04	5.04	-124.89	2.77	20.00
2165		6408	0.02	90.78	1,162.09	5.04	-115.65	2.78	20.00
2166		6414	0.02	94.09	1,162.14	5.04	-77.01	3.16	20.00
2167		6420	0.02	89.48	1,162.55	5.04	12.20	4.76	20.00
2168		6436	0.00	90.00	1,162.69	5.04	-17.04	3.98	20.00
2169		6456	0.00	87.58	1,162.87	5.04	67.11	9.88	20.00
2170		6460	0.00	76.90	1,162.48	5.04	56.86	8.97	20.00
2171		6474	0.07	81.51	1,162.03	5.04	79.67	45.78	20.00
2172		6488	0.02	82.66	1,161.40	5.04	37.84	6.11	20.00
2173		6494	0.00	82.12	1,161.42	5.04	49.80	7.30	20.00
2174		650	0.00	73.99	1,168.93	5.04	-17.91	3.76	20.00
2175		6518	0.07	72.69	1,162.77	5.04	-9.86	4.00	20.00
2176		6538	0.02	64.41	1,169.89	5.04	1.44	4.17	20.00
2177		6556	0.02	67.11	1,169.88	5.04	4.72	4.33	20.00
2178		6568	0.00	65.62	1,169.86	5.04	49.86	9.39	20.00
2179		6570	0.05	65.57	1,169.86	5.04	48.89	9.12	20.00
2180		6572	0.00	65.80	1,169.98	5.04	60.99	21.96	20.00
2181		6574	0.00	63.95	1,170.02	5.04	59.26	21.87	20.00
2182		6596	0.00	93.96	1,262.86	5.04	66.37	8.72	20.00
2183		66	0.07	83.12	1,163.77	5.04	-108.92	2.80	20.00
2184		6600	0.00	94.07	1,262.86	5.04	0.44	4.43	20.00
2185		6604	0.00	93.86	1,262.86	5.04	64.93	8.49	20.00
2186		6608	0.00	93.94	1,262.86	5.04	0.83	4.44	20.00
2187		6642	0.02	93.92	1,262.91	5.04	49.73	6.72	20.00
2188		6652	0.00	93.21	1,262.91	5.04	47.30	6.53	20.00
2189		6654	0.00	93.57	1,262.93	5.04	53.46	7.06	20.00
2190		6658	0.00	94.06	1,262.93	5.04	19.47	5.02	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2191		6670	0.00	95.45	1,263.01	5.04	88.14	19.29	20.00
2192		6686	0.05	89.70	1,161.65	5.04	75.70	12.54	20.00
2193		6692	0.00	76.25	1,162.70	5.04	73.26	30.27	20.00
2194		6698	0.00	77.40	1,162.69	5.04	75.45	46.43	20.00
2195		6704	0.00	62.81	1,170.36	5.04	59.17	26.63	20.00
2196		6720	0.10	74.97	1,161.13	5.04	72.67	42.97	20.00
2197		6728	0.02	79.78	1,161.54	5.04	-6.68	4.12	20.00
2198		6730	0.00	73.39	1,164.37	5.04	73.04	153.17	20.02
2199		6740	0.00	78.41	1,163.36	5.04	43.03	6.64	20.00
2200		6742	0.00	72.96	1,163.38	5.04	14.28	4.77	20.00
2201		6746	0.02	90.09	1,162.90	5.04	79.82	15.19	20.00
2202		6748	0.02	90.87	1,164.18	5.04	75.87	11.94	20.00
2203		676	0.00	73.49	1,168.93	5.04	-16.16	3.79	20.00
2204		6762	0.00	74.95	1,161.61	5.04	55.53	9.01	20.00
2205		678	0.00	71.64	1,168.93	5.04	-69.66	2.90	20.00
2206		6784	0.00	82.64	1,172.38	5.04	73.64	16.70	20.00
2207		6824	0.00	82.59	1,172.36	5.04	72.79	15.26	20.00
2208		6846	0.00	68.38	1,086.01	5.04	-107.77	2.20	20.00
2209		6850	0.07	68.40	1,085.70	5.04	-97.20	2.31	20.00
2210		6854	0.02	83.16	1,161.37	5.04	-719.71	1.28	20.00
2211		6858	0.00	83.44	1,161.41	5.04	77.23	21.62	20.00
2212		6862	0.00	76.32	1,163.92	5.04	50.90	7.79	20.00
2213		6886	0.00	73.56	1,164.76	5.04	61.76	11.54	20.00
