City of Copperas Cove

WATER SYSTEM STUDY

December 2012

City of Copperas Cove

STATE OF TEXAS
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87858
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3/25/2013

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Water System Study

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Water System Study

EXECUTIVE SUMMARY

City of Copperas Cove, Texas

A Water System Study has been completed for the City of Copperas Cove in order to analyze the existing system, project the needs of future growth on the system, identify any deficiencies in the system, and then to recommend improvements needed to remedy these deficiencies. The study includes the development of a hydraulic model of the City's water distribution system. This hydraulic model is then used to assist in evaluating the existing system, as well as additional growth on the system, and any proposed improvements to the system.

The City of Copperas Cove purchases its water from the Bell County Water Control and Improvement District Number 1 (WCID No. 1). A contract was executed with Bell County WCID No. 1 that supplies Copperas Cove with an available treated water supply of 13.5 million gallons per day. Copperas Cove receives this water from a delivery point in Killeen, where the City then pumps water to its distribution system. Water is pumped to either the Eastside ground storage tank or the Turkey Run ground storage tanks, through 20-inch and 30-inch transmission lines. Water is then delivered to the remainder of the system through a series of pump stations, storage tanks, and distribution lines.

The water distribution system is made up of three service areas, or pressure planes. These include the Central, Rattlesnake, and Mountain Top Pressure Planes. Pressure planes are isolated areas of the distribution system that maintain a specific range of water pressures. These pressure planes are generally defined based on the elevations of the area, so that a reasonable water pressure can be supplied to all areas. Higher locations in the City would be served by water storage tanks located at a higher elevation than those areas in the City with lower elevations.

A hydraulic model, or water model, was created to represent the existing City of Copperas Cove water distribution system. This model was created by inputting physical data supplied by the City's Water Department. Existing water lines, pump stations, control valves and storage tanks were put into the model. The existing water demands were then placed on the system to give a representation of how the system operates under different conditions. The model was then calibrated in order to ensure that the model accurately represents what is actually happening in the field. This was done by comparing results from the model to actual flow and pressure tests done in the field, as well as records of how the various tanks and pumps were operating.

A set of design criteria was developed in order to evaluate the water distribution system. The Texas Commission on Environmental Quality (TCEQ) provides a set of minimum requirements for all water systems in the State. These requirements serve as a good starting point, but generally do not represent the actual needs of an individual system. In order to develop a set of criteria that best represents the needs of Copperas Cove, actual

historical data was used. This historical data was provided by the City of Copperas Cove and included water usage, billing data, pumping records, and water connection records. Using this data, a set of design criteria was created. This criteria includes average and peak flow rates, minimum recommended water storage and minimum recommended pumping capacity. Minimum fire flow requirements are established by the Insurance Services Office (ISO). These flow requirements were then used to evaluate both the existing and future systems for their ability to meet the demands of supplying water during a fire.

The existing water system was then evaluated using these criteria. Several deficiencies were found in the existing system. These include insufficient elevated water storage in the Central Pressure Plane and insufficient water transmission.

A list of recommended improvements has been developed to address these deficiencies in the existing water system. Phase I includes the construction of a new elevated storage tank, small ground storage tank and pump station with the Mountain Top Pump Station and Storage Tank Improvements project; a new elevated storage tank to replace the existing ground tanks at the Mickan Mountain site; a new transmission line along Constitution Drive; and a new transmission line along FM 2657 and Hwy 190. The total estimated cost of all Phase I projects is $11.3 million.

Once the evaluation of the existing water distribution system was complete, we began to evaluate future growth. This analysis was based on 10-years of expected growth in the City and its 2-mile extra-territorial jurisdiction (ETJ). The total number of water connections in the City for the year 2011 was estimated at 12,500. An annual growth rate of 5% was estimated over the 10-years, resulting in a total of 20,360 connections for the year 2021. The future conditions water model was then developed by applying the forecasted demands to the existing conditions water model, which was updated to include the Phase I recommended improvements.

The anticipated growth in the City creates additional demand on the water system. Further improvements to the system will be necessary to serve this additional demand. Additional elevated storage in all three of the pressure planes, additional service pump capacity, and larger transmission mains will all be needed to serve the City of Copperas Cove's needs for the projected 10-year growth. This set of improvements, Phase II, consists of thirteen projects. A total project cost for all of the Phase II Improvements is estimated at $27.5 million.

A number of additional improvements, termed Phase III, were identified by City staff to address aging infrastructure and operational issues. It is recommended that an annual budget be established to complete these projects over time.

1.0 INTRODUCTION

1.1 Project Authorization

In January, 2011, Ms. Andrea Gardner, City Manager of the City of Copperas Cove authorized River City Engineering, Ltd. (RCE) to prepare a water system study and submit a report summarizing RCE's findings and recommendations. This study will evaluate the existing water distribution system and will investigate the improvements needed to meet the future water demands of the City of Copperas Cove.

1.2 Project Scope

The scope of this study is to evaluate pumping, storage, transmission, and distribution capacity. The study does not address water supply. The water system study includes the update of the study that River City Engineering created in 2004. Internal water distribution system improvements made by the City, new subdivisions, increases in system demand, changes in system operation, and revisions made to the model by City staff have all been incorporated into the existing system portion of the model and the study. Updated system maps and historical water usage data were provided by the city. This report will outline and describe the results of the water system evaluation, determine the most efficient solutions to the problems encountered, and prioritize these solutions by their level of importance and effect on the overall operation of the system.

1.3 Project Description

The first step of the water system study was to evaluate the existing water system facilities and its current operation. Information pertaining to pumps, storage tanks, water lines, meter connections, and water usage was collected and used to evaluate individual pressure planes or service areas, as well as the water distribution system as a whole. Field tests were performed where possible to verify record information. Pumping and water storage capacities available in the existing system were then compared to Texas Commission on Environmental Quality (TCEQ) requirements and to design requirements developed from City of Copperas Cove historical water use data. The existing water system was then modeled using the WaterGEMS software and any additional deficiencies were noted.

A future conditions analysis was performed using projected growth for the next ten years. The additional system demand expected from future growth was allocated to the water model and the system was again evaluated using WaterGEMS and the developed design requirements. From the future conditions water model, a list of recommended improvements was developed that would ensure that the water system would be able to provide an adequate level of service for ten years of projected growth.

2.0 WATER SYSTEM OVERVIEW

2.1 Jurisdiction

The City of Copperas Cove is authorized by the Texas Commission on Environmental Quality (TCEQ) to provide water service to areas generally within its city limits by Certificate of Convenience and Necessity (CCN) Number 10449. The City's CCN boundary is shown on Figure 2.1. This map indicates that the Kempner WSC and Topsey WSC hold CCN rights to areas adjacent to Copperas Cove's CCN. Kempner WSC, CCN # 10456, holds CCN rights to areas to the south, west, and north of the city while Topsey WSC, CCN # 10454, holds CCN rights to areas to the north and west of the city. The Fort Hood Military Reservation occupies areas to the east of the City of Copperas Cove.

2.2 Water Source

The City of Copperas Cove is a purchased water supply system. All water is purchased from the Bell County Water Control and Improvement District Number 1 (WCID No.1) in accordance with the Water Supply Contract dated September 23, 1997. This contract provides for a maximum delivery rate of 13.5 million gallons per day (MGD) at a maximum instantaneous rate not to exceed 9,375 gpm (13.5 MGD). As discussed further in Section 3.2, the city experienced a peak daily delivery from WCID No. 1 of 8.45 MGD in August 2009. The Bell County WCID No.1 water treatment plant is located near Belton, Texas. It supplies treated water to Fort Hood, the cities of Killeen, Harker Heights, Belton, and Copperas Cove, Bell County WCID #3 and the 439 Water Supply Corporation. Bell County WCID No. 1 takes raw water from Lake Belton under the Brazos River Authority Certificate of Adjudication No. 12-5160.

2.3 Water System Facilities

The City of Copperas Cove takes water from Bell County WCID No. 1 (BCWCID #1). The City's water distribution system starts at a 500,000 gallon ground storage tank in Killeen. From there two supply pumps convey water through parallel twenty (20") inch and thirty (30") inch transmission lines. The water is then distributed to twelve storage tanks for a combined storage of 8.109 Million Gallons. The City also supplies water to Topsey Water Corporation, Cedar Grove Mobile Home Park and Central Texas College.

The Copperas Cove water distribution system is divided into three service areas or pressure planes – the Central, Rattlesnake, and Mountain Top Pressure Planes. Pressure planes are isolated areas of a distribution system that maintain a specified hydraulic grade for a particular service area. The hydraulic grade of a pressure plane is equal to the water surface elevation of the tank servicing the area during static conditions (i.e. no water being pumped through the system). Pressure planes are arranged so that a reasonable range of operating pressures exists in each area. Reasonable operating pressures range from 35 to 80 psi. Pressure plane boundaries are usually dependent on topography and the geometric configuration or layout of the system. Refer to Exhibit 'C' for the pressure plane service areas.

SCALE: 1" = 1500'

1500 0 1500 3000 4500

COPPERAS COVE ETJ

GLASS RD.

LUTHERAN CHURCH RD.

CITY LIMITS

SUMMERS RD.

N. F.M. 116

F.M. 1113

OAK SPRING'S RD.

CR 3394

HERB RD.

OAK SPRING'S RD.

BEA POWELL RD.

CR 3390

CR 3391

CR 3300

B.N. & S.F. RAILROAD

ANDERSON MOUNTAIN RD.

OLD GEORGETOWN RD.

TANK DESTROYER BLVD.

US HWY 190

BIG DIVIDE RD.

CORYELL COUNTY
LAMPASAS COUNTY

CLINE DR.

WASHBURN DR.

CORYELL COUNTY
BELL COUNTY

BELL COUNTY
LAMPASAS COUNTY

LEGEND

- COPPERAS COVE EXISTING CCN
- KEMPNER WSC CCN
- COPPERAS COVE CITY LIMITS
- COPPERAS COVE ETJ
- COPPERAS COVE EXISTING WATER SYSTEM IMPROVEMENTS

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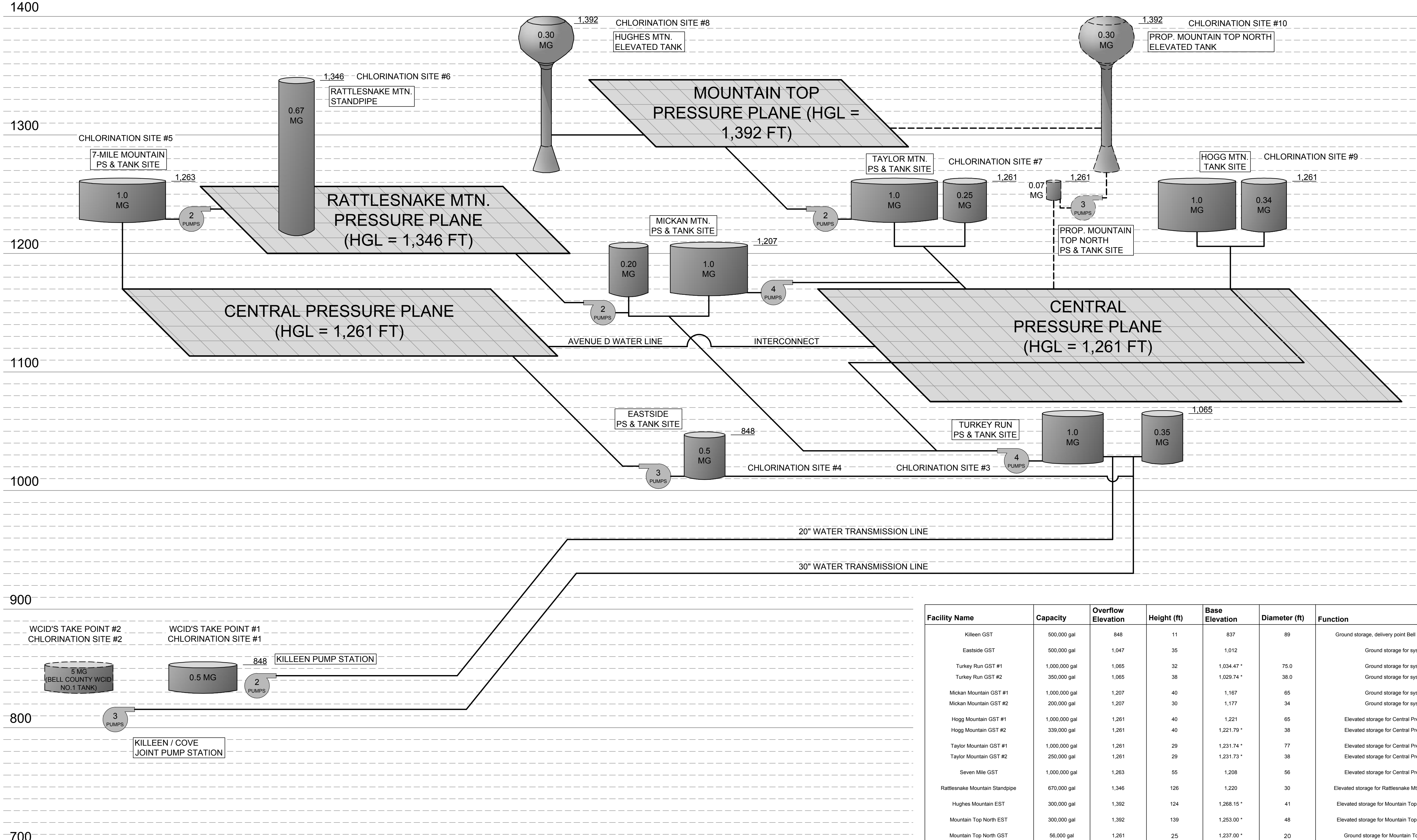
CITY OF COPPERAS COVE, TEXAS
WATER SYSTEM STUDY

FIGURE 2.1
WATER SERVICE BOUNDARY MAP

FILE: P:\Projects\5019 (Coppera. Cove)\93 - WATER MODEL UPDATE\CAD\CCN BOUNDARY MAP.dwg TAB: 22X34 EXHIBIT PLOTTED: 12/5/2012 9:30 AM BY: GLENN POPE



Facility Name	Capacity	Overflow Elevation	Height (ft)	Base Elevation	Diameter (ft)	Function
Killeen GST	500,000 gal	848	11	837	89	Ground storage, delivery point Bell County WCID #1
Eastside GST	500,000 gal	1,047	35	1,012		Ground storage for system
Turkey Run GST #1	1,000,000 gal	1,065	32	1,034.47 *	75.0	Ground storage for system
Turkey Run GST #2	350,000 gal	1,065	38	1,029.74 *	38.0	Ground storage for system
Mickan Mountain GST #1	1,000,000 gal	1,207	40	1,167	65	Ground storage for system
Mickan Mountain GST #2	200,000 gal	1,207	30	1,177	34	Ground storage for system
Hogg Mountain GST #1	1,000,000 gal	1,261	40	1,221	65	Elevated storage for Central Pressure Plane
Hogg Mountain GST #2	339,000 gal	1,261	40	1,221.79 *	38	Elevated storage for Central Pressure Plane
Taylor Mountain GST #1	1,000,000 gal	1,261	29	1,231.74 *	77	Elevated storage for Central Pressure Plane
Taylor Mountain GST #2	250,000 gal	1,261	29	1,231.73 *	38	Elevated storage for Central Pressure Plane
Seven Mile GST	1,000,000 gal	1,263	55	1,208	56	Elevated storage for Central Pressure Plane
Rattlesnake Mountain Standpipe	670,000 gal	1,346	126	1,220	30	Elevated storage for Rattlesnake Mtn Pressure Plane
Hughes Mountain EST	300,000 gal	1,392	124	1,268.15 *	41	Elevated storage for Mountain Top Pressure Plane
Mountain Top North EST	300,000 gal	1,392	139	1,253.00 *	48	Elevated storage for Mountain Top Pressure Plane
Mountain Top North GST	56,000 gal	1,261	25	1,237.00 *	20	Ground storage for Mountain Top North EST

* NAVD 88 vertical datum verified with on-ground survey.

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CITY OF COPPERAS COVE, TEXAS
WATER DISTRIBUTION SYSTEM

FIGURE 2.2
PRESSURE PLANE SCHEMATIC

Water pumped from Killeen is delivered to the Turkey Run and Eastside sites via the 20-inch and the 30-inch transmission lines. It is pumped at the Turkey Run and Eastside sites into the Central Pressure Plane. Water delivered to the Central Pressure Plane is re-pumped at the Seven-Mile site to service the higher Rattlesnake Pressure Plane and at the Taylor Mountain site to service the higher Mountain Top Pressure Plane. Refer to Figure 2.2 for a schematic of the Pressure Planes. A more detailed description of individual water distribution facilities is given below. These facilities are summarized in Table 2.3. A summary of the existing water storage capacities is shown in Table 2.4.

Table 2.3 – Summary of Existing Facilities

Facility	Supply Source	Supply/Service Pumps			Service Area	Capacity (Gal)	Diameter (Ft)	Height (Ft)	Overflow (MSL)
		Individual		Firm Capacity					
Killeen/Cove Joint Pump Station	Bell Co. WCID #1	3500 GPM 3500 GPM 3500 GPM	300 HP 300 HP 300 HP	7000 GPM	Central Plane	5,000,000	130	50	887
Killeen 20-in	Bell Co. WCID #1	2118 GPM 2118 GPM	450 HP 450 HP	2118 GPM	Central Plane	500,000			
Eastside	Killeen/Cove Joint Pump Station	1500 GPM 1500 GPM 1500 GPM	125 HP 125 HP 125 HP	3000 GPM	Central Plane	500,000	50	35	1,047
Turkey Run	Killeen 20-in Killeen/Cove Joint	2118 GPM 2118 GPM 2118 GPM 3000 GPM	200 HP 200 HP 200 HP 250 HP	6354 GPM	Central Plane	1,000,000 350,000	65 39	40 40	1,065 1,065
Hogg Mountain	Turkey Run				Central Plane	1,000,000 339,000	65 38	40 40	1,261 1,261
7-Mile Mountain	Eastside	1000 GPM 1000 GPM	40 HP 40 HP	1000 GPM	Central Plane	1,000,000	56	55	1,263
Rattlesnake Mountain	7-Mile				Rattlesnake Plane	670,000	30	126	1,346
Mickan Mountain	Turkey Run	575 GPM 300 GPM 1000 GPM 2200 GPM	40 HP 15 HP 60 HP 100 HP	1875 GPM	Central Plane	1,000,000 200,000	65 33	40 32	1,207 1,207
Long Mountain	Mickan Mountain	1000 GPM 1000 GPM	75 HP 75 HP	1000 GPM	Rattlesnake Plane				
Taylor Mountain	Turkey Run/ Mickan	1,180 GPM 1,180 GPM	100 HP 100 HP	1,180 GPM	Central & Mountain Top Plane	1,000,000 250,000	73 37	32 32	1,261 1,261
Hughes Mountain	Taylor Mountain				Mountain Top Plane	300,000	41	124	1,392

Table 2.4 – Existing Water Storage Summary

				Central Pressure Plane[1]		Rattlesnake Pressure Plane[2]		Mountain Top Pressure Plane[3]	
Tank	Capacity (MG)	Ht (Ft)	Overflow Elev.	Grnd	Elev	Grnd	Elev	Grnd	Elev
Turkey Run 1	1.00	40	1065	1.00	-	-	-	-	-
Turkey Run 2	0.35	40	1065	0.35	-	-	-	-	-
Eastside	0.50	35	1047	0.50	-	-	-	-	-
Mickan Mtn 1	1.00	40	1207	1.00	-	-	-	-	-
Mickan Mtn 2	0.20	32	1207	0.20	-	-	-	-	-
Hogg Mtn 1	1.00	40	1261	0.725	0.275	-	-	-	-
Hogg Mtn 2	0.339	40	1261	0.246	0.093	-	-	-	-
Taylor Mtn 1	1.00	32	1261	0.416	0.344	-	-	0.240	-
Taylor Mtn 2	0.25	32	1261	0.104	0.086	-	-	0.060	-
7-Mile	1.01	55	1263	0.771	0.239	-	-	-	-
Hughes Mtn Elev	0.30	124	1392	-	-	-	-	0.060	0.240
Rattlesnake Mtn	0.67	126	1346	-	-	0.425	0.245	-	-
Total	7.619			5.312	1.037	0.425	0.245	0.360	0.240
			Total Storage:	6.349		0.670		0.600	

[1] Central Pressure Plane serves a max elevation of 1170. Elevated storage is WSEL 1250 and above.
[2] Rattlesnake Pressure Plane serves a max elevation of 1220. Elevated storage is WSEL 1300 and above.
[3] Mountain Top Pressure Plane serves a max elevation of 1266. Elevated storage is WSEL 1346 and above.

Killeen 20-In Pump Station

The Killeen 20-In Pump Station is located adjacent to the abandoned Killeen 8 & 12-In Pump Station and supplies water to the city via the 20-inch transmission line. Suction is taken from the 500,000-gallon ground storage tank and delivered to the Turkey Run GSTs. The Killeen 20-In Pump Station contains two 450 HP pumps each rated at 2,118 gpm as indicated by City of Copperas Cove pump records at 329 feet TDH.

Killeen / Cove Joint Pump Station

The Killeen / Cove Joint Pump Station supplies water to the Eastside GST & the Turkey Run GSTs through the 30-inch transmission line. The Killeen / Cove Joint Pump Station contains three 300 HP pumps with each pump having a design point of 3,500 gpm at 270 feet TDH. Firm pumping capacity of the Killeen / Cove Joint Pump Station is 7,000 gpm.

Eastside GST and Pump Station

The Eastside GST and Pump Station site is located on HWY 190 in the northeast part of the city adjacent to Fort Hood. The site contains a 500,000 gallon ground storage tank with an overflow elevation of 1,047 feet. The tank has a diameter of 50 feet. The base elevation of the tank is 1,012 feet resulting in a tank height of 35 feet. Water supplied by the Killeen / Cove Joint Pump Stations is delivered to the Eastside GSTs via the 30-inch transmission line. Because of the low overflow elevation, the Eastside GST contributes only towards the total storage required for the Central Pressure Plane.

The site also contains three 125 HP, 1,500 gpm horizontal split case pumps which pump water to the Seven-Mile Mountain GSTs.

Seven-Mile Mountain GST and Pump Station

The Seven-Mile Mountain GST and Pump Station site is located on Bowen Avenue in the southeast part of the city. The site contains a 1.0 million gallon ground storage tank with an overflow elevation of 1,263 feet. The tank has a diameter of 56 feet. The base elevation of the tank is 1,208 feet resulting in a tank height of 55 feet. The Seven-Mile Mountain GST provides elevated storage for the Central Pressure Plane and ground storage for the Rattlesnake Pressure Plane. Elevated storage for the Central Pressure Plane is based on a maximum service elevation of 1,170 feet. The Seven-Mile Mountain GST therefore provide an elevated storage capacity of 239,000 gallons for the Central Pressure Plane.

The Seven-Mile Mountain GST also provides 771,000 gallons of ground storage for the Rattlesnake Mountain Pressure Plane. Two 40 HP centrifugal pumps located at the site take suction from the 1.0 million gallon ground storage tank and pump to the Rattlesnake Mountain Standpipe. Pump records indicate that the pumps are rated at 1000 gpm each at 110 feet TDH.

Rattlesnake Mountain Standpipe

Elevated storage for the Rattlesnake Mountain Pressure Plane is provided by the Rattlesnake Mountain Standpipe. The standpipe has a total capacity of 670,000 gallons and an overflow elevation of 1,346 feet. The base elevation of the tank is 1,220 feet and the tank diameter is 30 feet. The Rattlesnake Mountain Pressure Plane currently serves areas up to the 1,220-foot elevation. Undeveloped areas in the Rattlesnake Pressure Plane have elevations of up to 1,240 feet. The existing conditions evaluation considers a maximum service elevation of 1,220 feet for the Rattlesnake Pressure Plan resulting in 245,000 gallons of available elevated storage in the Rattlesnake Mountain Standpipe.

The Rattlesnake Mountain Standpipe receives water from the Seven-Mile Pump Station. Additional supply is provided by the Long Mountain Pump Station located at the Mickan Mountain GST and Pump Station Site.

Turkey Run GSTs and Pump Station

The Turkey Run GSTs and pump station site is located in the northeast portion of the city on Golf Course Road. The site contains a 1.0 million gallon ground storage tank with a base elevation of 1,025 feet and a diameter of 65 feet, and a 350,000-gallon ground storage tank with a base elevation of 1,025 feet and a diameter of 39 feet. Both tanks have an overflow elevation of 1,065 feet. Water supplied by the Killeen 20-in and Killeen / Cove Joint Pump Stations is delivered to the Turkey Run GSTs via the 20-inch transmission line and the 30-inch transmission line. Because of their low overflow elevations, the Turkey Run GSTs contribute only towards the total storage required for the Central Pressure Plane.

The site also contains three 200 HP, 2,118 gpm and one 250 HP, 3000 gpm vertical turbine pumps. Depending on pump operation, water is either pumped to the Mickan Mountain GSTs or to both the Mickan Mountain GSTs and the Hogg Mountain GSTs.

Mickan Mountain GSTs and Pump Station

The Mickan Mountain GST and pump station site is located in the center of the city on Robertson Avenue between Elm Street and Highway 190. The Mickan Mountain facility functions as an intermediate storage and pumping facility. The site contains a 1.0 million gallon ground storage tank with a base elevation of 1,167 feet and a diameter of 65 feet and a 200,000-gallon ground storage tank with a base elevation of 1,175 feet and a diameter of 33 feet. Both tanks have an overflow elevation of 1,207 feet. Like the Turkey Run tanks, the Mickan Mountain tanks only contribute towards the total storage required for the Central Pressure Plane.

The Mickan Mountain Pump Station consists of four vertical turbine pumps ranging in size from 15 HP to 100 HP. Table 2.5 summarizes pump capacities based on pump records provided by the City of Copperas Cove Water Department. Firm pumping capacity of the Mickan Mountain Pump Station is 1,875 gpm.

Table 2.5 – Mickan Mountain Pump Capacities

Mickan Pumps	Rated Flow (GPM)	Rated TDH (FT)	Motor (HP)
Pump 1	575	165	40
Pump 2	300	130	15
Pump 3	1000	192	60
Pump 4	2000	162	100

The four Mickan Mountain pumps draw from the 1.0 million gallon and 200,000-gallon ground storage tanks and pump to the Central Pressure Plane. Primary delivery is to the Taylor Mountain GSTs.

The Mickan Mountain site also contains two 75 HP centrifugal pumps referred to as the Long Mountain Pump Station. Based on pump records provided by the City of Copperas Cove Water Department, the pump capacity is 1000 gpm per pump for single pump operation. The Long Mountain pumps draw from the Mickan Mountain 200,000 gallon ground storage tank and provide an additional supply source to the Rattlesnake Mountain Pressure Plane.

Taylor Mountain GSTs and Pump Station

Elevated storage for the Central Pressure Plane is provided by the Hogg Mountain GSTs and the Taylor Mountain GSTs. The Taylor Mountain facility is located on Tank Street in the northwest portion of the city. The site contains a 1.0 million gallon ground storage tank and a 250,000-gallon ground storage tank. The 1.0 million gallon tank has a base elevation of 1,229 feet and a diameter of 73 feet. The 250,000-gallon tank has a base elevation of 1,229 feet and a diameter of 37 feet. The overflow elevation of the Taylor Mountain tanks is 1,261 feet. Elevated storage for the Central Pressure Plane is based on a maximum service elevation of 1,170 feet.

The Taylor Mountain GSTs therefore provide a combined elevated storage capacity of 428,000 gallons for the Central Pressure Plane.

The Taylor Mountain facility also provides ground storage for the Mountain Top Pressure Plane. Two 100 HP centrifugal pumps take suction from the Taylor Mountain GSTs and deliver water to the Hughes elevated storage tank. Pump records indicate that the rated capacity of each pump is 1,180 gpm.

Hogg Mountain GSTs

The Hogg Mountain facility is located in the north-central portion of the city and provides elevated storage for the Central Pressure Plane. The site contains a 1.0 million gallon ground storage tank that has a diameter of 65 feet and a 339,000-gallon ground storage tank that has a diameter of 38 feet. Water is supplied to the tanks from the Turkey Run Pump Station. The base elevation of the Hogg Mountain tanks is 1,221 feet and the overflow elevation of the Hogg Mountain tanks is 1,261 feet. A total of 369,000 gallons of elevated storage is provided by the Hogg Mountain GSTs for the Central Pressure Plane.

3.0 DESIGN CRITERIA

In order to evaluate the Copperas Cove water system, certain design requirements had to be established. The Texas Commission on Environmental Quality (TCEQ) outlines minimum design requirements and operating practices in Chapter 290 of the Texas Administrative Code (TAC). While TCEQ requirements provide general guidelines applicable to a broad array of systems, actual design and evaluation criteria for a specific system should be developed based on historical data when possible. For the purpose of this study, the Copperas Cove water system was evaluated using both TCEQ requirements and design criteria developed from historical data provided by the City of Copperas Cove. The historical water usage data provided is the amount of water purchased from Bell County WCID No. 1. The amount of water billed versus unbilled, or water loss in the system, was not evaluated.

3.1 TCEQ Design Requirements

Minimum water system requirements as enforced by the TCEQ can be found in Chapter 290 Section 290.45. The requirements contained in this section can be used in evaluating both the total capacities for public water systems and the capacities at individual pump stations and pressure planes. The capacities specified in Chapter 290 are minimum requirements only.

For a community water system a total storage capacity of 200 gallons per connections and an elevated storage capacity of 100 gallons per connection must be provided. Elevated storage capacity is defined as that portion of water that can be stored at least eighty feet above the highest service connection in the pressure plane served by the storage tank. (TCEQ Section 290.38 (18))

Service pump capacity should provide each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demands with the largest pump out of service, whichever is less. For systems which provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm per connection are required at each pump station or pressure plane. (TCEQ Section 290.45 (b))

Minimum system pressure requirements are presented in Section 290.44 (d). Texas Commission on Environmental Quality requires that the system must be designed to maintain a minimum pressure of 35 psi at all points within the distribution network at a flow rate of at least 1.5 gallons per minute per connection. Additionally, when the system is intended to provide fire-fighting capability, it must also be designed to maintain a minimum pressure of 20 psi under combined fire and drinking water flow conditions.

3.2 Design Criteria Based on Historical Data

Historical water usage, billing data, and connection records were provided to River City Engineering by the City of Copperas Cove. This data was used to determine average daily demand, maximum daily demand, and peak hour demand. In the absence of verified historical data, TCEQ defines maximum daily demand as 2.4 times the average daily demand. The maximum daily demand represents the highest anticipated water usage for a 24-hour period during any given year. Peak hourly demand is defined as 1.25 times the maximum daily demand (prorated to an hourly rate) if a public water supply meets TCEQ minimum requirements for elevated storage. Peak hourly demand represents the highest anticipated water usage for any given instant in the water system. (TCEQ Section 290.38 (28) & (38))

Historical data for water usage and number of connections is presented in Exhibit B. Water usage is based on metered water pumped from the Killeen pump stations. Exhibit B indicates that a maximum daily pump rate of 8.45 million gallons occurred in August of 2009. (Please note that the 11.278 million gallons value in September of 2010 was a result of Bell County WCID No. 1's MTR malfunction and will be ignored for this model). This equates to a maximum daily demand of 713 gallons per day per connection. The highest maximum daily demand of 848 gallons per day per connection occurred in July of 1992. Annual average daily demands ranged from 261 gallons per day per connection to 370 gallons per day per connection with the annual average daily demand for the year of 2010 being 311 gallons per day per connection.

The 10 year period from November 2001 through October 2011, with the exception of September 2010, was used to establish the System's Average Daily, Maximum Daily, and Peak Hourly Demands. The Average Daily Demand over this period was 327 gpd/connection. The maximum daily flow occurred in August 2009 and was 8.449 MGD with 11,844 connections. This equates to a maximum daily flow of 713 gpd/connection. TCEQ rules require that a 15% safety factor be added, resulting in a Maximum Daily Demand value of 820 gpd/connection, or 0.57 gpm/connection. This value was approved by TCEQ in their September 28, 2012 letter to the City. The TCEQ peaking factor from Section 290.38 of 1.25 times Maximum Daily Demand was used to establish a Peak Hourly Demand of 1,026 gpd/connection, or 0.72 gpm/connection. These results are summarized below in Table 3.1.

Table 3.1 – Water Usage Summary

Average Daily Demand	327 GPD / Connection	0.23 GPM / Connection
Maximum Daily Demand	820 GPD / Connection	0.57 GPM / Connection [(1)]
Peak Hourly Demand	1,026 GPD / Connection	0.72 GPM / Connection [(2)]

[(1)] Calculated using the historic maximum day demand plus 15% TCEQ required safety factor.

[(2)] Calculated using a maximum day to peak hour demand peaking factor of 1.25. Section 290.38 (38).

Based on the average daily demand developed from historical data, the following design criteria were developed. Several of the values were rounded up to account for fluctuations in usage and to provide a factor of safety. Total storage capacity was based on the ability of the system to store enough water for an average day's demand. This results in a value of 400 gallons per connection of total storage. Fifty-percent of a system's total storage should be elevated resulting in an elevated storage capacity of 200 gallons per connection. Service pump capacity was based on the ability to meet the peak hourly demand of 0.8 gpm per connection with the largest pump out of service or a total minimum pumping capacity of 1,000 gpm, whichever is greater.

The design criteria developed from historical records is more stringent than that given by TCEQ. Therefore, the design criteria based on historical records will be used to evaluate the water system. The recommended design criteria are summarized below in Table 3.2.

Table 3.2 – Recommended Design Criteria

	TCEQ Requirements	**Historical Water Usage**	**Recommended Design Criteria**
Total Storage	200 Gal. / Connection	-	400 Gal. / Connection
Elevated Storage	100 Gal. / Connection	-	200 Gal. / Connection
Average Daily Demand	-	327 GPD / Connection	400 GPD or 0.3 GPM Per Connection
Maximum Daily Demand	-	820 GPD / Connection	1,000 GPD or 0.7 GPM Per Connection
Service Pump Capacity	0.6 GPM / Connection [(1)]	-	0.8 GPM Per Connection
Supply Pump Capacity	0.6 GPM / Connection	-	0.6 GPM Per Connection

[(1)] A service pump capacity is required that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service, whichever is less. Section 290.45 (b) (2) (F). For systems that provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm per connection are required at each pump station or pressure plane. Section 290.45 (b) (2) (F)

3.3 Fire Protection Requirements

When a fire occurs in a water distribution system, fire flow demands can represent a large fraction of the total demand for the system. The effects of fire demands are difficult to derive precisely since fires occur with random frequency in different areas, with each area having unique fire protection requirements. Generally, the amount of water needed to adequately fight a fire depends on the size of the burning structure, its construction materials, the combustibility of its contents, and the proximity of adjacent buildings.

One of the benefits of providing water for fire protection is a reduction in the insurance rates of residents and businesses in the community. In the United States, the fire-fighting capabilities of a community's fire department and the capacity of the water distribution network is audited and rated by the Insurance Services Office (ISO) using the *Fire Protection Rating System* (ISO, 1998). The ISO evaluation process is summarized in AWWA M-31 (1998).

Since systems will be evaluated using ISO methods, it is recommended that the design of the fire protection systems be based on the ISO rating system, which includes determining fire flow demands according to the ISO approach. Although the actual water needed to fight a fire depends on the structure and the fire itself, the ISO method yields a Needed Fire Flow (NFF) that can be used for design and evaluation of the system. Different calculation methods are used for different building types, such as residential, commercial, or industrial.

For one- and two-family residences, the needed fire flow is determined based on the distance between structures, as shown in Table 3.3.

Table 3.3 – Required Residential Fire Flow

Distance Between Buildings (ft)	Fire Flow (gpm)
More than 100	500
31 – 100	750
11 – 31	1,000
Less than 11	1,500

For commercial and industrial structures, the needed fire flow is based on building area, construction class (frame or masonry construction), occupancy (such as a department store or chemical manufacturing plant), exposure (distance to and type of nearest building), and communication (types and locations of doors and walls). The formula for determining needed fire flow can be summarized as:

$$NFF = 18\,F\,A^{0.5}\,O\,(X+P)$$

Where:

NFF	=	Needed Fire Flow (gpm)
F	=	Class of Construction Coefficient
A	=	Effective Area (sq. ft.)
O	=	Occupancy Factor
X	=	Exposure Factor
P	=	Communication Factor

The procedure for determining NFF is documented in the Fire Protection Rating System (1998) and AWWA M-31 (1998). The minimum needed fire flow should not be less than 500 gpm, and the maximum should not exceed 12,000 gpm.

Most frequently, the procedure produces values less than 3,500 gpm. Values are also adjusted if a building is equipped with sprinklers.

In addition to a flow rate requirement, a requirement exists for the duration over which the flow can be supplied. According to ISO (1998), fires requiring 3,500 gpm or less are referred to as receiving "Public Fire Suppression," and those requiring greater than 3,500 gpm are classified as receiving "Individual Property Fire Suppression." For fires requiring 2,500 gpm or less, a two-hour duration is sufficient; for fires needing 3,000 to 3,500 gpm, a three-hour duration is used; and for fires needing more than 3,500 gpm, a four-hour duration is used along with slightly different rules for evaluation.

For the purpose of this study, a minimum required fire flow rate of 1,000 gpm was used to evaluate the water system. This value was chosen since the Copperas Cove water system is comprised primarily of residential connections with building separation typically falling in the 11 feet to 31 feet range. Required fire flow for commercial and industrial connections should be determined using ISO requirements.

3.4 Existing Water System Review

Water system storage and pumping requirements using TCEQ criteria is summarized in Table 3.4. Initial review of the existing Copperas Cove water system facilities shows that the system meets the minimum TCEQ requirements with respect to storage and pumping capacities. A water model simulation was used to evaluate the system's ability to maintain adequate pressure. These results are presented in Section 5.

Evaluation of the City's water system to TCEQ requirements, Table 3.4, indicates that both total system storage and elevated storage is adequate. The evaluation also shows that elevated storage in the Central Pressure Plane is inadequate (95% of required). Service pump capacities appear to be acceptable.

The City of Copperas Cove water system was also evaluated using the design criteria developed based on historical data. These results are summarized in Table 3.5. The evaluation shows that total system storage is adequate, but elevated storage for the total system is inadequate (61% of recommended). The Central Pressure Plane has adequate total storage, but inadequate elevated storage (48% of recommended). The Mountain Top Pressure Plane has adequate total and elevated storage. The Rattlesnake Pressure Plane has adequate total and elevated storage.

Evaluation of the Copperas Cove water system indicates that the system does not satisfy the design criteria developed. While there is adequate total storage in the system, available elevated storage is deficient. Computer modeling of the system also indicates pressure problems exist in the system. Computer modeling of the water system is described in Section 4 and the results are presented in Section 5.

As Copperas Cove continues to grow and areas to south, west and northwest continue to develop, the need to efficiently transfer water to these hydraulically remote areas of the system will become an increasing concern.

Table 3.4 – System Requirements Using TCEQ Design Requirements

	Total Storage Capacity	Elevated Storage Capacity	Service Pump Capacity		
TCEQ Design Criteria	200 gal/conn	100 gal/conn	2 or more pumps w/total capacity of 2.0 gpm/conn (1)	Total capacity of at least 1,000 gpm and meet Peak Hourly Demand (1) (2)	0.6 gpm/conn if > 200 gal/conn elevated storage (3)
Pressure Plane					
Central Required Available Connections: 10,907	2,181,400 gal 6,349,000 gal	1,090,700 gal 1,037,000 gal	-	8,726 gpm 11,229 gpm	-
Mountain Top Required Available Connections: 843	168,600 gal 600,000 gal	84,300 gal 240,000 gal	-	1,000 gpm 1,180 gpm	506 gpm 1,180 gpm
Rattlesnake Required Available Connections: 750	150,000 gal 670,000 gal	75,000 gal 245,000 gal	-	1,000 gpm 2,000 gpm	450 gpm 2,000 gpm
Total Required Available Connections: 12,500	2,500,000 gal 7,619,000 gal	1,250,000 gal 1,522,000 gal	-	10,726 gpm 14,409 gpm	-

(1) A service pump capacity is required that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service, whichever is less. Section 290.45(b)(2)(F)

(2) Peak Hourly Demand estimated at 0.8 gpm per connection based on City of Copperas Cove historical usage.

(3) For systems that provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm/connection are required at each pump station or pressure plane. Section 290.45(b)(2)(F)

Table 3.5 – System Requirements Using Recommended Design Requirements

	Total Storage Capacity	Elevated Storage Capacity	Service Pump Capacity		
Recommended Design Criteria	400 gal/conn	200 gal/conn	2 or more pumps w/total capacity of 2.0 gpm/conn (1)	Total capacity of at least 1,000 gpm and meet Peak Hourly Demand (1) (2)	0.6 gpm/conn if > 200 gal/conn elevated storage (3)
Pressure Plane					
Central Required Available Connections: 10,907	4,362,800 gal 6,349,000 gal	2,181,400 gal 1,037,000 gal	-	8,726 gpm 11,229 gpm	-
Mountain Top Required Available Connections: 843	337,200 gal 600,000 gal	168,600 gal 240,000 gal	-	1,000 gpm 1,180 gpm	480 gpm 1,180 gpm
Rattlesnake Required Available Connections: 750	300,000 gal 670,000 gal	150,000 gal 245,000 gal	-	1,000 gpm 2,000 gpm	450 gpm 2,000 gpm
Total Required Available Connections: 12,500	5,000,000 gal 7,619,000 gal	2,500,000 gal 1,522,000 gal	-	10,726 gpm 14,409 gpm	-

(1) A service pump capacity is required that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service, whichever is less. Section 290.45(b)(2)(F)

(2) Peak Hourly Demand estimated at 0.8 gpm per connection based on City of Copperas Cove historical usage.

(3) For systems that provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm/connection are required at each pump station or pressure plane. Section 290.45(b)(2)(F)

4.0 WATER MODEL DEVELOPMENT

4.1 Approach

Hydraulic analysis of the distribution system was performed with the use of Bentley WaterGEMS V8i water modeling software version. The program is a Windows application, which provides a graphical interface that enhances construction and analysis of the water model and permits presentation of results graphically in addition to tabular format. The water system was analyzed with 24-hour extended period simulations and steady state simulations for existing conditions and with projected future development. These simulations were performed in order to identify system deficiencies and analyze proposed water system improvements.

4.2 Physical Data

Physical data input into the water model includes water storage facilities, pump characteristics, and pipe networks. The following are sources of data supplied by the City of Copperas Cove Water Department both in 2004 for the original report and for this update that were used for construction of the computer model and analysis of the distribution system:

- Water distribution system maps
- Construction plans and drawings made by Copperas Cove Water Department personnel
- Storage facilities data tables, pump data tables, and pump curves
- Field tests performed by Copperas Cove Water Department personnel to determine actual pump performance water transmission and distribution pipe characteristics
- Aerial maps containing images and topographic data at 2-foot contour intervals
- Historical operational data obtained from SCADA system

Due to the variety and nature of the information sources available, vague and/or conflicting data was often encountered. River City Engineering consulted with Copperas Cove Water Department personnel whenever possible to determine the most reliable data sources and resolve any conflicting information. A series of field tests was also performed in order to determine actual pump and distribution system performance. Pump curves and pipe friction coefficients (C-values) were extrapolated from these field tests.

Pipes entered in the model were limited to water distribution lines with diameters of six inches and larger. In certain instances pipes smaller than 6 inches were included in the model to preserve system connectivity. Pipe diameters were obtained from distribution system maps and meetings with Copperas Cove Water Department personnel. Aerial and topographic maps provided by the City of Copperas Cove were used as a background map in the water model. This meant that WaterCAD automatically determined pipe lengths as they were added to the model.

Typical C-values used for various pipe materials are given below in Table 4.1. When possible, C-values for longer transmission lines were determined using data obtained from field tests.

Table 4.1 – Typical C-Values

Pipe Material	C-Value
Asbestos Cement (AC)	130
Cast Iron	91
Concrete Cylinder	125
Ductile Iron	130
PVC	140

Pumps, tanks, control valves and pressure-reducing valves were modeled based on information provided by the City of Copperas Cove and on information obtained from field tests. Pump controls were modeled using data obtained from the Copperas Cove SCADA system. Pumps were modeled in WaterGEMS using simple controls; pump ON or pump OFF based on predetermined tank levels. Simple controls do not account for pump timers or delays.

The existing conditions model consists of 692 nodes and 999 pipes. Approximately 805,000 feet of water line were modeled with 51 percent of the total length of water lines being 6-inch or smaller diameter pipe. A water model project inventory and maps illustrating the modeled system is included in Appendix B as Exhibit B-1.

4.3 Demand Determination / Allocation

The general methodology for developing the water demands for the system was to first develop a per connection demand and then to allocate the total number of connections to the system. A connection is defined as a single-family residential unit or any industrial establishment to which drinking water is supplied from the system. As an example, the number of service connections in an apartment complex would be equal to the number of individual apartment units. (TCEQ Section 290.38 (15)) Average day and maximum day demands of 0.3 gpm per connection and 0.7 gpm per connection, respectively, were previously developed in Section 3.2.

The City of Copperas Cove consists primarily of residential connections. Therefore, aerial maps were utilized to allocate connections to the system. An overlay of the water model nodes and pipes was generated and imposed on the aerial maps. Service areas for each node were defined and a count of the number of residences in each service area was made. The total number of residences or connections in each service area was then applied to the corresponding node.

Several larger multi-family and mobile home water users were identified. Information supplied by property owners or managers was used to determine the number of connections assigned to each property and the corresponding water model node. Table 4.2 below summarizes the allocation of multi-family connections with water meters larger than 2-inch.

Table 4.2 – Allocation of Multi-Family Connections

Property	# of Units	Node
Five Hills Apartments	98	J-718
Willow Creek Apartments	201	J-647
Copper Commons (DeWald Property)	154	J-581
Colonial Plaza (DeWald Property)	240	J-59
Cedar Grove M.H. Park	296	J-207
Copperas Cove Housing Authority (Phil Ave)	46	J-656
Stony Brook Assisted Living	60	J-576
Copperas Cove Housing Authority (1102 Golf Course Rd)	25	J-724
Copperas Cove Housing Authority (1101 Golf Course Rd)	25	J-724
Clear Creek Meadows	188	J-406
Sunshine Homes	50	J-500

4.4 Model Calibration

The existing conditions model was calibrated, as part of the 2004 Study, using data from fire hydrant flow tests and by verifying an average 24-hour extended period simulation to a data from the SCADA system for a 24-hour period. The average difference between the results from the water model and the field data was 6.3%. A portion of the discrepancy between the model results and the actual field test results can be attributed to not knowing the exact water storage tank levels and the amount of water being used in the system at the time these tests were performed. A certain level of system error always exists in modeling due to the many variables modeled and the precision of information input into the model. The favorable comparison of field tests with model results demonstrates that the water model is accurately able to simulate existing system conditions. Based on these comparisons, we feel that the water model has been calibrated to an acceptable level.

EXISTING CONDITIONS WATER MODEL

5.1 Existing Conditions Simulations

Performance and adequacy of the Copperas Cove water system was analyzed for four demand scenarios for the existing conditions state of the system. The four demand scenarios include an average day 24-hour simulation, a maximum day 24-hour simulation, a steady state peak hour simulation, and a fire flow analysis. The existing conditions model reflects typical operation of the system as of January 2011. The conditions modeled include tank levels, pump controls, pressure-reducing valve settings, and other general characteristics of the distribution system. The results from the existing conditions simulations are presented in the following Sections. The system deficiencies discovered are discussed in Section 5.2

5.1.1 Average Day Simulation

The Average Day Simulation is a 24-hour extended period simulation based on an average day demand of 0.3 gpm per connection. A minimum required pressure of 35 psi at any point in the system was used. The results of this simulation are presented in Exhibit E-1.

The results of the Average Day Simulation show that the existing system is able to maintain a minimum of 35 psi. There are two areas with marginal pressure, approximately 36 psi. These areas include South 27th Street and Urbantke Ave., and Oak Hill Drive. The corresponding nodes in the water model are shown below in Table 5.1. The lower pressures resulting in these areas are due to the fact that each of these areas is located near the upper elevation limits of the service area of the Central Pressure Plane. These areas are generally located in the west-central portion of the city where the Central Pressure Plane meets the Mountain Top Pressure Plane. Node J-325 is located north of the Terrace Drive Pump Station, approximately midway to the Taylor Mountain tank site. Node J-696 is located approximately 1 mile west of the Taylor Mountain tank site on Oak Hill Drive.

Table 5.1 – Areas of Marginal Pressure (Average Day, Existing Conditions)

Node	Location	Minimum Pressure (psi)
J-325	South 27th Street and Urbantke Ave.	36
J-510	Martha St. & Alfred Dr.	39
J-696	Oak Hill Drive	36

Areas of high pressure are defined as areas where static pressures exceed 80 psi. Several areas of high pressure result primarily in the north portions of the city as well as areas to the south along FM 116 and areas to the southeast along Judy Lane, Creek Street, and Margaret Lee Street.

These areas of high pressure are caused by servicing areas at elevations below the acceptable range of elevations for a particular pressure plane. These areas exist since pressure plane boundaries are often determined not only by topography, but also by the layout of the water distribution system. In other words, it may not be feasible to create a separate pressure plane for just a small number of homes. Pressure-reducing valves (PRVs) are typically installed to compensate for these higher pressures.

The Turkey Run tanks, Seven Mile tank, Rattlesnake Mountain standpipe, Mickan Mountain tanks, Hogg Mountain tanks, Taylor Mountain tanks, and the Hughes Mountain elevated tank all appear to be operating at an acceptable level of performance, draining and refilling several times a day.

5.1.2 Maximum Day Simulation

The Maximum Day Simulation is a 24-hour extended period simulation based on a maximum day demand of 0.7 gpm per connection. This simulation represents the highest anticipated water usage for a 24-hour period during a given year. A minimum required pressure of 35 psi at any point in the system was used. The results of this simulation are presented in Exhibit E-2.

The results of the Maximum Day Simulation show that the areas identified as marginal for the Average Day Simulation have pressures slightly below 35 psi during the Maximum Day Simulation. These areas include Oak Hill Drive, South 27th Street and Urbantke Ave., and Martha St. and Alfred Dr. The corresponding nodes in the water model and minimum pressure experienced at each node are shown below in Table 5.2. The low pressures resulting in these areas are the result of providing service to areas at an elevation near or in excess of the upper limits of the Central Pressure Plane service area. The results of the Maximum Day Simulation show that the existing pumps and tanks are operating at acceptable levels, with the tanks draining and refilling several times a day.

Table 5.2 – Areas of Low Pressure (Maximum Day, Existing Conditions)

Node	Location	Minimum Pressure (psi)
J-325	South 27th Street and Urbantke Ave.	34
J-510	Martha St. & Alfred Dr.	34
J-696	Oak Hill Drive	35

5.1.3 Peak Hour Simulation

The Peak Hour Simulation is a steady-state simulation based on a peak hourly demand of 1.5 gpm per connection. This simulation represents the highest anticipated water usage at any given instant in the water system. A minimum required pressure of 35 psi at any point in the system was used.

While a peak hourly demand of 0.8 gpm per connection was previously developed based on historical data, the TCEQ requirements in Section 290.44 (d) are more stringent in this case so a demand of 1.5 gpm per connection was used. The results of this simulation are presented in Exhibit E-3.

At peak hourly demand for existing conditions, low pressures result in several additional areas. There are primarily two general areas of low pressure as well as several isolated, smaller areas. These areas with the corresponding nodes in the water model and minimum pressure experienced at each node are shown below in Table 5.3.

Table 5.3 – Areas of Low Pressure (Peak Hour, Existing Conditions)

Node	Location	Minimum Pressure (psi)
J-484, J-485, J-486, J-487	Highland Dr. East of FM 116, on South side of City	18
J-507, J-509, J-510, J-511	Martha St. & Alfred Dr.	21
J-402, J-408, J-415	Pecan Cove Dr. and Garden Ave. at Hwy 190	23
J-411, J-412	South end of Hwy 190	23
J-325, J-326	South 27th Street and Urbantke Ave.	28
J-468	Brown Dr. west of FM 116 and Southeast of Hwy 190	29
J-440, J-441, J-443	Connie Ave. west of FM 116 and Southeast of Hwy 190	31
J-334, J-338	From South 21st St & Sublett Ave., along Sublett Ave. and Bluffdale Dr.	31
J-696	Oak Hill Drive	32
J-377, J-378	Stewart St. & Craig St. Area, South of Veterans Ave.	33
J-4002	East Robertson Ave., below Mickan Tanks	34

5.1.4 Fire Flow Simulation

A fire flow simulation was performed in WaterGEMS using fire protection requirements previously outlined in Sections 3.1 and 3.3. WaterGEMS calculates the fire flow available at each node in the system through an iterative process for a steady state simulation. Although required fire flow for any node in the system is dependent on an individual structure's use, type of construction, and size, a minimum required fire flow of 1,000 gpm was specified in the water model for each node at a residual pressure of 20 psi. Results for the existing conditions fire flow analysis are presented in Exhibit E-4.

The fire flow analysis shows that approximately 5 percent of the nodes included in the water model do not meet the minimum required fire flow of 1,000 gpm used to evaluate the system. Table 5.4, below, shows a summary of these areas. Fire flow in these areas is generally limited because of the small water lines servicing these areas. We recommend that each year a certain percentage of the smaller water lines be replaced with eight-inch or larger water lines to increase fire flow to these areas.

Table 5.4 – Areas Without Minimum 1,000 gpm Fire Flow

Area	Node	Minimum Fire Flow Available (gpm)
Sherry Ln. / Bluff Dr. / High Chapparal Area	J-348, J-349, J-350, J-351, J-352, J-354, J-394, J-705, J-725	614
Yucca Dr. / Cedar Dr. Area	J-650, J-652, J-653, J-654	762
Winchester Lane Area	J-669, J-671, J-673	884
End of Oakhill Drive	J-692, J-693, J-694, J-696	571
Liberty St.	J-371	981
Victoria Circle	J-374	740
Leif Circle	J-375	758
Ogletree Pass	J-395	730
Pecan Cove Drive	J-402	754
Lampassas County Line	J-412	790
Big Valley Road	J-446	796
Brown Drive	J-468	984
East Robertson and Laura	J-657	972
Hillside Street	J-703	602

5.2 Existing Conditions Deficiencies

Using design criteria developed from historical data and water model simulations, the Copperas Cove water system was found to be deficient in several areas. These areas are identified as elevated storage, and distribution system deficiencies. These items are further described below.

Elevated Storage

As indicated in Section 3, Table 3.5, there is insufficient elevated storage in the Central Pressure Plane. Available elevated storage for the Central Pressure Plane was calculated based on a pressure plane hydraulic grade line of 1,261 feet which corresponds to the overflow elevation of the Taylor Mountain ground storage tanks, the Hogg Mountain ground storage tanks, and the Seven Mile ground storage tank. Assuming a minimum service area pressure of 40 psi means the Central Pressure Plane can service areas up to the 1,170-foot elevation. Elevated storage is defined as any storage 80 feet above the highest elevation in a service area. (TCEQ Section 290.38)

Elevated storage for the Central Pressure Plane is then limited to all storage between the 1,261-foot and 1,250-foot elevations. Only the top 11 feet of storage in the Taylor Mountain tanks, the Hogg Mountain tanks, and the Seven Mile tank contribute to elevated storage for the Central Pressure Plane.

There are estimated to be 10,907 connections serviced by the Central Pressure Plane. This results in a required elevated storage capacity of 2.18 million gallons. The Taylor Mountain GSTs, Hogg Mountain GSTs, Seven Mile GST provide a combined total of 1.04 million gallons of elevated storage. Therefore, 1.14 million gallons of additional elevated storage is required for the Central Pressure Plane, and is an immediate concern.

Required elevated storage in the Mountain Top Pressure Plane is in excess of 70 percent of available elevated storage and required elevated storage in the Rattlesnake Mountain Pressure Plane is approaching 70 percent of available. Although elevated storage in the these two pressure planes is currently adequate, the Mountain Top area and Rattlesnake Mountain area both contain several prime areas for development where future growth is expected to occur in the near future. An additional elevated storage tank in the Mountain Top Pressure Plane is currently planned, and would address this Pressure Plane. Elevated storage in the Rattlesnake Mountain Pressure Plane should be planned for.

Distribution System

Section 5.1 describes the results of the simulations performed for the system using WaterGEMS, and indicated several areas of concern. The Average Day Simulation indicated marginal pressures between 36 and 39 psi for the three (3) areas including South 27th Street & Urbantke Avenue, Martha Street & Jeffrey Lane, and Oak Hill Drive. The Maximum Day Simulation indicated that these same three (3) areas experience inadequate pressures, ranging from 34 to 35 psi. The steady state Peak Hour Simulation indicated that these areas and several additional areas could not maintain adequate pressure.

The low pressures in these areas can be explained by several reasons. These include having ground elevations that approach the upper limit of the respective Pressure Plane and/or having inadequate transmission or supply of water to a particular area.

Several of the areas noted, in the southwest portion of the system, can be grouped together. These include the Pecan Drive and Garden Avenue at Highway 190, South end of Highway 190, and the Brown Drive west of FM 116 and southeast of Highway 190 areas. All of these areas are served by the transmission line located along Highway 190. This line currently ends at Cline Drive and is in essence a dead end line fed by the Taylor Mountain Tanks. Each of these areas would benefit from having the transmission line along Highway 190 extended to FM 2657 and then along FM 2657 to tie into the existing transmission line on FM 2657. This would loop the system, reducing the pressure loss to the southwest portion of the system. This portion of the system would also benefit from additional elevated storage. The existing Mickan Mountain Tanks have an overflow elevation of 1207, lower than the other tanks serving the Central Pressure Plane of 1261. Replacing the Mickan Mountain Tanks with an elevated storage tank with an overflow elevation of 1261 would also benefit this area, as well as simplify operations.

These two (2) improvements would address the immediate concerns. In order to serve future growth in the area additional transmission main capacity along Highway 190 and an additional elevated storage tank in the area will be needed.

Two (2) of the areas noted, Martha Street & Alfred Drive and East Robertson Avenue below the Mickan Mountain Tanks, would also have their pressure concerns addressed by replacing the Mickan Mountain Tanks with an elevated storage tank. This improvement would increase pressure in these areas and also simplify operation of the Central Pressure Plane. An elevated storage tank would eliminate the need to pump from the Mickan Mountain Tanks to the Taylor Mountain site, and would instead allow the elevated storage tank to float with the other storage tanks in the Central Pressure Plane.

The Oakhill Drive area noted experiences marginal to inadequate pressures due to fact that the ground elevations in the area approach the upper limit of the Central Pressure Plane. The pressure issues in this area would be addressed by connecting it to the Mountain Top Pressure Plane.

The remaining areas include Highland Drive East of FM 116, South 27th Street and Urbantke Avenue, and Stewart Road and Craig Street Area south of Veterans Drive. These areas are comprised of smaller, mostly 6-inch, lines with no larger mains and in some cases not having water lines on cross streets.This results in low pressures for hydraulically remote areas in a subdivision whose elevation may already be approaching the upper limits of the pressure plane service area

5.3 Recommended Improvements – Phase I

A list of recommended improvements has been developed to address immediate concerns and deficiencies in the Copperas Cove water system. These improvements are referred to as Phase I Improvements and are necessary for the water distribution system to provide an adequate level of service and satisfy design criteria under current existing conditions. Phase I Improvements consists of four projects whose primary goal is to address the water storage deficiencies and improve water transmission capabilities. Phase I Improvements are depicted in Exhibit 'D' and are more particularly described as follows:

Mountain Top Pump Station and Storage Tank Improvements (Project I-A)

The Mountain Top Pressure Plane is an area where immediate growth is expected to occur. The Mountain Top total service area is approximately 1,500 acres, 720 of which are currently developed and contain 843 connections. Allowing for a future development density of 2.0 connections per acre results in a total of 2,400 connections at fully developed conditions. An elevated storage capacity of 431,000 gallons is required based on ten year projected growth and a total of 480,000 gallons would be required for the Mountain Top Pressure Plane at fully developed conditions. The existing Hughes EST provides 240,000 gallons of elevated storage.

A 300,000 gallon elevated storage tank is proposed at the north end of the Mountain Top Pressure Plane. To serve this elevated storage tank, and also provide additional service pump capacity, several other improvements are proposed as part of this project.

A small 68,000 gallon ground storage tank would be installed at the same site. This ground tank would have an overflow elevation of 1,261 and float with the Central Pressure Plane. An off-site 16-inch water line from the existing 16-inch water line on West Avenue B to the tank site would be installed. A proposed pump station would be installed to pump from the ground storage tank and fill the proposed elevated storage tank. The proposed pump station consists of three (3) 750 gpm pumps. The 68,000 gallon ground storage tank was sized to provide adequate storage to allow the proposed pumps to operate without excessive cycling.

This project was recently bid, but not awarded at the time of this Study. The bid price for this project was $2,188,000, with a total estimated total project cost of $2,740,000.

Eastside Water Transmission Line – Constitution Drive Water Line (Project I-B)
The current water transmission capabilities to the Seven Mile Mountain Water Storage Tank are not adequate. It is currently served by a 12-inch water line that runs from Highway 190, along Constitution Drive, to the tank site. This project would consist of installing a 16-inch water line parallel to the existing 12-inch water line. The total estimated project cost is $2,030,000.

Mickan Mountain Elevated Storage Tank Improvements (Project I-C)
The Mickan Mountain Elevated Storage Tank Improvements is proposed to address the shortage of elevated storage in the Central Pressure Plane. It is proposed that a new 2.0 million gallon composite elevated storage tank be constructed at the Mickan Mountain tank site. The Mickan elevated storage tank would then float with the Taylor Mountain tanks, the Seven Mile Tank, and the Hogg Mountain tanks to form a unified Central Pressure Plane. The Turkey Run pump station would supply water to all of the Central Pressure Plane tanks, ultimately eliminating the Mickan pump station. The total estimated project cost of the Mickan elevated storage tank project is $3,560,000.