2214		6914	0.00	73.63	1,164.92	5.04	69.62	20.90	20.00
2215		6920	0.00	73.63	1,164.92	5.04	68.20	17.63	20.00
2216		6924	0.00	78.67	1,164.96	5.04	77.51	44.19	20.00
2217		6930	0.00	78.12	1,164.97	5.04	78.08	397.25	20.16
2218		6956	0.03	76.43	1,164.44	5.04	55.03	8.60	20.00
2219		698	0.00	61.62	1,088.27	5.04	-19.24	3.21	20.00
2220		6980	0.07	90.04	1,162.80	5.04	-66.11	3.30	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2221		70	0.00	83.45	1,163.84	5.04	-11.75	4.03	20.00
2222		7032	0.02	85.26	1,162.88	5.04	27.69	5.42	20.00
2223		7048	0.00	90.08	1,162.88	5.04	77.01	13.16	20.00
2224		7056	0.00	87.55	1,162.88	5.04	74.65	12.99	20.00
2225		7070	0.07	89.65	1,162.87	5.04	63.32	8.76	20.00
2226		7074	0.00	89.52	1,161.61	5.04	85.45	27.30	20.00
2227		708	0.00	61.19	1,088.27	5.04	-52.59	2.60	20.00
2228		7090	0.02	78.96	1,098.55	5.04	-33.65	3.54	20.00
2229		7092	0.02	78.49	1,098.57	5.04	27.61	5.46	20.00
2230		7102	0.02	79.20	1,098.55	5.04	-39.57	3.45	20.00
2231		7134	0.02	79.48	1,097.27	5.04	64.94	11.31	20.00
2232		7136	0.02	79.45	1,097.27	5.04	75.74	32.24	20.00
2233		7138	0.12	79.43	1,097.26	5.04	75.71	32.26	20.00
2234		7140	0.02	73.79	1,171.87	5.04	-82.42	2.79	20.00
2235		7148	0.00	71.22	1,171.88	5.04	15.05	4.78	20.00
2236		7152	0.00	83.69	1,172.30	5.04	69.71	12.21	20.00
2237		7154	0.00	83.64	1,172.30	5.04	69.93	12.35	20.00
2238		7156	0.02	102.48	1,264.52	5.04	99.44	33.73	20.00
2239		7158	0.02	103.76	1,264.88	5.04	102.99	80.43	20.01
2240		7164	0.02	61.30	1,174.65	5.04	5.28	4.29	20.00
2241		7166	0.02	64.49	1,174.65	5.04	64.17	133.10	20.02
2242		7180	0.02	71.40	1,170.72	5.04	-15.81	3.79	20.00
2243		7198	0.03	71.81	1,170.72	5.04	68.15	28.74	20.00
2244		7204	0.02	71.68	1,170.90	5.04	68.12	29.23	20.00
2245		7206	0.03	82.33	1,172.56	5.04	52.33	7.63	20.00
2246		7220	0.00	80.78	1,172.58	5.04	75.42	25.51	20.00
2247		7224	0.00	84.98	1,161.12	5.04	-131.75	2.60	20.00
2248		7232	0.00	93.64	1,161.12	5.04	41.39	6.12	20.00
2249		7234	0.02	93.64	1,161.12	5.04	27.39	5.37	20.00
2250		7238	0.00	84.98	1,161.12	5.04	-266.56	2.00	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2251		7258	0.02	78.59	1,099.10	5.04	52.32	7.92	20.00
2252		7260	0.03	77.67	1,099.12	5.04	55.83	8.75	20.00
2253		7292	0.10	76.92	1,099.07	5.04	30.04	5.72	20.00
2254		7322	0.05	72.25	1,161.73	5.04	68.71	25.83	20.00
2255		7324	0.02	72.32	1,161.91	5.04	69.02	27.07	20.00
2256		7366	0.07	72.19	1,161.60	5.04	33.84	6.05	20.00
2257		7370	0.00	72.19	1,161.61	5.04	58.43	10.67	20.00
2258		7372	0.03	72.19	1,161.61	5.04	68.56	25.33	20.00
2259		7380	0.00	82.67	1,161.04	5.04	-73.86	3.02	20.00
2260		7382	0.00	82.69	1,161.08	5.04	-49.69	3.32	20.00
2261		7384	0.10	81.12	1,158.94	5.04	-1,369.58	0.93	20.00