FM 2657 & Highway 190 Water Line (Project I-D)
The FM 2657 & Highway 190 Water Line project is proposed to improve the water transmission and distribution capabilities in the southeastern portion of the Central Pressure Plane. The existing water line on FM 2657 currently ends approximately 5,300 lf from Highway 190, creating a long dead end line. The existing water lines on Highway 190 end at Cline Drive. This proposed water line would connect to the end of the existing water line on FM 2657, run along FM 2657 and then east on Highway 190, connecting to the existing lines on Highway 190, and would loop the water system. The total estimated project cost of the FM 2657 & Highway 190 Water Line project is $2,940,000.

5.4 Summary of Phase I Improvements

Phase I Improvements were developed, and are needed immediately, in order to address the immediate concerns and deficiencies in the Copperas Cove water distribution system. Completion of Phase I Improvements will ensure that the water system will meet the recommended design criteria established in Section 3 and that the system will provide an acceptable level of service based on the current number of connections.

The total estimated project cost of all Phase I Improvements is $11,300,000. This includes the sum of all Phase I estimated construction costs plus an additional 25 percent added to the total construction cost to account for contingency, engineering, surveying, and permitting. A summary of the costs associated with Phase I Improvements is presented in Table 5.6. A system analysis with all of the Phase I Improvements complete, and with the existing number of connections, is shown in Table 5.5.

Table 5.5 – System Analysis Using Recommended Design Requirements with Phase I Improvements Completed

	Total Storage Capacity	Elevated Storage Capacity	Service Pump Capacity		
Recommended Design Criteria	400 gal/conn	200 gal/conn	2 or more pumps w/total capacity of 2.0 gpm/conn (1)	Total capacity of at least 1,000 gpm and meet Peak Hourly Demand (1) (2)	0.6 gpm/conn if > 200 gal/conn elevated storage (3)
Pressure Plane					
Central Required Available Connections: 10,907	4,362,800 gal 7,217,000 gal	2,181,400 gal 3,037,000 gal	-	8,726 gpm 11,229 gpm	-
Mountain Top Required Available Connections: 843	337,200 gal 968,000 gal	168,600 gal 540,000 gal	-	1,000 gpm 2,680 gpm	480 gpm 2,680 gpm
Rattlesnake Required Available Connections: 750	300,000 gal 670,000 gal	150,000 gal 245,000 gal	-	1,000 gpm 2,000 gpm	450 gpm 2,000 gpm
Total Required Available Connections: 12,500	5,000,000 gal 8,855,000 gal	2,500,000 gal 3,822,000 gal	-	10,726 gpm 15,909 gpm	-

(1) A service pump capacity is required that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service, whichever is less. Section 290.45(b)(2)(F)

(2) Peak Hourly Demand estimated at 0.8 gpm per connection based on City of Copperas Cove historical usage.

(3) For systems that provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm/connection are required at each pump station or pressure plane. Section 290.45(b)(2)(F)

Table 5.6
Recommended Improvements - Phase I
Cost Estimate

Project I-A - Mountain Top Pump Station & Storage Tank Improvements					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	300,000 gal Elevated Storage Tank	1	LS	$ 1,210,000.00	$ 1,210,000.00
2	68,000 gal Ground Storage Tank	1	LS	$ 124,000.00	$ 124,000.00
3	Pump Station with 3-750 gpm pumps	1	LS	$ 621,000.00	$ 621,000.00
4	Off-Site 16" Water Line	1615	LF	$ 145.00	$ 234,175.00
Total Estimated Construction Cost					$ 2,190,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 547,500.00
Total Project 'I-A'					**$ 2,740,000.00**

Project I-B - Eastside Water Transmission Line - Constitution Dr. Water Line					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	16" Water Line	11,200	LF	$ 145.00	$ 1,624,000.00
Total Estimated Construction Cost					$ 1,620,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 405,000.00
Total Project 'I-B'					**$ 2,030,000.00**

Project I-C Mickan E.S.T. Improvements					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	2.0 MG Composite Elevated Storage Tank	1	LS	$ 2,850,000.00	$ 2,850,000.00
Total Estimated Construction Cost Project I-D					$ 2,850,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 712,500.00
Total Project 'I-C'					**$ 3,560,000.00**

Project I-D - FM 2657 & Hwy 190 Water Line					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	16" Water Line	16,200	LF	$ 145.00	$ 2,349,000.00
Total Estimated Construction Cost					$ 2,350,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 587,500.00
Total Project 'I-D'					**$ 2,940,000.00**

Grand Total Phase 'I'	**$ 11,300,000.00**

This Construction Cost Estimate is based on River City Engineering's experience and qualifications, and represents River City Engineering's best judgement. However, since River City Engineering has no control over the cost of labor, materials, equipment or services furnished by others, River City Engineering does not guarantee that the actual construction cost will not vary from the Construction Cost Estimate.

6.0 FUTURE CONDITIONS WATER MODEL

6.1 Future Growth

The future conditions water model was used to evaluate the water system based on 10 years of expected growth within the City of Copperas Cove and its 2-mile extra-territorial jurisdiction (ETJ). Since demands are allocated to the water model in terms of connections, future growth was also projected in terms of connections.

Table 6.1 below indicates the average number of connections in the City of Copperas Cove since the year of 1998. In terms of the number of active connections, the City experienced a maximum annual growth rate of 6.9 percent from the years of 2004 to 2005. The average annual growth rate for the number of connections in the City since 1998 is 1.7 percent.

Table 6.1 – Average Number of Connections

Year	Avg. No. of Connections	Annual Growth Rate (%)
1998	9,710	-
1999	9,828	1.2
2000	10,127	3.0
2001	10,237	1.1
2002	10,354	1.2
2003	10,230	-1.2
2004	10,424	1.8
2005	11,150	6.9
2006	11,646	4.4
2007	11,527	-1.0
2008	12,016	4.2
2009	11,922	-0.7
2010	12,120	1.7
2011*	12,156	0.3
Average Annual Growth Rate =		1.7

**Thru October of 2011*

The number of connections for the Copperas Cove water system in the year of 2011 varied from 12,240 connections in January to 12,185 connections in October. This resulted in an average number of connections of 12,156 for the year of 2011. An additional 344 connections is included in the total number of connections to account for water supplied to Topsey WSC. This brings the connection total to 12,500 for the baseline year of 2011. For the purpose of analyzing the water distribution system and planning for future growth, an annual growth rate of 5% was estimated for the City of Copperas Cove. Although recent annual growth rates average 1.7 percent, an aggressive annual growth rate of 5 percent was used to ensure that adequate capacity would be

available in the system. This results in a total of 20,361 connections in the year 2021. See results presented below in Table 6.2.

Table 6.2 – Projected 10-Year Growth

Year	Connections (1.7% Annual Growth)	Connections (5.0% Annual Growth)
2011	12,500	12,500
2012	12,713	13,125
2013	12,929	13,781
2014	13,148	14,470
2015	13,372	15,194
2016	13,599	15,954
2017	13,830	16,751
2018	14,066	17,589
2019	14,305	18,468
2020	14,548	19,392
2021	14,795	20,361

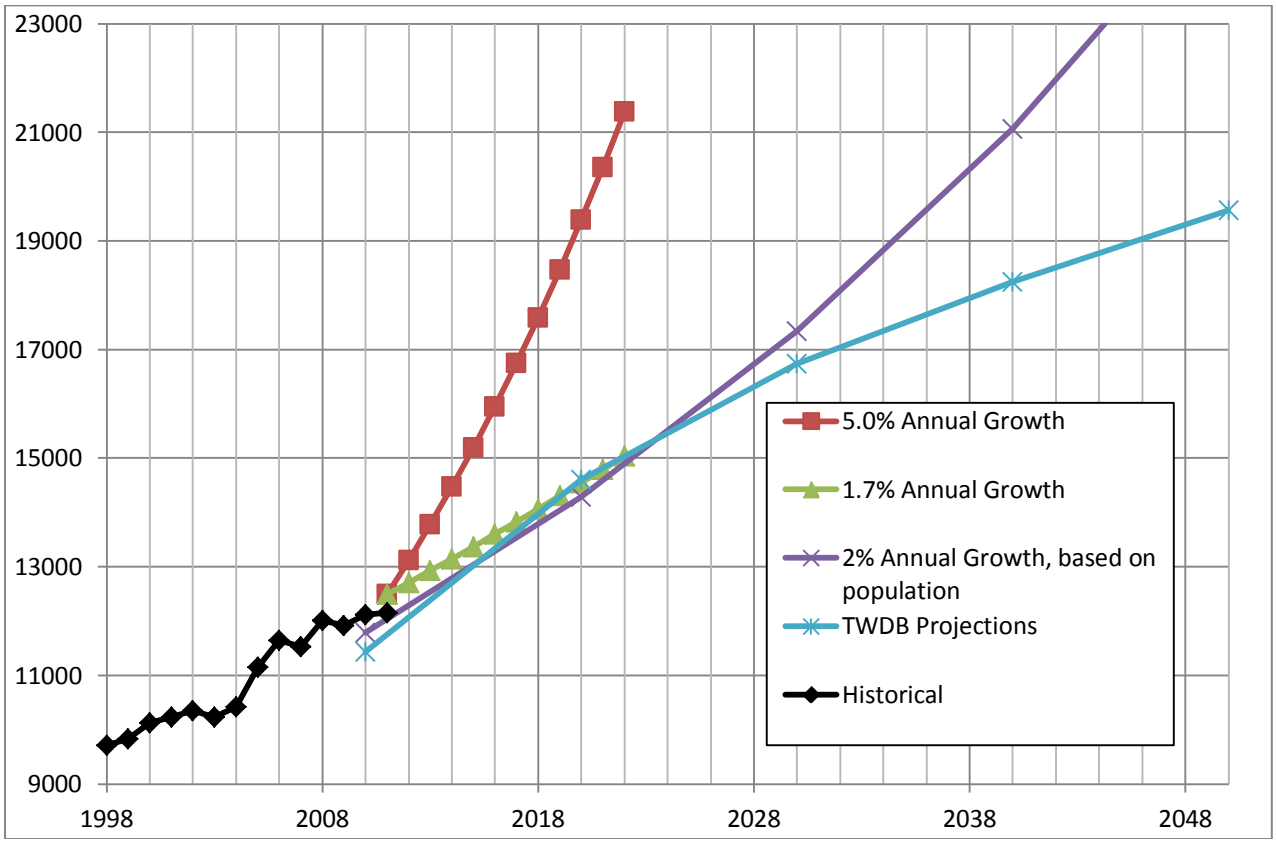
The forecasted number of connections was then compared to population projections used by the Texas Water Developed Board (TWDB) and to population projections using a 2 percent growth rate to match the City of Copperas Cove's 2007 Comprehensive Plan. Population projections were converted to number of connections based on the historical number of persons per connection for the City, and 344 connections were added to account for water supplied to Topsey WSC. The United States Census Bureau records indicate a population of 29,592 persons in 2000 and a population of 32,032 persons in 2010 for the City of Copperas Cove. This equates to 2.9 persons per connection and 2.6 persons per connection for the years of 2000 and 2010, respectively. An average value of 2.8 persons per connection was used to convert population projections to number of connections. Results are summarized in Table 6.3 and illustrated in Figure 6.4.

Table 6.3 – Population Projections

	Population Projections		Connections (2.8 persons per Connection)	
Year	TWDB Approved	Copperas Cove @ 2% Growth	TWDB Approved	Copperas Cove
2010	32,032	32,032	11,440	11,784
2020	40,893	39,047	14,605	14,289
2030	46,866	47,598	16,738	17,343
2040	51,092	58,022	18,247	21,066
2050	54,790	70,728	19,568	25,604
2060	57,765		20,630	

(1) Includes 344 connections to account for water supplied to Topsey WSC

Figure 6.4 – Connection Forecast Comparison



Future growth is expected to occur in areas to the south, west, and northwest of Copperas Cove. Six primary areas or zones have been identified and analyzed in order to allocate future demand to the system. These zones are indicated in Figure 6.5. These zones are further described below and summarized in Table 6.6.

Zone 1 includes the area to the northwest of Copperas Cove. This area is bounded by FM 1113 to the southwest, FM 116 to the east, and the 2-mile ETJ limit to the northwest. Zone 1 is primarily undeveloped and contains approximately 4,300 acres. Development in this area is expected to be residential with rural type subdivisions. Assuming a development density of 2.0 connections per acre for rural type development results in a fully developed number of connections of 8,600 connections.

Zone 2 is defined as the area west of Copperas Cove. This area is bound by FM 1113 to the north, the Mountain Top Pressure Plane to the East, and the 2-mile ETJ limit to the west and contains 9,300 acres. Development in Zone 2 is expected to be a combination of urban and rural type subdivisions with an average development density of 2.0 connections per acre. Therefore, 18,600 connections are possible for this area at fully developed conditions.

2 MILE E.T.J.

FM 116

2 MILE E.T.J.

FM 113

ZONE 1

FORT HOOD
MILITARY
RESERVATION

ZONE 3

CITY LIMIT

ZONE 4

ZONE 2

190

CITY LIMIT

ZONE 3

ZONE 5

FM 2657

ZONE 6

FM 3046

FM 116

190

2 MILE E.T.J.

LEGEND

MOUNTAIN TOP PRESSURE PLANE

RATTLESNAKE MTN. PRESSURE PLANE

CENTRAL PRESSURE PLANE

RIVER CITY ENGINEERING, INC.
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CITY OF COPPERAS COVE, TX
WATER SYSTEM STUDY

AREAS OF EXPECTED GROWTH
FIGURE 6.5

FILENAME:

Table 6.6

Areas of Expected Growth

AREAS OF EXPECTED GROWTH								
	Description	Total Area (Acres)	Existing Developed Area (Acres)	Existing Connections	Existing Density (Connections / Acre)	Assumed Future Development Density [1]	Fully Developed Number of Connections	Remaining Number of Connections to Fully Developed
Zone 1	Existing City Limit to 2-Mile ETJ, FM 116 to FM 1113	4,300	-	-		2.0 [1]	8,600	8,600
Zone 2	Western limit of Mountain Top pressure plan to 2-Mile ETJ, FM 1113 to Hwy 190	9,300	-	-		2.0 [1]	18,600	18,600
Zone 3	Mountain Top pressure plane	1,500	720	843	1.2	2.0 [1]	2,403	1,560
Zone 4	FM 1113 to Mountain Top pressure plane	600	-	-		3.5 [2]	2,100	2,100
Zone 5	Rattlesnake pressure plane south to FM 116 and east to City Limit	1,600	-	-		2.0 [1]	3,200	3,200
Zone 6	South to FM 3046	2,200	335	500	1.5	2.0 [1]	4,230	3,730
	Total =	19,500		1,343			39,133	37,790

(1) Development density based on density developed in Copperas Cove 1995 Comprehensive Plan for Single Family Residential (Rural)
(2) Development density based on density developed in Copperas Cove 1995 Comprehensive Plan for Single Family Residential (Urban)

The Mountain Top Pressure Plane is identified as Zone 3. Zone 3 contains 1,500 acres; 720 of which are developed. This results in an existing development density of 1.2 connections per acre based on 843 existing connections. Future development in this area is expected to be a combination of urban and rural type subdivisions with an average density of 2.0 connections per acre resulting in a fully developed number of connections of 2,403 connections. Therefore, an additional 1,560 connections are possible in the Mountain Top Pressure Plane.

Zone 4 is identified as the area west of Copperas Cove, south of FM 1113, and north and east of the Mountain Top Pressure Plane. Development in Zone 4 is expected to be primarily urban type subdivisions. Assuming a future development density of 3.5 connections per acre results in a fully developed number of connections of 2,100 connections for this area.

Zone 5 is identified as an area to the south of Copperas Cove bounded by the Fort Hood Military Reservation to the east and FM 116 to the south and west. Zone 5 contains undeveloped portions of the Rattlesnake Mountain Pressure Plane. Development in this area is expected to be similar to that of Zones 2 and 3. A total of 3,200 connections are expected in Zone 5 at fully developed conditions.

Zone 6 is an arbitrarily defined area to the southwest of Copperas Cove encompassing 2,200 acres. Approximately 335 acres of Zone 6 are developed containing 500 connections. This results in an existing development density of 1.5 connections per acre. Future development in this area is assumed to be rural type subdivisions with a density of 2.0 connections per acre resulting in a total of 4,230 connections at fully developed conditions.

6.1.1 Future Growth Allocation

It is difficult to predict the type of future growth as well as where and when this growth will occur. For the purpose of this study, six general areas where expected growth is most likely to occur have been identified. Future connections were allocated equally to each of the six areas. An evaluation of these areas indicates that the amount of additional connections possible in each area varies from 1,560 to 18,600 connections. The purpose of this evaluation was to ensure that future demands were not over-allocated to any one particular area, that is, to make sure that there is adequate land available to support the number of connections forecasted.

The aggressive growth rate of 5.0 percent was used for this study, resulting in 20,361 connections for the year 2021. This is an additional 7,861 connections. The additional connections were allocated equally to the six zones, as summarized in Table 6.7.

Table 6.7 – Allocation of Future Demands

Zone	Node	Connections	Total Connections
Zone 1	J-233	436	1310
	J-231	436	
	J-204	438	
Zone 2	J-691	262	1310
	J-690	262	
	J-680	262	
	J-674	262	
	J-728	262	
Zone 3	J-726	328	1310
	J-677	327	
	J-734	327	
	J-735	328	
Zone 4	J-731	655	1310
	J-694	118	
	J-168	537	
Zone 5	J-737	437	1310
	J-736	436	
	J-450	437	
Zone 6	J-453	437	1310
	J-411	873	

6.2 Future Water System Review

The water system storage and pumping requirements, using the recommended Design Criteria developed in Section 3.0, were calculated for the future conditions with a total of 20,360 connections in the system (assumed growth rate of 5%). The evaluation assumes that all recommended Phase I improvements are complete, and is summarized in Table 6.8. A number of storage and pumping facilities would need to be expanded to meet the projected future demands. If system growth continues at the lower 2% these same improvements would be necessary, but at a later point in time. This information, along with the results of the Future Conditions Water Model, is used to identify needed improvements to the system. The proposed improvements were sized with ultimate build-out of the system in mind, in an effort to avoid installing improvements such as transmission mains and storage tanks that would be undersized when the system does fully develop.

Table 6.8 – System Analysis Using Recommended Design Requirements with Phase I Improvements Completed and with Projected Future Growth

	Total Storage Capacity	Elevated Storage Capacity	Service Pump Capacity		
Recommended Design Criteria	400 gal/conn	200 gal/conn	2 or more pumps w/total capacity of 2.0 gpm/conn (1)	Total capacity of at least 1,000 gpm and meet Peak Hourly Demand (1) (2)	0.6 gpm/conn if > 200 gal/conn elevated storage (3)
Pressure Plane					
Central Required Available Connections: 16,147	6,458,800 gal 7,217,000 gal	3,229,400 gal 3,037,000 gal	-	12,918 gpm 11,229 gpm	-
Mountain Top Required Available Connections: 2,153	861,200 gal 968,000 gal	430,600 gal 540,000 gal	-	1,723 gpm 2,680 gpm	-
Rattlesnake Required Available Connections: 2,060	824,000 gal 670,000 gal	412,000 gal 245,000 gal	-	1,648 gpm 2,000 gpm	-
Total Required Available Connections: 20,360	8,144,000 gal 8,855,000 gal	4,072,000 gal 3,822,000 gal	-	16,289 gpm 15,909 gpm	-

(1) A service pump capacity is required that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service, whichever is less. Section 290.45(b)(2)(F)

(2) Peak Hourly Demand estimated at 0.8 gpm per connection based on City of Copperas Cove historical usage.

(3) For systems that provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm/connection are required at each pump station or pressure plane. Section 290.45(b)(2)(F)

6.3 Future Conditions Water Model Development

The future conditions water model was developed by applying future demands developed in Section 6.1 to the existing conditions water model, which was updated to include Phase I recommended improvements. The system was evaluated using the design criteria established in Section 3 using a total of 20,360 connections (assumed growth rate of 5%) allocated to the system. A list of recommended improvements was developed to satisfy the design requirements presented in Table 6.8. Average day, maximum day, and peak hour water model simulations were then used to identify any additional deficiencies in the water distribution system under future demand conditions. The recommended improvements developed from the future conditions analysis are referred to as Phase II Improvements and are described in Section 6.5.

6.4 Future Conditions Water Model Simulations

The future conditions water model was used to develop and evaluate improvements needed to satisfy future system requirements. Results from the future conditions water model are presented in Exhibit F. Extended period simulations for the average day and maximum day demands were used to evaluate service pump and tank performance. The results for the Average Day and Maximum Day Simulations are presented as Exhibit F-1 and Exhibit F-2, respectively. A steady-state simulation was performed to evaluate system performance during peak hour demand. The results for the Peak Hour Simulation are presented as Exhibit F-3. A Fire Flow Simulation was also performed for the future conditions, and is discussed below. The water model results for the average day, maximum day, and peak hour simulations demonstrate that the addition of Phase I and Phase II Improvements will allow the Copperas Cove water system to provide an adequate level of service for up to ten years of system wide growth at 5%.

6.4.1 Fire Flow Simulation

A fire flow simulation was performed for the future conditions model, similar to the one performed for the existing conditions. This simulation included the future conditions growth demands and all of the Phase I and II Improvements. Again, a minimum required fire flow of 1,000 gpm was specified in the water model for each node at a residual pressure of 20 psi. Results for the existing conditions fire flow analysis are presented in Exhibit F-4.

The fire flow analysis shows that although a significant amount of future growth was added to the existing system that the amount of the system not meeting the minimum required fire flow of 1,000 gpm decreased, due to the recommended Phase I and II Improvements. The amount of the water system not meeting the minimum fire flow requirements decreased from approximately 5 percent of the nodes included in the water model for the Existing Conditions model to approximately 3 percent of the nodes in the Future Conditions model. Table 6.9, below, shows a summary of these areas. All of the areas shown in Table 6.9 were also indicated in the Existing Conditions analysis. The Liberty Street, Brown Drive, and the East Robertson and Laura areas that were indicated in the Existing Conditions analysis were improved by the Phase I and II proposed improvements to provide the minimum fire flow requirements. These are areas where fire flow is limited by the small distribution lines serving the area, and the only realistic way to remedy these areas is to install larger distribution lines.

Table 6.9 – Areas Without Minimum 1,000 gpm Fire Flow

Area	Node	Minimum Fire Flow Available (gpm)
Sherry Ln. / Bluff Dr. / High Chapparal Area	J-351, J-354, J-394, J-705, J-725	580
Yucca Dr. / Cedar Dr. Area	J-650, J-652, J-653, J-654	762
Winchester Lane Area	J-669, J-673	935
End of Oakhill Drive	J-692, J-693, J-694, J-696	559
Victoria Circle	J-374	748
Leif Circle	J-375	767
Ogletree Pass	J-395	730
Pecan Cove Drive	J-402	899
Lampassas County Line	J-412	928
Big Valley Road	J-446	824
Hillside Street	J-703	606

6.5 Recommended Improvements – Phases II & III

As discussed in Section 5.3, Phase I improvements were developed to address immediate concerns and deficiencies in the system. Phase II improvements were developed based on the assumption that Phase I improvements have been completed and to address a 5% growth rate in the system over the next ten years and beyond. As mentioned in Section 6.2, Phase II improvements were sized with ultimate build-out of the system in mind, with sequential phasing within the Pressure Planes where possible. If the actual growth rate is different than 5% the scheduling of the proposed improvements should be altered to match. The actual areas of growth should also be monitored and the priorities of the proposed improvements altered to meet growth. Phase II improvements include additional elevated storage for the Central and Rattlesnake Mountain Pressure Planes, additional ground storage for the Mountain Top Pressure Plane, additional service pump capacity, and several larger water mains to facilitate the transmission of water from the Turkey Run pump station to the western portions of the Copperas Cove water distribution system.

Phase II Improvements were developed employing the same concepts used in developing Phase I Improvements. The underlying goal was to identify improvements that would utilize existing infrastructure while still promoting simple and efficient operation of the system. The general concept of the Phase II Improvements was to build on the ideal of creating a unified Central Pressure Plane that would serve the City of Copperas Cove as well as areas to the west of the city where development is expected to occur.

The criteria used to establish priorities, and the anticipated construction schedule, for each of the projects was based on system growth and maintenance of existing improvements. Several projects include relocating or upgrading existing facilities to improve functionality and/or to replace older infrastructure. These projects were

prioritized based on City staff identification of need. The remaining projects were prioritized to meet storage, pumping, and transmission demands as growth occurs, and capacity is diminished. The estimated construction schedule, shown in section 7, is based on starting construction when the associated capacity reaches 80%, and include approximate triggers based on the number of connections so that plans can be altered depending on the actual growth rate.

The Turkey Run Pump Station is the primary pump station that distributes water received from the Killeen pump stations. The East Pump Station operates in parallel with the Turkey Run Pump Station, providing service to southeast portion of the city. The Turkey Run Pump Station would supply water to the Hogg Mountain GSTs, Taylor Mountain GSTs, Mickan EST, and the Seven-Mile GST as well as two proposed storage tanks that would also float on the Central Pressure Plane.

Larger transmission lines are recommended in order to facilitate the movement of water from the Turkey Run Pump Station to the western portions of the City. Larger transmission lines are needed to reduce friction head losses associated with pumping over long distances. An alternative to installing larger transmission lines would be to install intermediate pump stations that would essentially boost water to the western portions of the water distribution system. This ideal was initially considered but not explored since adding booster pump stations would result in the creation of additional pressure planes and an increase in operating and maintenance costs of the system.

Phase III Improvements consist of a number of projects identified by City staff to address operational issues and to replace aging infrastructure. It is recommended that an annual budget be established to complete these projects over time.

Phase II and III Improvements are more particularly described as follows, with cost estimates shown in Table 6.11

6.5.1 Phase II Improvements

Mountain Top Ground Storage Tank Improvements (Project II-A)

This project consists of constructing a 1,200,000 gallon ground storage tank at the Mountain Top North Storage Tank and Pump Station site. This project is anticipated to be a future phase of the Mountain Top Pump Station and Storage Tank Improvements Project (Project I-A), and this proposed ground storage tank was planned and accounted for in its design. This tank would float with the Central Pressure Plane and provide an additional 1,200,000 gallons of elevated storage to the Central Plane. The estimated project cost of the Mountain Top Ground Storage Tank Improvements is $2,000,000.

Valley of Great Hills / Hwy 190 South Storage Tank (Project II-B)

The proposed 1,200,000 gallon Valley of Great Hills / Highway 190 South GST would provide elevated storage for the Central Pressure Plane. The proposed location of this ground storage tank is south of the Mountain Top Pressure Plane, just north of the intersection of Highway 190 and FM 2657. It could also be located along the ridge that runs approximately parallel to Hwy 190. This location would allow the ground storage

tank to provide elevated storage and service to areas south and west of the city where future growth is expected to occur. Also included with this project is a 24-inch water line from the ground storage tank to Hwy 190. It is estimated that a 160' x 160' tank site (0.6-ac) and a 20-foot wide permanent waterline easement (.92ac) will be needed. The estimated project cost of the Valley of Great Hills / Hwy 190 South Storage Tank project is $2,560,000.

Taylor Mountain Tank Rehabilitation / Replacement (Project II-C)

The two (2) Taylor Mountain steel storage tanks are in need of repair due to their age. These tanks could be either rehabilitated or could be replaced. It is proposed to replace both of these tanks with prestressed concrete tanks, which will give a much longer life than steel storage tanks. The proposed project includes replacing the tanks with the same size tank, but it is recommended that at the time of design replacing them with larger tanks be investigated to maximize the site. The estimated project cost for the Taylor Mountain Tank Rehabilitation/Replacement project is $1,630,000.

Rattlesnake Pressure Plane Elevated Storage Tank (Project II-D)

Future growth in the Rattlesnake Mountain area would trigger the need for additional elevated storage in the Rattlesnake Mountain Pressure Plane. It is estimated that 412,000 gallons of elevated storage would be required by the year 2021, and is estimated that up to 800,000 gallons of elevated storage would be required to serve the area at full build out.

The amount of elevated storage provided by the existing Rattlesnake Mountain Standpipe is 245,000 gallons. Therefore, the amount of additional elevated storage needed to serve the anticipated demands in 2021 is 167,000 gallons and the amount needed to serve the area at full build-out is anticipated to be 555,000 gallons. A 600,000 gallon elevated storage tank is proposed with this project, to allow for service at full build-out conditions. It is anticipated that this storage tank would be located southeast of the existing standpipe in an area of future development opportunity and expected growth. It is estimated that a minimum 100' x 125' site would be required (0.3-ac). The estimated project cost for the Rattlesnake Pressure Plane Elevated Storage Tank is $1,530,000.

Killeen / Cove 20-Inch Transmission Line Relocation (Project II-E)

This project consists of relocating the existing 20-inch transmission line. The existing 20-inch concrete cylinder pipe waterline was constructed in the mid 1970's. It currently is located through Fort Hood property and accessibility for maintenance or repair is difficult. It also has an inadequate number of isolation valves. The need for replacing and relocating this line is to install it in a location and in a manner which allows for its maintenance and repair. This project would involve installing approximately 29,500 linear feet of 20-inch water line in a location that is accessible to the City. It is anticipated that 5-feet of additional easement, parallel to the existing 30-inch waterline easement, will be required (3.39-ac). The estimated project cost is $6,660,000.

Central Transmission Line (Project II-F)

To facilitate the transmission of water from the Turkey Run pump station to southwest portions of the city and the Taylor Mountain tanks, it is recommended that a central transmission main be installed. This line would include a section of 18-inch water line, Water Line "A", that would loop portions of the existing 18-inch internal water lines. The result would form a section of parallel 18-inch water lines, tying the proposed 30-inch transmission line on Golf Course Road to a proposed section of 24-inch water line, Project II-I. The 24-inch water line would eventually continue southerly along Highway 190 to the proposed Valley of Great Hills / Hwy 190 South Storage Tank (Project II-B). The final section of the central transmission line would be a section of 16-inch water line, Water Line "C". This line would continue westerly along Avenue E and southwesterly along South 25th Street to the Taylor Mountain tank site. It is anticipated that the lines will be constructed within existing right or way. Any easements needed would potentially increase the project cost. The estimated project cost of the Central Transmission Line project is $2,360,000.

Oakhill Drive Water Improvement Project (Project II-G)

This project would consist of converting a portion of the existing development along Oakhill Drive from the Central Pressure Plane to the Mountain Top Pressure Plane, in order to ensure that adequate water pressure is supplied. It is proposed to install an 8-inch water line from Skyline Drive to Oak Hill Drive. It is anticipated that the line will be constructed within existing easements. Any additional easements will potentially increase the project cost. The estimated project cost for the Oakhill Drive Water Improvement Project is $130,000.

24-Inch North Loop Water Line (Project II-H)

A 24-inch North Water Line Loop is recommended to improve transmission of water from the Turkey Run Pump Station to the western portions of the city. The North Water Line Loop would tie into the 30-inch water line on Golf Course Road and generally run north along the west margin of the golf course and west along the south margin of the Fort Hood Military Reservation to FM 116. The North Water Line Loop would then continue along Courtney Lane and west along the north margin of the Copperas Cove City Park, tying into the existing 16-inch water line parallel to and south of FM 1113. It is anticipated that the only easement needed will be a 20-foot wide permanent easement from FM 116 to Courtney Lane (0.90-ac). The estimated project cost of the North Loop Water Line is $4,630,000.

Hwy 190 South Transmission Line (Project II-I)

The Highway 190 South Transmission Line would facilitate the transmission of water to the southwest portions of Copperas Cove and the proposed Valley of Great Hills / Hwy 190 South Storage Tank (Project II-B).

The Highway 190 South Transmission Line would tie into the 24-inch Water Line "B" proposed with the Central Transmission Line (Project II-F). It would then continue south along South Main to Highway 190 and south along Highway 190 to the proposed Valley of Great Hills / Hwy 190 South Storage Tank. It is anticipated that the line will be

constructed within existing right of way. Any easements needed would potentially increase the project cost. The project cost of the Highway 190 South Transmission Line project is estimated to be $3,500,000.

Turkey Run Pump Station Expansion (Project II-J)

The Turkey Run Pump Station serves as a central pumping station that distributes water supplied by the Killeen pump stations. Since the Turkey Run Pump Station supplies the Central Pressure Plane, which in turn supplies the Mountain Top and Rattlesnake Mountain Pressure Planes, service pump capacity should be based on the total number of connections served by the system (20,360 connections for future conditions). This results in a required service pump capacity of 16,300 gpm. The East Pump Station contributes 3,000 gpm of service pump capacity. The Turkey Run Pump Station would therefore need to be expanded to provide a total service pump capacity of 13,300 gpm. We anticipate that this would require installing two (2) additional 250 HP, 3,000 gpm pumps, and replacing one of the 200 HP, 2,118 gpm pumps, with a 250 HP, 3,000 gpm pump. To meet full build-out conditions it is anticipated that the remaining 200 HP pump would also need to be replaced with a 250 HP pump. These pump improvements could be phased to meet growth. The estimated project cost for the Turkey Run Pump Station Expansion is $380,000.

16-Inch Water Line from Taylor Mountain to Hogg Mountain (Project II-K)

This proposed 16-inch water line would improve system performance by adding a more direct link between the Taylor Mountain tanks and the Hogg Mountain tanks and would also add redundancy to the system. The water line would run from Taylor Mountain north to FM 1113. It is anticipated that a 20-foot wide permanent waterline easement will be needed (2.30-ac). The estimated project cost for the 16-Inch Water Line from Taylor Mountain to Hogg Mountain is $930,000.

12-Inch Water Line Along Skyline Drive (Project II-L)

This project consists of installing a 12-inch water line from the proposed Mountain Top Pump Station and Storage Tank site (Projects I-A and II-A) and connecting to the end of the existing 8-inch water line on Skyline Drive to connect the proposed Mountain Top Elevated Storage Tank to the distribution system. It is anticipated that the City's share of this project would include funding the cost to oversize the line from an 8-inch line, funded by the developer, to a 12-inch line. The estimated project cost is $260,000.

12-Inch Water Line Along Skyline Drive (Project II-M)

This portion of the 12-inch Water Line Along Skyline Drive project involves replacing the existing 8-inch water line along Skyline Drive with a 12-inch water line to provide adequate transmission capabilities and fire flow. The estimated project cost is $910,000.

Killeen 20-Inch Pump Station Improvements (Project II-N)

The firm pumping capacity of the Killeen 20-in Pump Station should be increased by adding a backup pump at this location. Existing combined firm pumping capacity of the Killeen / Cove Joint (30-in) Pump Station and the Killeen 20-in Pump Station is 11,236 gpm. This firm pumping capacity is based on two of the three Killeen / Cove pumps in

service as well as both of the Killeen 20-in pumps in service. A projected future growth of 20,360 connections would require a supply pump capacity of 11,700 gpm based on a supply capacity of 0.57 gpm per connection. The backup pump should be sized so that it is equivalent in capacity to the Killeen / Cove Joint Pump Station pumps. We anticipate that this would involve installing a 300 HP, 3,500-gpm pump. This would increase the firm pumping capacity of the Killeen pump stations to 14,736 gpm. The estimated project cost for the Killeen 20-inch Pump Station Improvements is $150,000.

6.5.2 Phase III Improvements

Allen Street Water Line Upgrade
The Allen Street Water Line Upgrade project consists of replacing existing 2-inch water lines. It is currently in the City's 2011 Capital Improvements Plan.

Downtown Water Line Replacement
This project would consist of replacing 50 to 60 year old water lines. These lines were constructed of cast iron and are now deteriorating.

Highway 190 Water Line Replacement
This project consists of replacing older 8-inch and 12-inch cast iron water lines along Highway 190, from just east of the Eastside Facility to Elm Street.

Old Kempner / Copperas Cove Tie-In Improvement
It is proposed to replace the existing 6-inch interconnect between the two systems with a larger 12-inch line to enable higher flows to be transferred.

South Meadows Water Improvement Project
This project would consist of installing a new water line to loop the distribution system in the South Meadows and South Wastewater Treatment Plant area.

Seven Mile Pumps VFD Upgrades
It is proposed to replace the existing electrical panels at this pump station and install new Variable Frequency Drives (VFDs) to operate the pumps. This would allow the pumps to alter their flow rate dependant on the level of the Rattlesnake Mountain tank, better matching the demand in the system. This would potentially decrease electrical costs and would reduce line surges.

16" Inserta Valves
This project consists of installing two (2) 16" Inserta Valves on the 16-inch transmission main between the Mickan Mountain and Taylor Mountain sites to allow for better isolation of the line during maintenance and repairs.

SCADA Upgrades
It is proposed to install upgrades at each of the Seven Mile, Taylor Mountain, Mickan Mountain, and Long Mountain sites to provide the capability to monitor line pressures.

Mickan Mountain Pump & Electrical Upgrade

In the event that the Mickan Mountain Elevated Storage Tank Improvements (Project I-C) is not constructed in the near future, it is necessary to replace the existing electrical system and to rehabilitate and/or replace the four pumps feeding the Taylor Mountain site.

6.6 Summary of Phase II & III Improvements

Phase II Improvements are improvements required to satisfy system requirements for the next 10 years based on a projected growth rate of 5%. If actual growth rates differ the same improvements are recommended, but the construction schedule should be altered to meet actual growth patterns. Phase III Improvements are several improvement projects identified by City staff needed to improve operations and replace aging infrastructure. These improvements address future elevated storage capacity requirements, service pump capacity requirements, transmission line improvements, and operational improvements. A summary of water system requirements based on ten years of projected growth at a rate of 5% and available system storage and pumping capacities with the addition of Phase I and Phase II Improvements is given in Table 6.10.

Construction of Phase II Improvements should begin upon completion of Phase I Improvements to meet growth. The growth rate of the system, as well as the areas of growth, should be monitored and the construction schedule and priorities revised to match.

The total project cost of all Phase II Improvements is estimated to be $27,600,000. This includes the sum of all Phase II estimated construction costs plus an additional 25 percent added to the total construction cost to allow for contingency, engineering, surveying, and permitting. It also includes an estimated cost of $8,000 per acre for permanent waterline easements, and $90,000 per acre for permanent sites. A summary of the costs associated with Phase II Improvements is presented in Table 6.11.

It is recommended that the construction of the Phase III Improvements be accomplished through an on-going annual improvement program. It is anticipated that an annual budget would be established and a portion of these improvements be accomplished each year.

Table 6.10 – System Analysis Using Recommended Design Requirements with Phase I & II Improvements Completed and with Projected Future Growth

	Total Storage Capacity	Elevated Storage Capacity	Service Pump Capacity		
Recommended Design Criteria	400 gal/conn	200 gal/conn	2 or more pumps w/total capacity of 2.0 gpm/conn (1)	Total capacity of at least 1,000 gpm and meet Peak Hourly Demand (1) (2)	0.6 gpm/conn if > 200 gal/conn elevated storage (3)
Pressure Plane					
Central Required Available Connections: 16,147	6,458,800 gal 9,617,000 gal	3,229,400 gal 5,437,000 gal	-	12,918 gpm 16,475 gpm	-
Mountain Top Required Available Connections: 2,153	861,200 gal 968,000 gal	430,600 gal 540,000 gal	-	1,723 gpm 2,680 gpm	-
Rattlesnake Required Available Connections: 2,060	824,000 gal 1,270,000 gal	412,000 gal 845,000 gal	-	1,648 gpm 2,000 gpm	-
Total Required Available Connections: 20,360	8,144,000 gal 11,855,000 gal	4,072,000 gal 7,072,000 gal	-	16,289 gpm 21,155 gpm	-

(1) A service pump capacity is required that provides each pump station or pressure plane with two or more pumps that have a total capacity of 2.0 gpm per connection or that have a total capacity of at least 1,000 gpm and the ability to meet peak hourly demand with the largest pump out of service, whichever is less. Section 290.45(b)(2)(F)

(2) Peak Hourly Demand estimated at 0.8 gpm per connection based on City of Copperas Cove historical usage.

(3) For systems that provide an elevated storage capacity of 200 gallons per connection, two service pumps with a minimum combined capacity of 0.6 gpm/connection are required at each pump station or pressure plane. Section 290.45(b)(2)(F)

Table 6.11
Recommended Improvements - Phase II
Cost Estimate

Project II-A - Mountain Top Ground Storage Tank Improvements					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	1,200,000 gal Ground Storage Tank	1	LS	$ 1,600,000.00	$ 1,600,000.00
Total Estimated Construction Cost					$ 1,600,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 400,000.00
Total Project 'II-A'					**$ 2,000,000.00**

Project II-B - Valley of Great Hills / Hwy 190 South Storage Tanl					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	1,200,000 gal Storage Tank	1	LF	$ 1,600,000.00	$ 1,600,000.00
2	24" Water Line from Hwy 190 to Storage Tank	2,000	LF	$ 200.00	$ 400,000.00
Total Estimated Construction Cost					$ 2,000,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 500,000.00
Tank Site		0.60	Ac	$ 90,000.00	$ 54,000.00
Water Line Easement		0.92	Ac	$ 8,000.00	$ 7,360.00
Total Project 'II-B'					**$ 2,560,000.00**

Project II-C Taylor Mountain Tank Rehab/Replacement					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	1,000,000 gal Storage Tank Rehab/Replacement	1	LS	$ 900,000.00	$ 900,000.00
2	250,000 gal Storage Tank Rehab/Replacement	1	LS	$ 400,000.00	$ 400,000.00
Total Estimated Construction Cost Project					$ 1,300,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 325,000.00
Total Project 'II-C'					**$ 1,630,000.00**

Project II-D Rattlesnake Pressure Plane Elevated Storage Tanl					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	600,000 gal Elevated Storage Tank	1	LS	$ 1,200,000.00	$ 1,200,000.00
Total Estimated Construction Cost Project					$ 1,200,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 300,000.00
Tank Site		0.30	Ac	$ 90,000.00	$ 27,000.00
Total Project 'II-D'					**$ 1,530,000.00**

Project II-E Killeen/Cove 20" Transmission Line Relocatior					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	20" Water Line	29,500	LF	$ 180.00	$ 5,310,000.00
Total Estimated Construction Cost Project					$ 5,310,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 1,327,500.00
Water Line Easement		3.39	Ac	$ 8,000.00	$ 27,120.00
Total Project 'II-E'					**$ 6,660,000.00**

Project II-F Central Transmission Line					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	18" Water Line "A"	3,600	LF	$ 160.00	$ 576,000.00
2	24" Water Line "B"	1,500	LF	$ 200.00	$ 300,000.00
3	16" Water Line "C"	7,000	LF	$ 145.00	$ 1,015,000.00
Total Estimated Construction Cost Project					$ 1,890,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 472,500.00
Total Project 'II-F'					**$ 2,360,000.00**

Table 6.11
Recommended Improvements - Phase II
Cost Estimate

Project II-G Oakhill Dr. Water Improvement Projec					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	8" Water Line from Skyline to Oak Hill Dr.	800	LF	$ 120.00	$ 96,000.00
Total Estimated Construction Cost Project					$ 100,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 25,000.00
Total Project 'II-G'					**$ 130,000.00**

Project II-H 24" North Loop Water Line					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	24" Water Line	18,500	LF	$ 200.00	$ 3,700,000.00
Total Estimated Construction Cost Project					$ 3,700,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 925,000.00
Water Line Easement		0.90	Ac	$ 8,000.00	$ 7,200.00
Total Project 'II-H'					**$ 4,630,000.00**

Project II-I Hwy 190 South Transmission Line					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	24" Water Line	14,000	LF	$ 200.00	$ 2,800,000.00
Total Estimated Construction Cost Project					$ 2,800,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 700,000.00
Total Project 'II-I'					**$ 3,500,000.00**

Project II-J Turkey Run Pump Station Expansion					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	Install 250 HP Pumps	2	EA	$ 100,000.00	$ 200,000.00
2	Replace existing pump with 250 HP Pump	1	EA	$ 100,000.00	$ 100,000.00
Total Estimated Construction Cost Project					$ 300,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 75,000.00
Total Project 'II-J'					**$ 380,000.00**

Project II-K 16" Water Line from Taylor Mountain to Hogg Mountain					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	16" Water Line	5,000	LF	$ 145.00	$ 725,000.00
Total Estimated Construction Cost Project					$ 730,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 182,500.00
Water Line Easement		2.30	Ac	$ 8,000.00	$ 18,400.00
Total Project 'II-K'					**$ 930,000.00**

Project II-L 12" Water Line Along Skyline Dr					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	Oversize 8" to 12" Water Line	5,300	LF	$ 40.00	$ 212,000.00
Total Estimated Construction Cost Project					$ 210,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 52,500.00
Total Project 'II-L'					**$ 260,000.00**

Table 6.11
Recommended Improvements - Phase II
Cost Estimate

Project II-M 12" Water Line Along Skyline Dr					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	12" Water Line to Replace Existing 8" Water Line	5,200	LF	$ 140.00	$ 728,000.00
Total Estimated Construction Cost Project					$ 730,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 182,500.00
Total Project 'II-M'					**$ 910,000.00**

Project II-N Killeen 20-in Pump Station Improvements					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM TOTAL
1	Install Additional Pump	1	EA	$ 120,000.00	$ 120,000.00
Total Estimated Construction Cost Project					$ 120,000.00
Contingency, Engineering, Surveying, Permitting (25%)					$ 30,000.00
Total Project 'II-N'					**$ 150,000.00**

Grand Total Phase 'II'	**$ 27,600,000.00**

This Construction Cost Estimate is based on River City Engineering's experience and qualifications, and represents River City Engineering's best judgement. However, since River City Engineering has no control over the cost of labor, materials, equipment or services furnished by others, River City Engineering does not guarantee that the actual construction cost will not vary from the Construction Cost Estimate.

7.0 CONCLUSION

Hydraulic modeling and evaluation of the Copperas Cove water system using design criteria developed from historical water use records shows that there are several deficiencies in the existing system. These include insufficient elevated storage in the Central Pressure Plane and insufficient water transmission in several areas of the system. Projected growth in the City is expected to increase the number of connections served by the Copperas Cove water system from 12,500 currently to between 15,500 (using a 2% growth forecast) and 21,400 (using a 5% growth forecast) connections over the next ten years. The existing system deficiencies and future growth in the system will require that extensive improvements be made to the system.

Phase I Improvements have been developed to address the immediate concerns and deficiencies in the Copperas Cove water system. These include the construction of a new elevated storage tank, small ground storage tank and pump station with the Mountain Top Pump Station and Storage Tank Improvements project; a new elevated storage tank to replace the existing ground tanks at the Mickan Mountain site; a new transmission line along Constitution Drive; and a new transmission line along FM 2657 and Hwy 190. The total estimated cost of all Phase I projects is $11.3 million. Below in Table 7.1 is a list of the Phase I improvements and the associated pressure plane. Note that improvements to the Central Pressure Plane often also improve the functionality of the Mountain Top and/or Rattlesnake Pressure Planes as all water moves through the Central Pressure Plane.

Table 7.1 – Phase I Improvements

Project	Type	Pressure Plane
Project 1-A Mountain Top Pump Station & Storage Tank Improvements	Storage & Pumping	Mountain Top
Project 1-B Eastside Water Transmission Line – Constitution Drive Water Line	Transmission	Central
Project 1-C Mickan Mountain Elevated Storage Tank Imporovements	Storage	Central
Project 1-D FM 2657 & Highway 190 Water Line	Transmission	Central

Projected growth in the south and west portions of the city indicates that additional pumping and storage capacity must be provided in order for the water system to provide an adequate level of service. Phase II Improvements were developed using the future conditions water model, which considers ten years of projected growth at 5%. If the growth rate is less than 5% the timing of these improvements could potentially be postponed, but the areas of growth should be monitored and the project priorities revised to meet demands.

Scheduling is based on initiating construction when existing capacity reaches 80%. Phase II Improvements address future elevated storage capacity requirements, service pump capacity requirements, and transmission line improvements and include the following:

Table 7.2 – Phase II Improvements

Project	Approximate Connections to Trigger Construction	Type	Pressure Plane
Project II – A Mountain Top Ground Storage Tank Improvements	Central = 12,148	Storage	Central
Project II – B Valley of Great Hills / Hwy 190 South Storage Tank	Central = 16,948	Storage	Central
Project II – C Taylor Mountain Tank Rehabilitation / Replacement	Maintenance	Storage	Central
Project II – D Rattlesnake Pressure Plane Elevated Storage Tank	Rattlesnake = 980	Storage	Rattlesnake
Project II – E Killeen/Cove 20-Inch Transmission Line Relocation	Maintenance	Supply-Transmission	System
Project II – F Central Transmission Line	Central = 14,700 and/or System = 16,800	Transmission	Central
Project II – G Oakhill Drive Water Improvement Project	Maintenance	Pressure Improvement	Central
Project II – H 24-Inch North Loop Water Line	Central = 15,900 and/or System = 17,900	Transmission	Central
Project II – I Hwy 190 South Transmission Line	Central = 15,400 and/or System = 17,600	Transmission	Central
Project II – J Turkey Run Pump Station Expansion	Central = 11,229	Pumping	Central
Project II – K 16-Inch Water Line from Taylor Mountain to Hogg Mountain	Central = 15,900 and/or System = 17,900	Transmission	Central
Project II – L 12-Inch Water Line Along Skyline Drive	Need to Tie I-A to Mountain Top	Transmission	Mountain Top
Project II – M 12-Inch Water Line Along Skyline Drive	Fire Flow & Transmission	Transmission	Mountain Top
Project II – N Killeen 20-Inch Pump Station Improvements	System = 15,769	Supply-Pumping	System

The total estimated cost of all Phase II projects is $27.6 million. Construction of Phase II Improvements should begin upon completion of Phase I Improvements. Phase I and Phase II projects have been arranged in the general order in which they will be needed. Table 7.3 and Table 7.4 provide a summary and an estimated construction schedule for Phase I and Phase II projects, however, the order and timing of construction may vary depending on project need, future growth rates, and areas of the system that experience growth. Table 7.3 uses a growth project of 2% and Table 7.4 uses a growth projection of 5%.

A number of additional projects were identified by City staff to address aging infrastructure and operational issues, included as Phase III Improvements. It is recommended that an annual budget be established to complete these projects over time. These projects include the following:

- Allen Street Water Line Upgrade
- Downtown Water Line Replacement
- Highway 190 Water Line Replacement
- Old Kempner / Copperas Cove Tie-In Improvement
- South Meadows Water Improvement Project
- Seven Mile Pumps – VFD Upgrades
- 16-Inch Inserta Valves
- SCADA Upgrades

Table 7.3 – Project Summary & Estimated Construction Schedule @ 2% Growth

Project	Recommended Year Construction Should Begin	Estimated Project Cost (in millions)
Project I-A Mountain Top Pump Station & Storage Tank Improvements	2013	$2.74
Project I-B Eastside Water Transmission Line – Constitution Drive	2013	$2.03
Project I-C Mickan E.S.T. Improvements	2014	$3.56
Project I-D FM 2657 & Hwy 190 Water Line	2014	$2.94
Project II-G Oakhill Dr. Water Improvements	2014	$0.13
Project II-J Turkey Run Pump Station Expansion	2014	$0.25
Project II-L 12” Water Line Along Skyline Dr.	2014	$0.26
Project II-C Taylor Mountain Tank Rehab/Replacements	2015	$1.63
Project II-M 12” Water Line Along Skyline Dr.	2015	$0.91
Project II-A Mountain Top Ground Storage Tank Improvements	2016	$2.00
Project II-E Killeen/Cove 20” Transmission Line Relocation	2017	$6.66
Project II-D Rattlesnake Pressure Plane Elevated Storage Tank	2022	$1.53
Project II-B Valley of Great Hills / Hwy 190 South Storage Tank	2023+	$2.56
Project II-F Central Transmission Line	2023+	$2.36
Project II-H 24” North Loop Water Line	2023+	$4.63
Project II-I Hwy 190 South Transmission Line	2023+	$3.50
Project II-K 16” Water Line From Taylor Mountain to Hogg Mountain	2023+	$0.93
Project II-N Killeen 20” Pump Station Improvements	2023+	$0.14

Table 7.4 – Project Summary & Estimated Construction Schedule @ 5% Growth

Project	Recommended Year Construction Should Begin	Estimated Project Cost (in millions)
Project I-A Mountain Top Pump Station & Storage Tank Improvements	2013	$2.74
Project I-B Eastside Water Transmission Line – Constitution Drive	2013	$2.03
Project II-A Mountain Top Ground Storage Tank Improvements	2014	$2.00
Project I-C Mickan E.S.T. Improvements	2014	$3.56
Project I-D FM 2657 & Hwy 190 Water Line	2014	$2.94
Project II-G Oakhill Dr. Water Improvements	2014	$0.13
Project II-J Turkey Run Pump Station Expansion	2014	$0.25
Project II-L 12” Water Line Along Skyline Dr.	2014	$0.26
Project II-C Taylor Mountain Tank Rehab/Replacements	2015	$1.63
Project II-M 12” Water Line Along Skyline Dr.	2015	$0.91
Project II-D Rattlesnake Pressure Plane Elevated Storage Tank	2016	$1.53
Project II-N Killeen 20” Pump Station Improvements	2016	$0.14
Project II-E Killeen/Cove 20” Transmission Line Relocation	2017	$6.66
Project II-F Central Transmission Line	2018	$2.36
Project II-I Hwy 190 South Transmission Line	2018	$3.50
Project II-H 24” North Loop Water Line	2019	$4.63
Project II-K 16” Water Line From Taylor Mountain to Hogg Mountain	2019	$0.93
Project II-B Valley of Great Hills / Hwy 190 South Storage Tank	2020	$2.56

EXHIBIT A

EXISTING FACILITIES SUMMARY

Exhibit A
Existing Facilities Summary
City of Copperas Cove, Texas
Water System Study

CENTRAL PRESSURE PLANE

Elevated Storage

Service Area = up to 1,170' elevation
Elevated Storage = All storage above 1,250' (1,170' + 80')

Elevated Strg Starts at: 1250

Hogg Mountain:

Dia =	65.3	ft
Overflow =	1261	ft
Base =	1221	ft
Capacity =	1,000,000	Gal.
Elevated =	276,000	Gal.
Dia =	38	ft
Overflow =	1261	ft
Base =	1221	ft
Capacity =	339,000	Gal.
Elevated =	93,000	Gal.
Hogg Total Storage =	1,339,000	Gal.
Hogg Elevated Storage =	369,000	Gal.

Turkey Run:

Dia =	65.3	ft
Overflow =	1065	ft
Base =	1025	ft
Capacity =	1,000,000	Gal.
Elevated =	-	
Dia =	38.6	ft
Overflow =	1065	ft
Base =	1025	ft
Capacity =	350,000	Gal.
Elevated =	-	Gal.
Turkey Run Total Storage =	1,350,000	Gal.
Turkey Run Elevated Storage =	-	Gal.

Taylor Mountain:

Dia =	72.8	ft
Overflow =	1261	ft
Base =	1229	ft
Capacity =	1,000,000	Gal.
Elevated =	342,000	Gal.
Dia =	36.5	ft
Overflow =	1261	ft
Base =	1229	ft
Capacity =	250,000	Gal.
Elevated =	86,000	Gal.
Taylor Total Storage =	1,250,000	Gal.
Taylor Elevated Storage =	428,000	Gal.

Mickan Mountain:

Dia =	65.3	ft
Overflow =	1207	ft
Base =	1167	ft
Capacity =	1,000,000	Gal.
Elevated =	-	Gal.
Dia =	32.7	ft
Overflow =	1207	ft
Base =	1175	ft
Capacity =	200,000	Gal.
Elevated =	-	Gal.
Mickan Total Storage =	1,200,000	Gal.
MickanElevated Storage =	-	Gal.

Seven Mile:

Dia =	56	ft
Overflow =	1263	ft
Base =	1208	ft
Capacity =	1,010,000	Gal.
Elevated =	240,000	Gal.
Seven Mile Total Storage =	1,010,000	Gal.
Seven Mile Elevated Storage =	240,000	Gal.

Eastside:

Dia =	50	ft
Overflow =	1047	ft
Base =	1012	ft
Capacity =	500,000	Gal.
Elevated =	-	Gal.
Eastside Total Storage =	500,000	Gal.
Eastside Elevated Storage =	-	Gal.

Central Plane Total Storage =	6,649,000	Gal.
Central Plane Elevated Storage =	**1,037,000**	**Gal.**

Exhibit A
Existing Facilities Summary
City of Copperas Cove, Texas
Water System Study

Service Pump Capacity (Central)

Turkey Run

No.of Pumps = 4

Pumps 1 & 2 & 3

Rated Flow =	2118	* gpm
Rated Head =	200	* ft
Horsepower =	200	HP

Pump 4

Rated Flow =	3000	* gpm
Rated Head =	265	* ft
Horsepower =	250	HP

Firm Capacity = 6354 gpm

Mickan Mountain

No.of Pumps = 4

Pump 1

	575	gpm
Rated Head =	165	ft
Horsepower =	40	HP

Pump 3

Rated Flow =	1000	gpm
Rated Head =	192	ft
Horsepower =	60	HP

Pump 2

Rated Flow =	300	gpm
Rated Head =	130	ft
Horsepower =	15	HP

Pump 4

Rated Flow =	2000	gpm
Rated Head =	162	ft
Horsepower =	100	HP

Firm Capacity = 1875 gpm

Eastside

No.of Pumps =	3
Rated Flow =	1500
Rated Head =	215
Horsepower =	125

Firm Capacity = 3000

Service Pump Capacity (Firm) = 11,229 gpm

Exhibit A
Existing Facilities Summary
City of Copperas Cove, Texas
Water System Study

MOUNTAIN TOP PRESSURE PLANE

Elevated Storage

Service Area = up to 1,290' elevation
Elevated Storage = All storage above 1,370' (1,290' + 80') Elevated Strg Starts at: 1370

Hughes Mountain:

Dia =	43	ft
Overflow =	1392	ft
Low Level =	1364	ft
Ground =	1268	ft
Capacity =	300,000	Gal.
Elevated =	239,000	Gal.

Hughes Total Storage =	300,000	Gal.
HughesElevated Storage =	239,000	Gal.

Mountain Top Plane Total Storage =	300,000	Gal.
Mountain Top Elevated Storage =	**239,000**	**Gal.**

Service Pump Capacity

Taylor Mountain

No.of Pumps =	2	
Rated Flow =	1180	* gpm
Rated Head =	156	* ft
Horsepower =	100	HP
Firm Capacity =	1180	gpm
Service Pump Capacity (Firm) =	**1180**	**gpm**

Exhibit A
Existing Facilities Summary
City of Copperas Cove, Texas
Water System Study

RATTLESNAKE PRESSURE PLANE

Elevated Storage

Service Area = up to 1,220' elevation
Elevated Storage = All storage above 1,300' (1,220' + 80')

Elevated Strg Starts at: 1300

Rattlesnake Standpipe:

Dia =	30	ft
Overflow =	1346	ft
Base =	1220	ft
Capacity =	670,000	Gal.
Elevated =	243,000	Gal.

Rattlesnake Total Storage =	670,000	Gal.
Rattlesnake Elevated Storage =	243,000	Gal.

Rattlesnake Plane Total Storage =	670,000	Gal.
Rattlesnake Plane Elevated Storage =	**243,000**	**Gal.**

Service Pump Capacity

Seven Mile			**Long Mountain**		
No.of Pumps =	2		No.of Pumps =	2	
Rated Flow =	1000	gpm	Rated Flow =	1000	*gpm
Rated Head =	110	ft	Rated Head =	180	*ft
Horsepower =	40	HP	Horsepower =	75	HP
Firm Capacity =	1000	gpm	Firm Capacity =	1000	gpm

Service Pump Capacity (Firm) = 2000 gpm

Exhibit A
Existing Facilities Summary
City of Copperas Cove, Texas
Water System Study

COPPERAS COVE WATER SYSTEM

Total Storage

Hughes EST :	300,000 gal.
Taylor Mountain :	1,250,000 gal.
Hog Mountain :	1,339,000 gal.
Mickan Mountain :	1,200,000 gal.
Seven Mile :	1,010,000 gal.
Rattlesnake Mnt. :	670,000 gal.
Turkey Run :	1,350,000 gal.
Eastside :	500,000 gal.
Total Storage =	7,619,000 gal.

Supply Pump Capacity

Killeen/Cove 30-inch Pump Station

No.of Pumps =	3
Rated Flow =	3500 gpm
Rated Head =	270 ft
Horsepower =	300 HP
Firm Capacity =	*7000 gpm*

Killeen 20-inch Pump Station

No.of Pumps =	2
Rated Flow =	2118 * gpm
Rated Head =	329 * ft
Horsepower =	450 HP
Firm Capacity =	*2118 gpm*

Total Supply Pump Capacity = 9,118 gpm

EXHIBIT B

WATER USAGE HISTORICAL DATA

Exhibit B

Water Usage Historical Data
City of Copperas Cove, Texas
Water System Study

DATE	MGPD (Avg)	MGPD (Max)	MGPM	WATER CONNECTIONS	GPD/CONN. (Max Day)	GPD/CONN. (Avg. Day)
Jan-90	2.27	3.042	70.31	7,715		
Feb-90	2.22	3.134	62.14	7,608		
Mar-90	2.37	4.104	73.42	7,699		
Apr-90	2.31	3.605	69.44	7,694		
May-90	2.60	3.873	80.48	7,819		
Jun-90	3.99	5.519	119.59	7,806		
Jul-90	3.39	6.300	105.17	7,693		
Aug-90	3.20	4.603	99.21	7,689		
Sep-90	2.70	4.787	81.06	7,704		
Oct-90	2.31	4.087	71.69	7,243		
Nov-90	1.96	4.442	58.86	7,125		
Dec-90	2.00	3.310	62.00	7,066	819	345
Jan-91	1.71	2.936	53.05	6,958		
Feb-91	1.83	2.124	51.21	7,041		
Mar-91	2.10	3.253	65.23	7,102		
Apr-91	2.28	3.589	68.28	7,372		
May-91	2.34	3.288	72.68	7,695		
Jun-91	2.67	3.410	80.01	7,782		
Jul-91	3.30	5.176	102.39	7,840		
Aug-91	2.96	3.965	91.79	7,802		
Sep-91	2.01	2.578	60.26	7,809		
Oct-91	2.38	2.380	73.81	7,779		
Nov-91	2.18	3.365	65.26	7,863		
Dec-91	2.08	2.689	64.57	7,876	660	307
Jan-92	2.06	3.102	63.92	7,953		
Feb-92	2.16	3.571	60.58	7,953		
Mar-92	2.29	3.829	70.97	7,914		
Apr-92	2.43	2.982	72.90	8,060		
May-92	2.42	3.386	75.06	7,959		
Jun-92	2.97	4.198	88.98	8,090		
Jul-92	3.60	6.807	111.65	8,030		
Aug-92	4.05	5.512	125.48	8,145		
Sep-92	3.40	4.125	101.97	8,148		
Oct-92	4.53	4.362	140.42	8,159		
Nov-92	2.24	2.778	67.34	8,204		
Dec-92	2.11	2.520	65.27	8,279	848	353
Jan-93	2.04	2.630	63.28	8,291		
Feb-93	1.86	2.689	51.96	8,323		
Mar-93	1.84	2.439	57.15	8,349		
Apr-93	2.23	2.972	66.76	8,412		
May-93	2.57	3.730	79.68	8,470		
Jun-93	2.85	5.332	85.45	8,571		
Jul-93	3.63	4.196	112.63	8,514		
Aug-93	4.99	5.920	154.59	8,574		
Sep-93	3.30	5.290	99.12	8,575		
Oct-93	1.46	2.890	45.19	8,716		
Nov-93	1.21	2.720	36.36	8,720		
Dec-93	2.28	2.850	70.70	8,807	690	297

Exhibit B

Water Usage Historical Data
City of Copperas Cove, Texas
Water System Study

DATE	MGPD (Avg)	MGPD (Max)	MGPM	WATER CONNECTIONS	GPD/CONN. (Max Day)	GPD/CONN. (Avg. Day)
Jan-94	2.30	2.840	71.19	8,875		
Feb-94	2.34	2.918	65.49	8,882		
Mar-94	2.47	4.821	76.64	8,876		
Apr-94	3.13	4.185	93.92	9,008		
May-94	2.74	3.608	84.83	8,957		
Jun-94	3.49	4.579	104.83	8,894		
Jul-94	4.35	5.882	134.97	8,951		
Aug-94	3.92	5.568	121.42	8,840		
Sep-94	3.06	4.163	91.81	8,998		
Oct-94	2.88	5.563	89.42	9,017		
Nov-94	2.15	2.859	64.48	9,082		
Dec-94	2.00	2.760	61.90	9,049	657	325
Jan-95	2.28	3.418	70.74	9,102		
Feb-95	2.29	2.824	64.04	9,054		
Mar-95	2.28	2.773	70.75	9,093		
Apr-95	2.54	3.246	76.20	9,130		
May-95	3.07	4.008	95.05	9,130		
Jun-95	3.70	6.686	110.96	9,116		
Jul-95	4.58	6.635	141.89	9,128		
Aug-95	4.11	5.938	127.53	9,148		
Sep-95	3.57	5.495	107.14	9,151		
Oct-95	3.53	4.508	109.36	9,192		
Nov-95	2.92	3.578	87.63	9,203		
Dec-95	2.72	3.660	84.32	9,325	733	343
Jan-96	2.84	3.547	88.18	9,270		
Feb-96	3.38	4.629	94.50	9,307		
Mar-96	3.21	4.045	99.65	9,296		
Apr-96	3.65	5.403	109.54	9,329		
May-96	4.51	6.183	139.92	9,242		
Jun-96	4.11	5.628	123.25	9,319		
Jul-96	5.04	7.270	156.22	9,320		
Aug-96	4.13	6.117	127.94	9,390		
Sep-96	2.73	3.758	81.98	9,401		
Oct-96	2.66	3.900	82.60	9,442		
Nov-96	2.60	4.174	78.04	9,331		
Dec-96	2.55	3.064	79.04	9,355	780	370
Jan-97	2.58	3.672	79.94	9,358		
Feb-97	2.57	3.338	71.96	9,363		
Mar-97	2.49	3.243	77.11	9,456		
Apr-97	2.65	3.258	79.57	9,530		
May-97	2.97	3.794	92.19	9,559		
Jun-97	3.04	3.928	91.34	9,564		
Jul-97	4.58	6.918	141.98	9,581		
Aug-97	3.35	5.898	103.95	9,601		
Sep-97	4.14	5.746	124.34	9,553		
Oct-97	2.86	4.216	88.66	9,528		
Nov-97	2.80	3.868	83.89	9,559		
Dec-97	2.43	2.858	75.28	9,554	722	320

Exhibit B

Water Usage Historical Data
City of Copperas Cove, Texas
Water System Study

DATE	MGPD (Avg)	MGPD (Max)	MGPM	WATER CONNECTIONS	GPD/CONN. (Max Day)	GPD/CONN. (Avg. Day)
Jan-98	2.58	3.129	80.11	9,563		
Feb-98	2.38	3.256	66.67	9,601		
Mar-98	2.53	3.238	78.46	9,644		
Apr-98	3.07	3.982	92.19	9,700		
May-98	3.92	5.131	121.43	9,690		
Jun-98	5.19	6.749	155.55	9,505		
Jul-98	5.51	6.832	170.83	9,688		
Aug-98	4.23	7.111	131.19	9,683		
Sep-98	3.63	5.331	108.93	9,731		
Oct-98	2.88	3.839	89.22	9,834		
Nov-98	2.16	2.721	64.90	9,880		
Dec-98	2.17	2.447	67.26	9,999	734	346
Jan-99	2.26	2.722	69.93	9,587		
Feb-99	2.36	2.994	66.01	9,701		
Mar-99	2.24	3.051	69.34	9,789		
Apr-99	2.70	3.675	80.91	9,829		
May-99	2.62	3.544	81.22	9,855		
Jun-99	2.93	3.938	87.77	9,869		
Jul-99	3.45	4.418	107.04	9,904		
Aug-99	4.52	5.189	140.17	9,977		
Sep-99	3.97	4.474	119.05	9,769		
Oct-99	3.27	4.115	101.36	9,657		
Nov-99	2.65	3.126	79.47	9,997		
Dec-99	2.18	2.596	67.50	9,997	520	298
Jan-00	2.06	2.531	64.00	9,997		
Feb-00	2.16	2.905	60.46	10,046		
Mar-00	2.28	3.227	70.54	10,136		
Apr-00	2.53	3.312	75.86	10,144		
May-00	3.11	3.844	96.47	10,068		
Jun-00	2.66	3.546	79.88	10,124		
Jul-00	4.13	5.268	128.00	10,050		
Aug-00	4.48	5.126	139.01	10,161		
Sep-00	3.84	5.130	115.21	10,156		
Oct-00	2.61	3.558	80.91	10,253		
Nov-00	2.23	2.982	66.82	10,176		
Dec-00	2.14	3.220	66.34	10,210	524	282
Jan-01	2.10	2.693	64.99	10,281		
Feb-01	2.09	2.875	58.53	10,194		
Mar-01	1.91	2.511	59.08	10,255		
Apr-01	2.32	3.273	69.60	10,272		
May-01	2.68	3.318	82.98	10,131		
Jun-01	3.13	3.605	94.04	10,173		
Jul-01	4.19	5.631	129.87	10,241		
Aug-01	4.04	5.617	125.39	10,253		
Sep-01	2.62	3.439	78.46	10,265		
Oct-01	2.67	3.690	82.79	10,271		
Nov-01	2.08	3.175	62.50	10,232		
Dec-01	2.14	2.276	66.19	10,272	550	261

Exhibit B

Water Usage Historical Data
City of Copperas Cove, Texas
Water System Study

DATE	MGPD (Avg)	MGPD (Max)	MGPM	WATER CONNECTIONS	GPD/CONN. (Max Day)	GPD/CONN. (Avg. Day)
Jan-02	1.96	2.850	60.83	10,251		
Feb-02	1.95	3.090	54.63	10,214		
Mar-02	2.29	3.080	71.09	10,328		
Apr-02	2.67	4.760	80.22	10,362		
May-02	4.49	5.920	139.23	10,365		
Jun-02	3.38	4.060	101.50	10,399		
Jul-02	3.21	4.840	99.39	10,402		
Aug-02	5.21	6.480	161.51	10,414		
Sep-02	4.05	6.480	121.58	10,408		
Oct-02	3.11	4.600	96.51	10,356		
Nov-02	2.84	3.440	85.14	10,356		
Dec-02	2.66	3.400	82.58	10,398	623	305
Jan-03	2.69	3.430	83.27	10,382		
Feb-03	2.63	3.670	73.66	10,357		
Mar-03	2.80	4.220	86.87	10,309		
Apr-03	3.92	5.210	117.48	10,212		
May-03	4.53	5.900	140.50	10,223		
Jun-03	3.80	5.800	113.00	10,086		
Jul-03	4.50	5.600	140.00	10,191		
Aug-03	4.80	6.900	150.00	10,212		
Sep-03	3.70	4.900	111.00	10,236		
Oct-03	3.30	4.500	101.00	10,197		
Nov-03	2.80	3.600	85.00	10,210		
Dec-03	2.70	3.300	84.00	10,132	676	344
Jan-04	2.90	4.700	90.00	10,183		
Feb-04	2.74	3.200	79.48	10,217		
Mar-04	2.68	3.500	83.00	10,307		
Apr-04	2.88	3.900	86.30	10,370		
May-04	3.45	4.700	106.90	10,633		
Jun-04	3.49	6.900	104.80	10,453		
Jul-04	4.19	5.600	129.90	10,472		
Aug-04	3.96	6.500	122.80	10,385		
Sep-04	3.73	4.800	112.00	10,466		
Oct-04	2.96	3.800	91.90	10,468		
Nov-04	2.52	3.500	75.60	10,684		
Dec-04	2.67	3.900	82.90	10,453	660	306
Jan-05	2.69	4.300	83.30	10,587		
Feb-05	2.50	3.400	70.10	10,714		
Mar-05	2.99	3.800	92.60	11,203		
Apr-05	3.88	5.000	116.50	11,051		
May-05	3.86	5.500	119.60	11,202		
Jun-05	4.22	6.000	126.60	11,186		
Jul-05	4.67	6.400	144.90	11,166		
Aug-05	3.90	5.200	120.80	11,148		
Sep-05	3.95	5.200	118.50	11,345		
Oct-05	3.59	5.000	111.30	11,328		
Nov-05	3.18	4.900	95.40	11,493		
Dec-05	2.71	3.400	83.90	11,372	573	315

Exhibit B

Water Usage Historical Data
City of Copperas Cove, Texas
Water System Study

DATE	MGPD (Avg)	MGPD (Max)	MGPM	WATER CONNECTIONS	GPD/CONN. (Max Day)	GPD/CONN. (Avg. Day)
Jan-06	2.85	3.800	88.40	11,449		
Feb-06	2.79	3.600	78.10	11,461		
Mar-06	2.96	3.700	91.80	11,499		
Apr-06	3.64	5.400	109.10	11,536		
May-06	3.70	5.400	114.70	11,415		
Jun-06	4.70	6.700	141.00	11,641		
Jul-06	4.84	6.400	150.00	11,747		
Aug-06	6.00	6.800	186.00	11,951		
Sep-06	4.45	6.600	133.50	11,860		
Oct-06	3.61	5.300	112.00	11,710		
Nov-06	3.18	4.300	95.40	11,708		
Dec-06	2.70	4.100	83.70	11,769	569	326
Jan-07	2.70	3.300	83.60	12,024		
Feb-07	2.78	3.400	77.80	11,775		
Mar-07	3.04	4.300	94.30	12,076		
Apr-07	3.05	4.100	91.50	11,343		
May-07	3.06	4.500	94.80	11,493		
Jun-07	3.33	4.600	99.80	11,309		
Jul-07	3.22	4.500	99.90	11,354		
Aug-07	5.13	6.700	159.10	10,955		
Sep-07	5.16	7.000	154.70	11,675		
Oct-07	4.60	5.800	142.70	11,237		
Nov-07	3.98	5.200	119.50	11,473		
Dec-07	3.52	4.900	109.20	11,604	600	315
Jan-08	3.28	4.200	101.60	11,990		
Feb-08	3.10	4.100	90.00	11,930		
Mar-08	3.15	3.800	97.60	11,727		
Apr-08	3.44	5.100	103.30	12,183		
May-08	4.12	5.800	127.70	11,982		
Jun-08	6.16	7.900	184.70	11,773		
Jul-08	6.68	8.200	207.20	12,358		
Aug-08	6.04	8.400	187.30	12,037		
Sep-08	5.18	6.400	155.30	12,068		
Oct-08	4.37	6.200	135.60	12,098		
Nov-08	3.95	5.200	118.60	12,064		
Dec-08	3.57	4.517	110.80	11,986	698	368
Jan-09	3.02	3.900	93.60	12,008		
Feb-09	3.24	6.300	90.80	11,870		
Mar-09	3.34	4.200	103.43	11,915		
Apr-09	3.54	4.199	106.27	11,998		
May-09	3.78	5.197	117.10	11,901		
Jun-09	5.46	6.764	163.94	11,853		
Jul-09	6.17	7.974	191.28	11,811		
Aug-09	5.58	8.449	173.04	11,844		
Sep-09	4.71	6.934	141.21	11,937		
Oct-09	4.44	6.168	137.58	11,938		
Nov-09	3.83	5.645	114.77	11,972		
Dec-09	3.17	5.254	98.24	12,017	713	352

Exhibit B

Water Usage Historical Data
City of Copperas Cove, Texas
Water System Study

DATE	MGPD (Avg)	MGPD (Max)	MGPM	WATER CONNECTIONS	GPD/CONN. (Max Day)	GPD/CONN. (Avg. Day)
Jan-10	3.33	4.948	103.19	12,030		
Feb-10	3.13	4.049	87.52	11,713		
Mar-10	3.09	4.144	95.93	12,352		
Apr-10	3.62	4.858	108.72	12,136		
May-10	4.43	5.949	137.22	12,158		
Jun-10	4.83	6.737	145.05	12,127		
Jul-10	4.35	6.128	134.76	12,125		
Aug-10	5.36	7.534	166.01	12,125		
Sep-10	3.89	*11.278*	116.68	12,145		
Oct-10	3.72	5.151	115.19	12,126		
Nov-10	2.68	4.602	80.49	12,180		
Dec-10	2.70	3.166	83.79	12,219	929	311
Jan-11	2.57	3.686	79.73	12,240		
Feb-11	2.96	8.384	82.93	12,217		
Mar-11	3.07	4.373	95.18	12,306		
Apr-11	3.89	5.172	116.63	12,328		
May-11	3.68	5.948	114.19	12,003		
Jun-11	5.09	6.603	152.62	12,049		
Jul-11	5.82	7.688	180.49	12,005		
Aug-11	5.58	6.798	172.90	12,042		
Sep-11	5.09	6.425	152.65	12,185		
Oct-11	3.65	4.683	113.29	12,185		
Nov-11						
Dec-11					686	341

FILE: P:\Projects\5019 (Copperas Cove)\93 – WATER MODEL UPDATE\CAD\Exhibits\MONITORING PLAN SAMPLING LOCATIONS – Copy.dwg TAB: 22X34 EXHIBIT PLOTTED: 2/7/2013 4:59 PM BY: GLENN POPE

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CITY OF COPPERAS COVE, TEXAS
WATER SYSTEM STUDY

EXHIBIT 'C'
EXISTING WATER SYSTEM

FILE: P:\Projects\5019 (Copperas Cove)\93 – WATER MODEL UPDATE\CAD\Exhibits\RECOMMENDED IMPROVEMENTS MAP.dwg TAB: 22X34 EXHIBIT PLOTTED: 2/7/2013 5:04 PM BY: GLENN POPE

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CITY OF COPPERAS COVE, TEXAS
WATER SYSTEM STUDY

EXHIBIT 'D'
RECOMMENDED WATER SYSTEM IMPROVEMENTS

EXHIBIT E-1

EXISTING CONDITIONS WATER MODEL
AVERAGE DAY

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
124	J-1	1,030.0	121: Zone - PS	0.00	1,245.3	93.1
125	J-2	1,020.0	117: Zone - Central	0.00	1,245.3	97.5
126	J-3	1,040.0	117: Zone - Central	0.00	1,245.3	88.8
127	J-4	1,076.0	117: Zone - Central	0.00	1,251.5	75.9
128	J-5	1,075.0	117: Zone - Central	2.40	1,252.1	76.6
129	J-6	1,056.0	117: Zone - Central	4.50	1,252.1	84.8
130	J-7	1,050.0	117: Zone - Central	0.00	1,253.7	88.1
131	J-8	1,042.0	117: Zone - Central	2.70	1,255.1	92.2
132	J-9	1,120.0	117: Zone - Central	0.00	1,257.0	59.3
133	J-10	1,220.0	121: Zone - PS	0.00	1,259.1	16.9
134	J-11	1,072.0	117: Zone - Central	3.60	1,245.1	74.9
135	J-12	1,078.0	117: Zone - Central	0.00	1,241.2	70.6
136	J-13	1,070.0	117: Zone - Central	0.00	1,240.7	73.8
137	J-14	1,076.0	117: Zone - Central	0.00	1,238.3	70.2
138	J-15	1,108.0	117: Zone - Central	0.00	1,225.4	50.8
596	J-16	1,111.0	117: Zone - Central	0.00	1,222.6	48.3
139	J-17	1,069.0	117: Zone - Central	1.50	1,241.3	74.5
140	J-18	1,058.0	117: Zone - Central	0.00	1,244.5	80.7
141	J-19	1,058.0	117: Zone - Central	3.00	1,244.1	80.5
142	J-20	1,078.0	117: Zone - Central	6.00	1,242.7	71.3
143	J-21	1,070.0	117: Zone - Central	3.90	1,243.1	74.9
144	J-22	1,036.0	117: Zone - Central	3.60	1,243.3	89.7
145	J-23	1,036.0	117: Zone - Central	4.20	1,243.4	89.7
146	J-24	1,036.0	117: Zone - Central	2.70	1,243.6	89.8
147	J-25	1,032.0	117: Zone - Central	0.60	1,243.6	91.6
148	J-26	1,068.0	117: Zone - Central	3.00	1,243.3	75.8
149	J-27	1,072.0	117: Zone - Central	3.00	1,243.4	74.2
150	J-28	1,074.0	117: Zone - Central	2.70	1,243.6	73.4
151	J-29	1,054.0	117: Zone - Central	1.20	1,243.7	82.1
152	J-30	1,041.0	117: Zone - Central	3.30	1,243.8	87.7
153	J-31	1,031.0	117: Zone - Central	2.70	1,243.8	92.1
154	J-32	1,042.0	117: Zone - Central	2.40	1,243.8	87.3
155	J-33	1,048.0	117: Zone - Central	2.40	1,243.7	84.7
156	J-34	1,034.0	117: Zone - Central	1.80	1,243.7	90.7
157	J-35	1,038.0	117: Zone - Central	3.00	1,243.6	89.0
158	J-36	1,030.0	117: Zone - Central	0.00	1,244.9	93.0
159	J-37	1,042.0	117: Zone - Central	0.00	1,243.9	87.4
160	J-38	1,050.0	117: Zone - Central	0.00	1,243.9	83.9
161	J-39	1,027.0	117: Zone - Central	5.10	1,248.6	95.9
162	J-40	1,078.0	117: Zone - Central	3.90	1,247.3	73.2
163	J-41	1,076.0	117: Zone - Central	0.00	1,241.2	71.5
164	J-42	1,050.0	117: Zone - Central	4.50	1,247.3	85.3
165	J-43	1,055.0	117: Zone - Central	7.20	1,249.0	83.9
166	J-44	1,074.0	117: Zone - Central	6.00	1,249.9	76.1
167	J-45	1,070.0	117: Zone - Central	5.70	1,250.6	78.2
168	J-46	1,060.0	117: Zone - Central	3.00	1,249.9	82.2
169	J-47	1,067.0	117: Zone - Central	4.50	1,249.5	79.0

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
170	J-48	1,070.0	117: Zone - Central	7.20	1,249.7	77.7
171	J-49	1,074.0	117: Zone - Central	0.60	1,251.7	76.9
172	J-50	1,075.0	117: Zone - Central	2.40	1,251.7	76.5
173	J-51	1,073.0	117: Zone - Central	2.10	1,251.6	77.3
174	J-52	1,070.0	117: Zone - Central	3.30	1,251.5	78.5
175	J-53	1,077.0	117: Zone - Central	6.60	1,251.7	75.6
176	J-54	1,058.0	117: Zone - Central	6.60	1,250.8	83.4
177	J-55	1,054.0	117: Zone - Central	5.10	1,250.6	85.0
178	J-56	1,056.0	117: Zone - Central	0.00	1,250.4	84.1
179	J-57	1,074.0	117: Zone - Central	1.80	1,250.8	76.5
180	J-58	1,078.0	117: Zone - Central	5.10	1,250.4	74.6
181	J-59	1,081.0	117: Zone - Central	76.50	1,249.9	73.1
182	J-60	1,076.0	117: Zone - Central	3.60	1,249.7	75.2
183	J-61	1,064.0	117: Zone - Central	6.00	1,249.6	80.3
184	J-62	1,062.0	117: Zone - Central	1.20	1,249.3	81.0
185	J-63	1,062.0	117: Zone - Central	4.80	1,249.2	81.0
186	J-64	1,058.0	117: Zone - Central	8.10	1,249.2	82.7
187	J-65	1,030.0	117: Zone - Central	5.40	1,249.2	94.8
188	J-66	1,036.0	117: Zone - Central	6.00	1,249.2	92.2
189	J-67	1,048.0	117: Zone - Central	3.90	1,249.2	87.0
190	J-69	1,030.0	117: Zone - Central	8.70	1,248.8	94.7
191	J-70	1,044.0	117: Zone - Central	7.50	1,248.9	88.7
192	J-71	1,044.0	117: Zone - Central	3.90	1,249.7	89.0
193	J-72	1,063.0	117: Zone - Central	4.50	1,249.7	80.8
194	J-73	1,054.0	117: Zone - Central	5.40	1,249.7	84.7
195	J-74	1,076.0	117: Zone - Central	4.20	1,250.3	75.4
196	J-75	1,100.0	117: Zone - Central	3.60	1,250.3	65.0
197	J-76	1,066.0	117: Zone - Central	6.60	1,250.5	79.8
198	J-77	1,058.0	117: Zone - Central	4.80	1,250.9	83.4
199	J-78	1,050.0	117: Zone - Central	6.60	1,251.4	87.1
200	J-79	1,060.0	117: Zone - Central	4.80	1,251.8	83.0
201	J-80	1,064.0	117: Zone - Central	2.40	1,251.8	81.3
202	J-81	1,034.0	117: Zone - Central	6.00	1,251.8	94.2
203	J-82	1,032.0	117: Zone - Central	4.20	1,252.0	95.2
204	J-83	1,034.0	117: Zone - Central	4.80	1,252.2	94.4
205	J-84	1,023.0	117: Zone - Central	1.50	1,252.6	99.3
206	J-85	1,060.0	117: Zone - Central	3.60	1,252.1	83.1
207	J-86	1,046.0	117: Zone - Central	0.30	1,252.1	89.1
208	J-87	1,062.0	117: Zone - Central	1.80	1,255.0	83.5
209	J-88	1,062.0	117: Zone - Central	3.60	1,255.1	83.5
210	J-89	1,063.0	117: Zone - Central	1.20	1,254.8	83.0
211	J-90	1,066.0	117: Zone - Central	6.90	1,254.1	81.4
212	J-91	1,078.0	117: Zone - Central	2.70	1,253.8	76.1
213	J-92	1,079.0	117: Zone - Central	5.10	1,253.1	75.3
214	J-93	1,076.0	117: Zone - Central	3.60	1,253.0	76.6
215	J-94	1,078.0	117: Zone - Central	0.00	1,252.8	75.6
216	J-95	1,088.0	117: Zone - Central	1.50	1,255.7	72.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
217	J-96	1,085.0	117: Zone - Central	5.40	1,256.3	74.1
218	J-97	1,110.0	117: Zone - Central	9.00	1,257.0	63.6
219	J-99	1,096.0	117: Zone - Central	2.40	1,255.8	69.1
220	J-100	1,084.0	117: Zone - Central	0.00	1,255.4	74.2
221	J-101	1,081.0	117: Zone - Central	4.50	1,255.4	75.4
222	J-102	1,078.0	117: Zone - Central	7.80	1,255.2	76.7
223	J-103	1,084.0	117: Zone - Central	3.00	1,254.9	73.9
224	J-104	1,084.0	117: Zone - Central	1.50	1,254.8	73.9
225	J-105	1,084.0	117: Zone - Central	0.00	1,254.6	73.8
226	J-106	1,084.0	117: Zone - Central	1.50	1,254.4	73.7
227	J-107	1,086.0	117: Zone - Central	0.00	1,254.2	72.8
228	J-108	1,088.0	117: Zone - Central	1.20	1,254.1	71.8
229	J-109	1,090.0	117: Zone - Central	3.30	1,254.0	71.0
230	J-110	1,090.0	117: Zone - Central	6.60	1,254.1	71.0
231	J-111	1,088.0	117: Zone - Central	5.10	1,255.8	72.6
232	J-112	1,084.0	117: Zone - Central	3.00	1,255.8	74.3
233	J-113	1,072.0	117: Zone - Central	5.40	1,255.4	79.4
234	J-114	1,062.0	117: Zone - Central	4.20	1,255.2	83.6
235	J-115	1,058.0	117: Zone - Central	1.80	1,255.1	85.3
236	J-116	1,065.0	117: Zone - Central	1.20	1,255.1	82.2
237	J-117	1,072.0	117: Zone - Central	3.30	1,255.0	79.2
238	J-118	1,082.0	117: Zone - Central	5.40	1,254.9	74.8
239	J-119	1,058.0	117: Zone - Central	3.60	1,255.3	85.4
240	J-120	1,110.0	117: Zone - Central	2.40	1,255.3	62.9
241	J-121	1,036.0	117: Zone - Central	5.70	1,255.3	94.9
242	J-122	1,030.0	117: Zone - Central	6.90	1,255.3	97.5
243	J-123	1,068.0	117: Zone - Central	4.50	1,255.3	81.0
244	J-124	1,068.0	117: Zone - Central	1.50	1,255.1	81.0
245	J-125	1,070.0	117: Zone - Central	1.50	1,255.1	80.1
246	J-126	1,064.0	117: Zone - Central	1.80	1,252.6	81.6
247	J-127	1,078.0	117: Zone - Central	3.00	1,252.4	75.4
248	J-128	1,084.0	117: Zone - Central	3.60	1,252.6	73.0
249	J-129	1,083.0	117: Zone - Central	3.60	1,251.8	73.0
250	J-130	1,080.0	117: Zone - Central	0.00	1,251.7	74.3
251	J-131	1,081.0	117: Zone - Central	4.20	1,251.7	73.9
252	J-132	1,077.0	117: Zone - Central	1.50	1,252.1	75.8
253	J-133	1,078.0	117: Zone - Central	1.20	1,251.8	75.2
254	J-134	1,082.0	117: Zone - Central	6.00	1,252.9	74.0
255	J-135	1,088.0	117: Zone - Central	0.00	1,252.9	71.3
256	J-136	1,078.0	117: Zone - Central	2.70	1,252.9	75.7
257	J-137	1,088.0	117: Zone - Central	5.10	1,253.7	71.7
258	J-138	1,083.0	117: Zone - Central	3.90	1,255.0	74.4
259	J-139	1,082.0	117: Zone - Central	5.40	1,255.1	74.9
260	J-140	1,085.0	117: Zone - Central	2.40	1,255.1	73.6
261	J-141	1,076.0	117: Zone - Central	4.20	1,254.8	77.4
262	J-142	1,056.0	117: Zone - Central	2.70	1,254.9	86.1
263	J-143	1,046.0	117: Zone - Central	6.00	1,255.0	90.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
264	J-144	1,082.0	117: Zone - Central	2.40	1,255.1	74.9
265	J-145	1,040.0	117: Zone - Central	2.70	1,254.8	92.9
266	J-146	1,057.0	117: Zone - Central	6.30	1,255.3	85.8
267	J-147	1,072.0	117: Zone - Central	8.70	1,255.7	79.5
268	J-148	1,069.0	117: Zone - Central	4.50	1,255.8	80.8
269	J-149	1,059.0	117: Zone - Central	3.60	1,255.4	85.0
270	J-150	1,061.0	117: Zone - Central	3.00	1,255.6	84.2
271	J-151	1,063.0	117: Zone - Central	3.60	1,255.8	83.4
272	J-152	1,080.0	117: Zone - Central	3.30	1,255.8	76.1
273	J-153	1,080.0	117: Zone - Central	4.50	1,255.6	76.0
274	J-154	1,082.0	117: Zone - Central	3.90	1,255.4	75.0
275	J-155	1,079.0	117: Zone - Central	2.70	1,255.4	76.3
276	J-156	1,076.0	117: Zone - Central	0.00	1,255.3	77.6
277	J-157	1,074.0	117: Zone - Central	8.70	1,255.3	78.4
278	J-158	1,067.0	117: Zone - Central	4.50	1,255.2	81.4
279	J-159	1,062.0	117: Zone - Central	4.80	1,255.2	83.6
280	J-160	1,052.0	117: Zone - Central	5.10	1,255.1	87.9
281	J-161	1,057.0	117: Zone - Central	4.20	1,255.1	85.7
282	J-162	1,062.0	117: Zone - Central	5.40	1,255.0	83.5
283	J-163	1,042.0	117: Zone - Central	4.50	1,254.9	92.1
284	J-164	1,035.0	117: Zone - Central	2.70	1,254.8	95.1
285	J-165	1,042.0	117: Zone - Central	3.60	1,254.8	92.1
286	J-166	1,048.0	117: Zone - Central	5.10	1,255.0	89.6
287	J-167	1,060.0	117: Zone - Central	5.10	1,255.4	84.5
288	J-168	1,052.0	117: Zone - Central	46.50	1,254.7	87.7
289	J-169	1,068.0	117: Zone - Central	3.00	1,255.3	81.0
290	J-170	1,058.0	117: Zone - Central	2.40	1,255.3	85.4
291	J-171	1,053.0	117: Zone - Central	3.60	1,255.4	87.6
292	J-172	1,028.0	117: Zone - Central	0.00	1,255.7	98.5
293	J-173	1,022.0	117: Zone - Central	0.00	1,255.7	101.1
294	J-174	1,014.0	117: Zone - Central	0.00	1,255.8	104.6
295	J-175	1,004.0	117: Zone - Central	0.00	1,256.1	109.1
296	J-176	1,096.0	117: Zone - Central	8.70	1,255.4	69.0
297	J-177	1,082.0	117: Zone - Central	4.50	1,255.3	75.0
298	J-178	1,080.0	117: Zone - Central	8.70	1,255.3	75.9
299	J-179	1,002.0	117: Zone - Central	7.80	1,255.3	109.6
300	J-180	1,008.0	117: Zone - Central	4.80	1,255.3	107.0
301	J-181	1,068.0	117: Zone - Central	6.90	1,255.3	81.0
302	J-182	1,107.0	117: Zone - Central	5.10	1,255.3	64.2
303	J-183	1,060.0	117: Zone - Central	5.40	1,255.3	84.5
304	J-184	1,068.0	117: Zone - Central	6.90	1,255.3	81.0
305	J-185	1,012.0	117: Zone - Central	7.20	1,255.3	105.3
306	J-186	1,015.0	117: Zone - Central	6.00	1,255.3	104.0
307	J-187	1,052.0	117: Zone - Central	5.40	1,255.3	88.0
308	J-188	1,071.0	117: Zone - Central	4.50	1,255.3	79.7
309	J-189	1,067.0	117: Zone - Central	4.20	1,255.2	81.4
310	J-190	1,060.0	117: Zone - Central	4.20	1,255.2	84.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
311	J-191	1,086.0	117: Zone - Central	69.90	1,254.4	72.9
312	J-192	1,045.0	117: Zone - Central	0.00	1,254.8	90.8
313	J-193	1,082.0	117: Zone - Central	6.60	1,254.3	74.5
314	J-194	1,084.0	117: Zone - Central	25.20	1,254.2	73.7
315	J-196	1,092.0	117: Zone - Central	21.30	1,254.2	70.2
316	J-198	1,095.0	117: Zone - Central	9.30	1,254.2	68.9
317	J-199	1,085.0	117: Zone - Central	9.90	1,254.2	73.2
318	J-200	1,082.0	117: Zone - Central	9.30	1,254.3	74.5
319	J-201	1,082.0	117: Zone - Central	8.10	1,254.3	74.5
320	J-202	1,082.0	117: Zone - Central	8.40	1,254.3	74.6
321	J-204	1,082.0	117: Zone - Central	43.80	1,254.4	74.6
322	J-205	1,042.0	117: Zone - Central	0.90	1,254.7	92.0
323	J-206	1,066.0	117: Zone - Central	6.60	1,254.3	81.5
324	J-207	1,080.0	117: Zone - Central	88.80	1,254.0	75.3
325	J-208	1,058.0	117: Zone - Central	7.50	1,254.7	85.1
326	J-209	1,036.0	117: Zone - Central	0.00	1,254.9	94.7
327	J-210	1,024.0	117: Zone - Central	0.00	1,254.9	99.9
328	J-229	1,074.0	117: Zone - Central	8.70	1,254.4	78.1
329	J-230	1,057.0	117: Zone - Central	0.00	1,254.5	85.4
330	J-231	1,078.0	117: Zone - Central	34.80	1,254.5	76.4
331	J-232	1,068.0	117: Zone - Central	4.80	1,254.5	80.7
332	J-233	1,030.0	117: Zone - Central	44.10	1,254.7	97.2
333	J-234	966.0	117: Zone - Central	0.00	1,254.8	125.0
334	J-235	954.0	117: Zone - Central	0.00	1,254.9	130.2
335	J-236	1,004.0	117: Zone - Central	0.00	1,254.9	108.6
336	J-237	1,046.0	117: Zone - Central	0.90	1,252.6	89.4
337	J-238	1,020.0	117: Zone - Central	0.00	1,255.8	102.0
338	J-239	1,052.0	117: Zone - Central	1.80	1,254.7	87.7
339	J-240	1,052.0	117: Zone - Central	1.50	1,254.6	87.7
340	J-241	1,060.0	117: Zone - Central	0.00	1,254.5	84.2
341	J-242	1,068.0	117: Zone - Central	3.60	1,254.6	80.7
342	J-243	1,076.0	117: Zone - Central	3.60	1,254.6	77.3
343	J-245	1,080.0	117: Zone - Central	16.80	1,254.6	75.5
344	J-246	1,068.0	117: Zone - Central	8.70	1,254.6	80.7
345	J-247	1,062.0	117: Zone - Central	3.00	1,254.6	83.3
346	J-248	1,080.0	117: Zone - Central	8.10	1,254.4	75.4
347	J-249	1,088.0	117: Zone - Central	2.40	1,253.8	71.7
348	J-250	1,090.0	117: Zone - Central	1.80	1,253.2	70.6
349	J-251	1,091.0	117: Zone - Central	1.20	1,252.9	70.1
350	J-252	1,088.0	117: Zone - Central	1.20	1,252.9	71.3
351	J-253	1,083.0	117: Zone - Central	3.00	1,252.8	73.4
352	J-254	1,088.0	117: Zone - Central	1.50	1,252.7	71.3
353	J-255	1,092.0	117: Zone - Central	2.40	1,252.7	69.5
354	J-256	1,100.0	117: Zone - Central	2.40	1,252.1	65.8
355	J-257	1,110.0	117: Zone - Central	2.40	1,251.4	61.2
356	J-258	1,096.0	117: Zone - Central	6.00	1,249.9	66.6
357	J-259	1,103.0	117: Zone - Central	6.00	1,249.2	63.3

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
358	J-260	1,095.0	117: Zone - Central	1.50	1,253.2	68.5
359	J-261	1,105.0	117: Zone - Central	0.90	1,252.9	64.0
360	J-262	1,102.0	117: Zone - Central	14.10	1,253.2	65.4
361	J-263	1,104.0	117: Zone - Central	11.70	1,253.2	64.6
362	J-264	1,102.0	117: Zone - Central	8.40	1,253.1	65.4
363	J-265	1,100.0	117: Zone - Central	4.50	1,252.8	66.1
364	J-266	1,100.0	117: Zone - Central	6.30	1,253.3	66.3
365	J-267	1,096.0	117: Zone - Central	6.00	1,253.4	68.1
366	J-269	1,097.0	117: Zone - Central	6.60	1,253.3	67.6
367	J-270	1,094.0	117: Zone - Central	6.00	1,253.4	69.0
368	J-271	1,098.0	117: Zone - Central	3.60	1,253.4	67.2
369	J-272	1,113.0	117: Zone - Central	3.60	1,251.5	59.9
370	J-273	1,108.0	117: Zone - Central	6.00	1,251.5	62.1
371	J-274	1,115.0	117: Zone - Central	3.00	1,251.7	59.1
372	J-275	1,110.0	117: Zone - Central	4.20	1,252.3	61.6
373	J-276	1,104.0	117: Zone - Central	9.90	1,252.4	64.2
374	J-277	1,086.0	117: Zone - Central	3.00	1,252.9	72.2
375	J-278	1,082.0	117: Zone - Central	0.00	1,251.9	73.5
376	J-279	1,104.0	117: Zone - Central	1.50	1,252.4	64.2
377	J-280	1,106.0	117: Zone - Central	2.40	1,234.8	55.7
378	J-281	1,110.0	117: Zone - Central	1.20	1,248.1	59.8
379	J-283	1,114.0	117: Zone - Central	0.00	1,248.5	58.2
380	J-284	1,094.0	117: Zone - Central	1.80	1,249.0	67.1
381	J-285	1,084.0	117: Zone - Central	3.00	1,252.2	72.8
382	J-286	1,096.0	117: Zone - Central	0.30	1,250.8	67.0
383	J-287	1,118.0	117: Zone - Central	6.00	1,250.8	57.4
384	J-288	1,076.0	117: Zone - Central	5.10	1,252.8	76.5
385	J-289	1,090.0	117: Zone - Central	3.60	1,253.4	70.7
386	J-290	1,096.0	117: Zone - Central	2.40	1,253.4	68.1
387	J-291	1,093.0	117: Zone - Central	18.00	1,250.8	68.3
388	J-292	1,102.0	117: Zone - Central	3.60	1,254.1	65.8
389	J-293	1,120.0	117: Zone - Central	15.30	1,254.9	58.4
390	J-294	1,142.0	117: Zone - Central	13.80	1,257.4	49.9
391	J-295	1,156.0	117: Zone - Central	4.80	1,257.9	44.1
392	J-297	1,128.0	117: Zone - Central	6.90	1,257.6	56.1
393	J-298	1,120.0	117: Zone - Central	6.30	1,256.8	59.2
394	J-299	1,108.0	117: Zone - Central	13.80	1,256.4	64.2
395	J-300	1,108.0	117: Zone - Central	12.00	1,256.1	64.1
396	J-302	1,104.0	117: Zone - Central	4.20	1,255.8	65.7
397	J-303	1,084.0	117: Zone - Central	6.90	1,255.1	74.0
398	J-304	1,080.0	117: Zone - Central	5.40	1,255.1	75.8
399	J-305	1,086.0	117: Zone - Central	1.20	1,255.4	73.3
400	J-306	1,088.0	117: Zone - Central	3.60	1,255.4	72.4
401	J-307	1,092.0	117: Zone - Central	3.60	1,255.2	70.6
402	J-308	1,084.0	117: Zone - Central	5.10	1,254.6	73.8
403	J-309	1,092.0	117: Zone - Central	3.90	1,254.1	70.1
404	J-310	1,090.0	117: Zone - Central	3.90	1,253.8	70.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
405	J-312	1,088.0	117: Zone - Central	2.70	1,254.1	71.9
406	J-313	1,084.0	117: Zone - Central	7.50	1,254.6	73.8
407	J-314	1,082.0	117: Zone - Central	6.00	1,254.6	74.7
408	J-315	1,077.0	117: Zone - Central	0.00	1,255.1	77.1
409	J-317	1,086.0	117: Zone - Central	6.90	1,255.7	73.4
410	J-318	1,088.0	117: Zone - Central	6.30	1,255.7	72.5
411	J-320	1,105.0	117: Zone - Central	5.10	1,255.2	65.0
412	J-321	1,096.0	117: Zone - Central	7.20	1,255.9	69.2
413	J-322	1,160.0	117: Zone - Central	1.80	1,259.4	43.0
414	J-323	1,108.0	117: Zone - Central	4.20	1,254.0	63.2
415	J-324	1,152.0	117: Zone - Central	11.10	1,256.8	45.4
416	J-325	1,173.0	117: Zone - Central	5.10	1,256.8	36.2
417	J-326	1,153.0	117: Zone - Central	13.80	1,256.0	44.6
418	J-327	1,123.0	117: Zone - Central	9.00	1,254.2	56.8
419	J-328	1,114.0	117: Zone - Central	14.40	1,254.1	60.6
420	J-329	1,100.0	117: Zone - Central	3.60	1,253.6	66.5
421	J-330	1,096.0	117: Zone - Central	10.20	1,253.7	68.2
422	J-331	1,086.0	117: Zone - Central	10.50	1,253.0	72.3
423	J-332	1,100.0	117: Zone - Central	8.40	1,253.3	66.3
424	J-333	1,120.0	117: Zone - Central	12.00	1,253.0	57.6
425	J-334	1,142.0	117: Zone - Central	6.00	1,252.8	47.9
426	J-335	1,124.0	117: Zone - Central	4.20	1,252.7	55.7
427	J-336	1,120.0	117: Zone - Central	6.30	1,252.6	57.4
428	J-337	1,128.0	117: Zone - Central	1.80	1,252.6	53.9
429	J-338	1,138.0	117: Zone - Central	2.40	1,252.6	49.6
430	J-339	1,124.0	117: Zone - Central	12.00	1,252.5	55.6
431	J-340	1,116.0	117: Zone - Central	5.40	1,252.4	59.0
432	J-341	1,110.0	117: Zone - Central	5.70	1,252.4	61.6
433	J-342	1,152.0	117: Zone - Central	4.20	1,297.5	62.9
434	J-343	1,148.0	117: Zone - Central	3.60	1,297.5	64.7
435	J-344	1,152.0	117: Zone - Central	1.20	1,297.5	62.9
436	J-345	1,180.0	120: Zone - MountainTop	1.80	1,297.5	50.8
437	J-346	1,170.0	120: Zone - MountainTop	2.70	1,297.4	55.1
438	J-347	1,162.0	120: Zone - MountainTop	1.50	1,297.4	58.6
439	J-348	1,152.0	120: Zone - MountainTop	2.10	1,297.4	62.9
440	J-349	1,140.0	120: Zone - MountainTop	2.40	1,297.4	68.1
441	J-350	1,162.0	120: Zone - MountainTop	2.40	1,297.4	58.6
442	J-351	1,200.0	120: Zone - MountainTop	2.40	1,297.4	42.2
443	J-352	1,184.0	120: Zone - MountainTop	1.20	1,297.5	49.1

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
444	J-353	1,190.0	120: Zone - MountainTop	0.90	1,297.4	46.5
445	J-354	1,244.0	120: Zone - MountainTop	0.60	1,386.6	61.7
446	J-356	1,172.0	117: Zone - Central	4.80	1,297.5	54.3
447	J-357	1,176.0	117: Zone - Central	2.70	1,297.5	52.6
793	J-358	1,152.0	120: Zone - MountainTop	6.60	1,297.5	62.9
448	J-359	1,195.0	120: Zone - MountainTop	7.50	1,386.7	82.9
449	J-360	1,242.0	120: Zone - MountainTop	5.40	1,386.7	62.6
450	J-361	1,235.0	120: Zone - MountainTop	5.40	1,386.8	65.7
451	J-362	1,260.0	120: Zone - MountainTop	4.80	1,387.1	55.0
452	J-363	1,254.0	120: Zone - MountainTop	4.80	1,386.9	57.5
453	J-364	1,256.0	120: Zone - MountainTop	5.40	1,387.1	56.7
454	J-365	1,260.0	120: Zone - MountainTop	7.80	1,386.8	54.9
455	J-366	1,262.0	120: Zone - MountainTop	4.80	1,386.8	54.0
456	J-367	1,262.0	120: Zone - MountainTop	7.20	1,386.8	54.0
457	J-368	1,258.0	120: Zone - MountainTop	5.40	1,386.8	55.7
458	J-369	1,274.0	120: Zone - MountainTop	9.00	1,387.0	48.9
459	J-370	1,278.0	120: Zone - MountainTop	7.80	1,387.1	47.2
460	J-371	1,272.0	120: Zone - MountainTop	3.00	1,387.0	49.8
461	J-372	1,270.0	120: Zone - MountainTop	10.80	1,386.8	50.5
462	J-373	1,251.0	120: Zone - MountainTop	1.80	1,386.8	58.7
463	J-374	1,243.0	120: Zone - MountainTop	3.60	1,386.7	62.2
464	J-375	1,242.0	120: Zone - MountainTop	3.60	1,386.6	62.6
465	J-376	1,278.0	120: Zone - MountainTop	7.50	1,387.3	47.3
466	J-377	1,283.0	120: Zone - MountainTop	7.80	1,387.2	45.1
467	J-378	1,285.0	120: Zone - MountainTop	5.10	1,387.2	44.2
468	J-379	1,252.0	120: Zone - MountainTop	4.80	1,387.2	58.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
469	J-380	1,258.0	120: Zone - MountainTop	7.80	1,387.2	55.9
470	J-381	1,178.0	120: Zone - MountainTop	2.40	1,387.1	90.5
471	J-382	1,172.0	120: Zone - MountainTop	3.60	1,387.1	93.1
472	J-383	1,188.0	120: Zone - MountainTop	2.40	1,387.1	86.1
473	J-384	1,194.0	120: Zone - MountainTop	4.20	1,387.1	83.6
474	J-385	1,200.0	120: Zone - MountainTop	1.20	1,387.1	81.0
475	J-386	1,232.0	120: Zone - MountainTop	1.80	1,387.1	67.1
476	J-387	1,238.0	120: Zone - MountainTop	3.60	1,387.1	64.5
477	J-388	1,250.0	120: Zone - MountainTop	6.00	1,387.1	59.3
478	J-389	1,236.0	120: Zone - MountainTop	1.50	1,387.1	65.4
479	J-390	1,268.0	120: Zone - MountainTop	3.00	1,387.3	51.6
480	J-391	1,282.0	120: Zone - MountainTop	1.50	1,387.5	45.7
481	J-392	1,282.0	120: Zone - MountainTop	4.80	1,387.7	45.7
482	J-393	1,273.0	120: Zone - MountainTop	2.40	1,387.8	49.6
792	J-394	1,225.0	120: Zone - MountainTop	5.40	1,386.6	69.9
483	J-395	1,250.0	120: Zone - MountainTop	5.40	1,387.7	59.6
795	J-396	1,273.0	120: Zone - MountainTop	0.00	1,387.8	49.6
484	J-397	1,285.0	120: Zone - MountainTop	1.50	1,387.5	44.4
485	J-398	1,270.0	120: Zone - MountainTop	0.90	1,387.5	50.8
486	J-400	1,129.0	117: Zone - Central	4.20	1,387.5	111.8
487	J-401	1,100.0	117: Zone - Central	0.00	1,249.8	64.8
488	J-402	1,140.0	117: Zone - Central	3.00	1,249.8	47.5
490	J-405	1,102.0	117: Zone - Central	4.50	1,250.2	64.1
491	J-406	1,094.0	117: Zone - Central	94.00	1,250.4	67.7
492	J-407	1,096.0	117: Zone - Central	1.50	1,250.4	66.8
493	J-408	1,118.0	117: Zone - Central	0.00	1,249.8	57.0
494	J-409	1,076.0	117: Zone - Central	0.00	1,249.7	75.2
495	J-410	1,105.0	117: Zone - Central	0.00	1,249.7	62.6
496	J-411	1,136.0	117: Zone - Central	69.90	1,249.7	49.2
497	J-412	1,110.0	117: Zone - Central	1.50	1,249.7	60.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
498	J-413	1,085.0	117: Zone - Central	9.00	1,249.6	71.2
499	J-414	1,068.0	117: Zone - Central	44.10	1,249.5	78.5
500	J-415	1,108.0	117: Zone - Central	3.00	1,249.5	61.2
501	J-416	1,086.0	117: Zone - Central	4.80	1,249.0	70.5
502	J-417	1,067.0	117: Zone - Central	3.60	1,249.0	78.7
503	J-418	1,054.0	117: Zone - Central	9.60	1,248.9	84.3
504	J-419	1,076.0	117: Zone - Central	6.00	1,248.9	74.8
505	J-420	1,046.0	117: Zone - Central	11.40	1,248.9	87.8
506	J-421	1,042.0	117: Zone - Central	7.20	1,248.9	89.5
507	J-422	1,036.0	117: Zone - Central	4.80	1,248.9	92.1
508	J-423	1,064.0	117: Zone - Central	2.70	1,248.9	80.0
509	J-424	1,067.0	117: Zone - Central	3.60	1,248.9	78.7
510	J-425	1,066.0	117: Zone - Central	3.60	1,248.9	79.1
511	J-426	1,056.0	117: Zone - Central	3.30	1,248.9	83.5
512	J-427	1,063.0	117: Zone - Central	1.50	1,248.9	80.4
513	J-428	1,058.0	117: Zone - Central	1.50	1,248.9	82.6
514	J-429	1,042.0	117: Zone - Central	1.80	1,248.9	89.5
515	J-430	1,083.0	117: Zone - Central	4.50	1,249.0	71.8
516	J-431	1,081.0	117: Zone - Central	3.60	1,248.9	72.7
517	J-432	1,074.0	117: Zone - Central	3.00	1,248.9	75.7
518	J-433	1,076.0	117: Zone - Central	6.90	1,248.9	74.8
519	J-434	1,070.0	117: Zone - Central	1.50	1,248.9	77.4
520	J-435	1,063.0	117: Zone - Central	4.50	1,248.9	80.4
521	J-436	1,052.0	117: Zone - Central	1.50	1,249.0	85.2
522	J-437	1,062.0	117: Zone - Central	1.50	1,248.9	80.9
523	J-438	1,092.0	117: Zone - Central	4.20	1,248.9	67.9
524	J-439	1,090.0	117: Zone - Central	3.00	1,248.9	68.8
525	J-440	1,110.0	117: Zone - Central	3.00	1,248.9	60.1
526	J-441	1,100.0	117: Zone - Central	3.60	1,248.9	64.4
527	J-442	1,090.0	117: Zone - Central	3.60	1,248.9	68.8
528	J-443	1,110.0	117: Zone - Central	3.00	1,249.0	60.1
529	J-444	1,072.0	117: Zone - Central	3.60	1,248.9	76.6
530	J-445	1,064.0	117: Zone - Central	3.00	1,248.9	80.0
531	J-446	990.0	117: Zone - Central	0.00	1,248.9	112.0
532	J-447	1,046.0	117: Zone - Central	1.20	1,248.9	87.8
533	J-448	1,042.0	117: Zone - Central	0.00	1,248.9	89.5
534	J-449	1,048.0	117: Zone - Central	30.00	1,249.0	87.0
535	J-450	1,040.0	117: Zone - Central	69.60	1,248.4	90.1
536	J-451	1,032.0	117: Zone - Central	0.00	1,248.4	93.6
537	J-452	1,012.0	117: Zone - Central	19.50	1,248.6	102.4
538	J-453	1,020.0	117: Zone - Central	38.10	1,248.8	99.0
539	J-454	1,048.0	117: Zone - Central	0.00	1,248.4	86.7
540	J-455	1,014.0	117: Zone - Central	7.50	1,248.6	101.5
541	J-456	1,030.0	117: Zone - Central	6.00	1,248.6	94.6
542	J-457	1,030.0	117: Zone - Central	6.00	1,248.6	94.6
543	J-458	1,060.0	117: Zone - Central	8.40	1,248.6	81.6
544	J-459	1,050.0	117: Zone - Central	12.00	1,248.6	85.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
545	J-460	1,096.0	117: Zone - Central	9.00	1,248.6	66.0
546	J-461	1,066.0	117: Zone - Central	6.30	1,248.6	79.0
547	J-462	1,078.0	117: Zone - Central	5.40	1,248.6	73.8
548	J-463	1,060.0	117: Zone - Central	2.40	1,248.8	81.7
549	J-464	1,070.0	117: Zone - Central	1.80	1,248.8	77.4
550	J-465	1,074.0	117: Zone - Central	2.40	1,248.8	75.6
551	J-466	1,080.0	117: Zone - Central	3.00	1,248.8	73.0
552	J-467	1,084.0	117: Zone - Central	0.00	1,248.8	71.3
553	J-468	1,115.0	117: Zone - Central	3.60	1,248.8	57.9
554	J-469	1,068.0	117: Zone - Central	6.00	1,248.8	78.2
555	J-470	1,044.0	117: Zone - Central	9.30	1,248.8	88.6
556	J-471	1,048.0	117: Zone - Central	3.90	1,248.8	86.9
557	J-472	1,056.0	117: Zone - Central	2.40	1,248.8	83.4
558	J-473	1,060.0	117: Zone - Central	2.10	1,248.8	81.7
559	J-474	1,062.0	117: Zone - Central	3.30	1,248.8	80.8
560	J-475	1,050.0	117: Zone - Central	4.20	1,248.7	86.0
561	J-476	1,050.0	117: Zone - Central	3.90	1,248.7	86.0
562	J-477	1,050.0	117: Zone - Central	4.20	1,248.7	86.0
563	J-478	1,052.0	117: Zone - Central	2.70	1,248.8	85.1
564	J-479	1,053.0	117: Zone - Central	3.00	1,248.8	84.7
565	J-480	1,054.0	117: Zone - Central	4.50	1,248.8	84.3
566	J-481	1,058.0	117: Zone - Central	6.60	1,248.8	82.5
567	J-482	1,060.0	117: Zone - Central	6.60	1,248.8	81.7
568	J-483	1,082.0	117: Zone - Central	2.40	1,248.8	72.1
569	J-484	1,120.0	117: Zone - Central	0.90	1,248.7	55.7
570	J-485	1,124.0	117: Zone - Central	3.00	1,248.7	54.0
571	J-486	1,124.0	117: Zone - Central	2.70	1,248.7	54.0
572	J-487	1,138.0	117: Zone - Central	1.20	1,248.7	47.9
573	J-488	1,093.0	117: Zone - Central	3.60	1,248.8	67.4
574	J-489	1,084.0	117: Zone - Central	4.20	1,248.8	71.3
575	J-490	1,080.0	117: Zone - Central	5.70	1,248.8	73.0
576	J-491	1,090.0	117: Zone - Central	6.00	1,248.8	68.7
577	J-492	1,092.0	117: Zone - Central	6.00	1,248.9	67.9
578	J-493	1,094.0	117: Zone - Central	4.80	1,249.0	67.1
579	J-494	1,096.0	117: Zone - Central	3.60	1,249.1	66.2
580	J-495	1,100.0	117: Zone - Central	3.90	1,249.4	64.6
581	J-496	1,062.0	117: Zone - Central	6.60	1,248.9	80.8
582	J-497	1,066.0	117: Zone - Central	2.70	1,248.9	79.1
583	J-498	1,072.0	117: Zone - Central	4.50	1,249.0	76.6
584	J-499	1,078.0	117: Zone - Central	4.80	1,249.1	74.0
585	J-500	1,083.0	117: Zone - Central	25.00	1,249.1	71.9
586	J-501	1,090.0	117: Zone - Central	3.90	1,249.0	68.8
587	J-502	1,100.0	117: Zone - Central	9.00	1,248.8	64.4
588	J-504	1,107.0	117: Zone - Central	7.50	1,248.7	61.3
589	J-505	1,115.0	117: Zone - Central	6.90	1,248.6	57.8
590	J-506	1,127.0	117: Zone - Central	3.00	1,248.6	52.6
591	J-507	1,128.0	117: Zone - Central	3.30	1,248.6	52.2

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
592	J-508	1,118.0	117: Zone - Central	2.10	1,248.5	56.5
593	J-509	1,140.0	117: Zone - Central	6.30	1,248.6	47.0
594	J-510	1,160.0	117: Zone - Central	2.40	1,248.6	38.3
595	J-511	1,132.0	117: Zone - Central	0.00	1,249.1	50.7
597	J-515	1,100.0	117: Zone - Central	0.00	1,230.8	56.6
598	J-517	1,216.0	119: Zone - Rattlesnake	3.60	1,344.8	55.7
599	J-518	1,160.0	119: Zone - Rattlesnake	4.20	1,344.6	79.9
600	J-519	1,150.0	119: Zone - Rattlesnake	2.40	1,344.6	84.2
601	J-520	1,155.0	119: Zone - Rattlesnake	2.70	1,344.5	82.0
602	J-521	1,154.0	119: Zone - Rattlesnake	4.20	1,344.5	82.4
603	J-522	1,148.0	119: Zone - Rattlesnake	4.20	1,344.4	85.0
604	J-523	1,142.0	119: Zone - Rattlesnake	6.00	1,344.4	87.6
605	J-524	1,150.0	119: Zone - Rattlesnake	6.00	1,344.4	84.1
606	J-525	1,152.0	119: Zone - Rattlesnake	5.70	1,344.4	83.2
607	J-526	1,148.0	119: Zone - Rattlesnake	5.70	1,344.4	85.0
608	J-527	1,141.0	119: Zone - Rattlesnake	3.00	1,344.3	88.0
609	J-528	1,140.0	119: Zone - Rattlesnake	4.50	1,344.3	88.4
610	J-529	1,139.0	119: Zone - Rattlesnake	3.30	1,344.3	88.8
611	J-530	1,132.0	119: Zone - Rattlesnake	2.70	1,344.4	91.9
612	J-531	1,125.0	119: Zone - Rattlesnake	2.70	1,344.4	94.9
613	J-532	1,122.0	119: Zone - Rattlesnake	2.40	1,344.4	96.2
614	J-533	1,115.0	119: Zone - Rattlesnake	3.60	1,344.4	99.2
615	J-534	1,110.0	119: Zone - Rattlesnake	4.20	1,344.4	101.4
616	J-535	1,104.0	117: Zone - Central	4.80	1,248.0	62.3
617	J-536	1,125.0	117: Zone - Central	7.80	1,247.5	53.0
618	J-537	1,113.0	117: Zone - Central	6.30	1,247.6	58.2
619	J-538	1,206.0	119: Zone - Rattlesnake	3.90	1,344.7	60.0
620	J-539	1,180.0	119: Zone - Rattlesnake	4.20	1,344.6	71.2

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
621	J-540	1,160.0	119: Zone - Rattlesnake	2.70	1,344.6	79.9
622	J-541	1,150.0	119: Zone - Rattlesnake	3.00	1,344.6	84.2
623	J-542	1,140.0	119: Zone - Rattlesnake	3.00	1,344.6	88.5
624	J-543	1,130.0	119: Zone - Rattlesnake	2.40	1,344.6	92.8
625	J-544	1,120.0	119: Zone - Rattlesnake	2.40	1,344.6	97.2
626	J-545	1,114.0	117: Zone - Central	3.00	1,248.7	58.3
627	J-546	1,142.0	119: Zone - Rattlesnake	5.40	1,344.6	87.7
628	J-547	1,138.0	119: Zone - Rattlesnake	3.60	1,344.6	89.4
629	J-548	1,132.0	119: Zone - Rattlesnake	3.90	1,344.6	92.0
630	J-549	1,128.0	119: Zone - Rattlesnake	3.30	1,344.6	93.7
631	J-550	1,119.0	119: Zone - Rattlesnake	2.40	1,344.6	97.6
632	J-551	1,114.0	119: Zone - Rattlesnake	3.00	1,344.6	99.8
633	J-552	1,110.0	119: Zone - Rattlesnake	1.80	1,344.6	101.5
634	J-553	1,104.0	117: Zone - Central	3.00	1,249.3	62.9
635	J-554	1,127.0	119: Zone - Rattlesnake	3.00	1,344.9	94.3
636	J-555	1,144.0	119: Zone - Rattlesnake	4.20	1,344.9	86.9
637	J-556	1,192.0	119: Zone - Rattlesnake	3.60	1,344.9	66.2
638	J-557	1,202.0	119: Zone - Rattlesnake	2.10	1,344.9	61.8
639	J-558	1,204.0	119: Zone - Rattlesnake	2.40	1,345.0	61.0
640	J-559	1,196.0	119: Zone - Rattlesnake	3.90	1,344.9	64.4
641	J-560	1,192.0	119: Zone - Rattlesnake	4.20	1,344.9	66.1
642	J-561	1,194.0	119: Zone - Rattlesnake	4.20	1,344.9	65.3
643	J-562	1,198.0	119: Zone - Rattlesnake	6.00	1,344.9	63.5
644	J-563	1,128.0	119: Zone - Rattlesnake	6.90	1,344.9	93.8
645	J-564	1,136.0	119: Zone - Rattlesnake	3.30	1,344.9	90.4
646	J-565	1,189.0	119: Zone - Rattlesnake	3.00	1,344.9	67.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
647	J-566	1,150.0	119: Zone - Rattlesnake	2.40	1,344.9	84.3
648	J-567	1,140.0	119: Zone - Rattlesnake	4.20	1,344.9	88.6
649	J-568	1,118.0	119: Zone - Rattlesnake	5.10	1,344.9	98.2
650	J-569	1,086.0	119: Zone - Rattlesnake	1.20	1,344.9	112.0
651	J-570	1,082.0	117: Zone - Central	0.90	1,243.5	69.9
652	J-571	1,142.0	119: Zone - Rattlesnake	3.00	1,344.9	87.8
653	J-572	1,132.0	117: Zone - Central	7.20	1,243.7	48.3
654	J-573	1,110.0	117: Zone - Central	6.60	1,243.8	57.9
655	J-574	1,096.0	117: Zone - Central	6.90	1,243.8	64.0
656	J-575	1,083.0	117: Zone - Central	3.60	1,244.0	69.7
657	J-576	1,060.0	117: Zone - Central	33.00	1,245.4	80.2
658	J-577	1,052.0	117: Zone - Central	1.80	1,247.5	84.6
659	J-578	1,070.0	117: Zone - Central	1.50	1,243.5	75.1
660	J-579	1,058.0	117: Zone - Central	3.30	1,243.5	80.2
661	J-580	1,046.0	117: Zone - Central	3.30	1,243.4	85.4
662	J-581	1,042.0	117: Zone - Central	49.20	1,243.1	87.0
663	J-582	1,052.0	117: Zone - Central	6.30	1,243.7	82.9
664	J-583	1,058.0	117: Zone - Central	6.90	1,243.9	80.4
665	J-584	1,060.0	117: Zone - Central	4.80	1,244.5	79.8
666	J-585	1,076.0	117: Zone - Central	5.10	1,243.7	72.5
667	J-586	1,075.0	117: Zone - Central	9.00	1,243.8	73.0
668	J-587	1,080.0	117: Zone - Central	5.10	1,243.9	70.9
669	J-588	1,088.0	117: Zone - Central	7.20	1,243.7	67.4
670	J-589	1,036.0	117: Zone - Central	3.60	1,246.1	90.9
671	J-590	1,038.0	117: Zone - Central	12.30	1,246.1	90.0
672	J-591	1,028.0	117: Zone - Central	0.00	1,247.5	95.0
673	J-592	1,030.0	117: Zone - Central	5.40	1,247.5	94.1
674	J-594	1,028.0	117: Zone - Central	0.90	1,252.9	97.3
675	J-595	1,046.0	117: Zone - Central	0.60	1,255.1	90.5
676	J-596	1,018.0	117: Zone - Central	1.20	1,250.1	100.4
677	J-597	1,042.0	117: Zone - Central	1.80	1,242.9	86.9
678	J-598	1,056.0	117: Zone - Central	6.30	1,242.8	80.8
679	J-599	1,060.0	117: Zone - Central	5.10	1,242.6	79.0
680	J-600	1,060.0	117: Zone - Central	5.10	1,242.4	78.9
681	J-601	1,050.0	117: Zone - Central	3.90	1,242.7	83.4
682	J-602	1,055.0	117: Zone - Central	1.80	1,242.7	81.2
683	J-603	1,072.0	117: Zone - Central	6.60	1,242.1	73.6
684	J-604	1,070.0	117: Zone - Central	6.00	1,241.8	74.4
685	J-605	1,062.0	117: Zone - Central	3.30	1,241.7	77.7
686	J-606	1,052.0	117: Zone - Central	3.30	1,241.6	82.0
687	J-607	1,050.0	117: Zone - Central	1.20	1,241.5	82.8
688	J-608	1,060.0	117: Zone - Central	0.90	1,242.1	78.8