2262		7386	0.00	82.84	1,161.28	5.04	76.29	20.87	20.00
2263		7410	0.02	72.86	1,163.15	5.04	15.53	4.84	20.00
2264		7412	0.02	72.86	1,163.16	5.04	29.28	5.63	20.00
2265		7424	0.00	72.87	1,163.17	5.04	46.68	7.46	20.00
2266		7426	0.02	72.88	1,163.19	5.04	71.17	50.74	20.00
2267		7442	0.02	80.63	1,161.50	5.04	-354.41	1.72	20.00
2268		7462	0.00	76.48	1,161.52	5.04	-152.34	2.33	20.00
2269		7466	0.02	76.48	1,161.52	5.04	-149.26	2.36	20.00
2270		7470	0.00	81.56	1,163.24	5.04	34.11	5.81	20.00
2271		7480	0.00	71.61	1,163.82	5.04	65.65	17.10	20.00
2272		7496	0.00	71.10	1,163.86	5.04	67.14	21.84	20.00
2273		7524	0.02	67.27	1,161.78	5.04	19.93	5.05	20.00
2274		7528	0.00	67.23	1,161.86	5.04	57.24	12.38	20.00
2275		7538	0.09	68.07	1,161.55	5.04	58.13	12.66	20.00
2276		7552	0.10	67.92	1,161.55	5.04	19.92	5.14	20.00
2277		756	0.20	86.12	1,168.76	5.04	76.52	17.13	20.00
2278		7568	0.00	66.92	1,161.80	5.04	19.90	5.03	20.00
2279		7576	0.00	67.33	1,161.62	5.04	-18.49	3.62	20.00
2280		7588	0.00	67.04	1,161.55	5.04	-57.97	2.92	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2281		7594	0.00	66.56	1,161.66	5.04	-58.16	2.91	20.00
2282		7598	0.00	66.76	1,161.55	5.04	-67.89	2.79	20.00
2283		76	0.02	72.90	1,161.34	5.04	55.12	9.28	20.00
2284		7600	0.02	66.40	1,161.79	5.04	-12.04	3.78	20.00
2285		7614	0.07	66.87	1,161.51	5.04	-105.52	2.50	20.00
2286		7616	0.00	63.69	1,161.99	5.04	54.25	12.25	20.00
2287		7650	0.02	71.50	1,163.82	5.04	62.80	13.64	20.00
2288		7666	0.02	70.43	1,163.83	5.04	53.80	9.31	20.00
2289		7698	0.05	63.48	1,161.51	5.04	-178.71	1.99	20.00
2290		7738	0.00	76.63	1,162.49	5.04	73.78	34.12	20.00
2291		7740	0.00	77.39	1,162.66	5.04	75.29	43.69	20.00
2292		7742	0.00	77.34	1,162.66	5.04	55.21	8.53	20.00
2293		7746	0.00	77.40	1,162.67	5.04	63.13	10.96	20.00
2294		7748	0.00	77.23	1,162.49	5.04	56.65	8.92	20.00
2295		7752	0.00	76.60	1,162.50	5.04	10.78	4.64	20.00
2296		7754	0.02	77.07	1,162.52	5.04	74.68	37.23	20.00
2297		7768	0.00	63.53	1,161.62	5.04	53.37	11.71	20.00
2298		7796	0.00	77.08	1,162.49	5.04	-44.52	3.34	20.00
2299		7804	0.03	76.59	1,162.49	5.04	8.32	4.58	20.00
2300		7812	0.00	76.83	1,162.51	5.04	34.05	5.89	20.00
2301		7822	0.03	73.02	1,159.97	5.04	-23.77	3.63	20.00
2302		7830	0.10	74.23	1,159.62	5.04	32.81	6.02	20.00
2303		7832	0.14	75.66	1,159.62	5.04	34.07	6.13	20.00
2304		7838	0.02	73.43	1,159.61	5.04	-1.34	4.17	20.00
2305		7858	0.14	75.70	1,159.70	5.04	44.37	7.25	20.00
2306		7860	0.00	75.70	1,159.70	5.04	37.99	6.35	20.00
2307		7862	0.07	72.25	1,159.76	5.04	44.33	7.42	20.00
2308		7864	0.00	72.44	1,159.76	5.04	-16.09	3.75	20.00
2309		7870	0.12	71.69	1,159.98	5.04	53.24	9.56	20.00
2310		788	0.02	73.35	1,168.75	5.04	29.97	5.68	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2311	7908	0.03	72.89	1,161.59	5.04	71.24	54.92	20.00
2312	7918	0.02	72.50	1,161.54	5.04	56.02	9.63	20.00
2313	7966	0.00	76.41	1,161.34	5.04	-161.90	2.31	20.00
2314	7970	0.00	76.41	1,161.34	5.04	61.40	10.59	20.00
2315	7988	0.05	72.14	1,161.34	5.04	34.58	6.09	20.00
2316	7990	0.00	76.41	1,161.35	5.04	54.22	8.47	20.00
2317	8016	0.00	72.46	1,161.34	5.04	69.76	33.08	20.00
2318	8022	0.00	71.98	1,161.13	5.04	16.14	4.84	20.00
2319	8038	0.03	71.98	1,161.12	5.04	-12.30	3.90	20.00
2320	8064	0.02	75.92	1,161.12	5.04	-31.52	3.54	20.00
2321	8072	0.02	76.15	1,161.13	5.04	28.12	5.51	20.00
2322	8082	0.02	76.44	1,161.15	5.04	74.27	45.20	20.00
2323	8084	0.00	76.28	1,161.14	5.04	74.09	44.83	20.00
2324	8098	0.02	80.66	1,161.15	5.04	78.51	47.68	20.00
2325	8102	0.00	76.14	1,163.98	5.04	35.66	6.02	20.00
2326	8104	0.00	73.22	1,163.98	5.04	10.05	4.59	20.00
2327	8110	0.00	76.06	1,163.98	5.04	-849.32	1.11	20.00
2328	8114	0.05	73.50	1,160.71	5.04	-1.85	4.22	20.00
2329	8122	0.05	71.80	1,160.70	5.04	-22.48	3.67	20.00
2330	8132	0.00	74.06	1,160.73	5.04	42.95	6.89	20.00
2331	8136	0.00	73.98	1,160.73	5.04	40.41	6.59	20.00
2332	8150	0.00	71.81	1,160.73	5.04	50.01	8.27	20.00
2333	8158	0.14	71.82	1,160.76	5.04	66.92	22.84	20.00
2334	8162	0.00	77.54	1,163.34	5.04	4.98	4.44	20.00
2335	8166	0.00	77.49	1,163.34	5.04	-646.29	1.28	20.00
2336	8184	0.00	84.98	1,161.12	5.04	-88.44	2.94	20.00
2337	8212	0.00	78.06	1,163.34	5.04	-41.86	3.40	20.00
2338	8218	0.00	78.26	1,163.34	5.04	-10.82	4.00	20.00
2339	8232	0.05	67.31	1,100.47	5.04	64.48	24.55	20.00
2340	8240	0.02	75.68	1,159.65	5.04	6.03	4.45	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2341		8268	0.00	67.80	1,161.48	5.04	53.38	9.96	20.00
2342		8272	0.02	76.78	1,163.08	5.04	12.98	4.75	20.00
2343		8274	0.03	69.06	1,162.80	5.04	26.88	5.52	20.00
2344		828	0.02	66.46	1,168.74	5.04	16.03	4.83	20.00
2345		8282	0.03	66.15	1,162.11	5.04	10.88	4.59	20.00
2346		8284	0.00	76.61	1,161.81	5.04	-72.95	2.96	20.00
2347		8286	0.00	76.61	1,161.81	5.04	-72.96	2.96	20.00
2348		8288	0.03	58.59	1,100.22	5.04	56.70	27.12	20.00
2349		8290	0.03	58.59	1,100.22	5.04	56.68	26.91	20.00
2350		8292	0.09	85.69	1,107.07	5.04	75.22	14.61	20.00
2351		8296	0.02	81.53	1,163.15	5.04	53.46	7.80	20.00
2352		8298	0.00	77.76	1,163.34	5.04	-67.23	3.05	20.00
2353		830	0.00	65.07	1,168.74	5.04	-25.01	3.43	20.00
2354		8312	0.00	77.83	1,163.34	5.04	-102.51	2.72	20.00
2355		8314	0.00	73.76	1,106.60	5.04	47.20	7.46	20.00
2356		8350	0.00	67.12	1,086.14	5.04	-109.69	2.17	20.00
2357		8354	0.00	67.74	1,086.09	5.04	-143.34	1.99	20.00
2358		836	0.03	65.86	1,168.74	5.04	14.98	4.79	20.00