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
689	J-609	1,070.0	117: Zone - Central	3.30	1,242.2	74.5
690	J-610	1,070.0	117: Zone - Central	3.00	1,241.8	74.3
691	J-611	1,078.0	117: Zone - Central	4.50	1,242.2	71.0
692	J-612	1,084.0	117: Zone - Central	0.90	1,242.5	68.6
693	J-613	1,077.0	117: Zone - Central	1.80	1,241.6	71.2
694	J-614	1,100.0	117: Zone - Central	0.90	1,243.4	62.1
695	J-615	1,090.0	117: Zone - Central	4.50	1,243.4	66.4
696	J-616	1,084.0	117: Zone - Central	3.60	1,243.1	68.8
697	J-617	1,084.0	117: Zone - Central	3.30	1,242.4	68.5
698	J-618	1,084.0	117: Zone - Central	4.50	1,242.0	68.4
699	J-619	1,080.0	117: Zone - Central	3.90	1,241.7	70.0
700	J-620	1,096.0	117: Zone - Central	1.80	1,243.4	63.8
701	J-621	1,108.0	117: Zone - Central	2.10	1,243.5	58.6
702	J-622	1,102.0	117: Zone - Central	4.20	1,243.5	61.2
703	J-623	1,100.0	117: Zone - Central	0.00	1,243.7	62.2
704	J-624	1,102.0	117: Zone - Central	2.70	1,243.8	61.3
705	J-625	1,140.0	119: Zone - Rattlesnake	0.00	1,344.9	88.7
706	J-626	1,116.0	119: Zone - Rattlesnake	4.80	1,344.9	99.0
707	J-627	1,112.0	119: Zone - Rattlesnake	2.70	1,344.9	100.8
708	J-628	1,114.0	119: Zone - Rattlesnake	3.60	1,344.9	99.9
709	J-629	1,112.0	119: Zone - Rattlesnake	4.20	1,344.9	100.8
710	J-630	1,108.0	117: Zone - Central	3.30	1,247.5	60.4
711	J-631	1,100.0	117: Zone - Central	6.00	1,246.1	63.2
712	J-632	1,084.0	117: Zone - Central	17.10	1,246.0	70.1
713	J-633	1,126.0	117: Zone - Central	3.00	1,248.4	53.0
714	J-634	1,140.0	119: Zone - Rattlesnake	3.90	1,345.0	88.7
715	J-635	1,180.0	119: Zone - Rattlesnake	0.90	1,345.0	71.4
716	J-637	1,154.0	119: Zone - Rattlesnake	2.70	1,345.0	82.6
717	J-638	1,092.0	117: Zone - Central	2.70	1,248.1	67.5
718	J-639	1,100.0	117: Zone - Central	3.90	1,247.8	63.9
719	J-640	1,087.0	117: Zone - Central	4.50	1,246.9	69.2
720	J-641	1,098.0	117: Zone - Central	5.70	1,247.2	64.5
721	J-642	1,112.0	117: Zone - Central	3.90	1,247.2	58.5
722	J-643	1,118.0	117: Zone - Central	2.70	1,247.3	55.9
723	J-644	1,136.0	119: Zone - Rattlesnake	5.70	1,344.3	90.1
724	J-645	1,080.0	117: Zone - Central	7.50	1,240.4	69.4
777	J-646	1,097.0	117: Zone - Central	1.20	1,239.8	61.8
725	J-647	1,070.0	117: Zone - Central	60.30	1,239.2	73.2
726	J-648	1,050.0	117: Zone - Central	0.00	1,238.9	81.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
727	J-649	1,102.0	117: Zone - Central	4.20	1,247.2	62.8
728	J-650	1,116.0	119: Zone - Rattlesnake	7.50	1,344.3	98.8
729	J-651	1,105.0	117: Zone - Central	0.00	1,239.4	58.2
730	J-652	1,160.0	119: Zone - Rattlesnake	3.60	1,344.3	79.7
731	J-653	1,214.0	119: Zone - Rattlesnake	7.20	1,344.3	56.4
732	J-654	1,214.0	119: Zone - Rattlesnake	7.50	1,344.3	56.4
733	J-655	1,096.0	117: Zone - Central	9.60	1,239.1	61.9
734	J-656	1,077.0	117: Zone - Central	29.00	1,235.3	68.5
735	J-657	1,116.0	117: Zone - Central	2.70	1,239.4	53.4
736	J-659	1,100.0	117: Zone - Central	15.30	1,238.6	60.0
737	J-660	1,104.0	117: Zone - Central	0.00	1,249.3	62.9
738	J-662	1,270.0	120: Zone - MountainTop	3.00	1,387.7	50.9
739	J-663	1,272.0	120: Zone - MountainTop	1.80	1,387.7	50.1
740	J-664	1,272.0	120: Zone - MountainTop	1.80	1,387.7	50.1
741	J-665	1,283.0	120: Zone - MountainTop	3.60	1,387.7	45.3
742	J-666	1,288.0	120: Zone - MountainTop	3.30	1,387.7	43.2
743	J-667	1,278.0	120: Zone - MountainTop	49.50	1,387.7	47.5
744	J-668	1,258.0	120: Zone - MountainTop	2.40	1,387.7	56.1
745	J-669	1,132.0	117: Zone - Central	1.20	1,254.3	52.9
746	J-670	1,092.0	117: Zone - Central	0.90	1,254.3	70.2
747	J-671	1,095.0	117: Zone - Central	3.00	1,254.3	68.9
748	J-672	1,080.0	117: Zone - Central	0.00	1,254.3	75.4
749	J-673	1,100.0	117: Zone - Central	1.20	1,254.3	66.7
750	J-674	1,050.0	117: Zone - Central	32.40	1,254.3	88.4
751	J-675	1,276.0	120: Zone - MountainTop	9.60	1,387.3	48.2
752	J-676	1,246.0	120: Zone - MountainTop	7.20	1,387.2	61.1
753	J-677	1,254.0	120: Zone - MountainTop	36.90	1,387.2	57.6
754	J-679	1,132.0	117: Zone - Central	3.30	1,254.3	52.9
755	J-680	1,073.0	117: Zone - Central	40.20	1,254.3	78.4
756	J-681	1,078.0	117: Zone - Central	1.80	1,254.3	76.3
757	J-682	1,070.0	117: Zone - Central	0.90	1,254.3	79.7
758	J-683	1,083.0	117: Zone - Central	0.60	1,254.3	74.1
759	J-684	1,093.0	117: Zone - Central	1.50	1,254.3	69.8
760	J-685	1,112.0	117: Zone - Central	3.00	1,254.3	61.6

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
761	J-686	1,118.0	117: Zone - Central	4.80	1,254.3	59.0
762	J-687	1,107.0	117: Zone - Central	1.20	1,254.3	63.7
763	J-688	1,100.0	117: Zone - Central	1.80	1,254.3	66.7
764	J-689	1,088.0	117: Zone - Central	0.00	1,254.3	71.9
765	J-690	1,129.0	117: Zone - Central	42.00	1,254.3	54.2
766	J-691	1,114.0	117: Zone - Central	30.00	1,254.4	60.7
767	J-692	1,140.0	117: Zone - Central	1.20	1,259.3	51.6
768	J-693	1,136.0	117: Zone - Central	2.40	1,259.3	53.3
769	J-694	1,138.0	117: Zone - Central	16.80	1,259.3	52.5
770	J-696	1,177.0	117: Zone - Central	2.40	1,259.3	35.6
771	J-698	1,078.0	117: Zone - Central	2.10	1,238.2	69.3
772	J-700	1,100.0	117: Zone - Central	9.30	1,231.4	56.8
773	J-701	1,050.0	117: Zone - Central	14.70	1,238.8	81.7
779	J-703	1,230.0	120: Zone - MountainTop	0.60	1,386.6	67.7
797	J-704	950.0	117: Zone - Central	0.00	1,065.5	50.0
780	J-705	1,245.0	120: Zone - MountainTop	0.00	1,386.6	61.3
775	J-707	1,020.0	117: Zone - Central	0.00	1,252.3	100.5
776	J-708	1,198.0	119: Zone - Rattlesnake	3.00	1,345.0	63.6
781	J-714	1,080.0	117: Zone - Central	0.00	1,252.5	74.6
782	J-715	1,148.0	119: Zone - Rattlesnake	3.00	1,345.0	85.2
783	J-716	1,150.0	119: Zone - Rattlesnake	1.80	1,344.9	84.3
784	J-717	1,085.0	117: Zone - Central	3.00	1,252.5	72.5
785	J-718	1,055.0	117: Zone - Central	42.90	1,244.5	82.0
786	J-719	1,060.0	117: Zone - Central	18.60	1,254.2	84.0
787	J-720	1,060.0	117: Zone - Central	18.00	1,254.1	84.0
788	J-721	1,042.0	117: Zone - Central	25.50	1,254.1	91.8
789	J-722	1,072.0	117: Zone - Central	0.00	1,243.0	74.0
790	J-723	1,040.0	117: Zone - Central	6.60	1,245.8	89.0
791	J-724	1,050.0	117: Zone - Central	43.00	1,245.1	84.4
796	J-725	1,250.0	120: Zone - MountainTop	0.00	1,386.7	59.1
798	J-726	1,172.0	120: Zone - MountainTop	0.00	1,387.2	93.1
799	J-727	1,030.0	117: Zone - Central	0.00	1,254.3	97.0
800	J-728	1,070.0	117: Zone - Central	0.00	1,254.3	79.7
802	J-731	1,050.0	117: Zone - Central	0.00	1,254.7	88.5
803	J-732	1,100.0	117: Zone - Central	0.00	1,254.6	66.9
804	J-733	1,052.0	117: Zone - Central	0.00	1,254.6	87.7
805	J-736	1,120.0	117: Zone - Central	0.00	1,259.1	60.2
806	J-737	1,210.0	119: Zone - Rattlesnake	0.00	1,345.0	58.4
810	J-738	1,020.0	121: Zone - PS	0.00	1,065.5	19.7
807	J-739	1,114.0	117: Zone - Central	0.00	1,249.8	58.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
808	J-740	1,080.0	117: Zone - Central	0.00	1,249.8	73.5
794	J-1001	840.0	121: Zone - PS	0.00	1,065.5	97.6
778	J-1002	840.0	121: Zone - PS	0.00	1,064.0	96.9
774	J-3000	1,208.0	121: Zone - PS	0.00	1,345.0	59.3
489	J-4002	1,130.0	121: Zone - PS	0.00	1,249.6	51.8
1968	J-4007	1,150.0	<None>	0.00	1,212.1	26.9
1970	J-4008	1,150.0	<None>	0.00	1,210.2	26.1
1973	J-4009	1,130.0	<None>	0.00	1,239.4	47.3
1979	J-4010	1,150.0	<None>	0.00	1,239.4	38.7
1991	J-4012	1,150.0	<None>	0.00	1,249.6	43.1
1997	J-4013	1,150.0	<None>	0.00	1,249.6	43.1

EXHIBIT E-2

EXISTING CONDITIONS WATER MODEL
MAXIMUM DAY

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
124	J-1	1,030.0	121: Zone - PS	0.00	1,240.1	90.9
125	J-2	1,020.0	117: Zone - Central	0.00	1,240.1	95.2
126	J-3	1,040.0	117: Zone - Central	0.00	1,240.1	86.6
127	J-4	1,076.0	117: Zone - Central	0.00	1,246.2	73.7
128	J-5	1,075.0	117: Zone - Central	5.60	1,246.8	74.3
129	J-6	1,056.0	117: Zone - Central	10.50	1,245.3	81.9
130	J-7	1,050.0	117: Zone - Central	0.00	1,248.9	86.1
131	J-8	1,042.0	117: Zone - Central	6.30	1,250.6	90.3
132	J-9	1,120.0	117: Zone - Central	0.00	1,253.7	57.9
133	J-10	1,220.0	121: Zone - PS	0.00	1,257.4	16.2
134	J-11	1,072.0	117: Zone - Central	8.40	1,239.3	72.4
135	J-12	1,078.0	117: Zone - Central	0.00	1,236.4	68.5
136	J-13	1,070.0	117: Zone - Central	0.00	1,235.9	71.8
137	J-14	1,076.0	117: Zone - Central	0.00	1,233.9	68.3
138	J-15	1,108.0	117: Zone - Central	0.00	1,222.6	49.6
596	J-16	1,111.0	117: Zone - Central	0.00	1,220.2	47.2
139	J-17	1,069.0	117: Zone - Central	3.50	1,236.3	72.4
140	J-18	1,058.0	117: Zone - Central	0.00	1,238.3	78.0
141	J-19	1,058.0	117: Zone - Central	7.00	1,237.9	77.8
142	J-20	1,078.0	117: Zone - Central	14.00	1,236.9	68.8
143	J-21	1,070.0	117: Zone - Central	9.10	1,237.0	72.3
144	J-22	1,036.0	117: Zone - Central	8.40	1,237.1	87.0
145	J-23	1,036.0	117: Zone - Central	9.80	1,237.2	87.0
146	J-24	1,036.0	117: Zone - Central	6.30	1,237.3	87.1
147	J-25	1,032.0	117: Zone - Central	1.40	1,237.3	88.8
148	J-26	1,068.0	117: Zone - Central	7.00	1,237.1	73.2
149	J-27	1,072.0	117: Zone - Central	7.00	1,237.2	71.5
150	J-28	1,074.0	117: Zone - Central	6.30	1,237.3	70.6
151	J-29	1,054.0	117: Zone - Central	2.80	1,237.4	79.3
152	J-30	1,041.0	117: Zone - Central	7.70	1,237.4	85.0
153	J-31	1,031.0	117: Zone - Central	6.30	1,237.4	89.3
154	J-32	1,042.0	117: Zone - Central	5.60	1,237.5	84.6
155	J-33	1,048.0	117: Zone - Central	5.60	1,237.4	81.9
156	J-34	1,034.0	117: Zone - Central	4.20	1,237.4	88.0
157	J-35	1,038.0	117: Zone - Central	7.00	1,237.3	86.2
158	J-36	1,030.0	117: Zone - Central	0.00	1,238.3	90.1
159	J-37	1,042.0	117: Zone - Central	0.00	1,237.5	84.6
160	J-38	1,050.0	117: Zone - Central	0.00	1,237.5	81.1
161	J-39	1,027.0	117: Zone - Central	11.90	1,239.8	92.1
162	J-40	1,078.0	117: Zone - Central	9.10	1,240.8	70.4
163	J-41	1,076.0	117: Zone - Central	0.00	1,236.4	69.4
164	J-42	1,050.0	117: Zone - Central	10.50	1,240.8	82.5
165	J-43	1,055.0	117: Zone - Central	16.80	1,242.1	81.0
166	J-44	1,074.0	117: Zone - Central	14.00	1,242.9	73.1
167	J-45	1,070.0	117: Zone - Central	13.30	1,243.8	75.2
168	J-46	1,060.0	117: Zone - Central	7.00	1,243.0	79.2
169	J-47	1,067.0	117: Zone - Central	10.50	1,242.5	75.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
170	J-48	1,070.0	117: Zone - Central	16.80	1,242.7	74.7
171	J-49	1,074.0	117: Zone - Central	1.40	1,245.0	74.0
172	J-50	1,075.0	117: Zone - Central	5.60	1,245.2	73.6
173	J-51	1,073.0	117: Zone - Central	4.90	1,244.7	74.3
174	J-52	1,070.0	117: Zone - Central	7.70	1,244.6	75.5
175	J-53	1,077.0	117: Zone - Central	15.40	1,245.2	72.8
176	J-54	1,058.0	117: Zone - Central	15.40	1,242.8	79.9
177	J-55	1,054.0	117: Zone - Central	11.90	1,242.3	81.5
178	J-56	1,056.0	117: Zone - Central	0.00	1,241.9	80.4
179	J-57	1,074.0	117: Zone - Central	4.20	1,242.8	73.0
180	J-58	1,078.0	117: Zone - Central	11.90	1,241.9	70.9
181	J-59	1,081.0	117: Zone - Central	178.50	1,240.9	69.2
182	J-60	1,076.0	117: Zone - Central	8.40	1,240.7	71.2
183	J-61	1,064.0	117: Zone - Central	14.00	1,240.5	76.4
184	J-62	1,062.0	117: Zone - Central	2.80	1,240.1	77.1
185	J-63	1,062.0	117: Zone - Central	11.20	1,240.0	77.0
186	J-64	1,058.0	117: Zone - Central	18.90	1,240.0	78.7
187	J-65	1,030.0	117: Zone - Central	12.60	1,240.0	90.8
188	J-66	1,036.0	117: Zone - Central	14.00	1,240.0	88.2
189	J-67	1,048.0	117: Zone - Central	9.10	1,240.0	83.1
190	J-69	1,030.0	117: Zone - Central	20.30	1,239.9	90.8
191	J-70	1,044.0	117: Zone - Central	17.50	1,240.0	84.8
192	J-71	1,044.0	117: Zone - Central	9.10	1,240.7	85.1
193	J-72	1,063.0	117: Zone - Central	10.50	1,240.7	76.9
194	J-73	1,054.0	117: Zone - Central	12.60	1,240.7	80.8
195	J-74	1,076.0	117: Zone - Central	9.80	1,241.6	71.6
196	J-75	1,100.0	117: Zone - Central	8.40	1,241.6	61.3
197	J-76	1,066.0	117: Zone - Central	15.40	1,242.0	76.2
198	J-77	1,058.0	117: Zone - Central	11.20	1,242.8	80.0
199	J-78	1,050.0	117: Zone - Central	15.40	1,243.8	83.9
200	J-79	1,060.0	117: Zone - Central	11.20	1,244.7	79.9
201	J-80	1,064.0	117: Zone - Central	5.60	1,244.9	78.3
202	J-81	1,034.0	117: Zone - Central	14.00	1,244.7	91.2
203	J-82	1,032.0	117: Zone - Central	9.80	1,245.0	92.1
204	J-83	1,034.0	117: Zone - Central	11.20	1,245.3	91.4
205	J-84	1,023.0	117: Zone - Central	3.50	1,245.8	96.4
206	J-85	1,060.0	117: Zone - Central	8.40	1,245.1	80.1
207	J-86	1,046.0	117: Zone - Central	0.70	1,245.3	86.2
208	J-87	1,062.0	117: Zone - Central	4.20	1,250.0	81.3
209	J-88	1,062.0	117: Zone - Central	8.40	1,250.3	81.5
210	J-89	1,063.0	117: Zone - Central	2.80	1,249.6	80.7
211	J-90	1,066.0	117: Zone - Central	16.10	1,248.4	78.9
212	J-91	1,078.0	117: Zone - Central	6.30	1,247.8	73.5
213	J-92	1,079.0	117: Zone - Central	11.90	1,246.5	72.5
214	J-93	1,076.0	117: Zone - Central	8.40	1,246.3	73.7
215	J-94	1,078.0	117: Zone - Central	0.00	1,245.9	72.6
216	J-95	1,088.0	117: Zone - Central	3.50	1,250.8	70.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
217	J-96	1,085.0	117: Zone - Central	12.60	1,251.8	72.1
218	J-97	1,110.0	117: Zone - Central	21.00	1,253.2	62.0
219	J-99	1,096.0	117: Zone - Central	5.60	1,250.9	67.0
220	J-100	1,084.0	117: Zone - Central	0.00	1,250.2	71.9
221	J-101	1,081.0	117: Zone - Central	10.50	1,250.0	73.1
222	J-102	1,078.0	117: Zone - Central	18.20	1,249.5	74.2
223	J-103	1,084.0	117: Zone - Central	7.00	1,248.7	71.2
224	J-104	1,084.0	117: Zone - Central	3.50	1,248.5	71.2
225	J-105	1,084.0	117: Zone - Central	0.00	1,248.0	71.0
226	J-106	1,084.0	117: Zone - Central	3.50	1,247.7	70.8
227	J-107	1,086.0	117: Zone - Central	0.00	1,247.0	69.7
228	J-108	1,088.0	117: Zone - Central	2.80	1,246.8	68.7
229	J-109	1,090.0	117: Zone - Central	7.70	1,246.8	67.8
230	J-110	1,090.0	117: Zone - Central	15.40	1,246.8	67.8
231	J-111	1,088.0	117: Zone - Central	11.90	1,250.7	70.4
232	J-112	1,084.0	117: Zone - Central	7.00	1,250.8	72.1
233	J-113	1,072.0	117: Zone - Central	12.60	1,249.5	76.8
234	J-114	1,062.0	117: Zone - Central	9.80	1,249.1	81.0
235	J-115	1,058.0	117: Zone - Central	4.20	1,249.0	82.7
236	J-116	1,065.0	117: Zone - Central	2.80	1,249.0	79.6
237	J-117	1,072.0	117: Zone - Central	7.70	1,248.9	76.5
238	J-118	1,082.0	117: Zone - Central	12.60	1,248.7	72.1
239	J-119	1,058.0	117: Zone - Central	8.40	1,248.9	82.6
240	J-120	1,110.0	117: Zone - Central	5.60	1,248.8	60.1
241	J-121	1,036.0	117: Zone - Central	13.30	1,248.7	92.0
242	J-122	1,030.0	117: Zone - Central	16.10	1,248.7	94.6
243	J-123	1,068.0	117: Zone - Central	10.50	1,248.9	78.2
244	J-124	1,068.0	117: Zone - Central	3.50	1,249.0	78.3
245	J-125	1,070.0	117: Zone - Central	3.50	1,249.0	77.4
246	J-126	1,064.0	117: Zone - Central	4.20	1,246.4	78.9
247	J-127	1,078.0	117: Zone - Central	7.00	1,246.3	72.8
248	J-128	1,084.0	117: Zone - Central	8.40	1,246.2	70.2
249	J-129	1,083.0	117: Zone - Central	8.40	1,245.3	70.2
250	J-130	1,080.0	117: Zone - Central	0.00	1,245.2	71.5
251	J-131	1,081.0	117: Zone - Central	9.80	1,245.1	71.0
252	J-132	1,077.0	117: Zone - Central	3.50	1,246.3	73.3
253	J-133	1,078.0	117: Zone - Central	2.80	1,245.4	72.4
254	J-134	1,082.0	117: Zone - Central	14.00	1,246.2	71.0
255	J-135	1,088.0	117: Zone - Central	0.00	1,246.0	68.3
256	J-136	1,078.0	117: Zone - Central	6.30	1,246.2	72.8
257	J-137	1,088.0	117: Zone - Central	11.90	1,246.9	68.7
258	J-138	1,083.0	117: Zone - Central	9.10	1,248.9	71.8
259	J-139	1,082.0	117: Zone - Central	12.60	1,249.8	72.6
260	J-140	1,085.0	117: Zone - Central	5.60	1,249.8	71.3
261	J-141	1,076.0	117: Zone - Central	9.80	1,248.1	74.5
262	J-142	1,056.0	117: Zone - Central	6.30	1,248.2	83.2
263	J-143	1,046.0	117: Zone - Central	14.00	1,248.3	87.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
264	J-144	1,082.0	117: Zone - Central	5.60	1,248.6	72.1
265	J-145	1,040.0	117: Zone - Central	6.30	1,247.2	89.7
266	J-146	1,057.0	117: Zone - Central	14.70	1,248.8	83.0
267	J-147	1,072.0	117: Zone - Central	20.30	1,249.9	77.0
268	J-148	1,069.0	117: Zone - Central	10.50	1,250.3	78.4
269	J-149	1,059.0	117: Zone - Central	8.40	1,249.1	82.2
270	J-150	1,061.0	117: Zone - Central	7.00	1,249.6	81.6
271	J-151	1,063.0	117: Zone - Central	8.40	1,250.1	80.9
272	J-152	1,080.0	117: Zone - Central	7.70	1,250.4	73.7
273	J-153	1,080.0	117: Zone - Central	10.50	1,249.6	73.4
274	J-154	1,082.0	117: Zone - Central	9.10	1,249.1	72.3
275	J-155	1,079.0	117: Zone - Central	6.30	1,248.9	73.5
276	J-156	1,076.0	117: Zone - Central	0.00	1,248.7	74.7
277	J-157	1,074.0	117: Zone - Central	20.30	1,248.7	75.6
278	J-158	1,067.0	117: Zone - Central	10.50	1,248.4	78.5
279	J-159	1,062.0	117: Zone - Central	11.20	1,248.3	80.6
280	J-160	1,052.0	117: Zone - Central	11.90	1,248.2	84.9
281	J-161	1,057.0	117: Zone - Central	9.80	1,248.0	82.6
282	J-162	1,062.0	117: Zone - Central	12.60	1,247.7	80.3
283	J-163	1,042.0	117: Zone - Central	10.50	1,247.6	89.0
284	J-164	1,035.0	117: Zone - Central	6.30	1,247.4	91.9
285	J-165	1,042.0	117: Zone - Central	8.40	1,247.4	88.9
286	J-166	1,048.0	117: Zone - Central	11.90	1,248.0	86.5
287	J-167	1,060.0	117: Zone - Central	11.90	1,248.9	81.7
288	J-168	1,052.0	117: Zone - Central	108.50	1,247.1	84.4
289	J-169	1,068.0	117: Zone - Central	7.00	1,248.6	78.1
290	J-170	1,058.0	117: Zone - Central	5.60	1,248.7	82.5
291	J-171	1,053.0	117: Zone - Central	8.40	1,249.0	84.8
292	J-172	1,028.0	117: Zone - Central	0.00	1,249.8	96.0
293	J-173	1,022.0	117: Zone - Central	0.00	1,250.0	98.7
294	J-174	1,014.0	117: Zone - Central	0.00	1,250.1	102.2
295	J-175	1,004.0	117: Zone - Central	0.00	1,251.0	106.9
296	J-176	1,096.0	117: Zone - Central	20.30	1,249.1	66.2
297	J-177	1,082.0	117: Zone - Central	10.50	1,248.8	72.2
298	J-178	1,080.0	117: Zone - Central	20.30	1,248.8	73.0
299	J-179	1,002.0	117: Zone - Central	18.20	1,248.7	106.7
300	J-180	1,008.0	117: Zone - Central	11.20	1,248.7	104.1
301	J-181	1,068.0	117: Zone - Central	16.10	1,248.7	78.2
302	J-182	1,107.0	117: Zone - Central	11.90	1,248.8	61.3
303	J-183	1,060.0	117: Zone - Central	12.60	1,248.7	81.6
304	J-184	1,068.0	117: Zone - Central	16.10	1,248.7	78.2
305	J-185	1,012.0	117: Zone - Central	16.80	1,248.7	102.4
306	J-186	1,015.0	117: Zone - Central	14.00	1,248.7	101.1
307	J-187	1,052.0	117: Zone - Central	12.60	1,248.8	85.2
308	J-188	1,071.0	117: Zone - Central	10.50	1,248.6	76.8
309	J-189	1,067.0	117: Zone - Central	9.80	1,248.4	78.5
310	J-190	1,060.0	117: Zone - Central	9.80	1,248.3	81.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
311	J-191	1,086.0	117: Zone - Central	163.10	1,246.2	69.3
312	J-192	1,045.0	117: Zone - Central	0.00	1,247.2	87.5
313	J-193	1,082.0	117: Zone - Central	15.40	1,245.2	70.6
314	J-194	1,084.0	117: Zone - Central	58.80	1,245.1	69.7
315	J-196	1,092.0	117: Zone - Central	49.70	1,245.1	66.2
316	J-198	1,095.0	117: Zone - Central	21.70	1,245.1	64.9
317	J-199	1,085.0	117: Zone - Central	23.10	1,245.1	69.3
318	J-200	1,082.0	117: Zone - Central	21.70	1,245.2	70.6
319	J-201	1,082.0	117: Zone - Central	18.90	1,245.4	70.7
320	J-202	1,082.0	117: Zone - Central	19.60	1,245.7	70.8
321	J-204	1,082.0	117: Zone - Central	102.20	1,246.2	71.0
322	J-205	1,042.0	117: Zone - Central	2.10	1,246.8	88.6
323	J-206	1,066.0	117: Zone - Central	15.40	1,244.5	77.2
324	J-207	1,080.0	117: Zone - Central	207.20	1,243.2	70.6
325	J-208	1,058.0	117: Zone - Central	17.50	1,246.4	81.5
326	J-209	1,036.0	117: Zone - Central	0.00	1,247.2	91.4
327	J-210	1,024.0	117: Zone - Central	0.00	1,247.2	96.6
328	J-229	1,074.0	117: Zone - Central	20.30	1,246.3	74.5
329	J-230	1,057.0	117: Zone - Central	0.00	1,246.4	82.0
330	J-231	1,078.0	117: Zone - Central	81.20	1,246.6	73.0
331	J-232	1,068.0	117: Zone - Central	11.20	1,246.7	77.3
332	J-233	1,030.0	117: Zone - Central	102.90	1,247.6	94.2
333	J-234	966.0	117: Zone - Central	0.00	1,248.5	122.2
334	J-235	954.0	117: Zone - Central	0.00	1,249.0	127.6
335	J-236	1,004.0	117: Zone - Central	0.00	1,249.5	106.2
336	J-237	1,046.0	117: Zone - Central	2.10	1,245.8	86.4
337	J-238	1,020.0	117: Zone - Central	0.00	1,250.1	99.6
338	J-239	1,052.0	117: Zone - Central	4.20	1,247.1	84.4
339	J-240	1,052.0	117: Zone - Central	3.50	1,247.0	84.4
340	J-241	1,060.0	117: Zone - Central	0.00	1,247.0	80.9
341	J-242	1,068.0	117: Zone - Central	8.40	1,247.0	77.4
342	J-243	1,076.0	117: Zone - Central	8.40	1,247.0	74.0
343	J-245	1,080.0	117: Zone - Central	39.20	1,246.8	72.2
344	J-246	1,068.0	117: Zone - Central	20.30	1,247.0	77.4
345	J-247	1,062.0	117: Zone - Central	7.00	1,247.0	80.0
346	J-248	1,080.0	117: Zone - Central	18.90	1,247.2	72.3
347	J-249	1,088.0	117: Zone - Central	5.60	1,246.6	68.6
348	J-250	1,090.0	117: Zone - Central	4.20	1,246.2	67.6
349	J-251	1,091.0	117: Zone - Central	2.80	1,246.0	67.0
350	J-252	1,088.0	117: Zone - Central	2.80	1,245.9	68.3
351	J-253	1,083.0	117: Zone - Central	7.00	1,245.7	70.4
352	J-254	1,088.0	117: Zone - Central	3.50	1,245.5	68.1
353	J-255	1,092.0	117: Zone - Central	5.60	1,245.2	66.3
354	J-256	1,100.0	117: Zone - Central	5.60	1,243.8	62.2
355	J-257	1,110.0	117: Zone - Central	5.60	1,242.4	57.3
356	J-258	1,096.0	117: Zone - Central	14.00	1,239.8	62.2
357	J-259	1,103.0	117: Zone - Central	14.00	1,238.7	58.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
358	J-260	1,095.0	117: Zone - Central	3.50	1,245.6	65.2
359	J-261	1,105.0	117: Zone - Central	2.10	1,245.4	60.8
360	J-262	1,102.0	117: Zone - Central	32.90	1,245.4	62.1
361	J-263	1,104.0	117: Zone - Central	27.30	1,245.0	61.0
362	J-264	1,102.0	117: Zone - Central	19.60	1,244.5	61.6
363	J-265	1,100.0	117: Zone - Central	10.50	1,243.9	62.3
364	J-266	1,100.0	117: Zone - Central	14.70	1,244.8	62.6
365	J-267	1,096.0	117: Zone - Central	14.00	1,244.9	64.4
366	J-269	1,097.0	117: Zone - Central	15.40	1,245.0	64.0
367	J-270	1,094.0	117: Zone - Central	14.00	1,245.2	65.4
368	J-271	1,098.0	117: Zone - Central	8.40	1,244.9	63.6
369	J-272	1,113.0	117: Zone - Central	8.40	1,242.4	56.0
370	J-273	1,108.0	117: Zone - Central	14.00	1,242.5	58.2
371	J-274	1,115.0	117: Zone - Central	7.00	1,242.7	55.3
372	J-275	1,110.0	117: Zone - Central	9.80	1,243.3	57.7
373	J-276	1,104.0	117: Zone - Central	23.10	1,243.4	60.3
374	J-277	1,086.0	117: Zone - Central	7.00	1,243.9	68.3
375	J-278	1,082.0	117: Zone - Central	0.00	1,245.0	70.5
376	J-279	1,104.0	117: Zone - Central	3.50	1,244.5	60.8
377	J-280	1,106.0	117: Zone - Central	5.60	1,228.3	52.9
378	J-281	1,110.0	117: Zone - Central	2.80	1,237.5	55.1
379	J-283	1,114.0	117: Zone - Central	0.00	1,237.6	53.5
380	J-284	1,094.0	117: Zone - Central	4.20	1,237.7	62.2
381	J-285	1,084.0	117: Zone - Central	7.00	1,241.9	68.3
382	J-286	1,096.0	117: Zone - Central	0.70	1,238.9	61.8
383	J-287	1,118.0	117: Zone - Central	14.00	1,238.9	52.3
384	J-288	1,076.0	117: Zone - Central	11.90	1,243.2	72.3
385	J-289	1,090.0	117: Zone - Central	8.40	1,244.8	67.0
386	J-290	1,096.0	117: Zone - Central	5.60	1,244.9	64.4
387	J-291	1,093.0	117: Zone - Central	42.00	1,239.7	63.4
388	J-292	1,102.0	117: Zone - Central	8.40	1,246.2	62.4
389	J-293	1,120.0	117: Zone - Central	35.70	1,247.9	55.3
390	J-294	1,142.0	117: Zone - Central	32.20	1,253.2	48.1
391	J-295	1,156.0	117: Zone - Central	11.20	1,254.2	42.5
392	J-297	1,128.0	117: Zone - Central	16.10	1,253.6	54.3
393	J-298	1,120.0	117: Zone - Central	14.70	1,251.8	57.0
394	J-299	1,108.0	117: Zone - Central	32.20	1,250.8	61.8
395	J-300	1,108.0	117: Zone - Central	28.00	1,250.2	61.5
396	J-302	1,104.0	117: Zone - Central	9.80	1,249.6	63.0
397	J-303	1,084.0	117: Zone - Central	16.10	1,248.5	71.2
398	J-304	1,080.0	117: Zone - Central	12.60	1,248.5	72.9
399	J-305	1,086.0	117: Zone - Central	2.80	1,248.9	70.5
400	J-306	1,088.0	117: Zone - Central	8.40	1,248.9	69.6
401	J-307	1,092.0	117: Zone - Central	8.40	1,248.6	67.8
402	J-308	1,084.0	117: Zone - Central	11.90	1,247.4	70.7
403	J-309	1,092.0	117: Zone - Central	9.10	1,246.7	66.9
404	J-310	1,090.0	117: Zone - Central	9.10	1,246.0	67.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
405	J-312	1,088.0	117: Zone - Central	6.30	1,246.8	68.7
406	J-313	1,084.0	117: Zone - Central	17.50	1,247.5	70.8
407	J-314	1,082.0	117: Zone - Central	14.00	1,247.6	71.6
408	J-315	1,077.0	117: Zone - Central	0.00	1,248.5	74.2
409	J-317	1,086.0	117: Zone - Central	16.10	1,249.5	70.7
410	J-318	1,088.0	117: Zone - Central	14.70	1,249.5	69.9
411	J-320	1,105.0	117: Zone - Central	11.90	1,248.6	62.1
412	J-321	1,096.0	117: Zone - Central	16.80	1,249.8	66.5
413	J-322	1,160.0	117: Zone - Central	4.20	1,257.4	42.1
414	J-323	1,108.0	117: Zone - Central	9.80	1,246.0	59.7
415	J-324	1,152.0	117: Zone - Central	25.90	1,251.9	43.2
416	J-325	1,173.0	117: Zone - Central	11.90	1,251.7	34.0
417	J-326	1,153.0	117: Zone - Central	32.20	1,250.0	42.0
418	J-327	1,123.0	117: Zone - Central	21.00	1,246.3	53.4
419	J-328	1,114.0	117: Zone - Central	33.60	1,246.0	57.1
420	J-329	1,100.0	117: Zone - Central	8.40	1,245.2	62.8
421	J-330	1,096.0	117: Zone - Central	23.80	1,245.2	64.6
422	J-331	1,086.0	117: Zone - Central	24.50	1,243.4	68.1
423	J-332	1,100.0	117: Zone - Central	19.60	1,244.1	62.3
424	J-333	1,120.0	117: Zone - Central	28.00	1,243.3	53.3
425	J-334	1,142.0	117: Zone - Central	14.00	1,242.7	43.6
426	J-335	1,124.0	117: Zone - Central	9.80	1,242.5	51.3
427	J-336	1,120.0	117: Zone - Central	14.70	1,242.4	52.9
428	J-337	1,128.0	117: Zone - Central	4.20	1,242.3	49.5
429	J-338	1,138.0	117: Zone - Central	5.60	1,242.3	45.1
430	J-339	1,124.0	117: Zone - Central	28.00	1,242.3	51.2
431	J-340	1,116.0	117: Zone - Central	12.60	1,242.1	54.6
432	J-341	1,110.0	117: Zone - Central	13.30	1,242.0	57.1
433	J-342	1,152.0	117: Zone - Central	9.80	1,297.4	62.9
434	J-343	1,148.0	117: Zone - Central	8.40	1,297.4	64.7
435	J-344	1,152.0	117: Zone - Central	2.80	1,297.4	62.9
436	J-345	1,180.0	120: Zone - MountainTop	4.20	1,297.4	50.8
437	J-346	1,170.0	120: Zone - MountainTop	6.30	1,297.4	55.1
438	J-347	1,162.0	120: Zone - MountainTop	3.50	1,297.4	58.6
439	J-348	1,152.0	120: Zone - MountainTop	4.90	1,297.4	62.9
440	J-349	1,140.0	120: Zone - MountainTop	5.60	1,297.4	68.1
441	J-350	1,162.0	120: Zone - MountainTop	5.60	1,297.4	58.6
442	J-351	1,200.0	120: Zone - MountainTop	5.60	1,297.4	42.2
443	J-352	1,184.0	120: Zone - MountainTop	2.80	1,297.4	49.1

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
444	J-353	1,190.0	120: Zone - MountainTop	2.10	1,297.4	46.5
445	J-354	1,244.0	120: Zone - MountainTop	1.40	1,379.4	58.6
446	J-356	1,172.0	117: Zone - Central	11.20	1,297.4	54.3
447	J-357	1,176.0	117: Zone - Central	6.30	1,297.5	52.5
793	J-358	1,152.0	120: Zone - MountainTop	15.40	1,297.4	62.9
448	J-359	1,195.0	120: Zone - MountainTop	17.50	1,380.3	80.2
449	J-360	1,242.0	120: Zone - MountainTop	12.60	1,380.4	59.9
450	J-361	1,235.0	120: Zone - MountainTop	12.60	1,380.7	63.1
451	J-362	1,260.0	120: Zone - MountainTop	11.20	1,382.2	52.9
452	J-363	1,254.0	120: Zone - MountainTop	11.20	1,381.1	55.0
453	J-364	1,256.0	120: Zone - MountainTop	12.60	1,382.2	54.6
454	J-365	1,260.0	120: Zone - MountainTop	18.20	1,380.8	52.3
455	J-366	1,262.0	120: Zone - MountainTop	11.20	1,380.7	51.4
456	J-367	1,262.0	120: Zone - MountainTop	16.80	1,380.7	51.3
457	J-368	1,258.0	120: Zone - MountainTop	12.60	1,380.7	53.1
458	J-369	1,274.0	120: Zone - MountainTop	21.00	1,381.7	46.6
459	J-370	1,278.0	120: Zone - MountainTop	18.20	1,382.1	45.0
460	J-371	1,272.0	120: Zone - MountainTop	7.00	1,381.7	47.5
461	J-372	1,270.0	120: Zone - MountainTop	25.20	1,380.7	47.9
462	J-373	1,251.0	120: Zone - MountainTop	4.20	1,380.4	56.0
463	J-374	1,243.0	120: Zone - MountainTop	8.40	1,379.9	59.2
464	J-375	1,242.0	120: Zone - MountainTop	8.40	1,379.8	59.6
465	J-376	1,278.0	120: Zone - MountainTop	17.50	1,383.1	45.5
466	J-377	1,283.0	120: Zone - MountainTop	18.20	1,382.7	43.2
467	J-378	1,285.0	120: Zone - MountainTop	11.90	1,382.6	42.2
468	J-379	1,252.0	120: Zone - MountainTop	11.20	1,382.5	56.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
469	J-380	1,258.0	120: Zone - MountainTop	18.20	1,382.6	53.9
470	J-381	1,178.0	120: Zone - MountainTop	5.60	1,382.2	88.3
471	J-382	1,172.0	120: Zone - MountainTop	8.40	1,382.2	90.9
472	J-383	1,188.0	120: Zone - MountainTop	5.60	1,382.2	84.0
473	J-384	1,194.0	120: Zone - MountainTop	9.80	1,382.2	81.4
474	J-385	1,200.0	120: Zone - MountainTop	2.80	1,382.2	78.8
475	J-386	1,232.0	120: Zone - MountainTop	4.20	1,382.2	65.0
476	J-387	1,238.0	120: Zone - MountainTop	8.40	1,382.2	62.4
477	J-388	1,250.0	120: Zone - MountainTop	14.00	1,382.2	57.2
478	J-389	1,236.0	120: Zone - MountainTop	3.50	1,382.2	63.3
479	J-390	1,268.0	120: Zone - MountainTop	7.00	1,383.2	49.8
480	J-391	1,282.0	120: Zone - MountainTop	3.50	1,384.6	44.4
481	J-392	1,282.0	120: Zone - MountainTop	11.20	1,385.7	44.9
482	J-393	1,273.0	120: Zone - MountainTop	5.60	1,386.3	49.0
792	J-394	1,225.0	120: Zone - MountainTop	12.60	1,379.4	66.8
483	J-395	1,250.0	120: Zone - MountainTop	12.60	1,386.3	59.0
795	J-396	1,273.0	120: Zone - MountainTop	0.00	1,386.3	49.0
484	J-397	1,285.0	120: Zone - MountainTop	3.50	1,384.6	43.1
485	J-398	1,270.0	120: Zone - MountainTop	2.10	1,384.6	49.6
486	J-400	1,129.0	117: Zone - Central	9.80	1,384.6	110.6
487	J-401	1,100.0	117: Zone - Central	0.00	1,235.7	58.7
488	J-402	1,140.0	117: Zone - Central	7.00	1,235.7	41.4
490	J-405	1,102.0	117: Zone - Central	10.50	1,239.0	59.3
491	J-406	1,094.0	117: Zone - Central	0.00	1,238.2	62.4
492	J-407	1,096.0	117: Zone - Central	3.50	1,238.1	61.5
493	J-408	1,118.0	117: Zone - Central	0.00	1,235.9	51.0
494	J-409	1,076.0	117: Zone - Central	0.00	1,235.4	68.9
495	J-410	1,105.0	117: Zone - Central	0.00	1,235.2	56.3
496	J-411	1,136.0	117: Zone - Central	163.10	1,235.0	42.8
497	J-412	1,110.0	117: Zone - Central	3.50	1,235.2	54.2

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
498	J-413	1,085.0	117: Zone - Central	21.00	1,234.8	64.8
499	J-414	1,068.0	117: Zone - Central	102.90	1,234.1	71.9
500	J-415	1,108.0	117: Zone - Central	7.00	1,234.5	54.7
501	J-416	1,086.0	117: Zone - Central	11.20	1,232.9	63.6
502	J-417	1,067.0	117: Zone - Central	8.40	1,232.7	71.7
503	J-418	1,054.0	117: Zone - Central	22.40	1,232.6	77.3
504	J-419	1,076.0	117: Zone - Central	14.00	1,232.5	67.7
505	J-420	1,046.0	117: Zone - Central	26.60	1,232.5	80.7
506	J-421	1,042.0	117: Zone - Central	16.80	1,232.6	82.4
507	J-422	1,036.0	117: Zone - Central	11.20	1,232.5	85.0
508	J-423	1,064.0	117: Zone - Central	6.30	1,232.6	73.0
509	J-424	1,067.0	117: Zone - Central	8.40	1,232.7	71.7
510	J-425	1,066.0	117: Zone - Central	8.40	1,232.6	72.1
511	J-426	1,056.0	117: Zone - Central	7.70	1,232.6	76.4
512	J-427	1,063.0	117: Zone - Central	3.50	1,232.6	73.4
513	J-428	1,058.0	117: Zone - Central	3.50	1,232.7	75.6
514	J-429	1,042.0	117: Zone - Central	4.20	1,232.7	82.5
515	J-430	1,083.0	117: Zone - Central	10.50	1,232.7	64.8
516	J-431	1,081.0	117: Zone - Central	8.40	1,232.6	65.6
517	J-432	1,074.0	117: Zone - Central	7.00	1,232.6	68.6
518	J-433	1,076.0	117: Zone - Central	16.10	1,232.6	67.8
519	J-434	1,070.0	117: Zone - Central	3.50	1,232.6	70.4
520	J-435	1,063.0	117: Zone - Central	10.50	1,232.7	73.4
521	J-436	1,052.0	117: Zone - Central	3.50	1,232.8	78.2
522	J-437	1,062.0	117: Zone - Central	3.50	1,232.7	73.8
523	J-438	1,092.0	117: Zone - Central	9.80	1,232.6	60.9
524	J-439	1,090.0	117: Zone - Central	7.00	1,232.6	61.7
525	J-440	1,110.0	117: Zone - Central	7.00	1,232.6	53.0
526	J-441	1,100.0	117: Zone - Central	8.40	1,232.6	57.4
527	J-442	1,090.0	117: Zone - Central	8.40	1,232.6	61.7
528	J-443	1,110.0	117: Zone - Central	7.00	1,232.7	53.1
529	J-444	1,072.0	117: Zone - Central	8.40	1,232.6	69.5
530	J-445	1,064.0	117: Zone - Central	7.00	1,232.6	73.0
531	J-446	990.0	117: Zone - Central	0.00	1,232.7	105.0
532	J-447	1,046.0	117: Zone - Central	2.80	1,232.7	80.8
533	J-448	1,042.0	117: Zone - Central	0.00	1,232.7	82.5
534	J-449	1,048.0	117: Zone - Central	70.00	1,232.9	80.0
535	J-450	1,040.0	117: Zone - Central	162.40	1,230.2	82.3
536	J-451	1,032.0	117: Zone - Central	0.00	1,230.5	85.9
537	J-452	1,012.0	117: Zone - Central	45.50	1,231.6	95.0
538	J-453	1,020.0	117: Zone - Central	88.90	1,232.3	91.9
539	J-454	1,048.0	117: Zone - Central	0.00	1,230.5	79.0
540	J-455	1,014.0	117: Zone - Central	17.50	1,231.5	94.1
541	J-456	1,030.0	117: Zone - Central	14.00	1,231.5	87.2
542	J-457	1,030.0	117: Zone - Central	14.00	1,231.5	87.2
543	J-458	1,060.0	117: Zone - Central	19.60	1,231.6	74.2
544	J-459	1,050.0	117: Zone - Central	28.00	1,231.5	78.5

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
545	J-460	1,096.0	117: Zone - Central	21.00	1,231.5	58.6
546	J-461	1,066.0	117: Zone - Central	14.70	1,231.5	71.6
547	J-462	1,078.0	117: Zone - Central	12.60	1,231.5	66.4
548	J-463	1,060.0	117: Zone - Central	5.60	1,232.6	74.7
549	J-464	1,070.0	117: Zone - Central	4.20	1,232.6	70.4
550	J-465	1,074.0	117: Zone - Central	5.60	1,232.7	68.6
551	J-466	1,080.0	117: Zone - Central	7.00	1,232.7	66.1
552	J-467	1,084.0	117: Zone - Central	0.00	1,232.7	64.3
553	J-468	1,115.0	117: Zone - Central	8.40	1,232.6	50.9
554	J-469	1,068.0	117: Zone - Central	14.00	1,232.6	71.2
555	J-470	1,044.0	117: Zone - Central	21.70	1,232.6	81.6
556	J-471	1,048.0	117: Zone - Central	9.10	1,232.6	79.9
557	J-472	1,056.0	117: Zone - Central	5.60	1,232.6	76.4
558	J-473	1,060.0	117: Zone - Central	4.90	1,232.7	74.7
559	J-474	1,062.0	117: Zone - Central	7.70	1,232.8	73.9
560	J-475	1,050.0	117: Zone - Central	9.80	1,232.2	78.8
561	J-476	1,050.0	117: Zone - Central	9.10	1,232.3	78.9
562	J-477	1,050.0	117: Zone - Central	9.80	1,232.4	78.9
563	J-478	1,052.0	117: Zone - Central	6.30	1,232.6	78.1
564	J-479	1,053.0	117: Zone - Central	7.00	1,232.7	77.7
565	J-480	1,054.0	117: Zone - Central	10.50	1,232.8	77.4
566	J-481	1,058.0	117: Zone - Central	15.40	1,233.0	75.7
567	J-482	1,060.0	117: Zone - Central	15.40	1,233.1	74.9
568	J-483	1,082.0	117: Zone - Central	5.60	1,232.6	65.1
569	J-484	1,120.0	117: Zone - Central	2.10	1,232.5	48.7
570	J-485	1,124.0	117: Zone - Central	7.00	1,232.4	46.9
571	J-486	1,124.0	117: Zone - Central	6.30	1,232.3	46.9
572	J-487	1,138.0	117: Zone - Central	2.80	1,232.3	40.8
573	J-488	1,093.0	117: Zone - Central	8.40	1,232.7	60.4
574	J-489	1,084.0	117: Zone - Central	9.80	1,232.8	64.4
575	J-490	1,080.0	117: Zone - Central	13.30	1,233.0	66.2
576	J-491	1,090.0	117: Zone - Central	14.00	1,233.3	62.0
577	J-492	1,092.0	117: Zone - Central	14.00	1,233.9	61.4
578	J-493	1,094.0	117: Zone - Central	11.20	1,234.8	60.9
579	J-494	1,096.0	117: Zone - Central	8.40	1,235.8	60.5
580	J-495	1,100.0	117: Zone - Central	9.10	1,237.0	59.3
581	J-496	1,062.0	117: Zone - Central	15.40	1,233.7	74.3
582	J-497	1,066.0	117: Zone - Central	6.30	1,234.2	72.8
583	J-498	1,072.0	117: Zone - Central	10.50	1,234.9	70.5
584	J-499	1,078.0	117: Zone - Central	11.20	1,235.7	68.2
585	J-500	1,083.0	117: Zone - Central	11.90	1,236.7	66.5
586	J-501	1,090.0	117: Zone - Central	9.10	1,237.3	63.7
587	J-502	1,100.0	117: Zone - Central	21.00	1,237.3	59.4
588	J-504	1,107.0	117: Zone - Central	17.50	1,237.4	56.4
589	J-505	1,115.0	117: Zone - Central	16.10	1,237.5	53.0
590	J-506	1,127.0	117: Zone - Central	7.00	1,237.6	47.8
591	J-507	1,128.0	117: Zone - Central	7.70	1,237.6	47.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
592	J-508	1,118.0	117: Zone - Central	4.90	1,237.6	51.7
593	J-509	1,140.0	117: Zone - Central	14.70	1,237.6	42.2
594	J-510	1,160.0	117: Zone - Central	5.60	1,237.6	33.6
595	J-511	1,132.0	117: Zone - Central	0.00	1,238.1	45.9
597	J-515	1,100.0	117: Zone - Central	0.00	1,227.1	55.0
598	J-517	1,216.0	119: Zone - Rattlesnake	8.40	1,343.8	55.3
599	J-518	1,160.0	119: Zone - Rattlesnake	9.80	1,343.3	79.3
600	J-519	1,150.0	119: Zone - Rattlesnake	5.60	1,343.0	83.5
601	J-520	1,155.0	119: Zone - Rattlesnake	6.30	1,342.6	81.2
602	J-521	1,154.0	119: Zone - Rattlesnake	9.80	1,342.4	81.5
603	J-522	1,148.0	119: Zone - Rattlesnake	9.80	1,342.2	84.0
604	J-523	1,142.0	119: Zone - Rattlesnake	14.00	1,342.1	86.6
605	J-524	1,150.0	119: Zone - Rattlesnake	14.00	1,342.0	83.1
606	J-525	1,152.0	119: Zone - Rattlesnake	13.30	1,341.9	82.2
607	J-526	1,148.0	119: Zone - Rattlesnake	13.30	1,341.9	83.9
608	J-527	1,141.0	119: Zone - Rattlesnake	7.00	1,341.8	86.9
609	J-528	1,140.0	119: Zone - Rattlesnake	10.50	1,341.8	87.3
610	J-529	1,139.0	119: Zone - Rattlesnake	7.70	1,341.7	87.7
611	J-530	1,132.0	119: Zone - Rattlesnake	6.30	1,342.2	90.9
612	J-531	1,125.0	119: Zone - Rattlesnake	6.30	1,342.1	93.9
613	J-532	1,122.0	119: Zone - Rattlesnake	5.60	1,342.0	95.2
614	J-533	1,115.0	119: Zone - Rattlesnake	8.40	1,342.0	98.2
615	J-534	1,110.0	119: Zone - Rattlesnake	9.80	1,341.9	100.3
616	J-535	1,104.0	117: Zone - Central	11.20	1,244.1	60.6
617	J-536	1,125.0	117: Zone - Central	18.20	1,243.3	51.2
618	J-537	1,113.0	117: Zone - Central	14.70	1,243.5	56.4
619	J-538	1,206.0	119: Zone - Rattlesnake	9.10	1,343.4	59.4
620	J-539	1,180.0	119: Zone - Rattlesnake	9.80	1,343.2	70.6

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
621	J-540	1,160.0	119: Zone - Rattlesnake	6.30	1,343.1	79.2
622	J-541	1,150.0	119: Zone - Rattlesnake	7.00	1,343.1	83.5
623	J-542	1,140.0	119: Zone - Rattlesnake	7.00	1,343.1	87.9
624	J-543	1,130.0	119: Zone - Rattlesnake	5.60	1,343.1	92.2
625	J-544	1,120.0	119: Zone - Rattlesnake	5.60	1,343.1	96.5
626	J-545	1,114.0	117: Zone - Central	7.00	1,245.0	56.7
627	J-546	1,142.0	119: Zone - Rattlesnake	12.60	1,343.1	87.0
628	J-547	1,138.0	119: Zone - Rattlesnake	8.40	1,343.1	88.7
629	J-548	1,132.0	119: Zone - Rattlesnake	9.10	1,343.1	91.3
630	J-549	1,128.0	119: Zone - Rattlesnake	7.70	1,343.1	93.1
631	J-550	1,119.0	119: Zone - Rattlesnake	5.60	1,343.1	96.9
632	J-551	1,114.0	119: Zone - Rattlesnake	7.00	1,343.1	99.1
633	J-552	1,110.0	119: Zone - Rattlesnake	4.20	1,343.1	100.8
634	J-553	1,104.0	117: Zone - Central	7.00	1,245.9	61.4
635	J-554	1,127.0	119: Zone - Rattlesnake	7.00	1,344.4	94.1
636	J-555	1,144.0	119: Zone - Rattlesnake	9.80	1,344.4	86.7
637	J-556	1,192.0	119: Zone - Rattlesnake	8.40	1,344.5	66.0
638	J-557	1,202.0	119: Zone - Rattlesnake	4.90	1,344.7	61.7
639	J-558	1,204.0	119: Zone - Rattlesnake	5.60	1,344.8	60.9
640	J-559	1,196.0	119: Zone - Rattlesnake	9.10	1,344.6	64.3
641	J-560	1,192.0	119: Zone - Rattlesnake	9.80	1,344.4	65.9
642	J-561	1,194.0	119: Zone - Rattlesnake	9.80	1,344.4	65.1
643	J-562	1,198.0	119: Zone - Rattlesnake	14.00	1,344.4	63.3
644	J-563	1,128.0	119: Zone - Rattlesnake	16.10	1,344.4	93.6
645	J-564	1,136.0	119: Zone - Rattlesnake	7.70	1,344.4	90.2
646	J-565	1,189.0	119: Zone - Rattlesnake	7.00	1,344.4	67.2

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
647	J-566	1,150.0	119: Zone - Rattlesnake	5.60	1,344.4	84.1
648	J-567	1,140.0	119: Zone - Rattlesnake	9.80	1,344.3	88.4
649	J-568	1,118.0	119: Zone - Rattlesnake	11.90	1,344.3	97.9
650	J-569	1,086.0	119: Zone - Rattlesnake	2.80	1,344.3	111.8
651	J-570	1,082.0	117: Zone - Central	2.10	1,234.9	66.2
652	J-571	1,142.0	119: Zone - Rattlesnake	7.00	1,344.3	87.5
653	J-572	1,132.0	117: Zone - Central	16.80	1,235.0	44.6
654	J-573	1,110.0	117: Zone - Central	15.40	1,235.0	54.1
655	J-574	1,096.0	117: Zone - Central	16.10	1,235.2	60.2
656	J-575	1,083.0	117: Zone - Central	8.40	1,235.5	66.0
657	J-576	1,060.0	117: Zone - Central	7.00	1,238.0	77.0
658	J-577	1,052.0	117: Zone - Central	4.20	1,241.2	81.8
659	J-578	1,070.0	117: Zone - Central	3.50	1,234.9	71.3
660	J-579	1,058.0	117: Zone - Central	7.70	1,234.8	76.5
661	J-580	1,046.0	117: Zone - Central	7.70	1,234.5	81.6
662	J-581	1,042.0	117: Zone - Central	114.80	1,234.1	83.1
663	J-582	1,052.0	117: Zone - Central	14.70	1,235.0	79.2
664	J-583	1,058.0	117: Zone - Central	16.10	1,235.4	76.7
665	J-584	1,060.0	117: Zone - Central	11.20	1,236.4	76.3
666	J-585	1,076.0	117: Zone - Central	11.90	1,235.0	68.8
667	J-586	1,075.0	117: Zone - Central	21.00	1,235.1	69.3
668	J-587	1,080.0	117: Zone - Central	11.90	1,235.2	67.2
669	J-588	1,088.0	117: Zone - Central	16.80	1,235.0	63.6
670	J-589	1,036.0	117: Zone - Central	8.40	1,238.8	87.8
671	J-590	1,038.0	117: Zone - Central	28.70	1,238.8	86.9
672	J-591	1,028.0	117: Zone - Central	0.00	1,241.1	92.2
673	J-592	1,030.0	117: Zone - Central	12.60	1,241.1	91.3
674	J-594	1,028.0	117: Zone - Central	2.10	1,250.1	96.1
675	J-595	1,046.0	117: Zone - Central	1.40	1,253.0	89.5
676	J-596	1,018.0	117: Zone - Central	2.80	1,245.5	98.4
677	J-597	1,042.0	117: Zone - Central	4.20	1,234.0	83.1
678	J-598	1,056.0	117: Zone - Central	14.70	1,234.0	77.0
679	J-599	1,060.0	117: Zone - Central	11.90	1,233.7	75.2
680	J-600	1,060.0	117: Zone - Central	11.90	1,233.5	75.1
681	J-601	1,050.0	117: Zone - Central	9.10	1,233.8	79.5
682	J-602	1,055.0	117: Zone - Central	4.20	1,233.8	77.3
683	J-603	1,072.0	117: Zone - Central	15.40	1,233.3	69.8
684	J-604	1,070.0	117: Zone - Central	14.00	1,233.1	70.5
685	J-605	1,062.0	117: Zone - Central	7.70	1,232.9	73.9
686	J-606	1,052.0	117: Zone - Central	7.70	1,232.8	78.2
687	J-607	1,050.0	117: Zone - Central	2.80	1,232.7	79.1
688	J-608	1,060.0	117: Zone - Central	2.10	1,233.3	75.0

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
689	J-609	1,070.0	117: Zone - Central	7.70	1,233.3	70.7
690	J-610	1,070.0	117: Zone - Central	7.00	1,233.1	70.5
691	J-611	1,078.0	117: Zone - Central	10.50	1,233.4	67.2
692	J-612	1,084.0	117: Zone - Central	2.10	1,234.0	64.9
693	J-613	1,077.0	117: Zone - Central	4.20	1,232.9	67.5
694	J-614	1,100.0	117: Zone - Central	2.10	1,235.0	58.4
695	J-615	1,090.0	117: Zone - Central	10.50	1,235.0	62.7
696	J-616	1,084.0	117: Zone - Central	8.40	1,234.8	65.2
697	J-617	1,084.0	117: Zone - Central	7.70	1,233.8	64.8
698	J-618	1,084.0	117: Zone - Central	10.50	1,233.4	64.6
699	J-619	1,080.0	117: Zone - Central	9.10	1,233.0	66.2
700	J-620	1,096.0	117: Zone - Central	4.20	1,235.0	60.1
701	J-621	1,108.0	117: Zone - Central	4.90	1,235.3	55.1
702	J-622	1,102.0	117: Zone - Central	9.80	1,235.4	57.7
703	J-623	1,100.0	117: Zone - Central	0.00	1,235.9	58.8
704	J-624	1,102.0	117: Zone - Central	6.30	1,236.1	58.0
705	J-625	1,140.0	119: Zone - Rattlesnake	0.00	1,344.6	88.5
706	J-626	1,116.0	119: Zone - Rattlesnake	11.20	1,344.6	98.9
707	J-627	1,112.0	119: Zone - Rattlesnake	6.30	1,344.6	100.6
708	J-628	1,114.0	119: Zone - Rattlesnake	8.40	1,344.6	99.8
709	J-629	1,112.0	119: Zone - Rattlesnake	9.80	1,344.6	100.6
710	J-630	1,108.0	117: Zone - Central	7.70	1,243.4	58.6
711	J-631	1,100.0	117: Zone - Central	14.00	1,241.6	61.3
712	J-632	1,084.0	117: Zone - Central	39.90	1,241.8	68.3
713	J-633	1,126.0	117: Zone - Central	7.00	1,244.6	51.3
714	J-634	1,140.0	119: Zone - Rattlesnake	9.10	1,344.8	88.6
715	J-635	1,180.0	119: Zone - Rattlesnake	2.10	1,344.8	71.3
716	J-637	1,154.0	119: Zone - Rattlesnake	6.30	1,344.8	82.6
717	J-638	1,092.0	117: Zone - Central	6.30	1,244.3	65.9
718	J-639	1,100.0	117: Zone - Central	9.10	1,243.8	62.2
719	J-640	1,087.0	117: Zone - Central	10.50	1,242.7	67.4
720	J-641	1,098.0	117: Zone - Central	13.30	1,242.9	62.7
721	J-642	1,112.0	117: Zone - Central	9.10	1,243.0	56.7
722	J-643	1,118.0	117: Zone - Central	6.30	1,243.0	54.1
723	J-644	1,136.0	119: Zone - Rattlesnake	13.30	1,341.7	89.0
724	J-645	1,080.0	117: Zone - Central	17.50	1,231.6	65.6
777	J-646	1,097.0	117: Zone - Central	2.80	1,231.2	58.1
725	J-647	1,070.0	117: Zone - Central	140.70	1,230.4	69.4
726	J-648	1,050.0	117: Zone - Central	0.00	1,230.5	78.1

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
727	J-649	1,102.0	117: Zone - Central	9.80	1,242.9	61.0
728	J-650	1,116.0	119: Zone - Rattlesnake	17.50	1,341.6	97.6
729	J-651	1,105.0	117: Zone - Central	0.00	1,230.9	54.5
730	J-652	1,160.0	119: Zone - Rattlesnake	8.40	1,341.5	78.5
731	J-653	1,214.0	119: Zone - Rattlesnake	16.80	1,341.5	55.2
732	J-654	1,214.0	119: Zone - Rattlesnake	17.50	1,341.5	55.2
733	J-655	1,096.0	117: Zone - Central	22.40	1,230.7	58.3
734	J-656	1,077.0	117: Zone - Central	14.00	1,229.1	65.8
735	J-657	1,116.0	117: Zone - Central	6.30	1,230.9	49.7
736	J-659	1,100.0	117: Zone - Central	35.70	1,234.6	58.2
737	J-660	1,104.0	117: Zone - Central	0.00	1,245.9	61.4
738	J-662	1,270.0	120: Zone - MountainTop	7.00	1,386.3	50.3
739	J-663	1,272.0	120: Zone - MountainTop	4.20	1,386.2	49.4
740	J-664	1,272.0	120: Zone - MountainTop	4.20	1,386.2	49.4
741	J-665	1,283.0	120: Zone - MountainTop	8.40	1,386.2	44.7
742	J-666	1,288.0	120: Zone - MountainTop	7.70	1,386.2	42.5
743	J-667	1,278.0	120: Zone - MountainTop	115.50	1,386.3	46.8
744	J-668	1,258.0	120: Zone - MountainTop	5.60	1,386.3	55.5
745	J-669	1,132.0	117: Zone - Central	2.80	1,246.0	49.3
746	J-670	1,092.0	117: Zone - Central	2.10	1,246.0	66.6
747	J-671	1,095.0	117: Zone - Central	7.00	1,246.0	65.3
748	J-672	1,080.0	117: Zone - Central	0.00	1,246.0	71.8
749	J-673	1,100.0	117: Zone - Central	2.80	1,246.0	63.1
750	J-674	1,050.0	117: Zone - Central	75.60	1,246.0	84.8
751	J-675	1,276.0	120: Zone - MountainTop	22.40	1,382.7	46.2
752	J-676	1,246.0	120: Zone - MountainTop	16.80	1,380.5	58.2
753	J-677	1,254.0	120: Zone - MountainTop	86.10	1,380.3	54.6
754	J-679	1,132.0	117: Zone - Central	7.70	1,246.6	49.6
755	J-680	1,073.0	117: Zone - Central	93.80	1,246.0	74.8
756	J-681	1,078.0	117: Zone - Central	4.20	1,246.1	72.7
757	J-682	1,070.0	117: Zone - Central	2.10	1,246.1	76.2
758	J-683	1,083.0	117: Zone - Central	1.40	1,246.0	70.5
759	J-684	1,093.0	117: Zone - Central	3.50	1,246.0	66.2
760	J-685	1,112.0	117: Zone - Central	7.00	1,246.1	58.0

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
761	J-686	1,118.0	117: Zone - Central	11.20	1,246.1	55.4
762	J-687	1,107.0	117: Zone - Central	2.80	1,246.3	60.3
763	J-688	1,100.0	117: Zone - Central	4.20	1,246.1	63.2
764	J-689	1,088.0	117: Zone - Central	0.00	1,246.1	68.4
765	J-690	1,129.0	117: Zone - Central	98.00	1,246.0	50.6
766	J-691	1,114.0	117: Zone - Central	70.00	1,246.1	57.1
767	J-692	1,140.0	117: Zone - Central	2.80	1,257.0	50.6
768	J-693	1,136.0	117: Zone - Central	5.60	1,257.0	52.4
769	J-694	1,138.0	117: Zone - Central	39.20	1,257.0	51.5
770	J-696	1,177.0	117: Zone - Central	5.60	1,257.0	34.6
771	J-698	1,078.0	117: Zone - Central	4.90	1,233.8	67.4
772	J-700	1,100.0	117: Zone - Central	21.70	1,227.6	55.2
773	J-701	1,050.0	117: Zone - Central	34.30	1,230.5	78.1
779	J-703	1,230.0	120: Zone - MountainTop	1.40	1,379.3	64.6
797	J-704	950.0	117: Zone - Central	0.00	1,065.5	50.0
780	J-705	1,245.0	120: Zone - MountainTop	0.00	1,379.8	58.3
775	J-707	1,020.0	117: Zone - Central	0.00	1,249.4	99.2
776	J-708	1,198.0	119: Zone - Rattlesnake	7.00	1,344.8	63.5
781	J-714	1,080.0	117: Zone - Central	0.00	1,245.5	71.6
782	J-715	1,148.0	119: Zone - Rattlesnake	7.00	1,344.8	85.1
783	J-716	1,150.0	119: Zone - Rattlesnake	4.20	1,344.7	84.2
784	J-717	1,085.0	117: Zone - Central	7.00	1,245.4	69.4
785	J-718	1,055.0	117: Zone - Central	100.10	1,240.1	80.1
786	J-719	1,060.0	117: Zone - Central	43.40	1,244.8	79.9
787	J-720	1,060.0	117: Zone - Central	42.00	1,244.5	79.8
788	J-721	1,042.0	117: Zone - Central	59.50	1,244.4	87.6
789	J-722	1,072.0	117: Zone - Central	0.00	1,238.0	71.8
790	J-723	1,040.0	117: Zone - Central	15.40	1,240.6	86.8
791	J-724	1,050.0	117: Zone - Central	42.00	1,239.4	81.9
796	J-725	1,250.0	120: Zone - MountainTop	0.00	1,379.9	56.2
798	J-726	1,172.0	120: Zone - MountainTop	0.00	1,380.3	90.1
799	J-727	1,030.0	117: Zone - Central	0.00	1,246.0	93.4
800	J-728	1,070.0	117: Zone - Central	0.00	1,246.0	76.1
802	J-731	1,050.0	117: Zone - Central	0.00	1,246.8	85.2
803	J-732	1,100.0	117: Zone - Central	0.00	1,246.6	63.4
804	J-733	1,052.0	117: Zone - Central	0.00	1,247.3	84.5
805	J-736	1,120.0	117: Zone - Central	0.00	1,258.4	59.9
806	J-737	1,210.0	119: Zone - Rattlesnake	0.00	1,345.0	58.4
810	J-738	1,020.0	121: Zone - PS	0.00	1,065.5	19.7
807	J-739	1,114.0	117: Zone - Central	0.00	1,238.6	53.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
808	J-740	1,080.0	117: Zone - Central	0.00	1,244.6	71.2
794	J-1001	840.0	121: Zone - PS	0.00	1,065.5	97.6
778	J-1002	840.0	121: Zone - PS	0.00	1,064.0	96.9
774	J-3000	1,208.0	121: Zone - PS	0.00	1,344.9	59.2
489	J-4002	1,130.0	121: Zone - PS	0.00	1,238.5	46.9
1968	J-4007	1,150.0	<None>	0.00	1,211.2	26.5
1970	J-4008	1,150.0	<None>	0.00	1,209.5	25.8
1973	J-4009	1,130.0	<None>	0.00	1,230.9	43.7
1979	J-4010	1,150.0	<None>	0.00	1,230.9	35.0
1991	J-4012	1,150.0	<None>	0.00	1,238.5	38.3
1997	J-4013	1,150.0	<None>	0.00	1,238.5	38.3

EXHIBIT E-3

EXISTING CONDITIONS WATER MODEL
PEAK HOUR

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
124	J-1	1,030.0	121: Zone - PS	0.00	1,227.5	85.5
125	J-2	1,020.0	117: Zone - Central	0.00	1,227.5	89.8
126	J-3	1,040.0	117: Zone - Central	0.00	1,227.5	81.1
127	J-4	1,076.0	117: Zone - Central	0.00	1,233.6	68.2
128	J-5	1,075.0	117: Zone - Central	12.00	1,234.2	68.9
129	J-6	1,056.0	117: Zone - Central	22.50	1,228.2	74.5
130	J-7	1,050.0	117: Zone - Central	0.00	1,237.1	80.9
131	J-8	1,042.0	117: Zone - Central	13.50	1,239.5	85.4
132	J-9	1,120.0	117: Zone - Central	0.00	1,245.2	54.2
133	J-10	1,220.0	121: Zone - PS	0.00	1,253.1	14.3
134	J-11	1,072.0	117: Zone - Central	18.00	1,225.5	66.4
135	J-12	1,078.0	117: Zone - Central	0.00	1,224.3	63.3
136	J-13	1,070.0	117: Zone - Central	0.00	1,223.9	66.6
137	J-14	1,076.0	117: Zone - Central	0.00	1,222.7	63.5
138	J-15	1,108.0	117: Zone - Central	0.00	1,215.4	46.5
596	J-16	1,111.0	117: Zone - Central	0.00	1,214.0	44.6
139	J-17	1,069.0	117: Zone - Central	7.50	1,223.9	67.0
140	J-18	1,058.0	117: Zone - Central	0.00	1,223.4	71.6
141	J-19	1,058.0	117: Zone - Central	15.00	1,223.3	71.5
142	J-20	1,078.0	117: Zone - Central	30.00	1,223.2	62.8
143	J-21	1,070.0	117: Zone - Central	19.50	1,222.7	66.1
144	J-22	1,036.0	117: Zone - Central	18.00	1,222.6	80.7
145	J-23	1,036.0	117: Zone - Central	21.00	1,222.5	80.7
146	J-24	1,036.0	117: Zone - Central	13.50	1,222.5	80.7
147	J-25	1,032.0	117: Zone - Central	3.00	1,222.5	82.4
148	J-26	1,068.0	117: Zone - Central	15.00	1,222.6	66.9
149	J-27	1,072.0	117: Zone - Central	15.00	1,222.5	65.1
150	J-28	1,074.0	117: Zone - Central	13.50	1,222.5	64.3
151	J-29	1,054.0	117: Zone - Central	6.00	1,222.5	72.9
152	J-30	1,041.0	117: Zone - Central	16.50	1,222.6	78.6
153	J-31	1,031.0	117: Zone - Central	13.50	1,222.5	82.8
154	J-32	1,042.0	117: Zone - Central	12.00	1,222.5	78.1
155	J-33	1,048.0	117: Zone - Central	12.00	1,222.5	75.5
156	J-34	1,034.0	117: Zone - Central	9.00	1,222.5	81.5
157	J-35	1,038.0	117: Zone - Central	15.00	1,222.5	79.8
158	J-36	1,030.0	117: Zone - Central	0.00	1,222.3	83.2
159	J-37	1,042.0	117: Zone - Central	0.00	1,222.4	78.1
160	J-38	1,050.0	117: Zone - Central	0.00	1,222.4	74.6
161	J-39	1,027.0	117: Zone - Central	25.50	1,219.5	83.3
162	J-40	1,078.0	117: Zone - Central	19.50	1,225.5	63.8
163	J-41	1,076.0	117: Zone - Central	0.00	1,224.3	64.2
164	J-42	1,050.0	117: Zone - Central	22.50	1,225.5	75.9
165	J-43	1,055.0	117: Zone - Central	36.00	1,225.7	73.8
166	J-44	1,074.0	117: Zone - Central	30.00	1,226.0	65.7
167	J-45	1,070.0	117: Zone - Central	28.50	1,226.5	67.7
168	J-46	1,060.0	117: Zone - Central	15.00	1,226.0	71.8
169	J-47	1,067.0	117: Zone - Central	22.50	1,225.7	68.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
170	J-48	1,070.0	117: Zone - Central	36.00	1,225.8	67.4
171	J-49	1,074.0	117: Zone - Central	3.00	1,227.5	66.4
172	J-50	1,075.0	117: Zone - Central	12.00	1,228.8	66.5
173	J-51	1,073.0	117: Zone - Central	10.50	1,227.2	66.7
174	J-52	1,070.0	117: Zone - Central	16.50	1,226.8	67.8
175	J-53	1,077.0	117: Zone - Central	33.00	1,228.1	65.4
176	J-54	1,058.0	117: Zone - Central	33.00	1,222.9	71.3
177	J-55	1,054.0	117: Zone - Central	25.50	1,221.9	72.7
178	J-56	1,056.0	117: Zone - Central	0.00	1,221.4	71.5
179	J-57	1,074.0	117: Zone - Central	9.00	1,223.0	64.5
180	J-58	1,078.0	117: Zone - Central	25.50	1,221.3	62.0
181	J-59	1,081.0	117: Zone - Central	382.50	1,219.3	59.8
182	J-60	1,076.0	117: Zone - Central	18.00	1,219.1	61.9
183	J-61	1,064.0	117: Zone - Central	30.00	1,219.0	67.1
184	J-62	1,062.0	117: Zone - Central	6.00	1,218.8	67.8
185	J-63	1,062.0	117: Zone - Central	24.00	1,218.6	67.8
186	J-64	1,058.0	117: Zone - Central	40.50	1,218.5	69.4
187	J-65	1,030.0	117: Zone - Central	27.00	1,218.5	81.5
188	J-66	1,036.0	117: Zone - Central	30.00	1,218.5	79.0
189	J-67	1,048.0	117: Zone - Central	19.50	1,218.8	73.9
190	J-69	1,030.0	117: Zone - Central	43.50	1,219.4	81.9
191	J-70	1,044.0	117: Zone - Central	37.50	1,219.5	75.9
192	J-71	1,044.0	117: Zone - Central	19.50	1,219.6	76.0
193	J-72	1,063.0	117: Zone - Central	22.50	1,219.1	67.5
194	J-73	1,054.0	117: Zone - Central	27.00	1,219.3	71.5
195	J-74	1,076.0	117: Zone - Central	21.00	1,220.5	62.5
196	J-75	1,100.0	117: Zone - Central	18.00	1,220.5	52.1
197	J-76	1,066.0	117: Zone - Central	33.00	1,221.4	67.2
198	J-77	1,058.0	117: Zone - Central	24.00	1,223.0	71.4
199	J-78	1,050.0	117: Zone - Central	33.00	1,224.9	75.7
200	J-79	1,060.0	117: Zone - Central	24.00	1,226.8	72.2
201	J-80	1,064.0	117: Zone - Central	12.00	1,227.3	70.6
202	J-81	1,034.0	117: Zone - Central	30.00	1,226.6	83.3
203	J-82	1,032.0	117: Zone - Central	21.00	1,226.9	84.3
204	J-83	1,034.0	117: Zone - Central	24.00	1,227.4	83.7
205	J-84	1,023.0	117: Zone - Central	7.50	1,228.3	88.8
206	J-85	1,060.0	117: Zone - Central	18.00	1,227.1	72.3
207	J-86	1,046.0	117: Zone - Central	1.50	1,228.2	78.8
208	J-87	1,062.0	117: Zone - Central	9.00	1,236.7	75.6
209	J-88	1,062.0	117: Zone - Central	18.00	1,237.8	76.1
210	J-89	1,063.0	117: Zone - Central	6.00	1,235.8	74.7
211	J-90	1,066.0	117: Zone - Central	34.50	1,233.1	72.3
212	J-91	1,078.0	117: Zone - Central	13.50	1,231.8	66.6
213	J-92	1,079.0	117: Zone - Central	25.50	1,228.7	64.8
214	J-93	1,076.0	117: Zone - Central	18.00	1,228.2	65.9
215	J-94	1,078.0	117: Zone - Central	0.00	1,226.8	64.4
216	J-95	1,088.0	117: Zone - Central	7.50	1,237.6	64.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
217	J-96	1,085.0	117: Zone - Central	27.00	1,239.6	66.9
218	J-97	1,110.0	117: Zone - Central	45.00	1,242.9	57.5
219	J-99	1,096.0	117: Zone - Central	12.00	1,237.8	61.4
220	J-100	1,084.0	117: Zone - Central	0.00	1,236.2	65.8
221	J-101	1,081.0	117: Zone - Central	22.50	1,235.4	66.8
222	J-102	1,078.0	117: Zone - Central	39.00	1,233.8	67.4
223	J-103	1,084.0	117: Zone - Central	15.00	1,231.2	63.7
224	J-104	1,084.0	117: Zone - Central	7.50	1,230.7	63.5
225	J-105	1,084.0	117: Zone - Central	0.00	1,229.6	63.0
226	J-106	1,084.0	117: Zone - Central	7.50	1,228.7	62.6
227	J-107	1,086.0	117: Zone - Central	0.00	1,226.8	60.9
228	J-108	1,088.0	117: Zone - Central	6.00	1,226.6	60.0
229	J-109	1,090.0	117: Zone - Central	16.50	1,226.4	59.0
230	J-110	1,090.0	117: Zone - Central	33.00	1,226.3	59.0
231	J-111	1,088.0	117: Zone - Central	25.50	1,236.7	64.3
232	J-112	1,084.0	117: Zone - Central	15.00	1,237.0	66.2
233	J-113	1,072.0	117: Zone - Central	27.00	1,232.9	69.6
234	J-114	1,062.0	117: Zone - Central	21.00	1,232.1	73.6
235	J-115	1,058.0	117: Zone - Central	9.00	1,231.9	75.2
236	J-116	1,065.0	117: Zone - Central	6.00	1,231.8	72.2
237	J-117	1,072.0	117: Zone - Central	16.50	1,231.6	69.1
238	J-118	1,082.0	117: Zone - Central	27.00	1,231.3	64.6
239	J-119	1,058.0	117: Zone - Central	18.00	1,230.5	74.6
240	J-120	1,110.0	117: Zone - Central	12.00	1,230.0	51.9
241	J-121	1,036.0	117: Zone - Central	28.50	1,229.6	83.8
242	J-122	1,030.0	117: Zone - Central	34.50	1,229.6	86.4
243	J-123	1,068.0	117: Zone - Central	22.50	1,230.2	70.2
244	J-124	1,068.0	117: Zone - Central	7.50	1,231.9	70.9
245	J-125	1,070.0	117: Zone - Central	7.50	1,231.8	70.0
246	J-126	1,064.0	117: Zone - Central	9.00	1,230.6	72.1
247	J-127	1,078.0	117: Zone - Central	15.00	1,230.6	66.0
248	J-128	1,084.0	117: Zone - Central	18.00	1,228.9	62.7
249	J-129	1,083.0	117: Zone - Central	18.00	1,228.2	62.8
250	J-130	1,080.0	117: Zone - Central	0.00	1,228.0	64.0
251	J-131	1,081.0	117: Zone - Central	21.00	1,227.7	63.5
252	J-132	1,077.0	117: Zone - Central	7.50	1,231.0	66.6
253	J-133	1,078.0	117: Zone - Central	6.00	1,228.6	65.1
254	J-134	1,082.0	117: Zone - Central	30.00	1,227.6	63.0
255	J-135	1,088.0	117: Zone - Central	0.00	1,226.8	60.1
256	J-136	1,078.0	117: Zone - Central	13.50	1,227.7	64.8
257	J-137	1,088.0	117: Zone - Central	25.50	1,228.1	60.6
258	J-138	1,083.0	117: Zone - Central	19.50	1,231.7	64.3
259	J-139	1,082.0	117: Zone - Central	27.00	1,235.8	66.5
260	J-140	1,085.0	117: Zone - Central	12.00	1,235.6	65.2
261	J-141	1,076.0	117: Zone - Central	21.00	1,229.5	66.4
262	J-142	1,056.0	117: Zone - Central	13.50	1,229.6	75.1
263	J-143	1,046.0	117: Zone - Central	30.00	1,229.6	79.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
264	J-144	1,082.0	117: Zone - Central	12.00	1,230.7	64.3
265	J-145	1,040.0	117: Zone - Central	13.50	1,225.3	80.2
266	J-146	1,057.0	117: Zone - Central	31.50	1,230.5	75.1
267	J-147	1,072.0	117: Zone - Central	43.50	1,233.9	70.1
268	J-148	1,069.0	117: Zone - Central	22.50	1,234.9	71.8
269	J-149	1,059.0	117: Zone - Central	18.00	1,231.1	74.5
270	J-150	1,061.0	117: Zone - Central	15.00	1,232.6	74.2
271	J-151	1,063.0	117: Zone - Central	18.00	1,234.3	74.1
272	J-152	1,080.0	117: Zone - Central	16.50	1,235.1	67.1
273	J-153	1,080.0	117: Zone - Central	22.50	1,232.7	66.1
274	J-154	1,082.0	117: Zone - Central	19.50	1,231.2	64.6
275	J-155	1,079.0	117: Zone - Central	13.50	1,230.5	65.6
276	J-156	1,076.0	117: Zone - Central	0.00	1,229.8	66.5
277	J-157	1,074.0	117: Zone - Central	43.50	1,229.6	67.3
278	J-158	1,067.0	117: Zone - Central	22.50	1,228.9	70.1
279	J-159	1,062.0	117: Zone - Central	24.00	1,228.6	72.1
280	J-160	1,052.0	117: Zone - Central	25.50	1,228.0	76.1
281	J-161	1,057.0	117: Zone - Central	21.00	1,227.5	73.8
282	J-162	1,062.0	117: Zone - Central	27.00	1,226.7	71.3
283	J-163	1,042.0	117: Zone - Central	22.50	1,226.4	79.8
284	J-164	1,035.0	117: Zone - Central	13.50	1,225.9	82.6
285	J-165	1,042.0	117: Zone - Central	18.00	1,225.9	79.5
286	J-166	1,048.0	117: Zone - Central	25.50	1,227.5	77.7
287	J-167	1,060.0	117: Zone - Central	25.50	1,230.6	73.8
288	J-168	1,052.0	117: Zone - Central	232.50	1,225.1	74.9
289	J-169	1,068.0	117: Zone - Central	15.00	1,229.3	69.8
290	J-170	1,058.0	117: Zone - Central	12.00	1,229.8	74.3
291	J-171	1,053.0	117: Zone - Central	18.00	1,230.6	76.8
292	J-172	1,028.0	117: Zone - Central	0.00	1,233.4	88.9
293	J-173	1,022.0	117: Zone - Central	0.00	1,234.0	91.7
294	J-174	1,014.0	117: Zone - Central	0.00	1,234.3	95.3
295	J-175	1,004.0	117: Zone - Central	0.00	1,237.1	100.9
296	J-176	1,096.0	117: Zone - Central	43.50	1,230.8	58.3
297	J-177	1,082.0	117: Zone - Central	22.50	1,229.8	64.0
298	J-178	1,080.0	117: Zone - Central	43.50	1,229.8	64.8
299	J-179	1,002.0	117: Zone - Central	39.00	1,229.4	98.4
300	J-180	1,008.0	117: Zone - Central	24.00	1,229.4	95.8
301	J-181	1,068.0	117: Zone - Central	34.50	1,229.5	69.9
302	J-182	1,107.0	117: Zone - Central	25.50	1,229.8	53.1
303	J-183	1,060.0	117: Zone - Central	27.00	1,229.8	73.5
304	J-184	1,068.0	117: Zone - Central	34.50	1,229.5	69.9
305	J-185	1,012.0	117: Zone - Central	36.00	1,229.5	94.1
306	J-186	1,015.0	117: Zone - Central	30.00	1,229.3	92.7
307	J-187	1,052.0	117: Zone - Central	27.00	1,230.1	77.1
308	J-188	1,071.0	117: Zone - Central	22.50	1,229.3	68.5
309	J-189	1,067.0	117: Zone - Central	21.00	1,228.7	70.0
310	J-190	1,060.0	117: Zone - Central	21.00	1,228.5	72.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
311	J-191	1,086.0	117: Zone - Central	349.50	1,222.0	58.8
312	J-192	1,045.0	117: Zone - Central	0.00	1,225.2	78.0
313	J-193	1,082.0	117: Zone - Central	33.00	1,217.6	58.7
314	J-194	1,084.0	117: Zone - Central	126.00	1,217.2	57.6
315	J-196	1,092.0	117: Zone - Central	106.50	1,217.1	54.1
316	J-198	1,095.0	117: Zone - Central	46.50	1,217.2	52.9
317	J-199	1,085.0	117: Zone - Central	49.50	1,217.2	57.2
318	J-200	1,082.0	117: Zone - Central	46.50	1,217.8	58.8
319	J-201	1,082.0	117: Zone - Central	40.50	1,218.8	59.2
320	J-202	1,082.0	117: Zone - Central	42.00	1,219.9	59.6
321	J-204	1,082.0	117: Zone - Central	219.00	1,221.9	60.5
322	J-205	1,042.0	117: Zone - Central	4.50	1,223.5	78.5
323	J-206	1,066.0	117: Zone - Central	33.00	1,213.7	63.9
324	J-207	1,080.0	117: Zone - Central	444.00	1,208.1	55.4
325	J-208	1,058.0	117: Zone - Central	37.50	1,220.9	70.5
326	J-209	1,036.0	117: Zone - Central	0.00	1,224.2	81.4
327	J-210	1,024.0	117: Zone - Central	0.00	1,224.2	86.6
328	J-229	1,074.0	117: Zone - Central	43.50	1,222.2	64.1
329	J-230	1,057.0	117: Zone - Central	0.00	1,222.8	71.7
330	J-231	1,078.0	117: Zone - Central	174.00	1,223.5	63.0
331	J-232	1,068.0	117: Zone - Central	24.00	1,223.9	67.4
332	J-233	1,030.0	117: Zone - Central	220.50	1,227.1	85.3
333	J-234	966.0	117: Zone - Central	0.00	1,230.3	114.4
334	J-235	954.0	117: Zone - Central	0.00	1,232.2	120.4
335	J-236	1,004.0	117: Zone - Central	0.00	1,235.0	99.9
336	J-237	1,046.0	117: Zone - Central	4.50	1,228.3	78.9
337	J-238	1,020.0	117: Zone - Central	0.00	1,234.3	92.7
338	J-239	1,052.0	117: Zone - Central	9.00	1,225.1	74.9
339	J-240	1,052.0	117: Zone - Central	7.50	1,225.1	74.9
340	J-241	1,060.0	117: Zone - Central	0.00	1,225.5	71.6
341	J-242	1,068.0	117: Zone - Central	18.00	1,224.9	67.9
342	J-243	1,076.0	117: Zone - Central	18.00	1,224.8	64.4
343	J-245	1,080.0	117: Zone - Central	84.00	1,224.1	62.3
344	J-246	1,068.0	117: Zone - Central	43.50	1,224.7	67.8
345	J-247	1,062.0	117: Zone - Central	15.00	1,224.9	70.5
346	J-248	1,080.0	117: Zone - Central	40.50	1,227.1	63.6
347	J-249	1,088.0	117: Zone - Central	12.00	1,226.6	60.0
348	J-250	1,090.0	117: Zone - Central	9.00	1,226.5	59.1
349	J-251	1,091.0	117: Zone - Central	6.00	1,226.5	58.6
350	J-252	1,088.0	117: Zone - Central	6.00	1,226.4	59.9
351	J-253	1,083.0	117: Zone - Central	15.00	1,226.1	61.9
352	J-254	1,088.0	117: Zone - Central	7.50	1,225.3	59.4
353	J-255	1,092.0	117: Zone - Central	12.00	1,224.0	57.1
354	J-256	1,100.0	117: Zone - Central	12.00	1,220.9	52.3
355	J-257	1,110.0	117: Zone - Central	12.00	1,217.7	46.6
356	J-258	1,096.0	117: Zone - Central	30.00	1,212.9	50.6
357	J-259	1,103.0	117: Zone - Central	30.00	1,210.9	46.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
358	J-260	1,095.0	117: Zone - Central	7.50	1,224.4	56.0
359	J-261	1,105.0	117: Zone - Central	4.50	1,224.6	51.7
360	J-262	1,102.0	117: Zone - Central	70.50	1,223.7	52.6
361	J-263	1,104.0	117: Zone - Central	58.50	1,221.6	50.9
362	J-264	1,102.0	117: Zone - Central	42.00	1,220.1	51.1
363	J-265	1,100.0	117: Zone - Central	22.50	1,218.8	51.4
364	J-266	1,100.0	117: Zone - Central	31.50	1,220.6	52.2
365	J-267	1,096.0	117: Zone - Central	30.00	1,220.9	54.0
366	J-269	1,097.0	117: Zone - Central	33.00	1,221.5	53.9
367	J-270	1,094.0	117: Zone - Central	30.00	1,221.7	55.3
368	J-271	1,098.0	117: Zone - Central	18.00	1,220.9	53.2
369	J-272	1,113.0	117: Zone - Central	18.00	1,217.6	45.3
370	J-273	1,108.0	117: Zone - Central	30.00	1,217.6	47.4
371	J-274	1,115.0	117: Zone - Central	15.00	1,218.0	44.5
372	J-275	1,110.0	117: Zone - Central	21.00	1,218.1	46.8
373	J-276	1,104.0	117: Zone - Central	49.50	1,218.3	49.4
374	J-277	1,086.0	117: Zone - Central	15.00	1,218.3	57.2
375	J-278	1,082.0	117: Zone - Central	0.00	1,225.8	62.2
376	J-279	1,104.0	117: Zone - Central	7.50	1,222.3	51.2
377	J-280	1,106.0	117: Zone - Central	12.00	1,209.5	44.8
378	J-281	1,110.0	117: Zone - Central	6.00	1,209.4	43.0
379	J-283	1,114.0	117: Zone - Central	0.00	1,209.3	41.2
380	J-284	1,094.0	117: Zone - Central	9.00	1,206.7	48.8
381	J-285	1,084.0	117: Zone - Central	15.00	1,211.5	55.2
382	J-286	1,096.0	117: Zone - Central	1.50	1,204.0	46.7
383	J-287	1,118.0	117: Zone - Central	30.00	1,203.9	37.2
384	J-288	1,076.0	117: Zone - Central	25.50	1,214.8	60.1
385	J-289	1,090.0	117: Zone - Central	18.00	1,220.0	56.2
386	J-290	1,096.0	117: Zone - Central	12.00	1,220.5	53.9
387	J-291	1,093.0	117: Zone - Central	90.00	1,209.1	50.2
388	J-292	1,102.0	117: Zone - Central	18.00	1,223.9	52.7
389	J-293	1,120.0	117: Zone - Central	76.50	1,228.0	46.7
390	J-294	1,142.0	117: Zone - Central	69.00	1,241.1	42.9
391	J-295	1,156.0	117: Zone - Central	24.00	1,243.5	37.8
392	J-297	1,128.0	117: Zone - Central	34.50	1,242.0	49.3
393	J-298	1,120.0	117: Zone - Central	31.50	1,237.4	50.8
394	J-299	1,108.0	117: Zone - Central	69.00	1,234.8	54.9
395	J-300	1,108.0	117: Zone - Central	60.00	1,233.3	54.2
396	J-302	1,104.0	117: Zone - Central	21.00	1,231.9	55.4
397	J-303	1,084.0	117: Zone - Central	34.50	1,229.4	62.9
398	J-304	1,080.0	117: Zone - Central	27.00	1,229.4	64.6
399	J-305	1,086.0	117: Zone - Central	6.00	1,230.4	62.5
400	J-306	1,088.0	117: Zone - Central	18.00	1,230.4	61.6
401	J-307	1,092.0	117: Zone - Central	18.00	1,229.7	59.6
402	J-308	1,084.0	117: Zone - Central	25.50	1,227.2	62.0
403	J-309	1,092.0	117: Zone - Central	19.50	1,225.8	57.9
404	J-310	1,090.0	117: Zone - Central	19.50	1,223.9	57.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
405	J-312	1,088.0	117: Zone - Central	13.50	1,226.3	59.9
406	J-313	1,084.0	117: Zone - Central	37.50	1,227.6	62.1
407	J-314	1,082.0	117: Zone - Central	30.00	1,227.6	63.0
408	J-315	1,077.0	117: Zone - Central	0.00	1,229.4	65.9
409	J-317	1,086.0	117: Zone - Central	34.50	1,231.6	63.0
410	J-318	1,088.0	117: Zone - Central	31.50	1,231.6	62.1
411	J-320	1,105.0	117: Zone - Central	25.50	1,229.7	53.9
412	J-321	1,096.0	117: Zone - Central	36.00	1,232.3	59.0
413	J-322	1,160.0	117: Zone - Central	9.00	1,251.6	39.6
414	J-323	1,108.0	117: Zone - Central	21.00	1,223.1	49.8
415	J-324	1,152.0	117: Zone - Central	55.50	1,237.5	37.0
416	J-325	1,173.0	117: Zone - Central	25.50	1,236.9	27.6
417	J-326	1,153.0	117: Zone - Central	69.00	1,232.5	34.4
418	J-327	1,123.0	117: Zone - Central	45.00	1,223.6	43.5
419	J-328	1,114.0	117: Zone - Central	72.00	1,222.7	47.0
420	J-329	1,100.0	117: Zone - Central	18.00	1,221.0	52.3
421	J-330	1,096.0	117: Zone - Central	51.00	1,220.9	54.1
422	J-331	1,086.0	117: Zone - Central	52.50	1,215.3	56.0
423	J-332	1,100.0	117: Zone - Central	42.00	1,217.0	50.6
424	J-333	1,120.0	117: Zone - Central	60.00	1,214.5	40.9
425	J-334	1,142.0	117: Zone - Central	30.00	1,213.0	30.7
426	J-335	1,124.0	117: Zone - Central	21.00	1,212.3	38.2
427	J-336	1,120.0	117: Zone - Central	31.50	1,212.1	39.9
428	J-337	1,128.0	117: Zone - Central	9.00	1,212.1	36.4
429	J-338	1,138.0	117: Zone - Central	12.00	1,212.0	32.0
430	J-339	1,124.0	117: Zone - Central	60.00	1,212.0	38.1
431	J-340	1,116.0	117: Zone - Central	27.00	1,211.7	41.4
432	J-341	1,110.0	117: Zone - Central	28.50	1,211.6	44.0
433	J-342	1,152.0	117: Zone - Central	21.00	1,297.3	62.9
434	J-343	1,148.0	117: Zone - Central	18.00	1,297.3	64.6
435	J-344	1,152.0	117: Zone - Central	6.00	1,297.3	62.9
436	J-345	1,180.0	120: Zone - MountainTop	9.00	1,297.4	50.8
437	J-346	1,170.0	120: Zone - MountainTop	13.50	1,297.4	55.1
438	J-347	1,162.0	120: Zone - MountainTop	7.50	1,297.4	58.6
439	J-348	1,152.0	120: Zone - MountainTop	10.50	1,297.4	62.9
440	J-349	1,140.0	120: Zone - MountainTop	12.00	1,297.4	68.1
441	J-350	1,162.0	120: Zone - MountainTop	12.00	1,297.4	58.6
442	J-351	1,200.0	120: Zone - MountainTop	12.00	1,297.4	42.1
443	J-352	1,184.0	120: Zone - MountainTop	6.00	1,297.4	49.1

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
444	J-353	1,190.0	120: Zone - MountainTop	4.50	1,297.4	46.5
445	J-354	1,244.0	120: Zone - MountainTop	3.00	1,348.7	45.3
446	J-356	1,172.0	117: Zone - Central	24.00	1,297.3	54.2
447	J-357	1,176.0	117: Zone - Central	13.50	1,297.4	52.5
793	J-358	1,152.0	120: Zone - MountainTop	33.00	1,297.4	62.9
448	J-359	1,195.0	120: Zone - MountainTop	37.50	1,352.3	68.0
449	J-360	1,242.0	120: Zone - MountainTop	27.00	1,352.9	48.0
450	J-361	1,235.0	120: Zone - MountainTop	27.00	1,354.2	51.6
451	J-362	1,260.0	120: Zone - MountainTop	24.00	1,360.2	43.3
452	J-363	1,254.0	120: Zone - MountainTop	24.00	1,355.7	44.0
453	J-364	1,256.0	120: Zone - MountainTop	27.00	1,360.1	45.1
454	J-365	1,260.0	120: Zone - MountainTop	39.00	1,354.5	40.9
455	J-366	1,262.0	120: Zone - MountainTop	24.00	1,354.1	39.9
456	J-367	1,262.0	120: Zone - MountainTop	36.00	1,354.0	39.8
457	J-368	1,258.0	120: Zone - MountainTop	27.00	1,353.9	41.5
458	J-369	1,274.0	120: Zone - MountainTop	45.00	1,358.1	36.4
459	J-370	1,278.0	120: Zone - MountainTop	39.00	1,359.6	35.3
460	J-371	1,272.0	120: Zone - MountainTop	15.00	1,358.0	37.2
461	J-372	1,270.0	120: Zone - MountainTop	54.00	1,354.1	36.4
462	J-373	1,251.0	120: Zone - MountainTop	9.00	1,352.9	44.1
463	J-374	1,243.0	120: Zone - MountainTop	18.00	1,350.8	46.7
464	J-375	1,242.0	120: Zone - MountainTop	18.00	1,350.1	46.8
465	J-376	1,278.0	120: Zone - MountainTop	37.50	1,363.7	37.1
466	J-377	1,283.0	120: Zone - MountainTop	39.00	1,362.4	34.3
467	J-378	1,285.0	120: Zone - MountainTop	25.50	1,361.7	33.2
468	J-379	1,252.0	120: Zone - MountainTop	24.00	1,361.4	47.3

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
469	J-380	1,258.0	120: Zone - MountainTop	39.00	1,361.9	45.0
470	J-381	1,178.0	120: Zone - MountainTop	12.00	1,360.1	78.8
471	J-382	1,172.0	120: Zone - MountainTop	18.00	1,360.1	81.4
472	J-383	1,188.0	120: Zone - MountainTop	12.00	1,360.1	74.5
473	J-384	1,194.0	120: Zone - MountainTop	21.00	1,360.1	71.9
474	J-385	1,200.0	120: Zone - MountainTop	6.00	1,360.1	69.3
475	J-386	1,232.0	120: Zone - MountainTop	9.00	1,360.3	55.5
476	J-387	1,238.0	120: Zone - MountainTop	18.00	1,360.3	52.9
477	J-388	1,250.0	120: Zone - MountainTop	30.00	1,360.4	47.7
478	J-389	1,236.0	120: Zone - MountainTop	7.50	1,360.3	53.8
479	J-390	1,268.0	120: Zone - MountainTop	15.00	1,364.3	41.7
480	J-391	1,282.0	120: Zone - MountainTop	7.50	1,371.3	38.6
481	J-392	1,282.0	120: Zone - MountainTop	24.00	1,376.8	41.0
482	J-393	1,273.0	120: Zone - MountainTop	12.00	1,380.0	46.3
792	J-394	1,225.0	120: Zone - MountainTop	27.00	1,348.6	53.5
483	J-395	1,250.0	120: Zone - MountainTop	27.00	1,379.8	56.1
795	J-396	1,273.0	120: Zone - MountainTop	0.00	1,380.0	46.3
484	J-397	1,285.0	120: Zone - MountainTop	7.50	1,371.2	37.3
485	J-398	1,270.0	120: Zone - MountainTop	4.50	1,371.2	43.8
486	J-400	1,129.0	117: Zone - Central	21.00	1,371.2	104.8
487	J-401	1,100.0	117: Zone - Central	0.00	1,192.3	39.9
488	J-402	1,140.0	117: Zone - Central	15.00	1,192.2	22.6
490	J-405	1,102.0	117: Zone - Central	22.50	1,208.8	46.2
491	J-406	1,094.0	117: Zone - Central	0.00	1,202.3	46.9
492	J-407	1,096.0	117: Zone - Central	7.50	1,202.1	45.9
493	J-408	1,118.0	117: Zone - Central	0.00	1,192.9	32.4
494	J-409	1,076.0	117: Zone - Central	0.00	1,190.8	49.7
495	J-410	1,105.0	117: Zone - Central	0.00	1,190.4	36.9
496	J-411	1,136.0	117: Zone - Central	349.50	1,189.4	23.1
497	J-412	1,110.0	117: Zone - Central	7.50	1,190.4	34.8

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
498	J-413	1,085.0	117: Zone - Central	45.00	1,188.4	44.7
499	J-414	1,068.0	117: Zone - Central	220.50	1,185.9	51.0
500	J-415	1,108.0	117: Zone - Central	15.00	1,187.8	34.5
501	J-416	1,086.0	117: Zone - Central	24.00	1,181.7	41.4
502	J-417	1,067.0	117: Zone - Central	18.00	1,180.7	49.2
503	J-418	1,054.0	117: Zone - Central	48.00	1,180.4	54.7
504	J-419	1,076.0	117: Zone - Central	30.00	1,180.3	45.1
505	J-420	1,046.0	117: Zone - Central	57.00	1,180.3	58.1
506	J-421	1,042.0	117: Zone - Central	36.00	1,180.4	59.9
507	J-422	1,036.0	117: Zone - Central	24.00	1,180.3	62.4
508	J-423	1,064.0	117: Zone - Central	13.50	1,180.6	50.4
509	J-424	1,067.0	117: Zone - Central	18.00	1,180.7	49.2
510	J-425	1,066.0	117: Zone - Central	18.00	1,180.6	49.6
511	J-426	1,056.0	117: Zone - Central	16.50	1,180.6	53.9
512	J-427	1,063.0	117: Zone - Central	7.50	1,180.7	50.9
513	J-428	1,058.0	117: Zone - Central	7.50	1,180.9	53.2
514	J-429	1,042.0	117: Zone - Central	9.00	1,181.0	60.1
515	J-430	1,083.0	117: Zone - Central	22.50	1,180.9	42.3
516	J-431	1,081.0	117: Zone - Central	18.00	1,180.6	43.1
517	J-432	1,074.0	117: Zone - Central	15.00	1,180.6	46.1
518	J-433	1,076.0	117: Zone - Central	34.50	1,180.6	45.3
519	J-434	1,070.0	117: Zone - Central	7.50	1,180.7	47.9
520	J-435	1,063.0	117: Zone - Central	22.50	1,180.9	51.0
521	J-436	1,052.0	117: Zone - Central	7.50	1,181.5	56.0
522	J-437	1,062.0	117: Zone - Central	7.50	1,180.9	51.4
523	J-438	1,092.0	117: Zone - Central	21.00	1,180.7	38.4
524	J-439	1,090.0	117: Zone - Central	15.00	1,180.6	39.2
525	J-440	1,110.0	117: Zone - Central	15.00	1,180.6	30.5
526	J-441	1,100.0	117: Zone - Central	18.00	1,180.6	34.9
527	J-442	1,090.0	117: Zone - Central	18.00	1,180.6	39.2
528	J-443	1,110.0	117: Zone - Central	15.00	1,180.9	30.7
529	J-444	1,072.0	117: Zone - Central	18.00	1,180.6	47.0
530	J-445	1,064.0	117: Zone - Central	15.00	1,180.6	50.5
531	J-446	990.0	117: Zone - Central	0.00	1,181.0	82.6
532	J-447	1,046.0	117: Zone - Central	6.00	1,181.0	58.4
533	J-448	1,042.0	117: Zone - Central	0.00	1,181.0	60.1
534	J-449	1,048.0	117: Zone - Central	150.00	1,182.0	58.0
535	J-450	1,040.0	117: Zone - Central	348.00	1,170.9	56.6
536	J-451	1,032.0	117: Zone - Central	0.00	1,172.3	60.7
537	J-452	1,012.0	117: Zone - Central	97.50	1,176.5	71.2
538	J-453	1,020.0	117: Zone - Central	190.50	1,179.5	69.0
539	J-454	1,048.0	117: Zone - Central	0.00	1,172.3	53.8
540	J-455	1,014.0	117: Zone - Central	37.50	1,176.4	70.3
541	J-456	1,030.0	117: Zone - Central	30.00	1,176.3	63.3
542	J-457	1,030.0	117: Zone - Central	30.00	1,176.3	63.3
543	J-458	1,060.0	117: Zone - Central	42.00	1,176.6	50.5
544	J-459	1,050.0	117: Zone - Central	60.00	1,176.1	54.6

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
545	J-460	1,096.0	117: Zone - Central	45.00	1,176.2	34.7
546	J-461	1,066.0	117: Zone - Central	31.50	1,176.2	47.7
547	J-462	1,078.0	117: Zone - Central	27.00	1,176.2	42.5
548	J-463	1,060.0	117: Zone - Central	12.00	1,181.3	52.5
549	J-464	1,070.0	117: Zone - Central	9.00	1,181.3	48.2
550	J-465	1,074.0	117: Zone - Central	12.00	1,181.4	46.5
551	J-466	1,080.0	117: Zone - Central	15.00	1,181.5	43.9
552	J-467	1,084.0	117: Zone - Central	0.00	1,181.4	42.2
553	J-468	1,115.0	117: Zone - Central	18.00	1,181.4	28.7
554	J-469	1,068.0	117: Zone - Central	30.00	1,181.3	49.0
555	J-470	1,044.0	117: Zone - Central	46.50	1,181.0	59.3
556	J-471	1,048.0	117: Zone - Central	19.50	1,181.1	57.6
557	J-472	1,056.0	117: Zone - Central	12.00	1,181.3	54.2
558	J-473	1,060.0	117: Zone - Central	10.50	1,181.5	52.6
559	J-474	1,062.0	117: Zone - Central	16.50	1,182.0	51.9
560	J-475	1,050.0	117: Zone - Central	21.00	1,179.5	56.0
561	J-476	1,050.0	117: Zone - Central	19.50	1,179.9	56.2
562	J-477	1,050.0	117: Zone - Central	21.00	1,180.4	56.4
563	J-478	1,052.0	117: Zone - Central	13.50	1,181.0	55.8
564	J-479	1,053.0	117: Zone - Central	15.00	1,181.5	55.6
565	J-480	1,054.0	117: Zone - Central	22.50	1,182.3	55.5
566	J-481	1,058.0	117: Zone - Central	33.00	1,183.0	54.1
567	J-482	1,060.0	117: Zone - Central	33.00	1,183.8	53.6
568	J-483	1,082.0	117: Zone - Central	12.00	1,181.0	42.8
569	J-484	1,120.0	117: Zone - Central	4.50	1,180.6	26.2
570	J-485	1,124.0	117: Zone - Central	15.00	1,180.3	24.4
571	J-486	1,124.0	117: Zone - Central	13.50	1,180.0	24.2
572	J-487	1,138.0	117: Zone - Central	6.00	1,179.8	18.1
573	J-488	1,093.0	117: Zone - Central	18.00	1,181.6	38.3
574	J-489	1,084.0	117: Zone - Central	21.00	1,182.3	42.5
575	J-490	1,080.0	117: Zone - Central	28.50	1,183.2	44.6
576	J-491	1,090.0	117: Zone - Central	30.00	1,184.5	40.9
577	J-492	1,092.0	117: Zone - Central	30.00	1,187.3	41.2
578	J-493	1,094.0	117: Zone - Central	24.00	1,191.8	42.3
579	J-494	1,096.0	117: Zone - Central	18.00	1,196.1	43.3
580	J-495	1,100.0	117: Zone - Central	19.50	1,201.3	43.8
581	J-496	1,062.0	117: Zone - Central	33.00	1,186.5	53.9
582	J-497	1,066.0	117: Zone - Central	13.50	1,188.8	53.1
583	J-498	1,072.0	117: Zone - Central	22.50	1,192.0	51.9
584	J-499	1,078.0	117: Zone - Central	24.00	1,196.0	51.1
585	J-500	1,083.0	117: Zone - Central	25.50	1,200.6	50.9
586	J-501	1,090.0	117: Zone - Central	19.50	1,205.3	49.9
587	J-502	1,100.0	117: Zone - Central	45.00	1,206.0	45.8
588	J-504	1,107.0	117: Zone - Central	37.50	1,206.7	43.1
589	J-505	1,115.0	117: Zone - Central	34.50	1,208.0	40.2
590	J-506	1,127.0	117: Zone - Central	15.00	1,208.5	35.3
591	J-507	1,128.0	117: Zone - Central	16.50	1,208.4	34.8

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
592	J-508	1,118.0	117: Zone - Central	10.50	1,209.0	39.4
593	J-509	1,140.0	117: Zone - Central	31.50	1,208.5	29.7
594	J-510	1,160.0	117: Zone - Central	12.00	1,208.6	21.0
595	J-511	1,132.0	117: Zone - Central	0.00	1,208.9	33.3
597	J-515	1,100.0	117: Zone - Central	0.00	1,218.0	51.1
598	J-517	1,216.0	119: Zone - Rattlesnake	18.00	1,340.1	53.7
599	J-518	1,160.0	119: Zone - Rattlesnake	21.00	1,338.0	77.0
600	J-519	1,150.0	119: Zone - Rattlesnake	12.00	1,337.0	80.9
601	J-520	1,155.0	119: Zone - Rattlesnake	13.50	1,335.1	77.9
602	J-521	1,154.0	119: Zone - Rattlesnake	21.00	1,334.2	78.0
603	J-522	1,148.0	119: Zone - Rattlesnake	21.00	1,333.6	80.3
604	J-523	1,142.0	119: Zone - Rattlesnake	30.00	1,333.1	82.7
605	J-524	1,150.0	119: Zone - Rattlesnake	30.00	1,332.8	79.1
606	J-525	1,152.0	119: Zone - Rattlesnake	28.50	1,332.5	78.1
607	J-526	1,148.0	119: Zone - Rattlesnake	28.50	1,332.2	79.7
608	J-527	1,141.0	119: Zone - Rattlesnake	15.00	1,332.0	82.6
609	J-528	1,140.0	119: Zone - Rattlesnake	22.50	1,331.8	83.0
610	J-529	1,139.0	119: Zone - Rattlesnake	16.50	1,331.6	83.3
611	J-530	1,132.0	119: Zone - Rattlesnake	13.50	1,333.6	87.2
612	J-531	1,125.0	119: Zone - Rattlesnake	13.50	1,333.1	90.0
613	J-532	1,122.0	119: Zone - Rattlesnake	12.00	1,332.8	91.2
614	J-533	1,115.0	119: Zone - Rattlesnake	18.00	1,332.5	94.1
615	J-534	1,110.0	119: Zone - Rattlesnake	21.00	1,332.4	96.2
616	J-535	1,104.0	117: Zone - Central	24.00	1,235.3	56.8
617	J-536	1,125.0	117: Zone - Central	39.00	1,234.0	47.2
618	J-537	1,113.0	117: Zone - Central	31.50	1,234.3	52.5
619	J-538	1,206.0	119: Zone - Rattlesnake	19.50	1,338.3	57.3
620	J-539	1,180.0	119: Zone - Rattlesnake	21.00	1,337.5	68.1

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
621	J-540	1,160.0	119: Zone - Rattlesnake	13.50	1,337.2	76.7
622	J-541	1,150.0	119: Zone - Rattlesnake	15.00	1,337.1	81.0
623	J-542	1,140.0	119: Zone - Rattlesnake	15.00	1,337.1	85.3
624	J-543	1,130.0	119: Zone - Rattlesnake	12.00	1,337.0	89.6
625	J-544	1,120.0	119: Zone - Rattlesnake	12.00	1,337.0	93.9
626	J-545	1,114.0	117: Zone - Central	15.00	1,236.8	53.1
627	J-546	1,142.0	119: Zone - Rattlesnake	27.00	1,337.2	84.5
628	J-547	1,138.0	119: Zone - Rattlesnake	18.00	1,337.2	86.2
629	J-548	1,132.0	119: Zone - Rattlesnake	19.50	1,337.2	88.8
630	J-549	1,128.0	119: Zone - Rattlesnake	16.50	1,337.1	90.5
631	J-550	1,119.0	119: Zone - Rattlesnake	12.00	1,337.1	94.3
632	J-551	1,114.0	119: Zone - Rattlesnake	15.00	1,337.0	96.5
633	J-552	1,110.0	119: Zone - Rattlesnake	9.00	1,337.0	98.2
634	J-553	1,104.0	117: Zone - Central	15.00	1,238.3	58.1
635	J-554	1,127.0	119: Zone - Rattlesnake	15.00	1,342.5	93.3
636	J-555	1,144.0	119: Zone - Rattlesnake	21.00	1,342.7	85.9
637	J-556	1,192.0	119: Zone - Rattlesnake	18.00	1,343.1	65.4
638	J-557	1,202.0	119: Zone - Rattlesnake	10.50	1,343.7	61.3
639	J-558	1,204.0	119: Zone - Rattlesnake	12.00	1,344.3	60.7
640	J-559	1,196.0	119: Zone - Rattlesnake	19.50	1,343.3	63.7
641	J-560	1,192.0	119: Zone - Rattlesnake	21.00	1,342.5	65.1
642	J-561	1,194.0	119: Zone - Rattlesnake	21.00	1,342.5	64.3
643	J-562	1,198.0	119: Zone - Rattlesnake	30.00	1,342.6	62.6
644	J-563	1,128.0	119: Zone - Rattlesnake	34.50	1,342.5	92.8
645	J-564	1,136.0	119: Zone - Rattlesnake	16.50	1,342.5	89.3
646	J-565	1,189.0	119: Zone - Rattlesnake	15.00	1,342.5	66.4

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
647	J-566	1,150.0	119: Zone - Rattlesnake	12.00	1,342.4	83.2
648	J-567	1,140.0	119: Zone - Rattlesnake	21.00	1,342.3	87.5
649	J-568	1,118.0	119: Zone - Rattlesnake	25.50	1,342.3	97.0
650	J-569	1,086.0	119: Zone - Rattlesnake	6.00	1,342.3	110.9
651	J-570	1,082.0	117: Zone - Central	4.50	1,215.4	57.7
652	J-571	1,142.0	119: Zone - Rattlesnake	15.00	1,342.2	86.6
653	J-572	1,132.0	117: Zone - Central	36.00	1,214.9	35.9
654	J-573	1,110.0	117: Zone - Central	33.00	1,214.9	45.4
655	J-574	1,096.0	117: Zone - Central	34.50	1,215.1	51.5
656	J-575	1,083.0	117: Zone - Central	18.00	1,215.6	57.4
657	J-576	1,060.0	117: Zone - Central	15.00	1,220.3	69.3
658	J-577	1,052.0	117: Zone - Central	9.00	1,226.1	75.3
659	J-578	1,070.0	117: Zone - Central	7.50	1,214.9	62.7
660	J-579	1,058.0	117: Zone - Central	16.50	1,214.8	67.8
661	J-580	1,046.0	117: Zone - Central	16.50	1,214.5	72.9
662	J-581	1,042.0	117: Zone - Central	246.00	1,214.1	74.4
663	J-582	1,052.0	117: Zone - Central	31.50	1,214.9	70.5
664	J-583	1,058.0	117: Zone - Central	34.50	1,215.5	68.2
665	J-584	1,060.0	117: Zone - Central	24.00	1,217.3	68.0
666	J-585	1,076.0	117: Zone - Central	25.50	1,214.9	60.1
667	J-586	1,075.0	117: Zone - Central	45.00	1,215.0	60.6
668	J-587	1,080.0	117: Zone - Central	25.50	1,215.2	58.5
669	J-588	1,088.0	117: Zone - Central	36.00	1,214.9	54.9
670	J-589	1,036.0	117: Zone - Central	18.00	1,221.9	80.5
671	J-590	1,038.0	117: Zone - Central	61.50	1,221.9	79.6
672	J-591	1,028.0	117: Zone - Central	0.00	1,226.0	85.7
673	J-592	1,030.0	117: Zone - Central	27.00	1,226.0	84.8
674	J-594	1,028.0	117: Zone - Central	4.50	1,243.4	93.2
675	J-595	1,046.0	117: Zone - Central	3.00	1,247.9	87.3
676	J-596	1,018.0	117: Zone - Central	6.00	1,234.5	93.7
677	J-597	1,042.0	117: Zone - Central	9.00	1,214.2	74.5
678	J-598	1,056.0	117: Zone - Central	31.50	1,214.5	68.6
679	J-599	1,060.0	117: Zone - Central	25.50	1,214.2	66.7
680	J-600	1,060.0	117: Zone - Central	25.50	1,214.2	66.7
681	J-601	1,050.0	117: Zone - Central	19.50	1,214.2	71.0
682	J-602	1,055.0	117: Zone - Central	9.00	1,214.2	68.9
683	J-603	1,072.0	117: Zone - Central	33.00	1,214.2	61.5
684	J-604	1,070.0	117: Zone - Central	30.00	1,214.2	62.4
685	J-605	1,062.0	117: Zone - Central	16.50	1,214.1	65.8
686	J-606	1,052.0	117: Zone - Central	16.50	1,214.1	70.1
687	J-607	1,050.0	117: Zone - Central	6.00	1,214.1	71.0
688	J-608	1,060.0	117: Zone - Central	4.50	1,214.3	66.7

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
689	J-609	1,070.0	117: Zone - Central	16.50	1,214.2	62.4
690	J-610	1,070.0	117: Zone - Central	15.00	1,214.2	62.4
691	J-611	1,078.0	117: Zone - Central	22.50	1,214.4	59.0
692	J-612	1,084.0	117: Zone - Central	4.50	1,215.2	56.8
693	J-613	1,077.0	117: Zone - Central	9.00	1,214.2	59.3
694	J-614	1,100.0	117: Zone - Central	4.50	1,216.0	50.2
695	J-615	1,090.0	117: Zone - Central	22.50	1,216.4	54.7
696	J-616	1,084.0	117: Zone - Central	18.00	1,216.3	57.3
697	J-617	1,084.0	117: Zone - Central	16.50	1,215.0	56.7
698	J-618	1,084.0	117: Zone - Central	22.50	1,214.5	56.5
699	J-619	1,080.0	117: Zone - Central	19.50	1,214.3	58.1
700	J-620	1,096.0	117: Zone - Central	9.00	1,216.2	52.0
701	J-621	1,108.0	117: Zone - Central	10.50	1,217.1	47.2
702	J-622	1,102.0	117: Zone - Central	21.00	1,217.1	49.8
703	J-623	1,100.0	117: Zone - Central	0.00	1,218.4	51.2
704	J-624	1,102.0	117: Zone - Central	13.50	1,219.0	50.6
705	J-625	1,140.0	119: Zone - Rattlesnake	0.00	1,343.5	88.0
706	J-626	1,116.0	119: Zone - Rattlesnake	24.00	1,343.5	98.4
707	J-627	1,112.0	119: Zone - Rattlesnake	13.50	1,343.5	100.2
708	J-628	1,114.0	119: Zone - Rattlesnake	18.00	1,343.4	99.3
709	J-629	1,112.0	119: Zone - Rattlesnake	21.00	1,343.4	100.1
710	J-630	1,108.0	117: Zone - Central	16.50	1,234.1	54.6
711	J-631	1,100.0	117: Zone - Central	30.00	1,231.2	56.8
712	J-632	1,084.0	117: Zone - Central	85.50	1,232.7	64.4
713	J-633	1,126.0	117: Zone - Central	15.00	1,236.1	47.6
714	J-634	1,140.0	119: Zone - Rattlesnake	19.50	1,344.1	88.3
715	J-635	1,180.0	119: Zone - Rattlesnake	4.50	1,344.1	71.0
716	J-637	1,154.0	119: Zone - Rattlesnake	13.50	1,344.3	82.3
717	J-638	1,092.0	117: Zone - Central	13.50	1,235.6	62.1
718	J-639	1,100.0	117: Zone - Central	19.50	1,234.8	58.3
719	J-640	1,087.0	117: Zone - Central	22.50	1,233.5	63.4
720	J-641	1,098.0	117: Zone - Central	28.50	1,233.6	58.7
721	J-642	1,112.0	117: Zone - Central	19.50	1,233.6	52.6
722	J-643	1,118.0	117: Zone - Central	13.50	1,233.6	50.0
723	J-644	1,136.0	119: Zone - Rattlesnake	28.50	1,331.3	84.5
724	J-645	1,080.0	117: Zone - Central	37.50	1,213.2	57.6
777	J-646	1,097.0	117: Zone - Central	6.00	1,213.2	50.3
725	J-647	1,070.0	117: Zone - Central	301.50	1,211.6	61.3
726	J-648	1,050.0	117: Zone - Central	0.00	1,213.3	70.6