2359		8362	0.00	65.52	1,086.14	5.04	-37.90	2.87	20.00
2360		8398	0.00	75.99	1,162.72	5.04	60.82	10.44	20.00
2361		8402	0.00	78.06	1,162.72	5.04	-9.90	4.02	20.00
2362		8428	0.02	75.21	1,162.68	5.04	-22.55	3.70	20.00
2363		8432	0.02	75.21	1,162.68	5.04	-105.96	2.65	20.00
2364		8452	0.00	81.33	1,162.70	5.04	70.80	13.61	20.00
2365		8472	0.10	82.79	1,096.08	5.04	53.60	8.05	20.00
2366		8478	0.10	78.41	1,096.09	5.04	55.29	8.95	20.00
2367		8488	0.17	79.68	1,094.85	5.04	28.99	5.73	20.00
2368		8500	0.02	79.22	1,094.85	5.04	25.55	5.37	20.00
2369		8516	0.41	80.85	1,094.87	5.04	37.37	6.60	20.00
2370		8518	0.00	80.73	1,094.89	5.04	38.34	6.28	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2371		8524	0.03	80.49	1,095.03	5.04	41.87	6.67	20.00
2372		8526	0.00	80.35	1,095.03	5.04	40.45	6.49	20.00
2373		8528	0.03	80.41	1,095.11	5.04	43.99	6.91	20.00
2374		8530	0.00	80.23	1,095.11	5.04	42.53	6.72	20.00
2375		8536	0.05	80.27	1,095.33	5.04	48.66	7.55	20.00
2376		8538	0.02	82.47	1,095.33	5.04	49.57	7.48	20.00
2377		8546	0.05	80.20	1,095.68	5.04	55.44	8.78	20.00
2378		8552	0.00	79.29	1,096.12	5.04	62.30	10.96	20.00
2379		8556	0.00	79.25	1,096.12	5.04	61.99	10.84	20.00
2380		8558	0.02	79.29	1,096.12	5.04	61.00	10.42	20.00
2381		8564	0.00	79.14	1,096.53	5.04	66.88	13.45	20.00
2382		8588	0.02	85.15	1,161.52	5.04	-141.18	2.55	20.00
2383		8606	0.02	75.28	1,158.74	5.04	-56.57	3.08	20.00
2384		8608	0.07	75.28	1,158.74	5.04	12.25	4.73	20.00
2385		8612	0.44	78.84	1,158.09	5.04	-13.80	4.28	20.00
2386		8616	0.05	79.24	1,159.65	5.04	46.74	7.26	20.00
2387		8632	0.02	76.28	1,163.52	5.04	70.01	17.71	20.00
2388		8666	0.00	76.21	1,163.55	5.04	72.32	24.21	20.00
2389		8672	0.02	85.54	1,161.60	5.04	24.78	5.27	20.00
2390		868	0.10	60.98	1,168.88	5.04	-11.69	3.75	20.00
2391		8682	0.00	85.19	1,161.60	5.04	67.33	10.40	20.00
2392		8690	0.05	86.40	1,161.58	5.04	11.74	4.78	20.00
2393		8706	0.00	85.19	1,161.60	5.04	54.96	7.72	20.00
2394		8714	0.00	89.31	1,161.64	5.04	68.81	9.97	20.00
2395		8718	0.02	87.80	1,161.64	5.04	63.80	9.00	20.00
2396		8750	0.00	85.21	1,161.64	5.04	56.77	7.99	20.00
2397		8762	0.03	89.32	1,161.64	5.04	43.96	6.40	20.00
2398		8768	0.12	69.21	1,100.44	5.04	-1.00	4.26	20.00
2399		878	0.00	68.60	1,168.73	5.04	-43.02	3.17	20.00
2400		8780	0.00	67.94	1,100.52	5.04	34.04	6.11	20.00

Buildout Max Day Plus Fire Flow

	ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2401	8792	0.00	79.92	1,161.81	5.04	-122.95	2.59	20.00
2402	8822	0.05	70.57	1,100.32	5.04	20.30	5.11	20.00
2403	8842	0.03	69.00	1,100.35	5.04	54.67	9.95	20.00
2404	8844	0.00	69.17	1,100.36	5.04	61.14	13.67	20.00
2405	8846	0.00	71.65	1,100.36	5.04	63.58	14.01	20.00
2406	8862	0.03	75.59	1,098.51	5.04	72.09	29.07	20.00