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
727	J-649	1,102.0	117: Zone - Central	21.00	1,233.5	56.9
728	J-650	1,116.0	119: Zone - Rattlesnake	37.50	1,331.0	93.0
729	J-651	1,105.0	117: Zone - Central	0.00	1,213.2	46.8
730	J-652	1,160.0	119: Zone - Rattlesnake	18.00	1,330.7	73.8
731	J-653	1,214.0	119: Zone - Rattlesnake	36.00	1,330.5	50.4
732	J-654	1,214.0	119: Zone - Rattlesnake	37.50	1,330.5	50.4
733	J-655	1,096.0	117: Zone - Central	48.00	1,213.2	50.7
734	J-656	1,077.0	117: Zone - Central	30.00	1,215.5	59.9
735	J-657	1,116.0	117: Zone - Central	13.50	1,213.2	42.0
736	J-659	1,100.0	117: Zone - Central	76.50	1,225.3	54.2
737	J-660	1,104.0	117: Zone - Central	0.00	1,238.4	58.1
738	J-662	1,270.0	120: Zone - MountainTop	15.00	1,379.7	47.5
739	J-663	1,272.0	120: Zone - MountainTop	9.00	1,379.6	46.6
740	J-664	1,272.0	120: Zone - MountainTop	9.00	1,379.6	46.6
741	J-665	1,283.0	120: Zone - MountainTop	18.00	1,379.6	41.8
742	J-666	1,288.0	120: Zone - MountainTop	16.50	1,379.6	39.6
743	J-667	1,278.0	120: Zone - MountainTop	247.50	1,379.7	44.0
744	J-668	1,258.0	120: Zone - MountainTop	12.00	1,379.6	52.6
745	J-669	1,132.0	117: Zone - Central	6.00	1,221.6	38.8
746	J-670	1,092.0	117: Zone - Central	4.50	1,221.7	56.1
747	J-671	1,095.0	117: Zone - Central	15.00	1,221.6	54.8
748	J-672	1,080.0	117: Zone - Central	0.00	1,221.7	61.3
749	J-673	1,100.0	117: Zone - Central	6.00	1,221.6	52.6
750	J-674	1,050.0	117: Zone - Central	162.00	1,221.7	74.3
751	J-675	1,276.0	120: Zone - MountainTop	48.00	1,361.1	36.8
752	J-676	1,246.0	120: Zone - MountainTop	36.00	1,345.4	43.0
753	J-677	1,254.0	120: Zone - MountainTop	184.50	1,344.5	39.2
754	J-679	1,132.0	117: Zone - Central	16.50	1,227.9	41.5
755	J-680	1,073.0	117: Zone - Central	201.00	1,221.8	64.4
756	J-681	1,078.0	117: Zone - Central	9.00	1,222.6	62.6
757	J-682	1,070.0	117: Zone - Central	4.50	1,222.7	66.1
758	J-683	1,083.0	117: Zone - Central	3.00	1,222.6	60.4
759	J-684	1,093.0	117: Zone - Central	7.50	1,222.5	56.0
760	J-685	1,112.0	117: Zone - Central	15.00	1,222.7	47.9

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
761	J-686	1,118.0	117: Zone - Central	24.00	1,223.5	45.7
762	J-687	1,107.0	117: Zone - Central	6.00	1,225.2	51.1
763	J-688	1,100.0	117: Zone - Central	9.00	1,223.5	53.4
764	J-689	1,088.0	117: Zone - Central	0.00	1,223.2	58.5
765	J-690	1,129.0	117: Zone - Central	210.00	1,221.8	40.1
766	J-691	1,114.0	117: Zone - Central	150.00	1,221.8	46.6
767	J-692	1,140.0	117: Zone - Central	6.00	1,250.3	47.7
768	J-693	1,136.0	117: Zone - Central	12.00	1,250.3	49.4
769	J-694	1,138.0	117: Zone - Central	84.00	1,250.3	48.6
770	J-696	1,177.0	117: Zone - Central	12.00	1,250.3	31.7
771	J-698	1,078.0	117: Zone - Central	10.50	1,222.6	62.6
772	J-700	1,100.0	117: Zone - Central	46.50	1,218.2	51.1
773	J-701	1,050.0	117: Zone - Central	73.50	1,214.0	70.9
779	J-703	1,230.0	120: Zone - MountainTop	3.00	1,348.3	51.2
797	J-704	950.0	117: Zone - Central	0.00	1,065.5	50.0
780	J-705	1,245.0	120: Zone - MountainTop	0.00	1,350.1	45.5
775	J-707	1,020.0	117: Zone - Central	0.00	1,242.4	96.2
776	J-708	1,198.0	119: Zone - Rattlesnake	15.00	1,344.1	63.2
781	J-714	1,080.0	117: Zone - Central	0.00	1,226.5	63.4
782	J-715	1,148.0	119: Zone - Rattlesnake	15.00	1,344.1	84.8
783	J-716	1,150.0	119: Zone - Rattlesnake	9.00	1,343.9	83.9
784	J-717	1,085.0	117: Zone - Central	15.00	1,225.9	61.0
785	J-718	1,055.0	117: Zone - Central	214.50	1,229.4	75.5
786	J-719	1,060.0	117: Zone - Central	93.00	1,215.9	67.5
787	J-720	1,060.0	117: Zone - Central	90.00	1,214.9	67.0
788	J-721	1,042.0	117: Zone - Central	127.50	1,214.5	74.7
789	J-722	1,072.0	117: Zone - Central	0.00	1,225.6	66.5
790	J-723	1,040.0	117: Zone - Central	33.00	1,228.0	81.3
791	J-724	1,050.0	117: Zone - Central	90.00	1,225.5	75.9
796	J-725	1,250.0	120: Zone - MountainTop	0.00	1,350.9	43.6
798	J-726	1,172.0	120: Zone - MountainTop	0.00	1,344.5	74.6
799	J-727	1,030.0	117: Zone - Central	0.00	1,221.7	83.0
800	J-728	1,070.0	117: Zone - Central	0.00	1,221.7	65.7
802	J-731	1,050.0	117: Zone - Central	0.00	1,224.2	75.4
803	J-732	1,100.0	117: Zone - Central	0.00	1,223.4	53.4
804	J-733	1,052.0	117: Zone - Central	0.00	1,225.8	75.2
805	J-736	1,120.0	117: Zone - Central	0.00	1,256.8	59.2
806	J-737	1,210.0	119: Zone - Rattlesnake	0.00	1,345.0	58.4
810	J-738	1,020.0	121: Zone - PS	0.00	1,065.5	19.7
807	J-739	1,114.0	117: Zone - Central	0.00	1,208.8	41.0

FlexTable: Junction Table (CCWM_Exist.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
808	J-740	1,080.0	117: Zone - Central	0.00	1,231.9	65.7
794	J-1001	840.0	121: Zone - PS	0.00	1,065.5	97.6
778	J-1002	840.0	121: Zone - PS	0.00	1,064.0	96.9
774	J-3000	1,208.0	121: Zone - PS	0.00	1,344.5	59.0
489	J-4002	1,130.0	121: Zone - PS	0.00	1,208.9	34.1
1968	J-4007	1,150.0	<None>	0.00	1,208.7	25.4
1970	J-4008	1,150.0	<None>	0.00	1,207.5	24.9
1973	J-4009	1,130.0	<None>	0.00	1,213.2	36.0
1979	J-4010	1,150.0	<None>	0.00	1,213.2	27.3
1991	J-4012	1,150.0	<None>	0.00	1,208.9	25.5
1997	J-4013	1,150.0	<None>	0.00	1,208.9	25.5

EXHIBIT E-4

EXISTING CONDITIONS WATER MODEL
FIRE FLOW

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-1	FALSE	1,000	0	20	93.2	20	16.9	16.9	133: J-10
J-2	TRUE	1,000	2,000	20	92.5	20	35.5	16.6	133: J-10
J-3	TRUE	1,000	2,000	20	83.9	20	35.5	16.6	133: J-10
J-4	TRUE	1,000	2,000	20	72.5	20	35.5	16.5	133: J-10
J-5	TRUE	1,000	2,000	20	73.5	20	35.5	16.5	133: J-10
J-6	TRUE	1,000	2,000	20	70.1	20	35.4	16.5	133: J-10
J-7	TRUE	1,000	2,000	20	85.6	20	35.5	16.4	133: J-10
J-8	TRUE	1,000	2,000	20	90.3	20	35.5	16.4	133: J-10
J-9	TRUE	1,000	2,000	20	57.9	20	35.5	16.3	133: J-10
J-10	FALSE	1,000	0	20	16.9	20	19.7	19.7	810: J-738
J-11	TRUE	1,000	2,000	20	66.8	20	35.5	16.6	133: J-10
J-12	TRUE	1,000	2,000	20	65.6	20	35.5	16.7	133: J-10
J-13	TRUE	1,000	2,000	20	68.8	20	35.5	16.7	133: J-10
J-14	TRUE	1,000	2,000	20	65.4	20	35.6	16.7	133: J-10
J-15	TRUE	1,000	2,000	20	47.1	20	35.6	16.8	133: J-10
J-17	TRUE	1,000	2,000	20	67.3	20	35.5	16.7	133: J-10
J-18	TRUE	1,000	2,000	20	62.8	20	35.5	16.6	133: J-10
J-19	TRUE	1,000	2,000	20	60.8	20	35.5	16.6	133: J-10
J-20	TRUE	1,000	2,000	20	54	20	35.5	16.6	133: J-10
J-21	TRUE	1,000	2,000	20	47.9	20	35.5	16.6	133: J-10
J-22	TRUE	1,000	2,000	20	54.9	20	35.5	16.6	133: J-10
J-23	TRUE	1,000	2,000	20	56.3	20	35.5	16.6	133: J-10
J-24	TRUE	1,000	2,000	20	56.8	20	35.5	16.6	133: J-10
J-25	TRUE	1,000	2,000	20	55.2	20	35.5	16.6	133: J-10
J-26	TRUE	1,000	2,000	20	45	20	35.5	16.6	133: J-10
J-27	TRUE	1,000	2,000	20	42	20	35.5	16.6	133: J-10
J-28	TRUE	1,000	2,000	20	41.3	20	35.5	16.6	133: J-10
J-29	TRUE	1,000	2,000	20	50.6	20	35.5	16.6	133: J-10
J-30	TRUE	1,000	2,000	20	57.7	20	35.5	16.6	133: J-10
J-31	TRUE	1,000	2,000	20	60.6	20	35.5	16.6	133: J-10
J-32	TRUE	1,000	2,000	20	56	20	35.5	16.6	133: J-10
J-33	TRUE	1,000	2,000	20	51.2	20	35.5	16.6	133: J-10
J-34	TRUE	1,000	2,000	20	60.6	20	35.5	16.6	133: J-10
J-35	TRUE	1,000	2,000	20	55.5	20	35.5	16.6	133: J-10
J-36	TRUE	1,000	2,000	20	63.5	20	35.5	16.6	133: J-10
J-37	TRUE	1,000	2,000	20	53	20	35.5	16.6	133: J-10
J-38	TRUE	1,000	1,844	20	20	20	35.5	16.6	133: J-10
J-39	TRUE	1,000	2,000	20	59	20	35.5	16.5	133: J-10
J-40	TRUE	1,000	2,000	20	41.7	20	35.5	16.6	133: J-10
J-41	TRUE	1,000	2,000	20	56.5	20	35.5	16.7	133: J-10
J-42	TRUE	1,000	2,000	20	64.2	20	35.5	16.6	133: J-10
J-43	TRUE	1,000	2,000	20	54.7	20	35.5	16.6	133: J-10
J-44	TRUE	1,000	2,000	20	46.1	20	35.4	16.6	133: J-10
J-45	TRUE	1,000	2,000	20	54.8	20	35.4	16.5	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-46	TRUE	1,000	2,000	20	50.8	20	35.4	16.6	133: J-10
J-47	TRUE	1,000	2,000	20	25.8	20	35.4	16.6	133: J-10
J-48	TRUE	1,000	2,000	20	30.2	20	35.4	16.6	133: J-10
J-49	TRUE	1,000	2,000	20	62.8	20	35.4	16.5	133: J-10
J-50	TRUE	1,000	2,000	20	62.4	20	35.5	16.5	133: J-10
J-51	TRUE	1,000	2,000	20	65.7	20	35.5	16.5	133: J-10
J-52	TRUE	1,000	2,000	20	62.4	20	35.4	16.5	133: J-10
J-53	TRUE	1,000	2,000	20	60.7	20	35.4	16.5	133: J-10
J-54	TRUE	1,000	2,000	20	52	20	35.5	16.5	133: J-10
J-55	TRUE	1,000	2,000	20	55.2	20	35.5	16.5	133: J-10
J-56	TRUE	1,000	2,000	20	57.6	20	35.5	16.5	133: J-10
J-57	TRUE	1,000	2,000	20	54.7	20	35.5	16.5	133: J-10
J-58	TRUE	1,000	2,000	20	53.4	20	35.5	16.5	133: J-10
J-59	TRUE	1,000	2,000	20	48.2	20	35.5	16.5	133: J-10
J-60	TRUE	1,000	2,000	20	43.4	20	35.5	16.5	133: J-10
J-61	TRUE	1,000	2,000	20	43.9	20	35.5	16.5	133: J-10
J-62	TRUE	1,000	2,000	20	31.4	20	31.7	16.5	133: J-10
J-63	TRUE	1,000	1,830	20	20	20	28.9	16.6	133: J-10
J-64	TRUE	1,000	1,548	20	20	20	35.5	16.6	133: J-10
J-65	TRUE	1,000	1,739	20	20	20	20.4	16.6	133: J-10
J-66	TRUE	1,000	1,871	20	20	20	24.8	16.5	133: J-10
J-67	TRUE	1,000	2,000	20	35	20	34.2	16.5	133: J-10
J-69	TRUE	1,000	2,000	20	56	20	35.5	16.5	133: J-10
J-70	TRUE	1,000	2,000	20	51.6	20	35.5	16.5	133: J-10
J-71	TRUE	1,000	2,000	20	59.7	20	35.5	16.5	133: J-10
J-72	TRUE	1,000	2,000	20	46.1	20	35.5	16.5	133: J-10
J-73	TRUE	1,000	2,000	20	53.9	20	35.5	16.5	133: J-10
J-74	TRUE	1,000	2,000	20	43	20	32.6	16.5	133: J-10
J-75	TRUE	1,000	1,158	20	20	20	35.5	16.7	133: J-10
J-76	TRUE	1,000	2,000	20	55.1	20	35.5	16.5	133: J-10
J-77	TRUE	1,000	2,000	20	62	20	35.5	16.5	133: J-10
J-78	TRUE	1,000	2,000	20	66.2	20	35.5	16.5	133: J-10
J-79	TRUE	1,000	2,000	20	67.7	20	35.5	16.5	133: J-10
J-80	TRUE	1,000	2,000	20	68.3	20	35.4	16.5	133: J-10
J-81	TRUE	1,000	2,000	20	70.8	20	35.5	16.5	133: J-10
J-82	TRUE	1,000	2,000	20	62.9	20	35.5	16.5	133: J-10
J-83	TRUE	1,000	2,000	20	56	20	35.5	16.5	133: J-10
J-84	TRUE	1,000	2,000	20	55.4	20	35.5	16.4	133: J-10
J-85	TRUE	1,000	2,000	20	35.9	20	35.5	16.5	133: J-10
J-86	TRUE	1,000	1,799	20	20	20	35.5	16.5	133: J-10
J-87	TRUE	1,000	2,000	20	80.7	20	35.4	16.4	133: J-10
J-88	TRUE	1,000	2,000	20	80.7	20	35.4	16.4	133: J-10
J-89	TRUE	1,000	2,000	20	80	20	35.4	16.4	133: J-10
J-90	TRUE	1,000	2,000	20	77.9	20	35.4	16.5	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-91	TRUE	1,000	2,000	20	72	20	35.3	16.5	133: J-10
J-92	TRUE	1,000	2,000	20	70.9	20	35.3	16.5	133: J-10
J-93	TRUE	1,000	2,000	20	72.2	20	35.3	16.5	133: J-10
J-94	TRUE	1,000	2,000	20	70.9	20	35.2	16.5	133: J-10
J-95	TRUE	1,000	2,000	20	70	20	35.4	16.4	133: J-10
J-96	TRUE	1,000	2,000	20	71.7	20	35.4	16.4	133: J-10
J-97	TRUE	1,000	2,000	20	61.3	20	35.5	16.3	133: J-10
J-99	TRUE	1,000	2,000	20	65.4	20	35.4	16.4	133: J-10
J-100	TRUE	1,000	2,000	20	69.8	20	35.4	16.4	133: J-10
J-101	TRUE	1,000	2,000	20	69.7	20	35.4	16.4	133: J-10
J-102	TRUE	1,000	2,000	20	69.3	20	35.4	16.4	133: J-10
J-103	TRUE	1,000	2,000	20	67.6	20	35.3	16.4	133: J-10
J-104	TRUE	1,000	2,000	20	67.9	20	35.3	16.5	133: J-10
J-105	TRUE	1,000	2,000	20	68	20	35.3	16.5	133: J-10
J-106	TRUE	1,000	2,000	20	67.9	20	35.3	16.5	133: J-10
J-107	TRUE	1,000	2,000	20	67.7	20	35.2	16.5	133: J-10
J-108	TRUE	1,000	2,000	20	67	20	35.2	16.5	133: J-10
J-109	TRUE	1,000	2,000	20	65.9	20	35.1	16.6	133: J-10
J-110	TRUE	1,000	2,000	20	62.8	20	35	16.6	133: J-10
J-111	TRUE	1,000	2,000	20	59.3	20	35.4	16.4	133: J-10
J-112	TRUE	1,000	2,000	20	58.5	20	35.4	16.4	133: J-10
J-113	TRUE	1,000	2,000	20	62.7	20	35.4	16.4	133: J-10
J-114	TRUE	1,000	2,000	20	59.6	20	35.4	16.4	133: J-10
J-115	TRUE	1,000	2,000	20	59.8	20	35.4	16.4	133: J-10
J-116	TRUE	1,000	2,000	20	59.5	20	35.4	16.4	133: J-10
J-117	TRUE	1,000	2,000	20	60.1	20	35.4	16.4	133: J-10
J-118	TRUE	1,000	2,000	20	58	20	35.4	16.4	133: J-10
J-119	TRUE	1,000	2,000	20	51.7	20	33.6	16.4	133: J-10
J-120	TRUE	1,000	2,000	20	20.9	20	35.4	16.4	133: J-10
J-121	TRUE	1,000	2,000	20	61.4	20	35.4	16.4	133: J-10
J-122	TRUE	1,000	2,000	20	64.2	20	35.4	16.4	133: J-10
J-123	TRUE	1,000	2,000	20	47.2	20	31	16.4	133: J-10
J-124	TRUE	1,000	2,000	20	52.6	20	35.4	16.4	133: J-10
J-125	TRUE	1,000	2,000	20	47.5	20	35.4	16.4	133: J-10
J-126	TRUE	1,000	2,000	20	72.2	20	35.4	16.5	133: J-10
J-127	TRUE	1,000	2,000	20	66.5	20	35.4	16.5	133: J-10
J-128	TRUE	1,000	2,000	20	49.2	20	35.3	16.5	133: J-10
J-129	TRUE	1,000	2,000	20	48.9	20	35.4	16.5	133: J-10
J-130	TRUE	1,000	2,000	20	56	20	35.4	16.5	133: J-10
J-131	TRUE	1,000	2,000	20	53.8	20	35.4	16.5	133: J-10
J-132	TRUE	1,000	2,000	20	68.7	20	35.4	16.5	133: J-10
J-133	TRUE	1,000	2,000	20	61.7	20	35.4	16.5	133: J-10
J-134	TRUE	1,000	2,000	20	67.3	20	35.3	16.5	133: J-10
J-135	TRUE	1,000	2,000	20	66.2	20	35.2	16.5	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-136	TRUE	1,000	2,000	20	66.5	20	35.3	16.5	133: J-10
J-137	TRUE	1,000	2,000	20	46.6	20	35.3	16.5	133: J-10
J-138	TRUE	1,000	2,000	20	28.7	20	35.4	16.4	133: J-10
J-139	TRUE	1,000	2,000	20	60.6	20	35.4	16.4	133: J-10
J-140	FALSE	1,000	500	20	20	20	35.6	16.8	133: J-10
J-141	TRUE	1,000	2,000	20	37	20	35.4	16.4	133: J-10
J-142	TRUE	1,000	2,000	20	51.3	20	35.4	16.4	133: J-10
J-143	TRUE	1,000	2,000	20	76.1	20	35.4	16.4	133: J-10
J-144	TRUE	1,000	2,000	20	36.1	20	35.4	16.4	133: J-10
J-145	TRUE	1,000	2,000	20	88.8	20	35.4	16.4	133: J-10
J-146	TRUE	1,000	2,000	20	69.3	20	35.4	16.4	133: J-10
J-147	TRUE	1,000	2,000	20	53.4	20	35.4	16.4	133: J-10
J-148	TRUE	1,000	2,000	20	67.7	20	35.4	16.4	133: J-10
J-149	TRUE	1,000	2,000	20	76.3	20	35.4	16.4	133: J-10
J-150	TRUE	1,000	2,000	20	73.5	20	35.4	16.4	133: J-10
J-151	TRUE	1,000	2,000	20	72.1	20	35.4	16.4	133: J-10
J-152	TRUE	1,000	2,000	20	66.7	20	35.4	16.4	133: J-10
J-153	TRUE	1,000	2,000	20	64.8	20	35.4	16.4	133: J-10
J-154	TRUE	1,000	2,000	20	64.5	20	35.4	16.4	133: J-10
J-155	TRUE	1,000	2,000	20	69.4	20	35.4	16.4	133: J-10
J-156	TRUE	1,000	2,000	20	70.2	20	35.4	16.4	133: J-10
J-157	TRUE	1,000	2,000	20	71.8	20	35.4	16.4	133: J-10
J-158	TRUE	1,000	2,000	20	76.5	20	35.4	16.4	133: J-10
J-159	TRUE	1,000	2,000	20	80	20	35.4	16.4	133: J-10
J-160	TRUE	1,000	2,000	20	76.1	20	35.4	16.4	133: J-10
J-161	TRUE	1,000	2,000	20	76.2	20	35.4	16.4	133: J-10
J-162	TRUE	1,000	2,000	20	64.9	20	35.4	16.4	133: J-10
J-163	TRUE	1,000	2,000	20	88.2	20	35.4	16.4	133: J-10
J-164	TRUE	1,000	2,000	20	91.1	20	35.4	16.4	133: J-10
J-165	TRUE	1,000	2,000	20	40.7	20	35.4	16.4	133: J-10
J-166	TRUE	1,000	2,000	20	85.8	20	35.4	16.4	133: J-10
J-167	TRUE	1,000	2,000	20	71.5	20	35.4	16.4	133: J-10
J-168	TRUE	1,000	2,000	20	83.5	20	35.4	16.4	133: J-10
J-169	TRUE	1,000	2,000	20	77.5	20	35.4	16.4	133: J-10
J-170	TRUE	1,000	2,000	20	81.9	20	35.4	16.4	133: J-10
J-171	TRUE	1,000	2,000	20	84.1	20	35.4	16.4	133: J-10
J-172	TRUE	1,000	2,000	20	95.3	20	35.5	16.4	133: J-10
J-173	TRUE	1,000	2,000	20	97.9	20	35.5	16.4	133: J-10
J-174	TRUE	1,000	2,000	20	101.4	20	35.5	16.4	133: J-10
J-175	TRUE	1,000	2,000	20	106	20	35.5	16.4	133: J-10
J-176	TRUE	1,000	2,000	20	59.4	20	35.4	16.4	133: J-10
J-177	TRUE	1,000	2,000	20	63	20	35.4	16.4	133: J-10
J-178	TRUE	1,000	2,000	20	59.6	20	35.4	16.4	133: J-10
J-179	TRUE	1,000	2,000	20	68.5	20	35.4	16.4	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-180	TRUE	1,000	2,000	20	74.8	20	35.4	16.4	133: J-10
J-181	TRUE	1,000	2,000	20	53.8	20	35.4	16.4	133: J-10
J-182	TRUE	1,000	2,000	20	46.9	20	35.4	16.4	133: J-10
J-183	TRUE	1,000	2,000	20	77.2	20	35.4	16.4	133: J-10
J-184	TRUE	1,000	2,000	20	50.5	20	35.4	16.4	133: J-10
J-185	TRUE	1,000	2,000	20	73.1	20	35.4	16.4	133: J-10
J-186	TRUE	1,000	1,680	20	20	20	35.5	16.5	133: J-10
J-187	TRUE	1,000	2,000	20	66.2	20	35.4	16.4	133: J-10
J-188	TRUE	1,000	2,000	20	69	20	35.4	16.4	133: J-10
J-189	TRUE	1,000	2,000	20	68.2	20	35.4	16.4	133: J-10
J-190	TRUE	1,000	2,000	20	63.2	20	35.4	16.4	133: J-10
J-191	TRUE	1,000	2,000	20	67	20	35.5	16.5	133: J-10
J-192	TRUE	1,000	2,000	20	86.6	20	35.4	16.4	133: J-10
J-193	TRUE	1,000	2,000	20	45.6	20	35.4	16.5	133: J-10
J-194	TRUE	1,000	2,000	20	45.2	20	35.4	16.5	133: J-10
J-196	TRUE	1,000	2,000	20	41.3	20	35.4	16.5	133: J-10
J-198	TRUE	1,000	2,000	20	42.8	20	35.4	16.5	133: J-10
J-199	TRUE	1,000	2,000	20	49.8	20	35.4	16.5	133: J-10
J-200	TRUE	1,000	2,000	20	53.3	20	35.4	16.5	133: J-10
J-201	TRUE	1,000	2,000	20	56.7	20	35.5	16.5	133: J-10
J-202	TRUE	1,000	2,000	20	60.3	20	35.5	16.5	133: J-10
J-204	TRUE	1,000	2,000	20	68.4	20	35.5	16.5	133: J-10
J-205	TRUE	1,000	2,000	20	60.4	20	35.4	16.4	133: J-10
J-206	TRUE	1,000	1,549	20	26.2	20	20	16.5	133: J-10
J-207	TRUE	1,000	1,232	20	20	20	35.5	16.6	133: J-10
J-208	TRUE	1,000	2,000	20	20	20	29.5	16.4	133: J-10
J-209	TRUE	1,000	2,000	20	48.3	20	35.4	16.4	133: J-10
J-210	TRUE	1,000	1,449	20	20	20	35.5	16.6	133: J-10
J-229	TRUE	1,000	2,000	20	69.8	20	35.5	16.5	133: J-10
J-230	TRUE	1,000	2,000	20	75.3	20	35.5	16.5	133: J-10
J-231	TRUE	1,000	2,000	20	64.9	20	35.5	16.4	133: J-10
J-232	TRUE	1,000	2,000	20	69	20	35.5	16.4	133: J-10
J-233	TRUE	1,000	2,000	20	72.5	20	35.5	16.4	133: J-10
J-234	TRUE	1,000	2,000	20	109.1	20	35.5	16.4	133: J-10
J-235	TRUE	1,000	2,000	20	119.3	20	35.5	16.4	133: J-10
J-236	TRUE	1,000	2,000	20	101.7	20	35.5	16.4	133: J-10
J-237	TRUE	1,000	1,223	20	20	20	35.5	16.6	133: J-10
J-238	TRUE	1,000	2,000	20	72.1	20	35.5	16.4	133: J-10
J-239	TRUE	1,000	2,000	20	80.8	20	35.4	16.5	133: J-10
J-240	TRUE	1,000	2,000	20	77.4	20	35.4	16.5	133: J-10
J-241	TRUE	1,000	2,000	20	70.3	20	35.4	16.5	133: J-10
J-242	TRUE	1,000	2,000	20	62.1	20	35.4	16.5	133: J-10
J-243	TRUE	1,000	2,000	20	47.5	20	35.4	16.5	133: J-10
J-245	TRUE	1,000	1,295	20	20	20	35.5	16.6	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-246	TRUE	1,000	2,000	20	54.8	20	35.4	16.5	133: J-10
J-247	TRUE	1,000	2,000	20	64.6	20	35.4	16.5	133: J-10
J-248	TRUE	1,000	2,000	20	67	20	34.9	16.6	133: J-10
J-249	TRUE	1,000	2,000	20	63.8	20	35.2	16.5	133: J-10
J-250	TRUE	1,000	2,000	20	62.1	20	35.2	16.5	133: J-10
J-251	TRUE	1,000	2,000	20	64.5	20	35.2	16.5	133: J-10
J-252	TRUE	1,000	2,000	20	62.4	20	35.2	16.5	133: J-10
J-253	TRUE	1,000	2,000	20	67.8	20	35.2	16.5	133: J-10
J-254	TRUE	1,000	2,000	20	64.5	20	35.2	16.6	133: J-10
J-255	TRUE	1,000	2,000	20	62.7	20	34.5	16.6	133: J-10
J-256	TRUE	1,000	2,000	20	56.3	20	33	16.6	133: J-10
J-257	TRUE	1,000	2,000	20	50.6	20	31.8	16.6	133: J-10
J-258	TRUE	1,000	2,000	20	54	20	30	16.7	133: J-10
J-259	TRUE	1,000	2,000	20	51.7	20	29.2	16.7	133: J-10
J-260	TRUE	1,000	2,000	20	60.5	20	35	16.6	133: J-10
J-261	TRUE	1,000	2,000	20	43.5	20	35.1	16.6	133: J-10
J-262	TRUE	1,000	2,000	20	52.5	20	34.8	16.6	133: J-10
J-263	TRUE	1,000	2,000	20	48.6	20	34.5	16.6	133: J-10
J-264	TRUE	1,000	2,000	20	49.9	20	34.2	16.7	133: J-10
J-265	TRUE	1,000	2,000	20	47.5	20	34.1	16.7	133: J-10
J-266	TRUE	1,000	2,000	20	52.3	20	34.1	16.7	133: J-10
J-267	TRUE	1,000	2,000	20	59.5	20	34	16.7	133: J-10
J-269	TRUE	1,000	2,000	20	53	20	34.3	16.7	133: J-10
J-270	TRUE	1,000	2,000	20	57.4	20	34.3	16.7	133: J-10
J-271	TRUE	1,000	2,000	20	61.7	20	33.7	16.7	133: J-10
J-272	TRUE	1,000	2,000	20	41.1	20	32.2	16.7	133: J-10
J-273	TRUE	1,000	1,822	20	20	20	33.1	16.7	133: J-10
J-274	TRUE	1,000	2,000	20	28.9	20	32.6	16.7	133: J-10
J-275	TRUE	1,000	1,838	20	20	20	33.9	16.7	133: J-10
J-276	TRUE	1,000	2,000	20	34.5	20	33.7	16.7	133: J-10
J-277	TRUE	1,000	2,000	20	47.5	20	33.6	16.7	133: J-10
J-278	TRUE	1,000	2,000	20	61.3	20	35.3	16.6	133: J-10
J-279	TRUE	1,000	2,000	20	25.1	20	34.4	16.6	133: J-10
J-280	TRUE	1,000	2,000	20	43.9	20	35.4	16.8	133: J-10
J-281	TRUE	1,000	2,000	20	48.5	20	28.7	16.7	133: J-10
J-283	TRUE	1,000	2,000	20	46.7	20	27.8	16.7	133: J-10
J-284	TRUE	1,000	2,000	20	32.3	20	29.1	16.7	133: J-10
J-285	TRUE	1,000	2,000	20	57	20	33.3	16.7	133: J-10
J-286	TRUE	1,000	2,000	20	52.6	20	32.2	16.7	133: J-10
J-287	TRUE	1,000	1,533	20	20	20	34	16.8	133: J-10
J-288	TRUE	1,000	2,000	20	59.6	20	33	16.7	133: J-10
J-289	TRUE	1,000	2,000	20	57.4	20	32.9	16.7	133: J-10
J-290	TRUE	1,000	2,000	20	57.4	20	33.1	16.7	133: J-10
J-291	TRUE	1,000	2,000	20	60.5	20	31.5	16.7	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-292	TRUE	1,000	2,000	20	60.5	20	33.6	16.7	133: J-10
J-293	TRUE	1,000	2,000	20	53.2	20	33.6	16.7	133: J-10
J-294	TRUE	1,000	2,000	20	46.6	20	33.6	16.8	133: J-10
J-295	TRUE	1,000	2,000	20	41.1	20	33.5	16.8	133: J-10
J-297	TRUE	1,000	2,000	20	51.2	20	34.5	16.8	133: J-10
J-298	TRUE	1,000	2,000	20	52.4	20	34.6	16.7	133: J-10
J-299	TRUE	1,000	2,000	20	52.7	20	34.7	16.7	133: J-10
J-300	TRUE	1,000	2,000	20	42.4	20	34.7	16.7	133: J-10
J-302	TRUE	1,000	2,000	20	38.4	20	34.7	16.7	133: J-10
J-303	TRUE	1,000	2,000	20	61.9	20	34.8	16.7	133: J-10
J-304	TRUE	1,000	2,000	20	66.8	20	34.8	16.7	133: J-10
J-305	TRUE	1,000	2,000	20	64.1	20	34.8	16.7	133: J-10
J-306	TRUE	1,000	2,000	20	59.6	20	34.8	16.7	133: J-10
J-307	TRUE	1,000	2,000	20	51.5	20	34.8	16.7	133: J-10
J-308	TRUE	1,000	2,000	20	55.2	20	34.7	16.6	133: J-10
J-309	TRUE	1,000	2,000	20	56.3	20	34.7	16.6	133: J-10
J-310	TRUE	1,000	2,000	20	54.3	20	34.5	16.6	133: J-10
J-312	TRUE	1,000	2,000	20	61	20	34.9	16.6	133: J-10
J-313	TRUE	1,000	1,753	20	20	20	35	16.7	133: J-10
J-314	TRUE	1,000	2,000	20	65.2	20	34.9	16.6	133: J-10
J-315	TRUE	1,000	1,983	20	20	20	34.8	16.7	133: J-10
J-317	TRUE	1,000	2,000	20	62	20	34.8	16.7	133: J-10
J-318	TRUE	1,000	2,000	20	38.2	20	34.8	16.7	133: J-10
J-320	TRUE	1,000	1,417	20	20	20	35.1	16.7	133: J-10
J-321	TRUE	1,000	2,000	20	41.7	20	34.7	16.7	133: J-10
J-322	TRUE	1,000	2,000	20	41.4	20	34	16.9	133: J-10
J-323	TRUE	1,000	2,000	20	50.7	20	33.1	16.7	133: J-10
J-324	TRUE	1,000	2,000	20	21.1	20	33.4	16.8	133: J-10
J-325	TRUE	1,000	2,000	20	23.2	20	33.6	16.8	133: J-10
J-326	TRUE	1,000	2,000	20	28.9	20	26.1	16.8	133: J-10
J-327	TRUE	1,000	2,000	20	41	20	32.7	16.7	133: J-10
J-328	TRUE	1,000	2,000	20	49.8	20	31.8	16.7	133: J-10
J-329	TRUE	1,000	2,000	20	54	20	33	16.7	133: J-10
J-330	TRUE	1,000	2,000	20	55.9	20	32.6	16.7	133: J-10
J-331	TRUE	1,000	2,000	20	38.7	20	32.8	16.7	133: J-10
J-332	TRUE	1,000	2,000	20	40.7	20	29.1	16.7	133: J-10
J-333	TRUE	1,000	1,504	20	20.7	20	20	16.8	133: J-10
J-334	TRUE	1,000	1,137	20	20	20	34.4	16.8	133: J-10
J-335	TRUE	1,000	1,325	20	20.4	20	20	16.8	133: J-10
J-336	TRUE	1,000	1,440	20	20	20	21.2	16.8	133: J-10
J-337	TRUE	1,000	1,433	20	20	20	22.4	16.8	133: J-10
J-338	TRUE	1,000	1,432	20	20	20	25.9	16.8	133: J-10
J-339	TRUE	1,000	1,696	20	24.5	20	20	16.8	133: J-10
J-340	TRUE	1,000	1,863	20	20	20	20.6	16.7	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-341	TRUE	1,000	1,975	20	20	20	23	16.7	133: J-10
J-342	TRUE	1,000	1,570	20	20	20	22.2	3	445: J-354
J-343	TRUE	1,000	1,623	20	24.8	20	20.1	-2	445: J-354
J-344	TRUE	1,000	1,653	20	20.1	20	21.6	-7.2	445: J-354
J-345	TRUE	1,000	1,107	20	44.1	20	20	16.9	133: J-10
J-346	TRUE	1,000	1,033	20	47.7	20	20	16.9	133: J-10
J-347	TRUE	1,000	1,011	20	50.6	20	20	16.9	133: J-10
J-348	FALSE	1,000	995	20	54.2	20	20	16.9	133: J-10
J-349	FALSE	1,000	990	20	57	20	20	16.9	133: J-10
J-350	FALSE	1,000	987	20	47.7	20	20	16.9	133: J-10
J-351	FALSE	1,000	891	20	20	20	23.3	16.9	133: J-10
J-352	FALSE	1,000	984	20	41.3	20	20	16.9	133: J-10
J-353	TRUE	1,000	1,008	20	38.4	20	20	16.9	133: J-10
J-354	FALSE	1,000	614	20	20	20	26.1	16.9	133: J-10
J-356	TRUE	1,000	1,575	20	20	20	30.7	4	445: J-354
J-357	TRUE	1,000	1,642	20	20	20	26.3	5.6	445: J-354
J-359	TRUE	1,000	1,410	20	20	20	23.1	16.9	133: J-10
J-360	TRUE	1,000	1,465	20	20	20	22.4	16.9	133: J-10
J-361	TRUE	1,000	1,523	20	20	20	22.2	16.9	133: J-10
J-362	TRUE	1,000	2,000	20	30.6	20	26.9	16.9	133: J-10
J-363	TRUE	1,000	1,613	20	25.9	20	20	16.9	133: J-10
J-364	TRUE	1,000	1,164	20	20	20	37.4	16.9	133: J-10
J-365	TRUE	1,000	1,421	20	23	20	20	16.9	133: J-10
J-366	TRUE	1,000	1,395	20	21.4	20	20	16.9	133: J-10
J-367	TRUE	1,000	1,409	20	21.4	20	20	16.9	133: J-10
J-368	TRUE	1,000	1,517	20	20.5	20	20	16.9	133: J-10
J-369	TRUE	1,000	1,454	20	20	20	20.9	16.9	133: J-10
J-370	TRUE	1,000	1,623	20	20	20	23.2	16.9	133: J-10
J-371	FALSE	1,000	981	20	20	20	34.1	16.9	133: J-10
J-372	TRUE	1,000	1,230	20	20	20	29.5	16.9	133: J-10
J-373	TRUE	1,000	1,462	20	20	20	20.4	16.9	133: J-10
J-374	FALSE	1,000	740	20	20	20	33.7	16.9	133: J-10
J-375	FALSE	1,000	758	20	20	20	24.8	16.9	133: J-10
J-376	TRUE	1,000	2,000	20	33.2	20	30.1	16.9	133: J-10
J-377	TRUE	1,000	2,000	20	21	20	21.3	16.9	133: J-10
J-378	TRUE	1,000	1,604	20	20	20	30.3	16.9	133: J-10
J-379	TRUE	1,000	2,000	20	39.3	20	28	16.9	133: J-10
J-380	TRUE	1,000	2,000	20	37.8	20	28.3	16.9	133: J-10
J-381	TRUE	1,000	1,850	20	20	20	22	16.9	133: J-10
J-382	TRUE	1,000	1,752	20	25.6	20	20	16.9	133: J-10
J-383	TRUE	1,000	1,638	20	20	20	27.1	16.9	133: J-10
J-384	TRUE	1,000	1,724	20	20	20	24.3	16.9	133: J-10
J-385	TRUE	1,000	1,935	20	20	20	22.6	16.9	133: J-10
J-386	TRUE	1,000	2,000	20	29.4	20	27.6	16.9	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-387	TRUE	1,000	2,000	20	37.1	20	27.6	16.9	133: J-10
J-388	TRUE	1,000	2,000	20	35.9	20	27.6	16.9	133: J-10
J-389	TRUE	1,000	2,000	20	36.2	20	27.6	16.9	133: J-10
J-390	TRUE	1,000	2,000	20	38.6	20	31.2	16.9	133: J-10
J-391	TRUE	1,000	2,000	20	36.9	20	35.5	16.9	133: J-10
J-392	TRUE	1,000	2,000	20	40.3	20	38.8	16.9	133: J-10
J-393	TRUE	1,000	2,000	20	46.1	20	39.6	16.9	133: J-10
J-395	FALSE	1,000	730	20	20	20	42.2	16.9	133: J-10
J-397	TRUE	1,000	1,354	20	20	20	26.5	16.9	133: J-10
J-398	TRUE	1,000	1,025	20	20	20	29.6	16.9	133: J-10
J-400	TRUE	1,000	1,455	20	20	20	35.6	-7.5	485: J-398
J-401	TRUE	1,000	2,000	20	41.5	20	24.2	16.7	133: J-10
J-402	FALSE	1,000	754	20	20	20	35.4	16.9	133: J-10
J-4002	FALSE	1,000	0	20	52.1	20	16.9	16.9	133: J-10
J-405	TRUE	1,000	2,000	20	55.5	20	30.6	16.7	133: J-10
J-406	TRUE	1,000	2,000	20	57.4	20	31.8	16.7	133: J-10
J-407	TRUE	1,000	2,000	20	56	20	31.8	16.7	133: J-10
J-408	TRUE	1,000	2,000	20	36.2	20	26.7	16.7	133: J-10
J-409	TRUE	1,000	1,991	20	46	20	20	16.7	133: J-10
J-410	TRUE	1,000	1,804	20	33.4	20	20	16.7	133: J-10
J-411	TRUE	1,000	1,513	20	20	20	32.4	16.8	133: J-10
J-412	FALSE	1,000	790	20	20	20	35.3	16.8	133: J-10
J-413	TRUE	1,000	1,585	20	20	20	27.3	16.8	133: J-10
J-414	TRUE	1,000	1,199	20	20	20	34.9	16.8	133: J-10
J-415	TRUE	1,000	2,000	20	25.7	20	31.3	16.7	133: J-10
J-416	TRUE	1,000	2,000	20	35.6	20	29	16.7	133: J-10
J-417	TRUE	1,000	2,000	20	39.8	20	29.2	16.7	133: J-10
J-418	TRUE	1,000	2,000	20	32.4	20	22.9	16.7	133: J-10
J-419	TRUE	1,000	1,030	20	20	20	35.2	16.8	133: J-10
J-420	TRUE	1,000	2,000	20	27.7	20	31.2	16.7	133: J-10
J-421	TRUE	1,000	2,000	20	40.7	20	31.6	16.7	133: J-10
J-422	TRUE	1,000	1,152	20	20	20	35	16.8	133: J-10
J-423	TRUE	1,000	2,000	20	48.4	20	31.6	16.7	133: J-10
J-424	TRUE	1,000	2,000	20	42.1	20	28.8	16.7	133: J-10
J-425	TRUE	1,000	2,000	20	42.7	20	29.4	16.7	133: J-10
J-426	TRUE	1,000	2,000	20	48.8	20	30.2	16.7	133: J-10
J-427	TRUE	1,000	2,000	20	50.1	20	31.6	16.7	133: J-10
J-428	TRUE	1,000	2,000	20	54.5	20	31.5	16.7	133: J-10
J-429	TRUE	1,000	2,000	20	58.3	20	31.3	16.7	133: J-10
J-430	TRUE	1,000	2,000	20	36.1	20	24.4	16.7	133: J-10
J-431	TRUE	1,000	2,000	20	37.9	20	27.4	16.7	133: J-10
J-432	TRUE	1,000	2,000	20	42.1	20	27.5	16.7	133: J-10
J-433	TRUE	1,000	2,000	20	44	20	31.6	16.7	133: J-10
J-434	TRUE	1,000	2,000	20	48.4	20	31.6	16.7	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-435	TRUE	1,000	2,000	20	53.9	20	31.5	16.7	133: J-10
J-436	TRUE	1,000	2,000	20	62.5	20	31.2	16.7	133: J-10
J-437	TRUE	1,000	2,000	20	53.6	20	31.5	16.7	133: J-10
J-438	TRUE	1,000	2,000	20	31.7	20	31.6	16.7	133: J-10
J-439	TRUE	1,000	1,906	20	27.6	20	20	16.7	133: J-10
J-440	TRUE	1,000	1,658	20	20	20	31.2	16.7	133: J-10
J-441	TRUE	1,000	1,762	20	20	20	23.3	16.7	133: J-10
J-442	TRUE	1,000	1,982	20	24.8	20	20	16.7	133: J-10
J-443	TRUE	1,000	1,127	20	20	20	35.1	16.8	133: J-10
J-444	TRUE	1,000	2,000	20	40.1	20	28.9	16.7	133: J-10
J-445	TRUE	1,000	2,000	20	44.2	20	29	16.7	133: J-10
J-446	FALSE	1,000	796	20	20	20	35.3	16.8	133: J-10
J-447	TRUE	1,000	2,000	20	64.9	20	31.1	16.7	133: J-10
J-448	TRUE	1,000	2,000	20	68.8	20	30.5	16.7	133: J-10
J-449	TRUE	1,000	2,000	20	67.4	20	31	16.7	133: J-10
J-450	TRUE	1,000	1,644	20	20	20	28	16.8	133: J-10
J-451	TRUE	1,000	1,773	20	26.9	20	20	16.7	133: J-10
J-452	TRUE	1,000	2,000	20	70.5	20	27.7	16.7	133: J-10
J-453	TRUE	1,000	2,000	20	75.5	20	29.4	16.7	133: J-10
J-454	TRUE	1,000	1,546	20	20	20	33.4	16.8	133: J-10
J-455	TRUE	1,000	2,000	20	64.6	20	26.5	16.7	133: J-10
J-456	TRUE	1,000	2,000	20	47.3	20	24.4	16.7	133: J-10
J-457	TRUE	1,000	2,000	20	43.9	20	22	16.7	133: J-10
J-458	TRUE	1,000	2,000	20	30.6	20	21.3	16.7	133: J-10
J-459	TRUE	1,000	1,979	20	20	20	24.6	16.7	133: J-10
J-460	TRUE	1,000	1,639	20	20	20	29.7	16.8	133: J-10
J-461	TRUE	1,000	1,962	20	25.8	20	20	16.7	133: J-10
J-462	TRUE	1,000	1,833	20	25.7	20	20	16.7	133: J-10
J-463	TRUE	1,000	2,000	20	51	20	27.6	16.7	133: J-10
J-464	TRUE	1,000	2,000	20	41.6	20	25.8	16.7	133: J-10
J-465	TRUE	1,000	2,000	20	36.9	20	21	16.7	133: J-10
J-466	TRUE	1,000	1,784	20	35.1	20	20	16.7	133: J-10
J-467	TRUE	1,000	1,486	20	33.4	20	20	16.8	133: J-10
J-468	FALSE	1,000	984	20	20	20	35.3	16.8	133: J-10
J-469	TRUE	1,000	1,066	20	20	20	35.1	16.8	133: J-10
J-470	TRUE	1,000	2,000	20	56.8	20	27.2	16.7	133: J-10
J-471	TRUE	1,000	2,000	20	55.6	20	24.1	16.7	133: J-10
J-472	TRUE	1,000	2,000	20	48.6	20	25.4	16.7	133: J-10
J-473	TRUE	1,000	2,000	20	44.1	20	25.3	16.7	133: J-10
J-474	TRUE	1,000	2,000	20	44.6	20	25.3	16.7	133: J-10
J-475	TRUE	1,000	1,638	20	54.7	20	20	16.8	133: J-10
J-476	TRUE	1,000	1,678	20	54.7	20	20	16.7	133: J-10
J-477	TRUE	1,000	1,790	20	54.4	20	20	16.7	133: J-10
J-478	TRUE	1,000	1,967	20	54.8	20	20	16.7	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-479	TRUE	1,000	2,000	20	49.8	20	20.6	16.7	133: J-10
J-480	TRUE	1,000	2,000	20	49.3	20	22.7	16.7	133: J-10
J-481	TRUE	1,000	2,000	20	49.8	20	24.1	16.7	133: J-10
J-482	TRUE	1,000	2,000	20	53.6	20	25.8	16.7	133: J-10
J-483	TRUE	1,000	1,935	20	37.4	20	20	16.7	133: J-10
J-484	TRUE	1,000	1,779	20	20	20	20.5	16.7	133: J-10
J-485	TRUE	1,000	1,711	20	21.8	20	20	16.7	133: J-10
J-486	TRUE	1,000	1,563	20	24.2	20	20	16.8	133: J-10
J-487	TRUE	1,000	1,359	20	20	20	32.3	16.8	133: J-10
J-488	TRUE	1,000	2,000	20	32.1	20	20.5	16.7	133: J-10
J-489	TRUE	1,000	2,000	20	36.6	20	22.4	16.7	133: J-10
J-490	TRUE	1,000	2,000	20	39.9	20	24.3	16.7	133: J-10
J-491	TRUE	1,000	2,000	20	37.5	20	26.2	16.7	133: J-10
J-492	TRUE	1,000	2,000	20	38.8	20	28.1	16.7	133: J-10
J-493	TRUE	1,000	2,000	20	40.8	20	30.3	16.7	133: J-10
J-494	TRUE	1,000	2,000	20	42.9	20	30.8	16.7	133: J-10
J-495	TRUE	1,000	2,000	20	46.5	20	30.7	16.7	133: J-10
J-496	TRUE	1,000	2,000	20	50.3	20	27.6	16.7	133: J-10
J-497	TRUE	1,000	2,000	20	44.5	20	29.1	16.7	133: J-10
J-498	TRUE	1,000	2,000	20	48.5	20	30.8	16.7	133: J-10
J-499	TRUE	1,000	2,000	20	49.2	20	30.7	16.7	133: J-10
J-500	TRUE	1,000	2,000	20	49.7	20	30.4	16.7	133: J-10
J-501	TRUE	1,000	2,000	20	43.8	20	29.1	16.7	133: J-10
J-502	TRUE	1,000	2,000	20	31.9	20	27.7	16.7	133: J-10
J-504	TRUE	1,000	2,000	20	30.6	20	26.8	16.7	133: J-10
J-505	TRUE	1,000	2,000	20	35.9	20	25.2	16.7	133: J-10
J-506	TRUE	1,000	1,932	20	31.8	20	20	16.7	133: J-10
J-507	TRUE	1,000	2,000	20	31.7	20	22	16.7	133: J-10
J-508	TRUE	1,000	2,000	20	38.7	20	24.8	16.7	133: J-10
J-509	TRUE	1,000	1,837	20	28	20	20	16.7	133: J-10
J-510	TRUE	1,000	1,681	20	20	20	31.3	16.7	133: J-10
J-511	TRUE	1,000	2,000	20	35.5	20	27.4	16.7	133: J-10
J-16	TRUE	1,000	2,000	20	45	20	35.6	16.9	133: J-10
J-515	TRUE	1,000	2,000	20	52	20	35.6	16.8	133: J-10
J-517	TRUE	1,000	2,000	20	40.6	20	41.2	16.9	133: J-10
J-518	TRUE	1,000	2,000	20	54.5	20	31.8	16.9	133: J-10
J-519	TRUE	1,000	2,000	20	56.1	20	28.3	16.9	133: J-10
J-520	TRUE	1,000	1,855	20	45.6	20	20	16.9	133: J-10
J-521	TRUE	1,000	1,709	20	46	20	20	16.9	133: J-10
J-522	TRUE	1,000	1,602	20	48.6	20	20	16.9	133: J-10
J-523	TRUE	1,000	1,532	20	51.1	20	20	16.9	133: J-10
J-524	TRUE	1,000	1,472	20	47.7	20	20	16.9	133: J-10
J-525	TRUE	1,000	1,419	20	46.8	20	20	16.9	133: J-10
J-526	TRUE	1,000	1,362	20	48.6	20	20	16.9	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-527	TRUE	1,000	1,281	20	51.6	20	20	16.9	133: J-10
J-528	TRUE	1,000	1,227	20	52.1	20	20	16.9	133: J-10
J-529	TRUE	1,000	1,171	20	52.5	20	20	16.9	133: J-10
J-530	TRUE	1,000	1,606	20	52.1	20	20	16.9	133: J-10
J-531	TRUE	1,000	1,538	20	55.6	20	20	16.9	133: J-10
J-532	TRUE	1,000	1,487	20	56.8	20	20	16.9	133: J-10
J-533	TRUE	1,000	1,443	20	58.7	20	20	16.9	133: J-10
J-534	TRUE	1,000	1,419	20	56.6	20	20	16.9	133: J-10
J-535	TRUE	1,000	2,000	20	43.3	20	35.6	16.9	133: J-10
J-536	TRUE	1,000	1,740	20	20	20	31.6	16.9	133: J-10
J-537	TRUE	1,000	2,000	20	29.4	20	25.3	16.9	133: J-10
J-538	TRUE	1,000	2,000	20	33.3	20	36.6	16.9	133: J-10
J-539	TRUE	1,000	2,000	20	34.4	20	34.8	16.9	133: J-10
J-540	TRUE	1,000	2,000	20	34.6	20	35	16.9	133: J-10
J-541	TRUE	1,000	2,000	20	30.8	20	35.1	16.9	133: J-10
J-542	TRUE	1,000	2,000	20	26.3	20	32	16.9	133: J-10
J-543	TRUE	1,000	2,000	20	22.3	20	27.8	16.9	133: J-10
J-544	TRUE	1,000	1,952	20	20	20	27	16.9	133: J-10
J-545	TRUE	1,000	2,000	20	35.9	20	33.3	16.9	133: J-10
J-546	TRUE	1,000	2,000	20	57.2	20	32.8	16.9	133: J-10
J-547	TRUE	1,000	2,000	20	51.6	20	34.8	16.9	133: J-10
J-548	TRUE	1,000	2,000	20	46.7	20	35.1	16.9	133: J-10
J-549	TRUE	1,000	2,000	20	40.2	20	35.1	16.9	133: J-10
J-550	TRUE	1,000	2,000	20	35.2	20	30.3	16.9	133: J-10
J-551	TRUE	1,000	2,000	20	29.1	20	26.3	16.9	133: J-10
J-552	TRUE	1,000	2,000	20	20.8	20	23.6	16.9	133: J-10
J-553	TRUE	1,000	2,000	20	54.6	20	35.6	16.9	133: J-10
J-554	TRUE	1,000	2,000	20	30.2	20	34.5	16.9	133: J-10
J-555	TRUE	1,000	2,000	20	34.8	20	35.9	16.9	133: J-10
J-556	TRUE	1,000	2,000	20	38.5	20	37.8	16.9	133: J-10
J-557	TRUE	1,000	2,000	20	47.7	20	49.4	16.9	133: J-10
J-558	TRUE	1,000	2,000	20	56.2	20	55.7	16.9	133: J-10
J-559	TRUE	1,000	2,000	20	28.4	20	41.9	16.9	133: J-10
J-560	TRUE	1,000	1,997	20	20	20	24.6	16.9	133: J-10
J-561	TRUE	1,000	1,979	20	20	20	25.1	16.9	133: J-10
J-562	TRUE	1,000	1,806	20	20	20	33.5	16.9	133: J-10
J-563	TRUE	1,000	2,000	20	36.3	20	33.2	16.9	133: J-10
J-564	TRUE	1,000	2,000	20	29.5	20	25.6	16.9	133: J-10
J-565	TRUE	1,000	1,911	20	20	20	28.4	16.9	133: J-10
J-566	TRUE	1,000	2,000	20	21.9	20	22.9	16.9	133: J-10
J-567	TRUE	1,000	1,847	20	20.9	20	20	16.9	133: J-10
J-568	TRUE	1,000	1,538	20	30.4	20	20	16.9	133: J-10
J-569	TRUE	1,000	1,367	20	20	20	33.1	16.9	133: J-10
J-570	TRUE	1,000	2,000	20	25.6	20	25.6	16.8	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-571	TRUE	1,000	1,108	20	20	20	50.8	16.9	133: J-10
J-572	TRUE	1,000	1,265	20	20	20	35.5	16.9	133: J-10
J-573	TRUE	1,000	1,438	20	28.8	20	20	16.9	133: J-10
J-574	TRUE	1,000	1,583	20	33.1	20	20	16.9	133: J-10
J-575	TRUE	1,000	1,710	20	36.1	20	20	16.9	133: J-10
J-576	TRUE	1,000	2,000	20	48	20	24.5	16.9	133: J-10
J-577	TRUE	1,000	2,000	20	58.6	20	31	16.9	133: J-10
J-578	TRUE	1,000	2,000	20	40.1	20	20.3	16.8	133: J-10
J-579	TRUE	1,000	2,000	20	37.9	20	21.5	16.8	133: J-10
J-580	TRUE	1,000	2,000	20	53.8	20	24.3	16.8	133: J-10
J-581	TRUE	1,000	2,000	20	54.8	20	26.8	16.8	133: J-10
J-582	TRUE	1,000	2,000	20	47.6	20	22.5	16.8	133: J-10
J-583	TRUE	1,000	2,000	20	35.4	20	23	16.8	133: J-10
J-584	TRUE	1,000	2,000	20	28.8	20	22.9	16.9	133: J-10
J-585	TRUE	1,000	1,772	20	43.3	20	20	16.9	133: J-10
J-586	TRUE	1,000	1,735	20	38.3	20	20	16.9	133: J-10
J-587	TRUE	1,000	1,707	20	28.9	20	20	16.9	133: J-10
J-588	TRUE	1,000	1,576	20	35.2	20	20	16.9	133: J-10
J-589	TRUE	1,000	2,000	20	52.8	20	34.8	16.8	133: J-10
J-590	TRUE	1,000	2,000	20	37.5	20	34.8	16.8	133: J-10
J-591	TRUE	1,000	2,000	20	65.1	20	35.2	16.9	133: J-10
J-592	TRUE	1,000	2,000	20	61.1	20	34.5	16.9	133: J-10
J-594	TRUE	1,000	2,000	20	88.4	20	35.6	16.8	133: J-10
J-595	TRUE	1,000	2,000	20	82.5	20	35.6	16.9	133: J-10
J-596	TRUE	1,000	2,000	20	64.9	20	35.6	16.8	133: J-10
J-597	TRUE	1,000	2,000	20	58.4	20	30.5	16.8	133: J-10
J-598	TRUE	1,000	2,000	20	56.9	20	33.1	16.8	133: J-10
J-599	TRUE	1,000	2,000	20	49.2	20	33.2	16.8	133: J-10
J-600	TRUE	1,000	2,000	20	39	20	33.5	16.8	133: J-10
J-601	TRUE	1,000	2,000	20	46	20	32.6	16.8	133: J-10
J-602	TRUE	1,000	1,863	20	20	20	34.2	16.9	133: J-10
J-603	TRUE	1,000	2,000	20	47.5	20	34.2	16.8	133: J-10
J-604	TRUE	1,000	2,000	20	44.2	20	34.5	16.8	133: J-10
J-605	TRUE	1,000	2,000	20	39.4	20	34.6	16.8	133: J-10
J-606	TRUE	1,000	2,000	20	47.4	20	34.8	16.8	133: J-10
J-607	TRUE	1,000	2,000	20	56.8	20	35	16.8	133: J-10
J-608	TRUE	1,000	2,000	20	53.6	20	34.1	16.8	133: J-10
J-609	TRUE	1,000	2,000	20	41.1	20	33.9	16.8	133: J-10
J-610	TRUE	1,000	2,000	20	45.4	20	34.9	16.8	133: J-10
J-611	TRUE	1,000	2,000	20	42.7	20	34.5	16.8	133: J-10
J-612	TRUE	1,000	2,000	20	43.3	20	34.7	16.8	133: J-10
J-613	TRUE	1,000	2,000	20	43.9	20	31.2	16.5	1979: J-4010
J-614	TRUE	1,000	2,000	20	20.8	20	30.3	16.8	133: J-10
J-615	TRUE	1,000	2,000	20	35.5	20	31.7	16.8	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-616	TRUE	1,000	2,000	20	43.6	20	34.9	16.8	133: J-10
J-617	TRUE	1,000	2,000	20	38.2	20	34.8	16.8	133: J-10
J-618	TRUE	1,000	2,000	20	33.2	20	34.8	16.8	133: J-10
J-619	TRUE	1,000	2,000	20	37.7	20	32.8	16.8	133: J-10
J-620	TRUE	1,000	2,000	20	26.7	20	27.6	16.8	133: J-10
J-621	TRUE	1,000	1,601	20	20	20	35.6	16.9	133: J-10
J-622	TRUE	1,000	2,000	20	26.5	20	24.2	16.8	133: J-10
J-623	TRUE	1,000	2,000	20	30.7	20	32.5	16.8	133: J-10
J-624	TRUE	1,000	2,000	20	35.4	20	35.6	16.9	133: J-10
J-625	TRUE	1,000	1,052	20	20	20	52.5	16.9	133: J-10
J-626	TRUE	1,000	1,301	20	30.4	20	20	16.9	133: J-10
J-627	TRUE	1,000	1,467	20	32.1	20	20	16.9	133: J-10
J-628	TRUE	1,000	1,414	20	20	20	20.9	16.9	133: J-10
J-629	TRUE	1,000	1,279	20	20	20	33.3	16.9	133: J-10
J-630	TRUE	1,000	2,000	20	41.7	20	35.6	16.9	133: J-10
J-631	TRUE	1,000	2,000	20	46.3	20	35.6	16.9	133: J-10
J-632	TRUE	1,000	2,000	20	61.7	20	35.6	16.9	133: J-10
J-633	TRUE	1,000	2,000	20	25.3	20	35.6	16.9	133: J-10
J-634	TRUE	1,000	2,000	20	47.9	20	42.8	16.9	133: J-10
J-635	TRUE	1,000	2,000	20	42.8	20	44.8	16.9	133: J-10
J-637	TRUE	1,000	2,000	20	30.6	20	55.7	16.9	133: J-10
J-638	TRUE	1,000	2,000	20	43.8	20	35.6	16.9	133: J-10
J-639	TRUE	1,000	2,000	20	41.2	20	35.6	16.9	133: J-10
J-640	TRUE	1,000	2,000	20	50.2	20	35.6	16.9	133: J-10
J-641	TRUE	1,000	2,000	20	35.1	20	29.1	16.9	133: J-10
J-642	TRUE	1,000	1,875	20	20	20	20.6	16.9	133: J-10
J-643	TRUE	1,000	1,662	20	20	20	30.4	16.9	133: J-10
J-644	TRUE	1,000	1,096	20	53.8	20	20	16.9	133: J-10
J-645	TRUE	1,000	2,000	20	34.3	20	21.7	7	1979: J-4010
J-647	TRUE	1,000	2,000	20	21.4	20	30	15.3	1979: J-4010
J-648	TRUE	1,000	2,000	20	41.1	20	35.4	16.8	133: J-10
J-649	TRUE	1,000	1,204	20	20	20	35.6	16.9	133: J-10
J-650	FALSE	1,000	978	20	62.4	20	20	16.9	133: J-10
J-651	TRUE	1,000	1,135	20	24.8	20	20	5.3	1979: J-4010
J-652	FALSE	1,000	830	20	43.4	20	20	16.9	133: J-10
J-653	FALSE	1,000	762	20	20	20	21.7	16.9	133: J-10
J-654	FALSE	1,000	769	20	20	20	21	16.9	133: J-10
J-655	TRUE	1,000	1,190	20	20	20	20.5	5.8	1979: J-4010
J-656	TRUE	1,000	2,000	20	47.2	20	35.6	16.8	133: J-10
J-657	FALSE	1,000	972	20	20	20	32.6	5.3	1979: J-4010
J-659	TRUE	1,000	2,000	20	52.5	20	35.6	16.8	133: J-10
J-660	TRUE	1,000	2,000	20	54.8	20	35.6	16.9	133: J-10
J-662	TRUE	1,000	2,000	20	30.8	20	33.1	16.9	133: J-10
J-663	TRUE	1,000	1,786	20	20	20	21.1	16.9	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-664	TRUE	1,000	1,560	20	20	20	24.5	16.9	133: J-10
J-665	TRUE	1,000	1,290	20	20	20	30.1	16.9	133: J-10
J-666	TRUE	1,000	1,694	20	20	20	23.5	16.9	133: J-10
J-667	TRUE	1,000	2,000	20	39	20	35.1	16.9	133: J-10
J-668	TRUE	1,000	1,196	20	20	20	39.8	16.9	133: J-10
J-669	FALSE	1,000	904	20	20	20	35.6	16.8	133: J-10
J-670	TRUE	1,000	1,127	20	37.3	20	20	16.7	133: J-10
J-671	FALSE	1,000	995	20	34.3	20	20	16.7	133: J-10
J-672	TRUE	1,000	1,365	20	42.5	20	20	16.7	133: J-10
J-673	FALSE	1,000	884	20	20	20	26.2	16.8	133: J-10
J-674	TRUE	1,000	2,000	20	73.7	20	35.5	16.5	133: J-10
J-675	TRUE	1,000	2,000	20	27.3	20	31.2	16.9	133: J-10
J-676	TRUE	1,000	1,491	20	23.5	20	20	16.9	133: J-10
J-677	TRUE	1,000	1,193	20	20	20	35.6	16.9	133: J-10
J-679	TRUE	1,000	2,000	20	31.5	20	35.5	16.6	133: J-10
J-680	TRUE	1,000	2,000	20	66.9	20	35.5	16.5	133: J-10
J-681	TRUE	1,000	2,000	20	50.1	20	35.5	16.5	133: J-10
J-682	TRUE	1,000	2,000	20	48.8	20	35.5	16.6	133: J-10
J-683	TRUE	1,000	2,000	20	43.4	20	35.5	16.5	133: J-10
J-684	TRUE	1,000	2,000	20	42.2	20	35.5	16.5	133: J-10
J-685	TRUE	1,000	2,000	20	26.9	20	32	16.6	133: J-10
J-686	TRUE	1,000	1,836	20	20	20	35.5	16.6	133: J-10
J-687	TRUE	1,000	2,000	20	39.2	20	35.5	16.6	133: J-10
J-688	TRUE	1,000	2,000	20	36.7	20	35.5	16.6	133: J-10
J-689	TRUE	1,000	2,000	20	30.8	20	35.5	16.6	133: J-10
J-690	TRUE	1,000	2,000	20	44.8	20	35.5	16.5	133: J-10
J-691	TRUE	1,000	2,000	20	53.1	20	35.5	16.5	133: J-10
J-692	FALSE	1,000	633	20	33.1	20	20	16.9	133: J-10
J-693	FALSE	1,000	633	20	37.1	20	20	16.9	133: J-10
J-694	FALSE	1,000	633	20	36.9	20	20	16.9	133: J-10
J-696	FALSE	1,000	571	20	20	20	36	16.9	133: J-10
J-698	TRUE	1,000	2,000	20	64.3	20	35.6	16.7	133: J-10
J-700	TRUE	1,000	2,000	20	52.1	20	35.6	16.8	133: J-10
J-701	TRUE	1,000	2,000	20	54.7	20	35.6	16.8	133: J-10
J-3000	FALSE	1,000	0	20	59.3	20	16.9	16.9	133: J-10
J-707	TRUE	1,000	2,000	20	90.9	20	35.6	16.8	133: J-10
J-708	TRUE	1,000	2,000	20	44.8	20	52.6	16.9	133: J-10
J-646	TRUE	1,000	1,357	20	26.4	20	20	5.3	1979: J-4010
J-1002	FALSE	1,000	0	20	96.9	20	16.9	16.9	133: J-10
J-703	FALSE	1,000	602	20	20	20	21.5	16.9	133: J-10
J-705	FALSE	1,000	819	20	20	20	20.4	16.9	133: J-10
J-714	TRUE	1,000	2,000	20	67.1	20	35.3	16.6	133: J-10
J-715	TRUE	1,000	2,000	20	20	20	42.8	16.9	133: J-10
J-716	TRUE	1,000	2,000	20	31.7	20	36	16.9	133: J-10

Copperas Cove Water System Study
Fire Flow Analysis Results - Existing System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)
J-717	TRUE	1,000	2,000	20	44.3	20	35.2	16.5	133: J-10
J-718	TRUE	1,000	2,000	20	69.8	20	35.6	16.8	133: J-10
J-719	TRUE	1,000	2,000	20	39.2	20	35.4	16.5	133: J-10
J-720	TRUE	1,000	1,914	20	20	20	27.8	16.5	133: J-10
J-721	TRUE	1,000	1,674	20	20	20	33.4	16.5	133: J-10
J-722	TRUE	1,000	2,000	20	68.8	20	35.5	16.6	133: J-10
J-723	TRUE	1,000	2,000	20	84.2	20	35.5	16.6	133: J-10
J-724	TRUE	1,000	2,000	20	73.7	20	35.5	16.6	133: J-10
J-394	FALSE	1,000	578	20	20	20	23.4	16.9	133: J-10
J-358	TRUE	1,000	1,282	20	20	20	24.4	16.9	133: J-10
J-1001	FALSE	1,000	0	20	97.6	20	16.9	16.9	133: J-10
J-396	TRUE	1,000	2,000	20	40.3	20	38.7	16.9	133: J-10
J-725	FALSE	1,000	962	20	20	20	22.2	16.9	133: J-10
J-704	TRUE	1,000	2,000	20	37.8	20	35.6	16.9	133: J-10
J-726	TRUE	1,000	1,193	20	35.7	20	20	16.9	133: J-10
J-727	TRUE	1,000	2,000	20	80.4	20	35.5	16.5	133: J-10
J-728	TRUE	1,000	2,000	20	60.4	20	35.5	16.5	133: J-10
J-731	TRUE	1,000	2,000	20	83.7	20	35.4	16.5	133: J-10
J-732	TRUE	1,000	2,000	20	61.6	20	35.4	16.5	133: J-10
J-733	TRUE	1,000	2,000	20	76.1	20	35.5	16.4	133: J-10
J-736	TRUE	1,000	2,000	20	56.4	20	35.6	16.9	133: J-10
J-737	TRUE	1,000	2,000	20	58.1	20	55.7	16.9	133: J-10
J-739	TRUE	1,000	2,000	20	48.8	20	29.6	16.7	133: J-10
J-740	TRUE	1,000	2,000	20	69.4	20	35.5	16.5	133: J-10
J-738	FALSE	1,000	0	20	19.7	20	16.9	16.9	133: J-10
J-4007	TRUE	1,000	2,000	20	25.5	20	25.3	16.9	133: J-10
J-4008	TRUE	1,000	2,000	20	24.7	20	26.2	16.9	133: J-10
J-4009	FALSE	1,000	509	20	28.7	20	20	16.9	133: J-10
J-4010	FALSE	1,000	491	20	20	20	26	16.9	133: J-10
J-4012	TRUE	1,000	2,000	20	27.9	20	25.8	16.7	133: J-10
J-4013	TRUE	1,000	2,000	20	32.3	20	25.8	16.7	133: J-10

EXHIBIT F-1

FUTURE CONDITIONS WATER MODEL
AVERAGE DAY

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
124	J-1	1,030.0	121: Zone - PS	0.00	1,260.5	99.7
125	J-2	1,020.0	117: Zone - Central	0.00	1,260.5	104.0
126	J-3	1,040.0	117: Zone - Central	0.00	1,260.5	95.4
127	J-4	1,076.0	117: Zone - Central	0.00	1,260.6	79.9
128	J-5	1,075.0	117: Zone - Central	2.40	1,260.6	80.3
129	J-6	1,056.0	117: Zone - Central	4.50	1,260.4	88.4
130	J-7	1,050.0	117: Zone - Central	0.00	1,260.6	91.1
131	J-8	1,042.0	117: Zone - Central	2.70	1,260.6	94.6
132	J-9	1,120.0	117: Zone - Central	0.00	1,260.7	60.9
133	J-10	1,220.0	121: Zone - PS	0.00	1,260.8	17.7
134	J-11	1,072.0	117: Zone - Central	3.60	1,260.5	81.6
135	J-12	1,078.0	117: Zone - Central	0.00	1,260.5	79.0
136	J-13	1,070.0	117: Zone - Central	0.00	1,260.5	82.4
137	J-14	1,076.0	117: Zone - Central	0.00	1,260.6	79.9
138	J-15	1,108.0	117: Zone - Central	0.00	1,260.8	66.1
596	J-16	1,111.0	117: Zone - Central	0.00	1,260.8	64.8
139	J-17	1,069.0	117: Zone - Central	1.50	1,260.5	82.9
140	J-18	1,058.0	117: Zone - Central	0.00	1,260.4	87.6
141	J-19	1,058.0	117: Zone - Central	3.00	1,260.4	87.6
142	J-20	1,078.0	117: Zone - Central	6.00	1,260.4	78.9
143	J-21	1,070.0	117: Zone - Central	3.90	1,260.4	82.4
144	J-22	1,036.0	117: Zone - Central	3.60	1,260.3	97.1
145	J-23	1,036.0	117: Zone - Central	4.20	1,260.3	97.1
146	J-24	1,036.0	117: Zone - Central	2.70	1,260.3	97.1
147	J-25	1,032.0	117: Zone - Central	0.60	1,260.3	98.8
148	J-26	1,068.0	117: Zone - Central	3.00	1,260.4	83.2
149	J-27	1,072.0	117: Zone - Central	3.00	1,260.3	81.5
150	J-28	1,074.0	117: Zone - Central	2.70	1,260.3	80.6
151	J-29	1,054.0	117: Zone - Central	1.20	1,260.3	89.3
152	J-30	1,041.0	117: Zone - Central	3.30	1,260.3	94.9
153	J-31	1,031.0	117: Zone - Central	2.70	1,260.3	99.2
154	J-32	1,042.0	117: Zone - Central	2.40	1,260.3	94.5
155	J-33	1,048.0	117: Zone - Central	2.40	1,260.3	91.9
156	J-34	1,034.0	117: Zone - Central	1.80	1,260.3	97.9
157	J-35	1,038.0	117: Zone - Central	3.00	1,260.3	96.2
158	J-36	1,030.0	117: Zone - Central	0.00	1,260.3	99.6
159	J-37	1,042.0	117: Zone - Central	0.00	1,260.3	94.5
160	J-38	1,050.0	117: Zone - Central	0.00	1,260.3	91.0
161	J-39	1,027.0	117: Zone - Central	5.10	1,260.0	100.8
162	J-40	1,078.0	117: Zone - Central	3.90	1,260.5	79.0
163	J-41	1,076.0	117: Zone - Central	0.00	1,260.5	79.8
164	J-42	1,050.0	117: Zone - Central	4.50	1,260.5	91.1
165	J-43	1,055.0	117: Zone - Central	7.20	1,260.5	88.9
166	J-44	1,074.0	117: Zone - Central	6.00	1,260.5	80.7
167	J-45	1,070.0	117: Zone - Central	5.70	1,260.5	82.4
168	J-46	1,060.0	117: Zone - Central	3.00	1,260.5	86.7
169	J-47	1,067.0	117: Zone - Central	4.50	1,260.5	83.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
170	J-48	1,070.0	117: Zone - Central	7.20	1,260.5	82.4
171	J-49	1,074.0	117: Zone - Central	0.60	1,260.5	80.7
172	J-50	1,075.0	117: Zone - Central	2.40	1,260.4	80.2
173	J-51	1,073.0	117: Zone - Central	2.10	1,260.3	81.0
174	J-52	1,070.0	117: Zone - Central	3.30	1,260.3	82.3
175	J-53	1,077.0	117: Zone - Central	6.60	1,260.4	79.4
176	J-54	1,058.0	117: Zone - Central	6.60	1,260.1	87.4
177	J-55	1,054.0	117: Zone - Central	5.10	1,260.1	89.2
178	J-56	1,056.0	117: Zone - Central	0.00	1,260.1	88.3
179	J-57	1,074.0	117: Zone - Central	1.80	1,260.1	80.5
180	J-58	1,078.0	117: Zone - Central	5.10	1,260.0	78.8
181	J-59	1,081.0	117: Zone - Central	76.50	1,260.0	77.4
182	J-60	1,076.0	117: Zone - Central	3.60	1,260.0	79.6
183	J-61	1,064.0	117: Zone - Central	6.00	1,259.9	84.8
184	J-62	1,062.0	117: Zone - Central	1.20	1,259.9	85.6
185	J-63	1,062.0	117: Zone - Central	4.80	1,259.9	85.6
186	J-64	1,058.0	117: Zone - Central	8.10	1,259.9	87.4
187	J-65	1,030.0	117: Zone - Central	5.40	1,259.9	99.5
188	J-66	1,036.0	117: Zone - Central	6.00	1,259.9	96.9
189	J-67	1,048.0	117: Zone - Central	3.90	1,259.9	91.7
190	J-69	1,030.0	117: Zone - Central	8.70	1,260.0	99.5
191	J-70	1,044.0	117: Zone - Central	7.50	1,260.0	93.4
192	J-71	1,044.0	117: Zone - Central	3.90	1,260.0	93.4
193	J-72	1,063.0	117: Zone - Central	4.50	1,260.0	85.2
194	J-73	1,054.0	117: Zone - Central	5.40	1,260.0	89.1
195	J-74	1,076.0	117: Zone - Central	4.20	1,260.0	79.6
196	J-75	1,100.0	117: Zone - Central	3.60	1,260.0	69.2
197	J-76	1,066.0	117: Zone - Central	6.60	1,260.0	84.0
198	J-77	1,058.0	117: Zone - Central	4.80	1,260.1	87.4
199	J-78	1,050.0	117: Zone - Central	6.60	1,260.2	90.9
200	J-79	1,060.0	117: Zone - Central	4.80	1,260.3	86.6
201	J-80	1,064.0	117: Zone - Central	2.40	1,260.3	84.9
202	J-81	1,034.0	117: Zone - Central	6.00	1,260.2	97.9
203	J-82	1,032.0	117: Zone - Central	4.20	1,260.2	98.7
204	J-83	1,034.0	117: Zone - Central	4.80	1,260.2	97.9
205	J-84	1,023.0	117: Zone - Central	1.50	1,260.2	102.6
206	J-85	1,060.0	117: Zone - Central	3.60	1,260.2	86.6
207	J-86	1,046.0	117: Zone - Central	0.30	1,260.4	92.7
208	J-87	1,062.0	117: Zone - Central	1.80	1,260.6	85.9
209	J-88	1,062.0	117: Zone - Central	3.60	1,260.6	85.9
210	J-89	1,063.0	117: Zone - Central	1.20	1,260.6	85.5
211	J-90	1,066.0	117: Zone - Central	6.90	1,260.6	84.2
212	J-91	1,078.0	117: Zone - Central	2.70	1,260.6	79.0
213	J-92	1,079.0	117: Zone - Central	5.10	1,260.6	78.6
214	J-93	1,076.0	117: Zone - Central	3.60	1,260.6	79.9
215	J-94	1,078.0	117: Zone - Central	0.00	1,260.6	79.0
216	J-95	1,088.0	117: Zone - Central	1.50	1,260.6	74.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
217	J-96	1,085.0	117: Zone - Central	5.40	1,260.6	76.0
218	J-97	1,110.0	117: Zone - Central	9.00	1,260.7	65.2
219	J-99	1,096.0	117: Zone - Central	2.40	1,260.6	71.2
220	J-100	1,084.0	117: Zone - Central	0.00	1,260.6	76.4
221	J-101	1,081.0	117: Zone - Central	4.50	1,260.6	77.7
222	J-102	1,078.0	117: Zone - Central	7.80	1,260.5	79.0
223	J-103	1,084.0	117: Zone - Central	3.00	1,260.5	76.4
224	J-104	1,084.0	117: Zone - Central	1.50	1,260.5	76.4
225	J-105	1,084.0	117: Zone - Central	0.00	1,260.5	76.4
226	J-106	1,084.0	117: Zone - Central	1.50	1,260.5	76.4
227	J-107	1,086.0	117: Zone - Central	0.00	1,260.5	75.5
228	J-108	1,088.0	117: Zone - Central	1.20	1,260.5	74.6
229	J-109	1,090.0	117: Zone - Central	3.30	1,260.5	73.8
230	J-110	1,090.0	117: Zone - Central	6.60	1,260.6	73.8
231	J-111	1,088.0	117: Zone - Central	5.10	1,260.6	74.7
232	J-112	1,084.0	117: Zone - Central	3.00	1,260.6	76.4
233	J-113	1,072.0	117: Zone - Central	5.40	1,260.5	81.5
234	J-114	1,062.0	117: Zone - Central	4.20	1,260.5	85.9
235	J-115	1,058.0	117: Zone - Central	1.80	1,260.5	87.6
236	J-116	1,065.0	117: Zone - Central	1.20	1,260.5	84.6
237	J-117	1,072.0	117: Zone - Central	3.30	1,260.5	81.6
238	J-118	1,082.0	117: Zone - Central	5.40	1,260.5	77.2
239	J-119	1,058.0	117: Zone - Central	3.60	1,260.3	87.5
240	J-120	1,110.0	117: Zone - Central	2.40	1,260.3	65.0
241	J-121	1,036.0	117: Zone - Central	5.70	1,260.3	97.0
242	J-122	1,030.0	117: Zone - Central	6.90	1,260.3	99.6
243	J-123	1,068.0	117: Zone - Central	4.50	1,260.3	83.2
244	J-124	1,068.0	117: Zone - Central	1.50	1,260.5	83.3
245	J-125	1,070.0	117: Zone - Central	1.50	1,260.5	82.4
246	J-126	1,064.0	117: Zone - Central	1.80	1,260.5	85.0
247	J-127	1,078.0	117: Zone - Central	3.00	1,260.5	79.0
248	J-128	1,084.0	117: Zone - Central	3.60	1,260.5	76.4
249	J-129	1,083.0	117: Zone - Central	3.60	1,260.5	76.8
250	J-130	1,080.0	117: Zone - Central	0.00	1,260.5	78.1
251	J-131	1,081.0	117: Zone - Central	4.20	1,260.5	77.7
252	J-132	1,077.0	117: Zone - Central	1.50	1,260.5	79.4
253	J-133	1,078.0	117: Zone - Central	1.20	1,260.5	78.9
254	J-134	1,082.0	117: Zone - Central	6.00	1,260.6	77.3
255	J-135	1,088.0	117: Zone - Central	0.00	1,260.6	74.7
256	J-136	1,078.0	117: Zone - Central	2.70	1,260.6	79.0
257	J-137	1,088.0	117: Zone - Central	5.10	1,260.5	74.6
258	J-138	1,083.0	117: Zone - Central	3.90	1,260.5	76.8
259	J-139	1,082.0	117: Zone - Central	5.40	1,260.6	77.3
260	J-140	1,085.0	117: Zone - Central	2.40	1,260.6	76.0
261	J-141	1,076.0	117: Zone - Central	4.20	1,260.4	79.8
262	J-142	1,056.0	117: Zone - Central	2.70	1,260.4	88.4
263	J-143	1,046.0	117: Zone - Central	6.00	1,260.3	92.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
264	J-144	1,082.0	117: Zone - Central	2.40	1,260.4	77.2
265	J-145	1,040.0	117: Zone - Central	2.70	1,260.2	95.3
266	J-146	1,057.0	117: Zone - Central	6.30	1,260.3	88.0
267	J-147	1,072.0	117: Zone - Central	8.70	1,260.4	81.5
268	J-148	1,069.0	117: Zone - Central	4.50	1,260.5	82.8
269	J-149	1,059.0	117: Zone - Central	3.60	1,260.3	87.1
270	J-150	1,061.0	117: Zone - Central	3.00	1,260.4	86.3
271	J-151	1,063.0	117: Zone - Central	3.60	1,260.4	85.4
272	J-152	1,080.0	117: Zone - Central	3.30	1,260.5	78.1
273	J-153	1,080.0	117: Zone - Central	4.50	1,260.4	78.0
274	J-154	1,082.0	117: Zone - Central	3.90	1,260.3	77.2
275	J-155	1,079.0	117: Zone - Central	2.70	1,260.3	78.4
276	J-156	1,076.0	117: Zone - Central	0.00	1,260.3	79.7
277	J-157	1,074.0	117: Zone - Central	8.70	1,260.3	80.6
278	J-158	1,067.0	117: Zone - Central	4.50	1,260.2	83.6
279	J-159	1,062.0	117: Zone - Central	4.80	1,260.2	85.8
280	J-160	1,052.0	117: Zone - Central	5.10	1,260.2	90.1
281	J-161	1,057.0	117: Zone - Central	4.20	1,260.2	87.9
282	J-162	1,062.0	117: Zone - Central	5.40	1,260.2	85.8
283	J-163	1,042.0	117: Zone - Central	4.50	1,260.2	94.4
284	J-164	1,035.0	117: Zone - Central	2.70	1,260.2	97.4
285	J-165	1,042.0	117: Zone - Central	3.60	1,260.2	94.4
286	J-166	1,048.0	117: Zone - Central	5.10	1,260.2	91.8
287	J-167	1,060.0	117: Zone - Central	5.10	1,260.3	86.7
288	J-168	1,052.0	117: Zone - Central	204.00	1,260.2	90.1
289	J-169	1,068.0	117: Zone - Central	3.00	1,260.2	83.2
290	J-170	1,058.0	117: Zone - Central	2.40	1,260.2	87.5
291	J-171	1,053.0	117: Zone - Central	3.60	1,260.3	89.7
292	J-172	1,028.0	117: Zone - Central	0.00	1,260.3	100.5
293	J-173	1,022.0	117: Zone - Central	0.00	1,260.3	103.1
294	J-174	1,014.0	117: Zone - Central	0.00	1,260.3	106.6
295	J-175	1,004.0	117: Zone - Central	0.00	1,260.4	110.9
296	J-176	1,096.0	117: Zone - Central	8.70	1,260.3	71.1
297	J-177	1,082.0	117: Zone - Central	4.50	1,260.3	77.1
298	J-178	1,080.0	117: Zone - Central	8.70	1,260.3	78.0
299	J-179	1,002.0	117: Zone - Central	7.80	1,260.2	111.7
300	J-180	1,008.0	117: Zone - Central	4.80	1,260.2	109.1
301	J-181	1,068.0	117: Zone - Central	6.90	1,260.2	83.2
302	J-182	1,107.0	117: Zone - Central	5.10	1,260.3	66.3
303	J-183	1,060.0	117: Zone - Central	5.40	1,260.2	86.6
304	J-184	1,068.0	117: Zone - Central	6.90	1,260.2	83.2
305	J-185	1,012.0	117: Zone - Central	7.20	1,260.2	107.4
306	J-186	1,015.0	117: Zone - Central	6.00	1,260.2	106.1
307	J-187	1,052.0	117: Zone - Central	5.40	1,260.3	90.1
308	J-188	1,071.0	117: Zone - Central	4.50	1,260.2	81.9
309	J-189	1,067.0	117: Zone - Central	4.20	1,260.2	83.6
310	J-190	1,060.0	117: Zone - Central	4.20	1,260.2	86.6

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
311	J-191	1,086.0	117: Zone - Central	86.40	1,259.4	75.0
312	J-192	1,045.0	117: Zone - Central	0.00	1,260.2	93.1
313	J-193	1,082.0	117: Zone - Central	6.60	1,259.2	76.7
314	J-194	1,084.0	117: Zone - Central	25.20	1,259.2	75.8
315	J-196	1,092.0	117: Zone - Central	21.30	1,259.2	72.3
316	J-198	1,095.0	117: Zone - Central	9.30	1,259.2	71.0
317	J-199	1,085.0	117: Zone - Central	9.90	1,259.2	75.3
318	J-200	1,082.0	117: Zone - Central	9.30	1,259.2	76.7
319	J-201	1,082.0	117: Zone - Central	8.10	1,259.2	76.7
320	J-202	1,082.0	117: Zone - Central	8.40	1,259.3	76.7
321	J-204	1,082.0	117: Zone - Central	172.20	1,259.4	76.7
322	J-205	1,042.0	117: Zone - Central	0.90	1,260.1	94.4
323	J-206	1,066.0	117: Zone - Central	6.60	1,259.5	83.7
324	J-207	1,080.0	117: Zone - Central	88.80	1,259.3	77.6
325	J-208	1,058.0	117: Zone - Central	7.50	1,259.9	87.3
326	J-209	1,036.0	117: Zone - Central	0.00	1,260.0	96.9
327	J-210	1,024.0	117: Zone - Central	0.00	1,260.0	102.1
328	J-229	1,074.0	117: Zone - Central	8.70	1,259.3	80.2
329	J-230	1,057.0	117: Zone - Central	0.00	1,259.3	87.5
330	J-231	1,078.0	117: Zone - Central	162.90	1,259.2	78.4
331	J-232	1,068.0	117: Zone - Central	4.80	1,259.3	82.7
332	J-233	1,030.0	117: Zone - Central	155.70	1,259.4	99.2
333	J-234	966.0	117: Zone - Central	0.00	1,259.8	127.1
334	J-235	954.0	117: Zone - Central	0.00	1,260.0	132.4
335	J-236	1,004.0	117: Zone - Central	0.00	1,260.3	110.9
336	J-237	1,046.0	117: Zone - Central	0.90	1,260.2	92.7
337	J-238	1,020.0	117: Zone - Central	0.00	1,260.3	104.0
338	J-239	1,052.0	117: Zone - Central	1.80	1,260.2	90.1
339	J-240	1,052.0	117: Zone - Central	1.50	1,260.2	90.1
340	J-241	1,060.0	117: Zone - Central	0.00	1,260.3	86.7
341	J-242	1,068.0	117: Zone - Central	3.60	1,260.2	83.2
342	J-243	1,076.0	117: Zone - Central	3.60	1,260.2	79.7
343	J-245	1,080.0	117: Zone - Central	16.80	1,260.2	78.0
344	J-246	1,068.0	117: Zone - Central	8.70	1,260.2	83.2
345	J-247	1,062.0	117: Zone - Central	3.00	1,260.2	85.8
346	J-248	1,080.0	117: Zone - Central	8.10	1,260.5	78.1
347	J-249	1,088.0	117: Zone - Central	2.40	1,260.5	74.6
348	J-250	1,090.0	117: Zone - Central	1.80	1,260.6	73.8
349	J-251	1,091.0	117: Zone - Central	1.20	1,260.6	73.4
350	J-252	1,088.0	117: Zone - Central	1.20	1,260.6	74.7
351	J-253	1,083.0	117: Zone - Central	3.00	1,260.6	76.8
352	J-254	1,088.0	117: Zone - Central	1.50	1,260.6	74.7
353	J-255	1,092.0	117: Zone - Central	2.40	1,260.6	72.9
354	J-256	1,100.0	117: Zone - Central	2.40	1,260.6	69.5
355	J-257	1,110.0	117: Zone - Central	2.40	1,260.6	65.1
356	J-258	1,096.0	117: Zone - Central	6.00	1,260.6	71.2
357	J-259	1,103.0	117: Zone - Central	6.00	1,260.6	68.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
358	J-260	1,095.0	117: Zone - Central	1.50	1,260.6	71.6
359	J-261	1,105.0	117: Zone - Central	0.90	1,260.6	67.3
360	J-262	1,102.0	117: Zone - Central	14.10	1,260.5	68.6
361	J-263	1,104.0	117: Zone - Central	11.70	1,260.5	67.7
362	J-264	1,102.0	117: Zone - Central	8.40	1,260.5	68.6
363	J-265	1,100.0	117: Zone - Central	4.50	1,260.5	69.5
364	J-266	1,100.0	117: Zone - Central	6.30	1,260.5	69.5
365	J-267	1,096.0	117: Zone - Central	9.60	1,260.6	71.2
366	J-269	1,097.0	117: Zone - Central	6.60	1,260.5	70.8
367	J-270	1,094.0	117: Zone - Central	6.00	1,260.5	72.1
368	J-271	1,098.0	117: Zone - Central	3.60	1,260.6	70.3
369	J-272	1,113.0	117: Zone - Central	3.60	1,260.6	63.8
370	J-273	1,108.0	117: Zone - Central	6.00	1,260.5	66.0
371	J-274	1,115.0	117: Zone - Central	3.00	1,260.6	63.0
372	J-275	1,110.0	117: Zone - Central	4.20	1,260.5	65.1
373	J-276	1,104.0	117: Zone - Central	9.90	1,260.5	67.7
374	J-277	1,086.0	117: Zone - Central	3.00	1,260.5	75.5
375	J-278	1,082.0	117: Zone - Central	0.00	1,260.6	77.3
376	J-279	1,104.0	117: Zone - Central	1.50	1,260.6	67.7
377	J-280	1,106.0	117: Zone - Central	2.40	1,260.8	67.0
378	J-281	1,110.0	117: Zone - Central	1.20	1,260.7	65.2
379	J-283	1,114.0	117: Zone - Central	0.00	1,260.7	63.5
380	J-284	1,094.0	117: Zone - Central	1.80	1,260.3	72.0
381	J-285	1,084.0	117: Zone - Central	3.00	1,260.5	76.4
382	J-286	1,096.0	117: Zone - Central	0.30	1,260.6	71.2
383	J-287	1,118.0	117: Zone - Central	6.00	1,260.6	61.7
384	J-288	1,076.0	117: Zone - Central	5.10	1,260.5	79.8
385	J-289	1,090.0	117: Zone - Central	3.60	1,260.5	73.8
386	J-290	1,096.0	117: Zone - Central	2.40	1,260.5	71.2
387	J-291	1,093.0	117: Zone - Central	18.00	1,260.6	72.5
388	J-292	1,102.0	117: Zone - Central	3.60	1,260.6	68.6
389	J-293	1,120.0	117: Zone - Central	15.30	1,260.6	60.8
390	J-294	1,142.0	117: Zone - Central	13.80	1,260.6	51.3
391	J-295	1,156.0	117: Zone - Central	4.80	1,260.6	45.3
392	J-297	1,128.0	117: Zone - Central	6.90	1,260.6	57.4
393	J-298	1,120.0	117: Zone - Central	6.30	1,260.6	60.8
394	J-299	1,108.0	117: Zone - Central	13.80	1,260.5	66.0
395	J-300	1,108.0	117: Zone - Central	20.40	1,260.5	66.0
396	J-302	1,104.0	117: Zone - Central	4.20	1,260.5	67.7
397	J-303	1,084.0	117: Zone - Central	6.90	1,260.5	76.4
398	J-304	1,080.0	117: Zone - Central	5.40	1,260.5	78.1
399	J-305	1,086.0	117: Zone - Central	1.20	1,260.5	75.5
400	J-306	1,088.0	117: Zone - Central	3.60	1,260.5	74.6
401	J-307	1,092.0	117: Zone - Central	3.60	1,260.5	72.9
402	J-308	1,084.0	117: Zone - Central	5.10	1,260.5	76.4
403	J-309	1,092.0	117: Zone - Central	3.90	1,260.5	72.9
404	J-310	1,090.0	117: Zone - Central	6.00	1,260.5	73.8

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
405	J-312	1,088.0	117: Zone - Central	2.70	1,260.6	74.7
406	J-313	1,084.0	117: Zone - Central	7.50	1,260.5	76.4
407	J-314	1,082.0	117: Zone - Central	6.00	1,260.5	77.2
408	J-315	1,077.0	117: Zone - Central	0.00	1,260.5	79.4
409	J-317	1,086.0	117: Zone - Central	6.90	1,260.5	75.5
410	J-318	1,088.0	117: Zone - Central	6.30	1,260.5	74.6
411	J-320	1,105.0	117: Zone - Central	5.10	1,260.5	67.3
412	J-321	1,096.0	117: Zone - Central	7.20	1,260.5	71.2
413	J-322	1,160.0	117: Zone - Central	1.80	1,260.6	43.5
414	J-323	1,108.0	117: Zone - Central	4.20	1,260.5	66.0
415	J-324	1,152.0	117: Zone - Central	11.10	1,260.6	47.0
416	J-325	1,173.0	117: Zone - Central	5.10	1,260.6	37.9
417	J-326	1,153.0	117: Zone - Central	13.80	1,260.6	46.5
418	J-327	1,123.0	117: Zone - Central	9.00	1,260.5	59.5
419	J-328	1,114.0	117: Zone - Central	14.40	1,260.5	63.4
420	J-329	1,100.0	117: Zone - Central	3.60	1,260.5	69.5
421	J-330	1,096.0	117: Zone - Central	10.20	1,260.5	71.2
422	J-331	1,086.0	117: Zone - Central	10.50	1,260.5	75.5
423	J-332	1,100.0	117: Zone - Central	8.40	1,260.5	69.4
424	J-333	1,120.0	117: Zone - Central	12.00	1,260.4	60.8
425	J-334	1,142.0	117: Zone - Central	6.00	1,260.4	51.2
426	J-335	1,124.0	117: Zone - Central	4.20	1,260.4	59.0
427	J-336	1,120.0	117: Zone - Central	6.30	1,260.4	60.8
428	J-337	1,128.0	117: Zone - Central	1.80	1,260.4	57.3
429	J-338	1,138.0	117: Zone - Central	2.40	1,260.4	53.0
430	J-339	1,124.0	117: Zone - Central	12.00	1,260.5	59.0
431	J-340	1,116.0	117: Zone - Central	5.40	1,260.5	62.5
432	J-341	1,110.0	117: Zone - Central	5.70	1,260.5	65.1
433	J-342	1,152.0	117: Zone - Central	4.20	1,297.5	62.9
434	J-343	1,148.0	117: Zone - Central	3.60	1,297.5	64.7
435	J-344	1,152.0	117: Zone - Central	1.20	1,297.5	62.9
436	J-345	1,180.0	120: Zone - MountainTop	1.80	1,297.5	50.8
437	J-346	1,170.0	120: Zone - MountainTop	2.70	1,297.4	55.1
438	J-347	1,162.0	120: Zone - MountainTop	1.50	1,297.4	58.6
439	J-348	1,152.0	120: Zone - MountainTop	2.10	1,297.4	62.9
440	J-349	1,140.0	120: Zone - MountainTop	2.40	1,297.4	68.1
441	J-350	1,162.0	120: Zone - MountainTop	2.40	1,297.4	58.6
442	J-351	1,200.0	120: Zone - MountainTop	2.40	1,297.4	42.2
443	J-352	1,184.0	120: Zone - MountainTop	1.20	1,297.5	49.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
444	J-353	1,190.0	120: Zone - MountainTop	0.90	1,297.4	46.5
445	J-354	1,244.0	120: Zone - MountainTop	3.30	1,386.7	61.8
446	J-356	1,172.0	117: Zone - Central	4.80	1,297.5	54.3
447	J-357	1,176.0	117: Zone - Central	2.70	1,297.5	52.6
793	J-358	1,152.0	120: Zone - MountainTop	6.60	1,297.5	62.9
448	J-359	1,195.0	120: Zone - MountainTop	7.50	1,386.9	83.0
449	J-360	1,242.0	120: Zone - MountainTop	5.40	1,386.9	62.7
450	J-361	1,235.0	120: Zone - MountainTop	5.40	1,387.0	65.8
451	J-362	1,260.0	120: Zone - MountainTop	4.80	1,387.3	55.1
452	J-363	1,254.0	120: Zone - MountainTop	4.80	1,387.1	57.6
453	J-364	1,256.0	120: Zone - MountainTop	5.40	1,387.3	56.8
454	J-365	1,260.0	120: Zone - MountainTop	7.80	1,387.0	55.0
455	J-366	1,262.0	120: Zone - MountainTop	4.80	1,387.0	54.1
456	J-367	1,262.0	120: Zone - MountainTop	7.20	1,387.0	54.1
457	J-368	1,258.0	120: Zone - MountainTop	5.40	1,387.0	55.8
458	J-369	1,274.0	120: Zone - MountainTop	9.00	1,387.2	49.0
459	J-370	1,278.0	120: Zone - MountainTop	7.80	1,387.3	47.3
460	J-371	1,272.0	120: Zone - MountainTop	3.00	1,387.2	49.8
461	J-372	1,270.0	120: Zone - MountainTop	10.80	1,387.0	50.6
462	J-373	1,251.0	120: Zone - MountainTop	1.80	1,386.9	58.8
463	J-374	1,243.0	120: Zone - MountainTop	3.60	1,386.8	62.2
464	J-375	1,242.0	120: Zone - MountainTop	3.60	1,386.8	62.7
465	J-376	1,278.0	120: Zone - MountainTop	7.50	1,387.5	47.4
466	J-377	1,283.0	120: Zone - MountainTop	7.80	1,387.4	45.2
467	J-378	1,285.0	120: Zone - MountainTop	5.10	1,387.4	44.3
468	J-379	1,252.0	120: Zone - MountainTop	4.80	1,387.4	58.6

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
469	J-380	1,258.0	120: Zone - MountainTop	7.80	1,387.4	56.0
470	J-381	1,178.0	120: Zone - MountainTop	2.40	1,387.3	90.6
471	J-382	1,172.0	120: Zone - MountainTop	3.60	1,387.3	93.2
472	J-383	1,188.0	120: Zone - MountainTop	2.40	1,387.3	86.2
473	J-384	1,194.0	120: Zone - MountainTop	4.20	1,387.3	83.6
474	J-385	1,200.0	120: Zone - MountainTop	1.20	1,387.3	81.0
475	J-386	1,232.0	120: Zone - MountainTop	1.80	1,387.3	67.2
476	J-387	1,238.0	120: Zone - MountainTop	3.60	1,387.3	64.6
477	J-388	1,250.0	120: Zone - MountainTop	6.00	1,387.3	59.4
478	J-389	1,236.0	120: Zone - MountainTop	1.50	1,387.3	65.5
479	J-390	1,268.0	120: Zone - MountainTop	3.00	1,387.5	51.7
480	J-391	1,282.0	120: Zone - MountainTop	1.50	1,387.6	45.7
481	J-392	1,282.0	120: Zone - MountainTop	4.80	1,387.6	45.7
482	J-393	1,273.0	120: Zone - MountainTop	2.40	1,387.7	49.6
792	J-394	1,225.0	120: Zone - MountainTop	5.40	1,386.7	70.0
483	J-395	1,250.0	120: Zone - MountainTop	5.40	1,387.6	59.5
795	J-396	1,273.0	120: Zone - MountainTop	0.00	1,387.6	49.6
484	J-397	1,285.0	120: Zone - MountainTop	1.50	1,387.6	44.4
485	J-398	1,270.0	120: Zone - MountainTop	0.90	1,387.6	50.9
486	J-400	1,129.0	117: Zone - Central	4.20	1,387.6	111.9
487	J-401	1,100.0	117: Zone - Central	0.00	1,260.5	69.5
488	J-402	1,140.0	117: Zone - Central	3.00	1,260.5	52.2
490	J-405	1,102.0	117: Zone - Central	4.50	1,260.6	68.6
491	J-406	1,094.0	117: Zone - Central	94.00	1,260.6	72.1
492	J-407	1,096.0	117: Zone - Central	1.50	1,260.6	71.2
493	J-408	1,118.0	117: Zone - Central	0.00	1,260.5	61.7
494	J-409	1,076.0	117: Zone - Central	0.00	1,260.6	79.9
495	J-410	1,105.0	117: Zone - Central	0.00	1,260.7	67.4
496	J-411	1,136.0	117: Zone - Central	324.60	1,260.9	54.0
497	J-412	1,110.0	117: Zone - Central	1.50	1,260.7	65.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
498	J-413	1,085.0	117: Zone - Central	9.00	1,260.5	75.9
499	J-414	1,068.0	117: Zone - Central	44.10	1,260.3	83.2
500	J-415	1,108.0	117: Zone - Central	3.00	1,259.6	65.6
501	J-416	1,086.0	117: Zone - Central	4.80	1,258.5	74.6
502	J-417	1,067.0	117: Zone - Central	3.60	1,258.3	82.8
503	J-418	1,054.0	117: Zone - Central	9.60	1,258.2	88.4
504	J-419	1,076.0	117: Zone - Central	6.00	1,258.2	78.8
505	J-420	1,046.0	117: Zone - Central	11.40	1,258.2	91.8
506	J-421	1,042.0	117: Zone - Central	7.20	1,258.2	93.5
507	J-422	1,036.0	117: Zone - Central	4.80	1,258.2	96.1
508	J-423	1,064.0	117: Zone - Central	2.70	1,258.2	84.0
509	J-424	1,067.0	117: Zone - Central	3.60	1,258.3	82.8
510	J-425	1,066.0	117: Zone - Central	3.60	1,258.2	83.2
511	J-426	1,056.0	117: Zone - Central	3.30	1,258.2	87.5
512	J-427	1,063.0	117: Zone - Central	1.50	1,258.2	84.4
513	J-428	1,058.0	117: Zone - Central	1.50	1,258.1	86.6
514	J-429	1,042.0	117: Zone - Central	1.80	1,258.1	93.5
515	J-430	1,083.0	117: Zone - Central	4.50	1,258.3	75.8
516	J-431	1,081.0	117: Zone - Central	3.60	1,258.2	76.7
517	J-432	1,074.0	117: Zone - Central	3.00	1,258.2	79.7
518	J-433	1,076.0	117: Zone - Central	6.90	1,258.2	78.8
519	J-434	1,070.0	117: Zone - Central	1.50	1,258.2	81.4
520	J-435	1,063.0	117: Zone - Central	4.50	1,258.2	84.4
521	J-436	1,052.0	117: Zone - Central	1.50	1,258.2	89.2
522	J-437	1,062.0	117: Zone - Central	1.50	1,258.1	84.9
523	J-438	1,092.0	117: Zone - Central	4.20	1,258.2	71.9
524	J-439	1,090.0	117: Zone - Central	3.00	1,258.2	72.8
525	J-440	1,110.0	117: Zone - Central	3.00	1,258.2	64.1
526	J-441	1,100.0	117: Zone - Central	3.60	1,258.2	68.4
527	J-442	1,090.0	117: Zone - Central	3.60	1,258.2	72.8
528	J-443	1,110.0	117: Zone - Central	3.00	1,258.3	64.2
529	J-444	1,072.0	117: Zone - Central	3.60	1,258.2	80.6
530	J-445	1,064.0	117: Zone - Central	3.00	1,258.2	84.0
531	J-446	990.0	117: Zone - Central	0.00	1,258.1	116.0
532	J-447	1,046.0	117: Zone - Central	1.20	1,258.1	91.8
533	J-448	1,042.0	117: Zone - Central	0.00	1,258.0	93.5
534	J-449	1,048.0	117: Zone - Central	30.00	1,258.2	90.9
535	J-450	1,040.0	117: Zone - Central	198.00	1,255.2	93.1
536	J-451	1,032.0	117: Zone - Central	0.00	1,255.7	96.8
537	J-452	1,012.0	117: Zone - Central	19.50	1,257.2	106.1
538	J-453	1,020.0	117: Zone - Central	167.10	1,257.6	102.8
539	J-454	1,048.0	117: Zone - Central	0.00	1,255.7	89.9
540	J-455	1,014.0	117: Zone - Central	7.50	1,257.2	105.2
541	J-456	1,030.0	117: Zone - Central	6.00	1,257.2	98.3
542	J-457	1,030.0	117: Zone - Central	6.00	1,257.2	98.3
543	J-458	1,060.0	117: Zone - Central	8.40	1,257.3	85.4
544	J-459	1,050.0	117: Zone - Central	12.00	1,257.2	89.6

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
545	J-460	1,096.0	117: Zone - Central	9.00	1,257.2	69.8
546	J-461	1,066.0	117: Zone - Central	6.30	1,257.2	82.7
547	J-462	1,078.0	117: Zone - Central	5.40	1,257.2	77.5
548	J-463	1,060.0	117: Zone - Central	2.40	1,258.1	85.7
549	J-464	1,070.0	117: Zone - Central	1.80	1,258.1	81.4
550	J-465	1,074.0	117: Zone - Central	2.40	1,258.1	79.7
551	J-466	1,080.0	117: Zone - Central	3.00	1,258.2	77.1
552	J-467	1,084.0	117: Zone - Central	0.00	1,258.2	75.3
553	J-468	1,115.0	117: Zone - Central	3.60	1,258.2	61.9
554	J-469	1,068.0	117: Zone - Central	6.00	1,258.1	82.3
555	J-470	1,044.0	117: Zone - Central	9.30	1,258.1	92.6
556	J-471	1,048.0	117: Zone - Central	3.90	1,258.1	90.9
557	J-472	1,056.0	117: Zone - Central	2.40	1,258.1	87.5
558	J-473	1,060.0	117: Zone - Central	2.10	1,258.2	85.7
559	J-474	1,062.0	117: Zone - Central	3.30	1,258.2	84.9
560	J-475	1,050.0	117: Zone - Central	4.20	1,257.9	89.9
561	J-476	1,050.0	117: Zone - Central	3.90	1,257.9	90.0
562	J-477	1,050.0	117: Zone - Central	4.20	1,258.0	90.0
563	J-478	1,052.0	117: Zone - Central	2.70	1,258.1	89.2
564	J-479	1,053.0	117: Zone - Central	3.00	1,258.1	88.8
565	J-480	1,054.0	117: Zone - Central	4.50	1,258.2	88.4
566	J-481	1,058.0	117: Zone - Central	6.60	1,258.3	86.7
567	J-482	1,060.0	117: Zone - Central	6.60	1,258.4	85.8
568	J-483	1,082.0	117: Zone - Central	2.40	1,258.1	76.2
569	J-484	1,120.0	117: Zone - Central	0.90	1,258.0	59.7
570	J-485	1,124.0	117: Zone - Central	3.00	1,258.0	58.0
571	J-486	1,124.0	117: Zone - Central	2.70	1,257.9	57.9
572	J-487	1,138.0	117: Zone - Central	1.20	1,257.9	51.9
573	J-488	1,093.0	117: Zone - Central	3.60	1,258.1	71.5
574	J-489	1,084.0	117: Zone - Central	4.20	1,258.2	75.4
575	J-490	1,080.0	117: Zone - Central	5.70	1,258.3	77.2
576	J-491	1,090.0	117: Zone - Central	6.00	1,258.4	72.9
577	J-492	1,092.0	117: Zone - Central	6.00	1,258.7	72.1
578	J-493	1,094.0	117: Zone - Central	4.80	1,259.1	71.4
579	J-494	1,096.0	117: Zone - Central	3.60	1,259.4	70.7
580	J-495	1,100.0	117: Zone - Central	3.90	1,259.9	69.2
581	J-496	1,062.0	117: Zone - Central	6.60	1,258.6	85.1
582	J-497	1,066.0	117: Zone - Central	2.70	1,258.8	83.4
583	J-498	1,072.0	117: Zone - Central	4.50	1,259.1	81.0
584	J-499	1,078.0	117: Zone - Central	4.80	1,259.4	78.5
585	J-500	1,083.0	117: Zone - Central	30.10	1,259.8	76.5
586	J-501	1,090.0	117: Zone - Central	3.90	1,260.3	73.7
587	J-502	1,100.0	117: Zone - Central	9.00	1,260.4	69.4
588	J-504	1,107.0	117: Zone - Central	7.50	1,260.5	66.4
589	J-505	1,115.0	117: Zone - Central	6.90	1,260.6	63.0
590	J-506	1,127.0	117: Zone - Central	3.00	1,260.7	57.8
591	J-507	1,128.0	117: Zone - Central	3.30	1,260.7	57.4

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
592	J-508	1,118.0	117: Zone - Central	2.10	1,260.7	61.7
593	J-509	1,140.0	117: Zone - Central	6.30	1,260.7	52.2
594	J-510	1,160.0	117: Zone - Central	2.40	1,260.7	43.6
595	J-511	1,132.0	117: Zone - Central	0.00	1,260.8	55.7
597	J-515	1,100.0	117: Zone - Central	0.00	1,260.7	69.5
598	J-517	1,216.0	119: Zone - Rattlesnake	3.60	1,344.8	55.7
599	J-518	1,160.0	119: Zone - Rattlesnake	4.20	1,344.6	79.9
600	J-519	1,150.0	119: Zone - Rattlesnake	2.40	1,344.6	84.2
601	J-520	1,155.0	119: Zone - Rattlesnake	2.70	1,344.5	82.0
602	J-521	1,154.0	119: Zone - Rattlesnake	4.20	1,344.5	82.4
603	J-522	1,148.0	119: Zone - Rattlesnake	4.20	1,344.4	85.0
604	J-523	1,142.0	119: Zone - Rattlesnake	6.00	1,344.4	87.6
605	J-524	1,150.0	119: Zone - Rattlesnake	6.00	1,344.4	84.1
606	J-525	1,152.0	119: Zone - Rattlesnake	5.70	1,344.4	83.2
607	J-526	1,148.0	119: Zone - Rattlesnake	5.70	1,344.4	85.0
608	J-527	1,141.0	119: Zone - Rattlesnake	3.00	1,344.3	88.0
609	J-528	1,140.0	119: Zone - Rattlesnake	4.50	1,344.3	88.4
610	J-529	1,139.0	119: Zone - Rattlesnake	3.30	1,344.3	88.8
611	J-530	1,132.0	119: Zone - Rattlesnake	2.70	1,344.4	91.9
612	J-531	1,125.0	119: Zone - Rattlesnake	2.70	1,344.4	94.9
613	J-532	1,122.0	119: Zone - Rattlesnake	2.40	1,344.4	96.2
614	J-533	1,115.0	119: Zone - Rattlesnake	3.60	1,344.4	99.2
615	J-534	1,110.0	119: Zone - Rattlesnake	4.20	1,344.4	101.4
616	J-535	1,104.0	117: Zone - Central	4.80	1,260.7	67.8
617	J-536	1,125.0	117: Zone - Central	7.80	1,260.7	58.7
618	J-537	1,113.0	117: Zone - Central	6.30	1,260.7	63.9
619	J-538	1,206.0	119: Zone - Rattlesnake	3.90	1,344.7	60.0
620	J-539	1,180.0	119: Zone - Rattlesnake	4.20	1,344.6	71.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
621	J-540	1,160.0	119: Zone - Rattlesnake	2.70	1,344.6	79.9
622	J-541	1,150.0	119: Zone - Rattlesnake	3.00	1,344.6	84.2
623	J-542	1,140.0	119: Zone - Rattlesnake	3.00	1,344.6	88.5
624	J-543	1,130.0	119: Zone - Rattlesnake	2.40	1,344.6	92.8
625	J-544	1,120.0	119: Zone - Rattlesnake	2.40	1,344.6	97.2
626	J-545	1,114.0	117: Zone - Central	3.00	1,260.7	63.5
627	J-546	1,142.0	119: Zone - Rattlesnake	5.40	1,344.6	87.7
628	J-547	1,138.0	119: Zone - Rattlesnake	3.60	1,344.6	89.4
629	J-548	1,132.0	119: Zone - Rattlesnake	3.90	1,344.6	92.0
630	J-549	1,128.0	119: Zone - Rattlesnake	3.30	1,344.6	93.7
631	J-550	1,119.0	119: Zone - Rattlesnake	2.40	1,344.6	97.6
632	J-551	1,114.0	119: Zone - Rattlesnake	3.00	1,344.6	99.8
633	J-552	1,110.0	119: Zone - Rattlesnake	1.80	1,344.6	101.5
634	J-553	1,104.0	117: Zone - Central	3.00	1,260.8	67.8
635	J-554	1,127.0	119: Zone - Rattlesnake	3.00	1,344.9	94.3
636	J-555	1,144.0	119: Zone - Rattlesnake	4.20	1,344.9	86.9
637	J-556	1,192.0	119: Zone - Rattlesnake	3.60	1,344.9	66.2
638	J-557	1,202.0	119: Zone - Rattlesnake	2.10	1,344.9	61.8
639	J-558	1,204.0	119: Zone - Rattlesnake	2.40	1,345.0	61.0
640	J-559	1,196.0	119: Zone - Rattlesnake	3.90	1,344.9	64.4
641	J-560	1,192.0	119: Zone - Rattlesnake	4.20	1,344.9	66.1
642	J-561	1,194.0	119: Zone - Rattlesnake	4.20	1,344.9	65.3
643	J-562	1,198.0	119: Zone - Rattlesnake	6.00	1,344.9	63.5
644	J-563	1,128.0	119: Zone - Rattlesnake	6.90	1,344.9	93.8
645	J-564	1,136.0	119: Zone - Rattlesnake	3.30	1,344.9	90.4
646	J-565	1,189.0	119: Zone - Rattlesnake	3.00	1,344.9	67.4

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
647	J-566	1,150.0	119: Zone - Rattlesnake	2.40	1,344.9	84.3
648	J-567	1,140.0	119: Zone - Rattlesnake	4.20	1,344.9	88.6
649	J-568	1,118.0	119: Zone - Rattlesnake	5.10	1,344.9	98.1
650	J-569	1,086.0	119: Zone - Rattlesnake	1.20	1,344.9	112.0
651	J-570	1,082.0	117: Zone - Central	0.90	1,259.9	77.0
652	J-571	1,142.0	119: Zone - Rattlesnake	3.00	1,344.9	87.8
653	J-572	1,132.0	117: Zone - Central	7.20	1,259.8	55.3
654	J-573	1,110.0	117: Zone - Central	6.60	1,259.8	64.8
655	J-574	1,096.0	117: Zone - Central	6.90	1,259.8	70.9
656	J-575	1,083.0	117: Zone - Central	3.60	1,259.8	76.5
657	J-576	1,060.0	117: Zone - Central	33.00	1,259.9	86.5
658	J-577	1,052.0	117: Zone - Central	1.80	1,260.1	90.0
659	J-578	1,070.0	117: Zone - Central	1.50	1,259.8	82.1
660	J-579	1,058.0	117: Zone - Central	3.30	1,259.8	87.3
661	J-580	1,046.0	117: Zone - Central	3.30	1,259.8	92.5
662	J-581	1,042.0	117: Zone - Central	49.20	1,259.8	94.2
663	J-582	1,052.0	117: Zone - Central	6.30	1,259.8	89.9
664	J-583	1,058.0	117: Zone - Central	6.90	1,259.8	87.3
665	J-584	1,060.0	117: Zone - Central	4.80	1,259.8	86.5
666	J-585	1,076.0	117: Zone - Central	5.10	1,259.8	79.5
667	J-586	1,075.0	117: Zone - Central	9.00	1,259.8	80.0
668	J-587	1,080.0	117: Zone - Central	5.10	1,259.8	77.8
669	J-588	1,088.0	117: Zone - Central	7.20	1,259.8	74.3
670	J-589	1,036.0	117: Zone - Central	3.60	1,260.0	96.9
671	J-590	1,038.0	117: Zone - Central	12.30	1,260.0	96.1
672	J-591	1,028.0	117: Zone - Central	0.00	1,260.1	100.4
673	J-592	1,030.0	117: Zone - Central	5.40	1,260.1	99.6
674	J-594	1,028.0	117: Zone - Central	0.90	1,260.6	100.7
675	J-595	1,046.0	117: Zone - Central	0.60	1,260.7	92.9
676	J-596	1,018.0	117: Zone - Central	1.20	1,260.4	104.9
677	J-597	1,042.0	117: Zone - Central	1.80	1,259.9	94.3
678	J-598	1,056.0	117: Zone - Central	6.30	1,259.9	88.2
679	J-599	1,060.0	117: Zone - Central	5.10	1,259.9	86.5
680	J-600	1,060.0	117: Zone - Central	5.10	1,259.9	86.5
681	J-601	1,050.0	117: Zone - Central	3.90	1,259.9	90.8
682	J-602	1,055.0	117: Zone - Central	1.80	1,259.9	88.7
683	J-603	1,072.0	117: Zone - Central	6.60	1,259.9	81.3
684	J-604	1,070.0	117: Zone - Central	6.00	1,260.0	82.2
685	J-605	1,062.0	117: Zone - Central	3.30	1,260.0	85.6
686	J-606	1,052.0	117: Zone - Central	3.30	1,260.0	90.0
687	J-607	1,050.0	117: Zone - Central	1.20	1,260.0	90.8
688	J-608	1,060.0	117: Zone - Central	0.90	1,259.9	86.5

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
689	J-609	1,070.0	117: Zone - Central	3.30	1,259.9	82.2
690	J-610	1,070.0	117: Zone - Central	3.00	1,260.0	82.2
691	J-611	1,078.0	117: Zone - Central	4.50	1,260.0	78.7
692	J-612	1,084.0	117: Zone - Central	0.90	1,260.0	76.1
693	J-613	1,077.0	117: Zone - Central	1.80	1,260.0	79.2
694	J-614	1,100.0	117: Zone - Central	0.90	1,260.0	69.2
695	J-615	1,090.0	117: Zone - Central	4.50	1,260.0	73.6
696	J-616	1,084.0	117: Zone - Central	3.60	1,260.0	76.2
697	J-617	1,084.0	117: Zone - Central	3.30	1,260.0	76.1
698	J-618	1,084.0	117: Zone - Central	4.50	1,260.0	76.1
699	J-619	1,080.0	117: Zone - Central	3.90	1,260.0	77.9
700	J-620	1,096.0	117: Zone - Central	1.80	1,260.0	70.9
701	J-621	1,108.0	117: Zone - Central	2.10	1,260.0	65.8
702	J-622	1,102.0	117: Zone - Central	4.20	1,260.0	68.4
703	J-623	1,100.0	117: Zone - Central	0.00	1,260.1	69.3
704	J-624	1,102.0	117: Zone - Central	2.70	1,260.1	68.4
705	J-625	1,140.0	119: Zone - Rattlesnake	0.00	1,344.9	88.7
706	J-626	1,116.0	119: Zone - Rattlesnake	4.80	1,344.9	99.0
707	J-627	1,112.0	119: Zone - Rattlesnake	2.70	1,344.9	100.8
708	J-628	1,114.0	119: Zone - Rattlesnake	3.60	1,344.9	99.9
709	J-629	1,112.0	119: Zone - Rattlesnake	4.20	1,344.9	100.8
710	J-630	1,108.0	117: Zone - Central	3.30	1,260.7	66.0
711	J-631	1,100.0	117: Zone - Central	6.00	1,260.6	69.5
712	J-632	1,084.0	117: Zone - Central	17.10	1,260.7	76.5
713	J-633	1,126.0	117: Zone - Central	3.00	1,260.7	58.3
714	J-634	1,140.0	119: Zone - Rattlesnake	3.90	1,344.9	88.7
715	J-635	1,180.0	119: Zone - Rattlesnake	0.90	1,344.9	71.4
716	J-637	1,154.0	119: Zone - Rattlesnake	2.70	1,345.0	82.6
717	J-638	1,092.0	117: Zone - Central	2.70	1,260.7	73.0
718	J-639	1,100.0	117: Zone - Central	3.90	1,260.7	69.5
719	J-640	1,087.0	117: Zone - Central	4.50	1,260.7	75.2
720	J-641	1,098.0	117: Zone - Central	5.70	1,260.7	70.4
721	J-642	1,112.0	117: Zone - Central	3.90	1,260.7	64.3
722	J-643	1,118.0	117: Zone - Central	2.70	1,260.7	61.7
723	J-644	1,136.0	119: Zone - Rattlesnake	5.70	1,344.3	90.1
724	J-645	1,080.0	117: Zone - Central	7.50	1,260.0	77.9
777	J-646	1,097.0	117: Zone - Central	1.20	1,260.2	70.6
725	J-647	1,070.0	117: Zone - Central	60.30	1,259.9	82.2
726	J-648	1,050.0	117: Zone - Central	0.00	1,260.0	90.9