2407	8876	0.00	77.23	1,098.52	5.04	73.79	29.99	20.00
2408	8878	0.00	80.60	1,098.60	5.04	77.62	35.54	20.00
2409	888	0.00	64.44	1,168.73	5.04	-6.04	3.89	20.00
2410	8882	0.00	51.71	1,107.06	5.04	-2.10	3.76	20.00
2411	8884	0.00	50.54	1,107.06	5.04	-3.60	3.66	20.00
2412	8886	0.00	78.52	1,163.34	5.04	20.22	5.05	20.00
2413	8890	0.00	57.79	1,170.44	5.04	54.34	25.74	20.00
2414	890	0.07	64.43	1,168.70	5.04	-39.53	3.20	20.00
2415	8914	0.00	63.61	1,170.02	5.04	58.94	21.84	20.00
2416	8934	0.00	83.77	1,161.95	5.04	48.88	7.01	20.00
2417	8938	0.00	83.26	1,161.91	5.04	77.47	19.68	20.00
2418	8942	0.00	80.88	1,161.51	5.04	6.51	4.52	20.00
2419	8946	0.02	87.48	1,163.01	5.04	84.94	36.09	20.00
2420	8952	0.00	84.06	1,105.72	5.04	70.26	11.99	20.00
2421	896	0.00	64.96	1,168.76	5.04	28.53	5.69	20.00
2422	8960	0.07	72.32	1,161.91	5.04	65.69	16.67	20.00
2423	8964	0.14	74.50	1,161.56	5.04	70.84	25.95	20.00
2424	8968	0.24	74.79	1,161.28	5.04	71.34	27.70	20.00
2425	8982	0.00	79.83	1,161.54	5.04	34.14	5.86	20.00
2426	8992	0.02	85.06	1,161.31	5.04	78.53	21.35	20.00
2427	8994	0.00	83.98	1,161.38	5.04	77.71	21.63	20.00
2428	8996	0.00	83.94	1,161.38	5.04	73.15	14.44	20.00
2429	900	0.02	62.78	1,168.75	5.04	24.98	5.43	20.00
2430	9002	0.00	85.03	1,161.23	5.04	36.11	5.92	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2431		9004	0.03	84.08	1,161.27	5.04	75.54	17.30	20.00
2432		9006	0.00	82.70	1,161.27	5.04	-225.92	2.12	20.00
2433		9008	0.02	85.04	1,161.27	5.04	77.16	18.55	20.00
2434		9010	0.03	85.10	1,161.39	5.04	26.66	5.39	20.00
2435		9018	0.02	79.54	1,161.43	5.04	0.55	4.32	20.00
2436		9020	0.07	81.18	1,161.02	5.04	4.91	4.52	20.00
2437		9024	0.00	81.60	1,161.35	5.04	49.76	7.32	20.00
2438		9028	0.00	86.29	1,161.34	5.04	58.84	8.32	20.00
2439		9044	0.00	81.00	1,161.39	5.04	-17.04	3.87	20.00
2440		9050	0.02	81.06	1,161.39	5.04	20.89	5.10	20.00
2441		9056	0.00	81.63	1,161.39	5.04	-11.69	4.00	20.00
2442		9058	0.00	81.57	1,161.39	5.04	26.67	5.38	20.00
2443		9064	0.02	81.92	1,161.39	5.04	34.44	5.87	20.00
2444		9080	0.00	80.53	1,161.24	5.04	77.80	35.21	20.00
2445		9082	0.26	76.36	1,161.22	5.04	73.65	34.43	20.00
2446		9090	0.00	73.56	1,164.78	5.04	73.42	270.32	20.08
2447		9112	0.00	72.20	1,164.16	5.04	71.65	103.08	20.01
2448		9114	0.00	68.98	1,164.19	5.04	68.44	102.58	20.01
2449		9124	0.00	77.30	1,162.36	5.04	-5.15	4.13	20.00
2450		9126	0.00	63.76	1,162.15	5.04	54.74	12.60	20.00
2451		9132	0.00	63.76	1,162.16	5.04	50.09	9.75	20.00
2452		9134	0.02	73.03	1,163.54	5.04	53.88	8.82	20.00
2453		9148	0.00	75.90	1,162.37	5.04	73.20	33.03	20.00
2454		9150	0.02	75.87	1,162.37	5.04	73.16	32.94	20.00
2455		9160	0.00	72.75	1,162.90	5.04	69.95	31.19	20.00
2456		9162	0.00	72.71	1,162.81	5.04	65.60	15.88	20.00
2457		9164	0.00	72.69	1,162.76	5.04	58.44	10.47	20.00
2458		9184	0.00	62.81	1,170.43	5.04	59.34	27.66	20.00
2459		9190	0.02	57.08	1,170.41	5.04	53.58	25.25	20.00
2460		92	0.00	73.61	1,161.34	5.04	60.55	11.13	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2461		9214	0.02	55.11	1,170.38	5.04	36.87	7.34	20.00
2462		922	0.00	66.44	1,168.77	5.04	5.18	4.31	20.00
2463		9226	0.00	62.94	1,170.26	5.04	59.05	25.21	20.00
2464		9240	0.00	53.77	1,170.39	5.04	49.54	19.87	20.00
2465		9246	0.00	53.30	1,170.04	5.04	25.64	5.61	20.00
2466		9250	0.02	57.07	1,170.13	5.04	26.13	5.60	20.00
2467		926	0.00	68.79	1,168.77	5.04	-21.80	3.57	20.00
2468		9266	0.02	60.80	1,169.80	5.04	29.30	5.87	20.00
2469		9274	0.02	54.14	1,169.96	5.04	24.70	5.51	20.00
2470		9322	0.03	65.56	1,170.51	5.04	61.94	27.30	20.00
2471		9328	0.02	67.89	1,170.58	5.04	64.24	27.67	20.00
2472		9332	0.03	73.54	1,172.32	5.04	-40.46	3.33	20.00
2473		9336	0.03	72.87	1,172.38	5.04	-31.29	3.48	20.00
2474		9340	0.02	64.84	1,173.39	5.04	61.89	28.79	20.00
2475		9346	0.02	77.50	1,172.30	5.04	-27.16	3.62	20.00
2476		9350	0.02	78.13	1,172.30	5.04	29.77	5.62	20.00
2477		9356	0.02	70.67	1,173.11	5.04	66.96	26.94	20.00
2478		936	0.00	69.55	1,168.79	5.04	26.69	5.47	20.00
2479		9360	0.02	72.77	1,172.93	5.04	68.59	25.86	20.00
2480		9390	0.02	81.58	1,171.90	5.04	-150.15	2.41	20.00
2481		9396	0.02	81.26	1,171.88	5.04	-155.26	2.37	20.00
2482		9404	0.00	80.98	1,171.90	5.04	-146.51	2.40	20.00
2483		9416	0.00	80.18	1,172.62	5.04	75.01	25.49	20.00
2484		9420	0.05	70.40	1,169.07	5.04	61.00	14.47	20.00
2485		9448	0.00	80.53	1,168.32	5.04	-25.30	3.66	20.00
2486		9496	0.02	54.78	1,086.00	5.04	-26.51	2.68	20.00
2487		9506	0.02	59.42	1,086.01	5.04	35.79	9.43	20.00
2488		9510	0.00	61.10	1,086.01	5.04	39.29	10.33	20.00
2489		9512	0.00	58.25	1,086.03	5.04	40.00	11.17	20.00
2490		9516	0.02	58.01	1,086.03	5.04	39.67	11.11	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2491		952	0.00	70.97	1,168.79	5.04	-2.86	4.10	20.00
2492		9520	0.00	87.95	1,168.64	5.04	52.73	7.44	20.00
2493		9522	0.00	89.47	1,168.61	5.04	43.97	6.46	20.00
2494		9540	0.02	96.95	1,168.76	5.04	45.70	6.39	20.00
2495		9544	0.00	92.74	1,169.08	5.04	31.41	5.56	20.00
2496		9546	0.00	97.15	1,169.20	5.04	34.37	5.67	20.00
2497		9550	0.02	75.47	1,085.73	5.04	-55.07	2.86	20.00
2498		9578	0.02	65.62	1,085.98	5.04	-12.55	3.39	20.00
2499		9582	0.03	66.47	1,085.97	5.04	-58.08	2.63	20.00
2500		9584	0.03	62.49	1,086.29	5.04	-28.17	2.99	20.00
2501		9596	0.02	68.68	1,086.15	5.04	38.29	7.98	20.00
2502		9608	0.07	69.75	1,085.97	5.04	-33.44	3.12	20.00
2503		9622	0.00	67.60	1,086.84	5.04	38.58	8.15	20.00
2504		9632	0.05	65.17	1,088.25	5.04	-9.32	3.60	20.00
2505		9638	0.00	61.35	1,088.62	5.04	37.64	8.75	20.00
2506		964	0.00	68.30	1,168.80	5.04	43.50	7.42	20.00
2507		9640	0.00	48.32	1,091.32	5.04	37.42	12.25	20.00
2508		9644	0.00	50.40	1,091.32	5.04	40.00	12.77	20.00
2509		9648	0.00	64.99	1,174.98	5.04	64.97	762.58	20.60
2510		9652	0.02	101.21	1,263.67	5.04	-13.29	4.18	20.00
2511		9660	0.00	44.22	1,107.06	5.04	12.73	4.35	20.00
2512		9668	0.03	72.22	1,162.42	5.04	70.85	62.88	20.00
2513		9670	0.00	73.80	1,163.61	5.04	73.29	125.29	20.02
2514		9690	0.02	91.18	1,164.06	5.04	33.22	5.66	20.00
2515		9702	0.00	88.67	1,164.08	5.04	22.85	5.16	20.00
2516		9710	0.00	88.24	1,164.06	5.04	29.41	5.46	20.00
2517		9718	0.00	88.41	1,164.05	5.04	28.75	5.43	20.00
2518		9726	0.02	87.43	1,164.05	5.04	22.41	5.16	20.00
2519		9732	0.02	86.68	1,164.03	5.04	64.94	9.34	20.00
2520		9738	0.00	87.47	1,164.05	5.04	67.55	9.84	20.00

Buildout Max Day Plus Fire Flow

		ID	Static Demand (mgd)	Static Pressure (psi)	Static Head (ft)	Fire-Flow Demand (mgd)	Residual Pressure (psi)	Available Flow @Hydrant (mgd)	Available Flow Pressure (psi)
2521		9744	0.02	86.00	1,164.01	5.04	68.71	10.56	20.00
2522		9794	0.00	95.91	1,162.63	5.04	21.19	5.08	20.00
2523		9798	0.00	95.83	1,162.62	5.04	-47.78	3.56	20.00
2524		9804	0.00	94.94	1,162.63	5.04	12.99	4.80	20.00
2525		9816	0.00	93.37	1,162.61	5.04	-39.13	3.65	20.00
2526		9818	0.00	93.83	1,162.61	5.04	-16.77	4.04	20.00
2527		9826	0.02	89.98	1,162.67	5.04	48.31	6.72	20.00
2528		9842	0.00	87.99	1,162.60	5.04	73.80	11.98	20.00
2529		9864	0.02	86.50	1,162.66	5.04	55.64	7.70	20.00
2530		9868	0.00	85.70	1,162.80	5.04	70.66	11.37	20.00
2531		9872	0.00	76.17	1,099.78	5.04	75.92	169.22	20.03
2532		9874	0.02	69.07	1,099.62	5.04	68.64	118.80	20.01
2533		9876	0.02	69.12	1,099.62	5.04	68.70	120.87	20.02
2534		988	0.00	70.15	1,169.80	5.04	64.39	19.99	20.00
2535		9880	0.00	90.28	1,163.07	5.04	87.99	39.12	20.00
2536		9882	0.00	89.99	1,162.69	5.04	-14.69	4.03	20.00
2537		9884	0.02	94.37	1,162.78	5.04	-33.46	3.76	20.00
2538		9886	0.00	85.68	1,162.74	5.04	32.83	5.69	20.00
2539		9898	0.02	85.95	1,163.01	5.04	83.64	38.00	20.00
2540		9900	0.02	84.52	1,163.03	5.04	15.22	4.86	20.00
2541		9908	0.00	81.58	1,163.27	5.04	80.61	75.24	20.01
2542		9910	0.00	81.58	1,163.27	5.04	80.13	49.27	20.00
2543		9922	0.02	85.88	1,163.21	5.04	84.95	89.71	20.01
2544		9926	0.00	87.91	1,161.66	5.04	55.98	7.65	20.00
2545		9928	0.00	80.34	1,161.59	5.04	77.48	32.68	20.00
2546		9932	0.00	80.33	1,161.57	5.04	77.47	32.70	20.00
2547		9948	0.03	79.33	1,159.96	5.04	53.92	8.28	20.00
2548		9962	0.03	77.78	1,160.28	5.04	68.40	15.18	20.00
2549		9966	0.03	79.59	1,159.92	5.04	64.03	11.39	20.00
2550		9992	0.10	79.60	1,160.04	5.04	51.16	7.83	20.00