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
727	J-649	1,102.0	117: Zone - Central	4.20	1,260.7	68.7
728	J-650	1,116.0	119: Zone - Rattlesnake	7.50	1,344.3	98.8
729	J-651	1,105.0	117: Zone - Central	0.00	1,260.3	67.2
730	J-652	1,160.0	119: Zone - Rattlesnake	3.60	1,344.3	79.7
731	J-653	1,214.0	119: Zone - Rattlesnake	7.20	1,344.3	56.4
732	J-654	1,214.0	119: Zone - Rattlesnake	7.50	1,344.3	56.4
733	J-655	1,096.0	117: Zone - Central	9.60	1,260.3	71.1
734	J-656	1,077.0	117: Zone - Central	23.00	1,260.3	79.3
735	J-657	1,116.0	117: Zone - Central	2.70	1,260.5	62.5
736	J-659	1,100.0	117: Zone - Central	15.30	1,260.7	69.5
737	J-660	1,104.0	117: Zone - Central	0.00	1,260.8	67.8
738	J-662	1,270.0	120: Zone - MountainTop	3.00	1,387.5	50.8
739	J-663	1,272.0	120: Zone - MountainTop	1.80	1,387.4	49.9
740	J-664	1,272.0	120: Zone - MountainTop	1.80	1,387.4	49.9
741	J-665	1,283.0	120: Zone - MountainTop	3.60	1,387.4	45.2
742	J-666	1,288.0	120: Zone - MountainTop	3.30	1,387.4	43.0
743	J-667	1,278.0	120: Zone - MountainTop	241.80	1,387.4	47.3
744	J-668	1,258.0	120: Zone - MountainTop	2.40	1,387.4	56.0
745	J-669	1,132.0	117: Zone - Central	1.20	1,259.3	55.1
746	J-670	1,092.0	117: Zone - Central	0.90	1,259.3	72.4
747	J-671	1,095.0	117: Zone - Central	3.00	1,259.3	71.1
748	J-672	1,080.0	117: Zone - Central	0.00	1,259.3	77.6
749	J-673	1,100.0	117: Zone - Central	1.20	1,259.3	68.9
750	J-674	1,050.0	117: Zone - Central	109.20	1,259.4	90.6
751	J-675	1,276.0	120: Zone - MountainTop	9.60	1,387.6	48.3
752	J-676	1,246.0	120: Zone - MountainTop	7.20	1,387.9	61.4
753	J-677	1,254.0	120: Zone - MountainTop	132.90	1,388.1	58.0
754	J-679	1,132.0	117: Zone - Central	3.30	1,259.3	55.1
755	J-680	1,073.0	117: Zone - Central	117.00	1,259.3	80.6
756	J-681	1,078.0	117: Zone - Central	1.80	1,259.3	78.4
757	J-682	1,070.0	117: Zone - Central	0.90	1,259.3	81.9
758	J-683	1,083.0	117: Zone - Central	0.60	1,259.3	76.3
759	J-684	1,093.0	117: Zone - Central	1.50	1,259.3	72.0
760	J-685	1,112.0	117: Zone - Central	3.00	1,259.3	63.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
761	J-686	1,118.0	117: Zone - Central	4.80	1,259.3	61.1
762	J-687	1,107.0	117: Zone - Central	1.20	1,259.3	65.9
763	J-688	1,100.0	117: Zone - Central	1.80	1,259.3	68.9
764	J-689	1,088.0	117: Zone - Central	0.00	1,259.3	74.1
765	J-690	1,129.0	117: Zone - Central	118.80	1,259.3	56.4
766	J-691	1,114.0	117: Zone - Central	106.80	1,259.3	62.9
767	J-692	1,140.0	117: Zone - Central	1.20	1,260.3	52.0
768	J-693	1,136.0	117: Zone - Central	2.40	1,260.3	53.8
769	J-694	1,138.0	117: Zone - Central	51.60	1,260.3	52.9
770	J-696	1,177.0	117: Zone - Central	2.40	1,260.3	36.0
771	J-698	1,078.0	117: Zone - Central	2.10	1,260.6	79.0
772	J-700	1,100.0	117: Zone - Central	9.30	1,260.7	69.5
773	J-701	1,050.0	117: Zone - Central	14.70	1,260.0	90.9
779	J-703	1,230.0	120: Zone - MountainTop	0.60	1,386.7	67.8
797	J-704	950.0	117: Zone - Central	0.00	1,065.5	50.0
780	J-705	1,245.0	120: Zone - MountainTop	0.00	1,386.8	61.4
775	J-707	1,020.0	117: Zone - Central	0.00	1,260.6	104.1
776	J-708	1,198.0	119: Zone - Rattlesnake	3.00	1,344.9	63.6
781	J-714	1,080.0	117: Zone - Central	0.00	1,260.6	78.1
782	J-715	1,148.0	119: Zone - Rattlesnake	3.00	1,344.9	85.2
783	J-716	1,150.0	119: Zone - Rattlesnake	1.80	1,344.9	84.3
784	J-717	1,085.0	117: Zone - Central	3.00	1,260.6	76.0
785	J-718	1,055.0	117: Zone - Central	42.90	1,260.6	88.9
786	J-719	1,060.0	117: Zone - Central	18.60	1,259.0	86.1
787	J-720	1,060.0	117: Zone - Central	52.80	1,258.9	86.0
788	J-721	1,042.0	117: Zone - Central	25.50	1,258.8	93.8
789	J-722	1,072.0	117: Zone - Central	0.00	1,260.5	81.6
790	J-723	1,040.0	117: Zone - Central	6.60	1,260.5	95.4
791	J-724	1,050.0	117: Zone - Central	43.00	1,260.4	91.0
796	J-725	1,250.0	120: Zone - MountainTop	0.00	1,386.8	59.2
798	J-726	1,172.0	120: Zone - MountainTop	96.00	1,388.4	93.6
799	J-727	1,030.0	117: Zone - Central	0.00	1,259.4	99.3
800	J-728	1,070.0	117: Zone - Central	77.40	1,259.6	82.0
801	J-729	1,100.0	117: Zone - Central	0.00	1,260.1	69.3
802	J-731	1,050.0	117: Zone - Central	192.30	1,260.2	90.9
803	J-732	1,100.0	117: Zone - Central	0.00	1,260.0	69.2
804	J-733	1,052.0	117: Zone - Central	0.00	1,259.3	89.7
805	J-736	1,120.0	117: Zone - Central	128.10	1,260.8	60.9
806	J-737	1,210.0	119: Zone - Rattlesnake	128.10	1,345.0	58.4
810	J-738	1,020.0	121: Zone - PS	0.00	1,065.5	19.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
807	J-739	1,114.0	117: Zone - Central	0.00	1,260.8	63.5
808	J-740	1,080.0	117: Zone - Central	0.00	1,260.6	78.1
809	J-741	1,104.0	117: Zone - Central	0.00	1,260.6	67.7
794	J-1001	840.0	121: Zone - PS	0.00	1,065.5	97.6
778	J-1002	840.0	121: Zone - PS	0.00	1,064.0	96.9
774	J-3000	1,208.0	121: Zone - PS	0.00	1,345.0	59.3
489	J-4002	1,150.0	121: Zone - PS	0.00	1,260.9	48.0
1949	J-4004	1,239.2	<None>	0.00	1,390.0	65.2
1959	J-4005	1,236.5	<None>	0.00	1,260.0	10.2
1963	J-4006	1,240.0	<None>	0.00	1,260.0	8.7

EXHIBIT F-2

FUTURE CONDITIONS WATER MODEL
MAXIMUM DAY

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
124	J-1	1,030.0	121: Zone - PS	0.00	1,259.3	99.2
125	J-2	1,020.0	117: Zone - Central	0.00	1,259.3	103.5
126	J-3	1,040.0	117: Zone - Central	0.00	1,259.3	94.9
127	J-4	1,076.0	117: Zone - Central	0.00	1,259.5	79.4
128	J-5	1,075.0	117: Zone - Central	5.60	1,259.5	79.8
129	J-6	1,056.0	117: Zone - Central	10.50	1,258.6	87.6
130	J-7	1,050.0	117: Zone - Central	0.00	1,259.6	90.7
131	J-8	1,042.0	117: Zone - Central	6.30	1,259.7	94.2
132	J-9	1,120.0	117: Zone - Central	0.00	1,260.0	60.6
133	J-10	1,220.0	121: Zone - PS	0.00	1,260.5	17.5
134	J-11	1,072.0	117: Zone - Central	8.40	1,259.3	81.0
135	J-12	1,078.0	117: Zone - Central	0.00	1,259.4	78.5
136	J-13	1,070.0	117: Zone - Central	0.00	1,259.4	81.9
137	J-14	1,076.0	117: Zone - Central	0.00	1,259.5	79.4
138	J-15	1,108.0	117: Zone - Central	0.00	1,260.2	65.8
596	J-16	1,111.0	117: Zone - Central	0.00	1,260.3	64.6
139	J-17	1,069.0	117: Zone - Central	3.50	1,259.3	82.3
140	J-18	1,058.0	117: Zone - Central	0.00	1,258.8	86.9
141	J-19	1,058.0	117: Zone - Central	7.00	1,258.8	86.9
142	J-20	1,078.0	117: Zone - Central	14.00	1,258.9	78.2
143	J-21	1,070.0	117: Zone - Central	9.10	1,258.7	81.6
144	J-22	1,036.0	117: Zone - Central	8.40	1,258.6	96.3
145	J-23	1,036.0	117: Zone - Central	9.80	1,258.6	96.3
146	J-24	1,036.0	117: Zone - Central	6.30	1,258.5	96.3
147	J-25	1,032.0	117: Zone - Central	1.40	1,258.5	98.0
148	J-26	1,068.0	117: Zone - Central	7.00	1,258.6	82.5
149	J-27	1,072.0	117: Zone - Central	7.00	1,258.6	80.7
150	J-28	1,074.0	117: Zone - Central	6.30	1,258.6	79.8
151	J-29	1,054.0	117: Zone - Central	2.80	1,258.6	88.5
152	J-30	1,041.0	117: Zone - Central	7.70	1,258.6	94.1
153	J-31	1,031.0	117: Zone - Central	6.30	1,258.5	98.4
154	J-32	1,042.0	117: Zone - Central	5.60	1,258.5	93.7
155	J-33	1,048.0	117: Zone - Central	5.60	1,258.5	91.1
156	J-34	1,034.0	117: Zone - Central	4.20	1,258.5	97.1
157	J-35	1,038.0	117: Zone - Central	7.00	1,258.5	95.4
158	J-36	1,030.0	117: Zone - Central	0.00	1,258.4	98.8
159	J-37	1,042.0	117: Zone - Central	0.00	1,258.5	93.7
160	J-38	1,050.0	117: Zone - Central	0.00	1,258.5	90.2
161	J-39	1,027.0	117: Zone - Central	11.90	1,256.9	99.5
162	J-40	1,078.0	117: Zone - Central	9.10	1,259.3	78.4
163	J-41	1,076.0	117: Zone - Central	0.00	1,259.4	79.3
164	J-42	1,050.0	117: Zone - Central	10.50	1,259.2	90.5
165	J-43	1,055.0	117: Zone - Central	16.80	1,259.1	88.3
166	J-44	1,074.0	117: Zone - Central	14.00	1,259.1	80.1
167	J-45	1,070.0	117: Zone - Central	13.30	1,259.1	81.8
168	J-46	1,060.0	117: Zone - Central	7.00	1,259.1	86.1
169	J-47	1,067.0	117: Zone - Central	10.50	1,259.1	83.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
170	J-48	1,070.0	117: Zone - Central	16.80	1,259.1	81.8
171	J-49	1,074.0	117: Zone - Central	1.40	1,259.2	80.1
172	J-50	1,075.0	117: Zone - Central	5.60	1,258.6	79.4
173	J-51	1,073.0	117: Zone - Central	4.90	1,258.3	80.2
174	J-52	1,070.0	117: Zone - Central	7.70	1,258.3	81.5
175	J-53	1,077.0	117: Zone - Central	15.40	1,258.9	78.7
176	J-54	1,058.0	117: Zone - Central	15.40	1,257.5	86.3
177	J-55	1,054.0	117: Zone - Central	11.90	1,257.3	87.9
178	J-56	1,056.0	117: Zone - Central	0.00	1,257.1	87.0
179	J-57	1,074.0	117: Zone - Central	4.20	1,257.4	79.4
180	J-58	1,078.0	117: Zone - Central	11.90	1,257.1	77.5
181	J-59	1,081.0	117: Zone - Central	178.50	1,256.7	76.0
182	J-60	1,076.0	117: Zone - Central	8.40	1,256.7	78.2
183	J-61	1,064.0	117: Zone - Central	14.00	1,256.6	83.3
184	J-62	1,062.0	117: Zone - Central	2.80	1,256.6	84.2
185	J-63	1,062.0	117: Zone - Central	11.20	1,256.6	84.2
186	J-64	1,058.0	117: Zone - Central	18.90	1,256.5	85.9
187	J-65	1,030.0	117: Zone - Central	12.60	1,256.5	98.0
188	J-66	1,036.0	117: Zone - Central	14.00	1,256.6	95.4
189	J-67	1,048.0	117: Zone - Central	9.10	1,256.6	90.3
190	J-69	1,030.0	117: Zone - Central	20.30	1,256.8	98.1
191	J-70	1,044.0	117: Zone - Central	17.50	1,256.8	92.1
192	J-71	1,044.0	117: Zone - Central	9.10	1,256.8	92.1
193	J-72	1,063.0	117: Zone - Central	10.50	1,256.7	83.8
194	J-73	1,054.0	117: Zone - Central	12.60	1,256.7	87.7
195	J-74	1,076.0	117: Zone - Central	9.80	1,256.9	78.3
196	J-75	1,100.0	117: Zone - Central	8.40	1,256.9	67.9
197	J-76	1,066.0	117: Zone - Central	15.40	1,257.1	82.7
198	J-77	1,058.0	117: Zone - Central	11.20	1,257.4	86.3
199	J-78	1,050.0	117: Zone - Central	15.40	1,257.8	89.9
200	J-79	1,060.0	117: Zone - Central	11.20	1,258.2	85.8
201	J-80	1,064.0	117: Zone - Central	5.60	1,258.3	84.1
202	J-81	1,034.0	117: Zone - Central	14.00	1,258.1	96.9
203	J-82	1,032.0	117: Zone - Central	9.80	1,258.1	97.8
204	J-83	1,034.0	117: Zone - Central	11.20	1,258.1	97.0
205	J-84	1,023.0	117: Zone - Central	3.50	1,258.2	101.8
206	J-85	1,060.0	117: Zone - Central	8.40	1,258.1	85.7
207	J-86	1,046.0	117: Zone - Central	0.70	1,258.6	92.0
208	J-87	1,062.0	117: Zone - Central	4.20	1,259.6	85.5
209	J-88	1,062.0	117: Zone - Central	8.40	1,259.6	85.5
210	J-89	1,063.0	117: Zone - Central	2.80	1,259.5	85.0
211	J-90	1,066.0	117: Zone - Central	16.10	1,259.5	83.7
212	J-91	1,078.0	117: Zone - Central	6.30	1,259.5	78.5
213	J-92	1,079.0	117: Zone - Central	11.90	1,259.5	78.1
214	J-93	1,076.0	117: Zone - Central	8.40	1,259.5	79.4
215	J-94	1,078.0	117: Zone - Central	0.00	1,259.5	78.5
216	J-95	1,088.0	117: Zone - Central	3.50	1,259.6	74.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
217	J-96	1,085.0	117: Zone - Central	12.60	1,259.7	75.6
218	J-97	1,110.0	117: Zone - Central	21.00	1,259.8	64.8
219	J-99	1,096.0	117: Zone - Central	5.60	1,259.6	70.8
220	J-100	1,084.0	117: Zone - Central	0.00	1,259.5	75.9
221	J-101	1,081.0	117: Zone - Central	10.50	1,259.5	77.2
222	J-102	1,078.0	117: Zone - Central	18.20	1,259.4	78.5
223	J-103	1,084.0	117: Zone - Central	7.00	1,259.3	75.9
224	J-104	1,084.0	117: Zone - Central	3.50	1,259.3	75.8
225	J-105	1,084.0	117: Zone - Central	0.00	1,259.3	75.8
226	J-106	1,084.0	117: Zone - Central	3.50	1,259.3	75.8
227	J-107	1,086.0	117: Zone - Central	0.00	1,259.3	75.0
228	J-108	1,088.0	117: Zone - Central	2.80	1,259.4	74.1
229	J-109	1,090.0	117: Zone - Central	7.70	1,259.4	73.3
230	J-110	1,090.0	117: Zone - Central	15.40	1,259.5	73.3
231	J-111	1,088.0	117: Zone - Central	11.90	1,259.5	74.2
232	J-112	1,084.0	117: Zone - Central	7.00	1,259.5	75.9
233	J-113	1,072.0	117: Zone - Central	12.60	1,259.2	81.0
234	J-114	1,062.0	117: Zone - Central	9.80	1,259.2	85.3
235	J-115	1,058.0	117: Zone - Central	4.20	1,259.2	87.1
236	J-116	1,065.0	117: Zone - Central	2.80	1,259.2	84.0
237	J-117	1,072.0	117: Zone - Central	7.70	1,259.2	81.0
238	J-118	1,082.0	117: Zone - Central	12.60	1,259.3	76.7
239	J-119	1,058.0	117: Zone - Central	8.40	1,258.7	86.8
240	J-120	1,110.0	117: Zone - Central	5.60	1,258.6	64.3
241	J-121	1,036.0	117: Zone - Central	13.30	1,258.6	96.3
242	J-122	1,030.0	117: Zone - Central	16.10	1,258.6	98.9
243	J-123	1,068.0	117: Zone - Central	10.50	1,258.7	82.5
244	J-124	1,068.0	117: Zone - Central	3.50	1,259.2	82.7
245	J-125	1,070.0	117: Zone - Central	3.50	1,259.2	81.9
246	J-126	1,064.0	117: Zone - Central	4.20	1,259.2	84.4
247	J-127	1,078.0	117: Zone - Central	7.00	1,259.3	78.4
248	J-128	1,084.0	117: Zone - Central	8.40	1,259.3	75.9
249	J-129	1,083.0	117: Zone - Central	8.40	1,259.0	76.2
250	J-130	1,080.0	117: Zone - Central	0.00	1,259.0	77.5
251	J-131	1,081.0	117: Zone - Central	9.80	1,259.1	77.0
252	J-132	1,077.0	117: Zone - Central	3.50	1,259.3	78.9
253	J-133	1,078.0	117: Zone - Central	2.80	1,259.0	78.3
254	J-134	1,082.0	117: Zone - Central	14.00	1,259.4	76.8
255	J-135	1,088.0	117: Zone - Central	0.00	1,259.4	74.2
256	J-136	1,078.0	117: Zone - Central	6.30	1,259.4	78.5
257	J-137	1,088.0	117: Zone - Central	11.90	1,259.3	74.1
258	J-138	1,083.0	117: Zone - Central	9.10	1,259.3	76.3
259	J-139	1,082.0	117: Zone - Central	12.60	1,259.5	76.8
260	J-140	1,085.0	117: Zone - Central	5.60	1,259.5	75.5
261	J-141	1,076.0	117: Zone - Central	9.80	1,259.1	79.2
262	J-142	1,056.0	117: Zone - Central	6.30	1,259.0	87.8
263	J-143	1,046.0	117: Zone - Central	14.00	1,258.9	92.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
264	J-144	1,082.0	117: Zone - Central	5.60	1,259.0	76.6
265	J-145	1,040.0	117: Zone - Central	6.30	1,258.7	94.6
266	J-146	1,057.0	117: Zone - Central	14.70	1,258.9	87.4
267	J-147	1,072.0	117: Zone - Central	20.30	1,259.1	81.0
268	J-148	1,069.0	117: Zone - Central	10.50	1,259.2	82.3
269	J-149	1,059.0	117: Zone - Central	8.40	1,258.9	86.5
270	J-150	1,061.0	117: Zone - Central	7.00	1,259.0	85.7
271	J-151	1,063.0	117: Zone - Central	8.40	1,259.2	84.9
272	J-152	1,080.0	117: Zone - Central	7.70	1,259.2	77.5
273	J-153	1,080.0	117: Zone - Central	10.50	1,259.0	77.5
274	J-154	1,082.0	117: Zone - Central	9.10	1,258.9	76.5
275	J-155	1,079.0	117: Zone - Central	6.30	1,258.8	77.8
276	J-156	1,076.0	117: Zone - Central	0.00	1,258.8	79.1
277	J-157	1,074.0	117: Zone - Central	20.30	1,258.8	79.9
278	J-158	1,067.0	117: Zone - Central	10.50	1,258.7	82.9
279	J-159	1,062.0	117: Zone - Central	11.20	1,258.7	85.1
280	J-160	1,052.0	117: Zone - Central	11.90	1,258.5	89.4
281	J-161	1,057.0	117: Zone - Central	9.80	1,258.7	87.3
282	J-162	1,062.0	117: Zone - Central	12.60	1,258.7	85.1
283	J-163	1,042.0	117: Zone - Central	10.50	1,258.7	93.8
284	J-164	1,035.0	117: Zone - Central	6.30	1,258.7	96.8
285	J-165	1,042.0	117: Zone - Central	8.40	1,258.7	93.8
286	J-166	1,048.0	117: Zone - Central	11.90	1,258.7	91.2
287	J-167	1,060.0	117: Zone - Central	11.90	1,258.8	86.0
288	J-168	1,052.0	117: Zone - Central	476.00	1,258.7	89.4
289	J-169	1,068.0	117: Zone - Central	7.00	1,258.7	82.5
290	J-170	1,058.0	117: Zone - Central	5.60	1,258.7	86.8
291	J-171	1,053.0	117: Zone - Central	8.40	1,258.8	89.0
292	J-172	1,028.0	117: Zone - Central	0.00	1,258.9	99.9
293	J-173	1,022.0	117: Zone - Central	0.00	1,258.9	102.5
294	J-174	1,014.0	117: Zone - Central	0.00	1,258.9	106.0
295	J-175	1,004.0	117: Zone - Central	0.00	1,259.2	110.4
296	J-176	1,096.0	117: Zone - Central	20.30	1,258.8	70.4
297	J-177	1,082.0	117: Zone - Central	10.50	1,258.7	76.4
298	J-178	1,080.0	117: Zone - Central	20.30	1,258.6	77.3
299	J-179	1,002.0	117: Zone - Central	18.20	1,258.5	111.0
300	J-180	1,008.0	117: Zone - Central	11.20	1,258.5	108.4
301	J-181	1,068.0	117: Zone - Central	16.10	1,258.6	82.4
302	J-182	1,107.0	117: Zone - Central	11.90	1,258.6	65.6
303	J-183	1,060.0	117: Zone - Central	12.60	1,258.7	86.0
304	J-184	1,068.0	117: Zone - Central	16.10	1,258.5	82.4
305	J-185	1,012.0	117: Zone - Central	16.80	1,258.5	106.7
306	J-186	1,015.0	117: Zone - Central	14.00	1,258.5	105.4
307	J-187	1,052.0	117: Zone - Central	12.60	1,258.7	89.4
308	J-188	1,071.0	117: Zone - Central	10.50	1,258.7	81.2
309	J-189	1,067.0	117: Zone - Central	9.80	1,258.7	82.9
310	J-190	1,060.0	117: Zone - Central	9.80	1,258.6	85.9

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
311	J-191	1,086.0	117: Zone - Central	201.60	1,255.6	73.4
312	J-192	1,045.0	117: Zone - Central	0.00	1,258.7	92.5
313	J-193	1,082.0	117: Zone - Central	15.40	1,254.5	74.6
314	J-194	1,084.0	117: Zone - Central	58.80	1,254.2	73.7
315	J-196	1,092.0	117: Zone - Central	49.70	1,254.1	70.1
316	J-198	1,095.0	117: Zone - Central	21.70	1,254.1	68.8
317	J-199	1,085.0	117: Zone - Central	23.10	1,254.1	73.2
318	J-200	1,082.0	117: Zone - Central	21.70	1,254.3	74.5
319	J-201	1,082.0	117: Zone - Central	18.90	1,254.5	74.6
320	J-202	1,082.0	117: Zone - Central	19.60	1,254.7	74.7
321	J-204	1,082.0	117: Zone - Central	401.80	1,255.2	75.0
322	J-205	1,042.0	117: Zone - Central	2.10	1,258.2	93.5
323	J-206	1,066.0	117: Zone - Central	15.40	1,255.5	82.0
324	J-207	1,080.0	117: Zone - Central	207.20	1,254.1	75.3
325	J-208	1,058.0	117: Zone - Central	17.50	1,257.0	86.1
326	J-209	1,036.0	117: Zone - Central	0.00	1,257.7	95.9
327	J-210	1,024.0	117: Zone - Central	0.00	1,257.7	101.1
328	J-229	1,074.0	117: Zone - Central	20.30	1,255.0	78.3
329	J-230	1,057.0	117: Zone - Central	0.00	1,254.8	85.6
330	J-231	1,078.0	117: Zone - Central	380.10	1,254.5	76.3
331	J-232	1,068.0	117: Zone - Central	11.20	1,254.5	80.7
332	J-233	1,030.0	117: Zone - Central	363.30	1,254.9	97.3
333	J-234	966.0	117: Zone - Central	0.00	1,256.7	125.8
334	J-235	954.0	117: Zone - Central	0.00	1,257.7	131.4
335	J-236	1,004.0	117: Zone - Central	0.00	1,258.9	110.3
336	J-237	1,046.0	117: Zone - Central	2.10	1,258.2	91.8
337	J-238	1,020.0	117: Zone - Central	0.00	1,258.9	103.4
338	J-239	1,052.0	117: Zone - Central	4.20	1,258.7	89.4
339	J-240	1,052.0	117: Zone - Central	3.50	1,258.7	89.4
340	J-241	1,060.0	117: Zone - Central	0.00	1,258.8	86.0
341	J-242	1,068.0	117: Zone - Central	8.40	1,258.7	82.5
342	J-243	1,076.0	117: Zone - Central	8.40	1,258.6	79.0
343	J-245	1,080.0	117: Zone - Central	39.20	1,258.5	77.2
344	J-246	1,068.0	117: Zone - Central	20.30	1,258.6	82.5
345	J-247	1,062.0	117: Zone - Central	7.00	1,258.7	85.1
346	J-248	1,080.0	117: Zone - Central	18.90	1,259.3	77.6
347	J-249	1,088.0	117: Zone - Central	5.60	1,259.4	74.1
348	J-250	1,090.0	117: Zone - Central	4.20	1,259.4	73.3
349	J-251	1,091.0	117: Zone - Central	2.80	1,259.4	72.9
350	J-252	1,088.0	117: Zone - Central	2.80	1,259.4	74.2
351	J-253	1,083.0	117: Zone - Central	7.00	1,259.5	76.3
352	J-254	1,088.0	117: Zone - Central	3.50	1,259.4	74.2
353	J-255	1,092.0	117: Zone - Central	5.60	1,259.4	72.4
354	J-256	1,100.0	117: Zone - Central	5.60	1,259.4	69.0
355	J-257	1,110.0	117: Zone - Central	5.60	1,259.4	64.6
356	J-258	1,096.0	117: Zone - Central	14.00	1,259.5	70.7
357	J-259	1,103.0	117: Zone - Central	14.00	1,259.5	67.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
358	J-260	1,095.0	117: Zone - Central	3.50	1,259.4	71.1
359	J-261	1,105.0	117: Zone - Central	2.10	1,259.4	66.8
360	J-262	1,102.0	117: Zone - Central	32.90	1,259.3	68.1
361	J-263	1,104.0	117: Zone - Central	27.30	1,259.3	67.2
362	J-264	1,102.0	117: Zone - Central	19.60	1,259.2	68.0
363	J-265	1,100.0	117: Zone - Central	10.50	1,259.2	68.9
364	J-266	1,100.0	117: Zone - Central	14.70	1,259.3	68.9
365	J-267	1,096.0	117: Zone - Central	22.40	1,259.3	70.7
366	J-269	1,097.0	117: Zone - Central	15.40	1,259.3	70.2
367	J-270	1,094.0	117: Zone - Central	14.00	1,259.3	71.5
368	J-271	1,098.0	117: Zone - Central	8.40	1,259.5	69.9
369	J-272	1,113.0	117: Zone - Central	8.40	1,259.4	63.3
370	J-273	1,108.0	117: Zone - Central	14.00	1,259.3	65.5
371	J-274	1,115.0	117: Zone - Central	7.00	1,259.4	62.5
372	J-275	1,110.0	117: Zone - Central	9.80	1,259.2	64.6
373	J-276	1,104.0	117: Zone - Central	23.10	1,259.2	67.2
374	J-277	1,086.0	117: Zone - Central	7.00	1,259.2	74.9
375	J-278	1,082.0	117: Zone - Central	0.00	1,259.5	76.8
376	J-279	1,104.0	117: Zone - Central	3.50	1,259.4	67.2
377	J-280	1,106.0	117: Zone - Central	5.60	1,260.2	66.7
378	J-281	1,110.0	117: Zone - Central	2.80	1,259.9	64.9
379	J-283	1,114.0	117: Zone - Central	0.00	1,259.9	63.1
380	J-284	1,094.0	117: Zone - Central	4.20	1,258.5	71.2
381	J-285	1,084.0	117: Zone - Central	7.00	1,259.2	75.8
382	J-286	1,096.0	117: Zone - Central	0.70	1,259.4	70.7
383	J-287	1,118.0	117: Zone - Central	14.00	1,259.4	61.2
384	J-288	1,076.0	117: Zone - Central	11.90	1,259.1	79.2
385	J-289	1,090.0	117: Zone - Central	8.40	1,259.2	73.2
386	J-290	1,096.0	117: Zone - Central	5.60	1,259.3	70.6
387	J-291	1,093.0	117: Zone - Central	42.00	1,259.5	72.0
388	J-292	1,102.0	117: Zone - Central	8.40	1,259.5	68.1
389	J-293	1,120.0	117: Zone - Central	35.70	1,259.5	60.4
390	J-294	1,142.0	117: Zone - Central	32.20	1,259.6	50.9
391	J-295	1,156.0	117: Zone - Central	11.20	1,259.6	44.8
392	J-297	1,128.0	117: Zone - Central	16.10	1,259.6	56.9
393	J-298	1,120.0	117: Zone - Central	14.70	1,259.4	60.3
394	J-299	1,108.0	117: Zone - Central	32.20	1,259.3	65.5
395	J-300	1,108.0	117: Zone - Central	47.60	1,259.3	65.4
396	J-302	1,104.0	117: Zone - Central	9.80	1,259.3	67.2
397	J-303	1,084.0	117: Zone - Central	16.10	1,259.3	75.8
398	J-304	1,080.0	117: Zone - Central	12.60	1,259.3	77.6
399	J-305	1,086.0	117: Zone - Central	2.80	1,259.3	75.0
400	J-306	1,088.0	117: Zone - Central	8.40	1,259.3	74.1
401	J-307	1,092.0	117: Zone - Central	8.40	1,259.3	72.4
402	J-308	1,084.0	117: Zone - Central	11.90	1,259.3	75.8
403	J-309	1,092.0	117: Zone - Central	9.10	1,259.3	72.4
404	J-310	1,090.0	117: Zone - Central	14.00	1,259.3	73.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
405	J-312	1,088.0	117: Zone - Central	6.30	1,259.4	74.2
406	J-313	1,084.0	117: Zone - Central	17.50	1,259.3	75.8
407	J-314	1,082.0	117: Zone - Central	14.00	1,259.3	76.7
408	J-315	1,077.0	117: Zone - Central	0.00	1,259.3	78.9
409	J-317	1,086.0	117: Zone - Central	16.10	1,259.3	75.0
410	J-318	1,088.0	117: Zone - Central	14.70	1,259.3	74.1
411	J-320	1,105.0	117: Zone - Central	11.90	1,259.3	66.7
412	J-321	1,096.0	117: Zone - Central	16.80	1,259.3	70.6
413	J-322	1,160.0	117: Zone - Central	4.20	1,259.8	43.2
414	J-323	1,108.0	117: Zone - Central	9.80	1,259.3	65.5
415	J-324	1,152.0	117: Zone - Central	25.90	1,259.5	46.5
416	J-325	1,173.0	117: Zone - Central	11.90	1,259.4	37.4
417	J-326	1,153.0	117: Zone - Central	32.20	1,259.3	46.0
418	J-327	1,123.0	117: Zone - Central	21.00	1,259.3	59.0
419	J-328	1,114.0	117: Zone - Central	33.60	1,259.2	62.8
420	J-329	1,100.0	117: Zone - Central	8.40	1,259.2	68.9
421	J-330	1,096.0	117: Zone - Central	23.80	1,259.2	70.6
422	J-331	1,086.0	117: Zone - Central	24.50	1,259.0	74.9
423	J-332	1,100.0	117: Zone - Central	19.60	1,259.0	68.8
424	J-333	1,120.0	117: Zone - Central	28.00	1,258.8	60.1
425	J-334	1,142.0	117: Zone - Central	14.00	1,258.8	50.5
426	J-335	1,124.0	117: Zone - Central	9.80	1,258.8	58.3
427	J-336	1,120.0	117: Zone - Central	14.70	1,258.8	60.1
428	J-337	1,128.0	117: Zone - Central	4.20	1,258.8	56.6
429	J-338	1,138.0	117: Zone - Central	5.60	1,258.8	52.3
430	J-339	1,124.0	117: Zone - Central	28.00	1,258.9	58.3
431	J-340	1,116.0	117: Zone - Central	12.60	1,258.9	61.8
432	J-341	1,110.0	117: Zone - Central	13.30	1,258.9	64.4
433	J-342	1,152.0	117: Zone - Central	9.80	1,297.4	62.9
434	J-343	1,148.0	117: Zone - Central	8.40	1,297.4	64.7
435	J-344	1,152.0	117: Zone - Central	2.80	1,297.4	62.9
436	J-345	1,180.0	120: Zone - MountainTop	4.20	1,297.4	50.8
437	J-346	1,170.0	120: Zone - MountainTop	6.30	1,297.4	55.1
438	J-347	1,162.0	120: Zone - MountainTop	3.50	1,297.4	58.6
439	J-348	1,152.0	120: Zone - MountainTop	4.90	1,297.4	62.9
440	J-349	1,140.0	120: Zone - MountainTop	5.60	1,297.4	68.1
441	J-350	1,162.0	120: Zone - MountainTop	5.60	1,297.4	58.6
442	J-351	1,200.0	120: Zone - MountainTop	5.60	1,297.4	42.2
443	J-352	1,184.0	120: Zone - MountainTop	2.80	1,297.4	49.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
444	J-353	1,190.0	120: Zone - MountainTop	2.10	1,297.4	46.5
445	J-354	1,244.0	120: Zone - MountainTop	7.70	1,380.4	59.0
446	J-356	1,172.0	117: Zone - Central	11.20	1,297.4	54.3
447	J-357	1,176.0	117: Zone - Central	6.30	1,297.5	52.5
793	J-358	1,152.0	120: Zone - MountainTop	15.40	1,297.4	62.9
448	J-359	1,195.0	120: Zone - MountainTop	17.50	1,381.5	80.7
449	J-360	1,242.0	120: Zone - MountainTop	12.60	1,381.6	60.4
450	J-361	1,235.0	120: Zone - MountainTop	12.60	1,382.0	63.6
451	J-362	1,260.0	120: Zone - MountainTop	11.20	1,383.5	53.4
452	J-363	1,254.0	120: Zone - MountainTop	11.20	1,382.3	55.5
453	J-364	1,256.0	120: Zone - MountainTop	12.60	1,383.5	55.2
454	J-365	1,260.0	120: Zone - MountainTop	18.20	1,382.0	52.8
455	J-366	1,262.0	120: Zone - MountainTop	11.20	1,381.9	51.9
456	J-367	1,262.0	120: Zone - MountainTop	16.80	1,381.9	51.9
457	J-368	1,258.0	120: Zone - MountainTop	12.60	1,381.9	53.6
458	J-369	1,274.0	120: Zone - MountainTop	21.00	1,382.9	47.1
459	J-370	1,278.0	120: Zone - MountainTop	18.20	1,383.3	45.6
460	J-371	1,272.0	120: Zone - MountainTop	7.00	1,382.9	48.0
461	J-372	1,270.0	120: Zone - MountainTop	25.20	1,381.9	48.4
462	J-373	1,251.0	120: Zone - MountainTop	4.20	1,381.6	56.5
463	J-374	1,243.0	120: Zone - MountainTop	8.40	1,381.1	59.7
464	J-375	1,242.0	120: Zone - MountainTop	8.40	1,380.9	60.1
465	J-376	1,278.0	120: Zone - MountainTop	17.50	1,384.4	46.0
466	J-377	1,283.0	120: Zone - MountainTop	18.20	1,384.0	43.7
467	J-378	1,285.0	120: Zone - MountainTop	11.90	1,383.9	42.8
468	J-379	1,252.0	120: Zone - MountainTop	11.20	1,383.8	57.0

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
469	J-380	1,258.0	120: Zone - MountainTop	18.20	1,383.9	54.5
470	J-381	1,178.0	120: Zone - MountainTop	5.60	1,383.5	88.9
471	J-382	1,172.0	120: Zone - MountainTop	8.40	1,383.5	91.5
472	J-383	1,188.0	120: Zone - MountainTop	5.60	1,383.5	84.6
473	J-384	1,194.0	120: Zone - MountainTop	9.80	1,383.5	82.0
474	J-385	1,200.0	120: Zone - MountainTop	2.80	1,383.5	79.4
475	J-386	1,232.0	120: Zone - MountainTop	4.20	1,383.5	65.6
476	J-387	1,238.0	120: Zone - MountainTop	8.40	1,383.5	63.0
477	J-388	1,250.0	120: Zone - MountainTop	14.00	1,383.5	57.8
478	J-389	1,236.0	120: Zone - MountainTop	3.50	1,383.5	63.8
479	J-390	1,268.0	120: Zone - MountainTop	7.00	1,384.5	50.4
480	J-391	1,282.0	120: Zone - MountainTop	3.50	1,385.1	44.6
481	J-392	1,282.0	120: Zone - MountainTop	11.20	1,385.6	44.8
482	J-393	1,273.0	120: Zone - MountainTop	5.60	1,385.8	48.8
792	J-394	1,225.0	120: Zone - MountainTop	12.60	1,380.4	67.2
483	J-395	1,250.0	120: Zone - MountainTop	12.60	1,385.7	58.7
795	J-396	1,273.0	120: Zone - MountainTop	0.00	1,385.7	48.8
484	J-397	1,285.0	120: Zone - MountainTop	3.50	1,385.1	43.3
485	J-398	1,270.0	120: Zone - MountainTop	2.10	1,385.1	49.8
486	J-400	1,129.0	117: Zone - Central	9.80	1,385.1	110.8
487	J-401	1,100.0	117: Zone - Central	0.00	1,259.2	68.9
488	J-402	1,140.0	117: Zone - Central	7.00	1,259.2	51.6
490	J-405	1,102.0	117: Zone - Central	10.50	1,259.6	68.2
491	J-406	1,094.0	117: Zone - Central	0.00	1,259.5	71.6
492	J-407	1,096.0	117: Zone - Central	3.50	1,259.5	70.7
493	J-408	1,118.0	117: Zone - Central	0.00	1,259.1	61.1
494	J-409	1,076.0	117: Zone - Central	0.00	1,259.3	79.3
495	J-410	1,105.0	117: Zone - Central	0.00	1,259.7	66.9
496	J-411	1,136.0	117: Zone - Central	757.40	1,260.5	53.9
497	J-412	1,110.0	117: Zone - Central	3.50	1,259.7	64.8

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
498	J-413	1,085.0	117: Zone - Central	21.00	1,258.7	75.2
499	J-414	1,068.0	117: Zone - Central	102.90	1,258.1	82.3
500	J-415	1,108.0	117: Zone - Central	7.00	1,254.8	63.5
501	J-416	1,086.0	117: Zone - Central	11.20	1,249.4	70.7
502	J-417	1,067.0	117: Zone - Central	8.40	1,248.5	78.5
503	J-418	1,054.0	117: Zone - Central	22.40	1,248.3	84.1
504	J-419	1,076.0	117: Zone - Central	14.00	1,248.3	74.5
505	J-420	1,046.0	117: Zone - Central	26.60	1,248.1	87.4
506	J-421	1,042.0	117: Zone - Central	16.80	1,248.1	89.2
507	J-422	1,036.0	117: Zone - Central	11.20	1,248.0	91.7
508	J-423	1,064.0	117: Zone - Central	6.30	1,248.1	79.6
509	J-424	1,067.0	117: Zone - Central	8.40	1,248.5	78.5
510	J-425	1,066.0	117: Zone - Central	8.40	1,248.3	78.9
511	J-426	1,056.0	117: Zone - Central	7.70	1,248.1	83.1
512	J-427	1,063.0	117: Zone - Central	3.50	1,248.0	80.0
513	J-428	1,058.0	117: Zone - Central	3.50	1,247.9	82.2
514	J-429	1,042.0	117: Zone - Central	4.20	1,247.8	89.0
515	J-430	1,083.0	117: Zone - Central	10.50	1,248.6	71.7
516	J-431	1,081.0	117: Zone - Central	8.40	1,248.3	72.4
517	J-432	1,074.0	117: Zone - Central	7.00	1,248.2	75.3
518	J-433	1,076.0	117: Zone - Central	16.10	1,248.1	74.4
519	J-434	1,070.0	117: Zone - Central	3.50	1,248.0	77.0
520	J-435	1,063.0	117: Zone - Central	10.50	1,248.0	80.0
521	J-436	1,052.0	117: Zone - Central	3.50	1,248.1	84.8
522	J-437	1,062.0	117: Zone - Central	3.50	1,247.9	80.4
523	J-438	1,092.0	117: Zone - Central	9.80	1,248.0	67.5
524	J-439	1,090.0	117: Zone - Central	7.00	1,248.2	68.4
525	J-440	1,110.0	117: Zone - Central	7.00	1,248.2	59.8
526	J-441	1,100.0	117: Zone - Central	8.40	1,248.2	64.1
527	J-442	1,090.0	117: Zone - Central	8.40	1,248.2	68.4
528	J-443	1,110.0	117: Zone - Central	7.00	1,248.6	60.0
529	J-444	1,072.0	117: Zone - Central	8.40	1,248.3	76.3
530	J-445	1,064.0	117: Zone - Central	7.00	1,248.2	79.7
531	J-446	990.0	117: Zone - Central	0.00	1,247.8	111.5
532	J-447	1,046.0	117: Zone - Central	2.80	1,247.8	87.3
533	J-448	1,042.0	117: Zone - Central	0.00	1,247.4	88.9
534	J-449	1,048.0	117: Zone - Central	70.00	1,248.2	86.6
535	J-450	1,040.0	117: Zone - Central	462.00	1,233.8	83.9
536	J-451	1,032.0	117: Zone - Central	0.00	1,236.2	88.3
537	J-452	1,012.0	117: Zone - Central	45.50	1,243.4	100.1
538	J-453	1,020.0	117: Zone - Central	389.90	1,245.5	97.6
539	J-454	1,048.0	117: Zone - Central	0.00	1,236.2	81.4
540	J-455	1,014.0	117: Zone - Central	17.50	1,243.4	99.2
541	J-456	1,030.0	117: Zone - Central	14.00	1,243.5	92.4
542	J-457	1,030.0	117: Zone - Central	14.00	1,243.6	92.4
543	J-458	1,060.0	117: Zone - Central	19.60	1,244.0	79.6
544	J-459	1,050.0	117: Zone - Central	28.00	1,243.4	83.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
545	J-460	1,096.0	117: Zone - Central	21.00	1,243.6	63.8
546	J-461	1,066.0	117: Zone - Central	14.70	1,243.5	76.8
547	J-462	1,078.0	117: Zone - Central	12.60	1,243.5	71.6
548	J-463	1,060.0	117: Zone - Central	5.60	1,247.8	81.3
549	J-464	1,070.0	117: Zone - Central	4.20	1,247.9	77.0
550	J-465	1,074.0	117: Zone - Central	5.60	1,248.0	75.3
551	J-466	1,080.0	117: Zone - Central	7.00	1,248.0	72.7
552	J-467	1,084.0	117: Zone - Central	0.00	1,248.0	71.0
553	J-468	1,115.0	117: Zone - Central	8.40	1,248.0	57.6
554	J-469	1,068.0	117: Zone - Central	14.00	1,248.0	77.9
555	J-470	1,044.0	117: Zone - Central	21.70	1,247.6	88.1
556	J-471	1,048.0	117: Zone - Central	9.10	1,247.7	86.4
557	J-472	1,056.0	117: Zone - Central	5.60	1,247.9	83.0
558	J-473	1,060.0	117: Zone - Central	4.90	1,248.0	81.4
559	J-474	1,062.0	117: Zone - Central	7.70	1,248.3	80.6
560	J-475	1,050.0	117: Zone - Central	9.80	1,246.6	85.1
561	J-476	1,050.0	117: Zone - Central	9.10	1,247.0	85.2
562	J-477	1,050.0	117: Zone - Central	9.80	1,247.3	85.3
563	J-478	1,052.0	117: Zone - Central	6.30	1,247.7	84.7
564	J-479	1,053.0	117: Zone - Central	7.00	1,248.0	84.4
565	J-480	1,054.0	117: Zone - Central	10.50	1,248.5	84.1
566	J-481	1,058.0	117: Zone - Central	15.40	1,248.8	82.6
567	J-482	1,060.0	117: Zone - Central	15.40	1,249.2	81.8
568	J-483	1,082.0	117: Zone - Central	5.60	1,247.7	71.7
569	J-484	1,120.0	117: Zone - Central	2.10	1,247.4	55.1
570	J-485	1,124.0	117: Zone - Central	7.00	1,247.3	53.3
571	J-486	1,124.0	117: Zone - Central	6.30	1,247.0	53.2
572	J-487	1,138.0	117: Zone - Central	2.80	1,246.9	47.1
573	J-488	1,093.0	117: Zone - Central	8.40	1,248.0	67.1
574	J-489	1,084.0	117: Zone - Central	9.80	1,248.4	71.1
575	J-490	1,080.0	117: Zone - Central	13.30	1,248.9	73.1
576	J-491	1,090.0	117: Zone - Central	14.00	1,249.5	69.0
577	J-492	1,092.0	117: Zone - Central	14.00	1,250.7	68.7
578	J-493	1,094.0	117: Zone - Central	11.20	1,252.7	68.7
579	J-494	1,096.0	117: Zone - Central	8.40	1,254.4	68.5
580	J-495	1,100.0	117: Zone - Central	9.10	1,256.6	67.7
581	J-496	1,062.0	117: Zone - Central	15.40	1,250.4	81.5
582	J-497	1,066.0	117: Zone - Central	6.30	1,251.4	80.2
583	J-498	1,072.0	117: Zone - Central	10.50	1,252.8	78.2
584	J-499	1,078.0	117: Zone - Central	11.20	1,254.4	76.3
585	J-500	1,083.0	117: Zone - Central	11.90	1,256.3	75.0
586	J-501	1,090.0	117: Zone - Central	9.10	1,258.1	72.7
587	J-502	1,100.0	117: Zone - Central	21.00	1,258.5	68.6
588	J-504	1,107.0	117: Zone - Central	17.50	1,258.9	65.7
589	J-505	1,115.0	117: Zone - Central	16.10	1,259.4	62.5
590	J-506	1,127.0	117: Zone - Central	7.00	1,259.7	57.4
591	J-507	1,128.0	117: Zone - Central	7.70	1,259.7	57.0

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
592	J-508	1,118.0	117: Zone - Central	4.90	1,259.8	61.4
593	J-509	1,140.0	117: Zone - Central	14.70	1,259.8	51.8
594	J-510	1,160.0	117: Zone - Central	5.60	1,259.8	43.2
595	J-511	1,132.0	117: Zone - Central	0.00	1,260.2	55.5
597	J-515	1,100.0	117: Zone - Central	0.00	1,259.9	69.2
598	J-517	1,216.0	119: Zone - Rattlesnake	8.40	1,343.8	55.3
599	J-518	1,160.0	119: Zone - Rattlesnake	9.80	1,343.3	79.3
600	J-519	1,150.0	119: Zone - Rattlesnake	5.60	1,343.0	83.5
601	J-520	1,155.0	119: Zone - Rattlesnake	6.30	1,342.6	81.2
602	J-521	1,154.0	119: Zone - Rattlesnake	9.80	1,342.4	81.5
603	J-522	1,148.0	119: Zone - Rattlesnake	9.80	1,342.2	84.0
604	J-523	1,142.0	119: Zone - Rattlesnake	14.00	1,342.1	86.6
605	J-524	1,150.0	119: Zone - Rattlesnake	14.00	1,342.0	83.1
606	J-525	1,152.0	119: Zone - Rattlesnake	13.30	1,341.9	82.2
607	J-526	1,148.0	119: Zone - Rattlesnake	13.30	1,341.9	83.9
608	J-527	1,141.0	119: Zone - Rattlesnake	7.00	1,341.8	86.9
609	J-528	1,140.0	119: Zone - Rattlesnake	10.50	1,341.8	87.3
610	J-529	1,139.0	119: Zone - Rattlesnake	7.70	1,341.7	87.7
611	J-530	1,132.0	119: Zone - Rattlesnake	6.30	1,342.2	90.9
612	J-531	1,125.0	119: Zone - Rattlesnake	6.30	1,342.1	93.9
613	J-532	1,122.0	119: Zone - Rattlesnake	5.60	1,342.0	95.2
614	J-533	1,115.0	119: Zone - Rattlesnake	8.40	1,342.0	98.2
615	J-534	1,110.0	119: Zone - Rattlesnake	9.80	1,341.9	100.3
616	J-535	1,104.0	117: Zone - Central	11.20	1,259.9	67.5
617	J-536	1,125.0	117: Zone - Central	18.20	1,259.9	58.3
618	J-537	1,113.0	117: Zone - Central	14.70	1,259.9	63.5
619	J-538	1,206.0	119: Zone - Rattlesnake	9.10	1,343.4	59.4
620	J-539	1,180.0	119: Zone - Rattlesnake	9.80	1,343.2	70.6

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
621	J-540	1,160.0	119: Zone - Rattlesnake	6.30	1,343.1	79.2
622	J-541	1,150.0	119: Zone - Rattlesnake	7.00	1,343.1	83.5
623	J-542	1,140.0	119: Zone - Rattlesnake	7.00	1,343.1	87.9
624	J-543	1,130.0	119: Zone - Rattlesnake	5.60	1,343.1	92.2
625	J-544	1,120.0	119: Zone - Rattlesnake	5.60	1,343.1	96.5
626	J-545	1,114.0	117: Zone - Central	7.00	1,259.9	63.1
627	J-546	1,142.0	119: Zone - Rattlesnake	12.60	1,343.1	87.0
628	J-547	1,138.0	119: Zone - Rattlesnake	8.40	1,343.1	88.7
629	J-548	1,132.0	119: Zone - Rattlesnake	9.10	1,343.1	91.3
630	J-549	1,128.0	119: Zone - Rattlesnake	7.70	1,343.1	93.1
631	J-550	1,119.0	119: Zone - Rattlesnake	5.60	1,343.1	96.9
632	J-551	1,114.0	119: Zone - Rattlesnake	7.00	1,343.1	99.1
633	J-552	1,110.0	119: Zone - Rattlesnake	4.20	1,343.1	100.8
634	J-553	1,104.0	117: Zone - Central	7.00	1,260.1	67.5
635	J-554	1,127.0	119: Zone - Rattlesnake	7.00	1,344.3	94.0
636	J-555	1,144.0	119: Zone - Rattlesnake	9.80	1,344.3	86.7
637	J-556	1,192.0	119: Zone - Rattlesnake	8.40	1,344.4	65.9
638	J-557	1,202.0	119: Zone - Rattlesnake	4.90	1,344.6	61.7
639	J-558	1,204.0	119: Zone - Rattlesnake	5.60	1,344.7	60.9
640	J-559	1,196.0	119: Zone - Rattlesnake	9.10	1,344.5	64.2
641	J-560	1,192.0	119: Zone - Rattlesnake	9.80	1,344.3	65.9
642	J-561	1,194.0	119: Zone - Rattlesnake	9.80	1,344.3	65.0
643	J-562	1,198.0	119: Zone - Rattlesnake	14.00	1,344.3	63.3
644	J-563	1,128.0	119: Zone - Rattlesnake	16.10	1,344.3	93.6
645	J-564	1,136.0	119: Zone - Rattlesnake	7.70	1,344.3	90.1
646	J-565	1,189.0	119: Zone - Rattlesnake	7.00	1,344.3	67.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
647	J-566	1,150.0	119: Zone - Rattlesnake	5.60	1,344.3	84.0
648	J-567	1,140.0	119: Zone - Rattlesnake	9.80	1,344.2	88.4
649	J-568	1,118.0	119: Zone - Rattlesnake	11.90	1,344.2	97.9
650	J-569	1,086.0	119: Zone - Rattlesnake	2.80	1,344.2	111.7
651	J-570	1,082.0	117: Zone - Central	2.10	1,256.5	75.5
652	J-571	1,142.0	119: Zone - Rattlesnake	7.00	1,344.2	87.5
653	J-572	1,132.0	117: Zone - Central	16.80	1,256.2	53.7
654	J-573	1,110.0	117: Zone - Central	15.40	1,256.2	63.2
655	J-574	1,096.0	117: Zone - Central	16.10	1,256.2	69.3
656	J-575	1,083.0	117: Zone - Central	8.40	1,256.3	75.0
657	J-576	1,060.0	117: Zone - Central	7.00	1,256.7	85.1
658	J-577	1,052.0	117: Zone - Central	4.20	1,257.4	88.8
659	J-578	1,070.0	117: Zone - Central	3.50	1,256.3	80.6
660	J-579	1,058.0	117: Zone - Central	7.70	1,256.2	85.8
661	J-580	1,046.0	117: Zone - Central	7.70	1,256.2	90.9
662	J-581	1,042.0	117: Zone - Central	114.80	1,256.2	92.7
663	J-582	1,052.0	117: Zone - Central	14.70	1,256.2	88.4
664	J-583	1,058.0	117: Zone - Central	16.10	1,256.3	85.8
665	J-584	1,060.0	117: Zone - Central	11.20	1,256.4	85.0
666	J-585	1,076.0	117: Zone - Central	11.90	1,256.2	78.0
667	J-586	1,075.0	117: Zone - Central	21.00	1,256.2	78.4
668	J-587	1,080.0	117: Zone - Central	11.90	1,256.2	76.2
669	J-588	1,088.0	117: Zone - Central	16.80	1,256.2	72.8
670	J-589	1,036.0	117: Zone - Central	8.40	1,257.0	95.6
671	J-590	1,038.0	117: Zone - Central	28.70	1,257.0	94.8
672	J-591	1,028.0	117: Zone - Central	0.00	1,257.4	99.2
673	J-592	1,030.0	117: Zone - Central	12.60	1,257.4	98.4
674	J-594	1,028.0	117: Zone - Central	2.10	1,259.3	100.1
675	J-595	1,046.0	117: Zone - Central	1.40	1,259.4	92.3
676	J-596	1,018.0	117: Zone - Central	2.80	1,258.3	104.0
677	J-597	1,042.0	117: Zone - Central	4.20	1,256.4	92.8
678	J-598	1,056.0	117: Zone - Central	14.70	1,256.6	86.8
679	J-599	1,060.0	117: Zone - Central	11.90	1,256.6	85.1
680	J-600	1,060.0	117: Zone - Central	11.90	1,256.6	85.1
681	J-601	1,050.0	117: Zone - Central	9.10	1,256.5	89.3
682	J-602	1,055.0	117: Zone - Central	4.20	1,256.5	87.2
683	J-603	1,072.0	117: Zone - Central	15.40	1,256.7	79.9
684	J-604	1,070.0	117: Zone - Central	14.00	1,256.7	80.8
685	J-605	1,062.0	117: Zone - Central	7.70	1,256.7	84.2
686	J-606	1,052.0	117: Zone - Central	7.70	1,256.7	88.6
687	J-607	1,050.0	117: Zone - Central	2.80	1,256.7	89.4
688	J-608	1,060.0	117: Zone - Central	2.10	1,256.7	85.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
689	J-609	1,070.0	117: Zone - Central	7.70	1,256.7	80.8
690	J-610	1,070.0	117: Zone - Central	7.00	1,256.8	80.8
691	J-611	1,078.0	117: Zone - Central	10.50	1,256.8	77.4
692	J-612	1,084.0	117: Zone - Central	2.10	1,256.9	74.8
693	J-613	1,077.0	117: Zone - Central	4.20	1,256.9	77.8
694	J-614	1,100.0	117: Zone - Central	2.10	1,256.8	67.8
695	J-615	1,090.0	117: Zone - Central	10.50	1,257.0	72.2
696	J-616	1,084.0	117: Zone - Central	8.40	1,257.0	74.8
697	J-617	1,084.0	117: Zone - Central	7.70	1,256.9	74.8
698	J-618	1,084.0	117: Zone - Central	10.50	1,256.9	74.8
699	J-619	1,080.0	117: Zone - Central	9.10	1,256.9	76.5
700	J-620	1,096.0	117: Zone - Central	4.20	1,256.9	69.6
701	J-621	1,108.0	117: Zone - Central	4.90	1,257.1	64.5
702	J-622	1,102.0	117: Zone - Central	9.80	1,257.1	67.1
703	J-623	1,100.0	117: Zone - Central	0.00	1,257.3	68.1
704	J-624	1,102.0	117: Zone - Central	6.30	1,257.4	67.2
705	J-625	1,140.0	119: Zone - Rattlesnake	0.00	1,344.5	88.5
706	J-626	1,116.0	119: Zone - Rattlesnake	11.20	1,344.5	98.9
707	J-627	1,112.0	119: Zone - Rattlesnake	6.30	1,344.5	100.6
708	J-628	1,114.0	119: Zone - Rattlesnake	8.40	1,344.5	99.7
709	J-629	1,112.0	119: Zone - Rattlesnake	9.80	1,344.5	100.6
710	J-630	1,108.0	117: Zone - Central	7.70	1,259.7	65.6
711	J-631	1,100.0	117: Zone - Central	14.00	1,259.4	69.0
712	J-632	1,084.0	117: Zone - Central	39.90	1,259.9	76.1
713	J-633	1,126.0	117: Zone - Central	7.00	1,259.8	57.9
714	J-634	1,140.0	119: Zone - Rattlesnake	9.10	1,344.7	88.5
715	J-635	1,180.0	119: Zone - Rattlesnake	2.10	1,344.7	71.2
716	J-637	1,154.0	119: Zone - Rattlesnake	6.30	1,344.7	82.5
717	J-638	1,092.0	117: Zone - Central	6.30	1,259.8	72.6
718	J-639	1,100.0	117: Zone - Central	9.10	1,259.7	69.1
719	J-640	1,087.0	117: Zone - Central	10.50	1,259.9	74.8
720	J-641	1,098.0	117: Zone - Central	13.30	1,259.9	70.0
721	J-642	1,112.0	117: Zone - Central	9.10	1,259.8	64.0
722	J-643	1,118.0	117: Zone - Central	6.30	1,259.8	61.4
723	J-644	1,136.0	119: Zone - Rattlesnake	13.30	1,341.7	89.0
724	J-645	1,080.0	117: Zone - Central	17.50	1,256.9	76.6
777	J-646	1,097.0	117: Zone - Central	2.80	1,257.7	69.5
725	J-647	1,070.0	117: Zone - Central	140.70	1,256.5	80.7
726	J-648	1,050.0	117: Zone - Central	0.00	1,256.9	89.5

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
727	J-649	1,102.0	117: Zone - Central	9.80	1,259.8	68.3
728	J-650	1,116.0	119: Zone - Rattlesnake	17.50	1,341.6	97.6
729	J-651	1,105.0	117: Zone - Central	0.00	1,258.4	66.4
730	J-652	1,160.0	119: Zone - Rattlesnake	8.40	1,341.5	78.5
731	J-653	1,214.0	119: Zone - Rattlesnake	16.80	1,341.5	55.2
732	J-654	1,214.0	119: Zone - Rattlesnake	17.50	1,341.5	55.2
733	J-655	1,096.0	117: Zone - Central	22.40	1,258.4	70.3
734	J-656	1,077.0	117: Zone - Central	14.00	1,258.4	78.5
735	J-657	1,116.0	117: Zone - Central	6.30	1,258.9	61.8
736	J-659	1,100.0	117: Zone - Central	35.70	1,259.9	69.2
737	J-660	1,104.0	117: Zone - Central	0.00	1,260.1	67.5
738	J-662	1,270.0	120: Zone - MountainTop	7.00	1,385.0	49.7
739	J-663	1,272.0	120: Zone - MountainTop	4.20	1,384.8	48.8
740	J-664	1,272.0	120: Zone - MountainTop	4.20	1,384.8	48.8
741	J-665	1,283.0	120: Zone - MountainTop	8.40	1,384.7	44.0
742	J-666	1,288.0	120: Zone - MountainTop	7.70	1,384.7	41.8
743	J-667	1,278.0	120: Zone - MountainTop	564.20	1,384.7	46.2
744	J-668	1,258.0	120: Zone - MountainTop	5.60	1,384.7	54.8
745	J-669	1,132.0	117: Zone - Central	2.80	1,254.8	53.1
746	J-670	1,092.0	117: Zone - Central	2.10	1,254.8	70.4
747	J-671	1,095.0	117: Zone - Central	7.00	1,254.8	69.1
748	J-672	1,080.0	117: Zone - Central	0.00	1,254.8	75.6
749	J-673	1,100.0	117: Zone - Central	2.80	1,254.8	67.0
750	J-674	1,050.0	117: Zone - Central	254.80	1,254.8	88.6
751	J-675	1,276.0	120: Zone - MountainTop	22.40	1,384.5	47.0
752	J-676	1,246.0	120: Zone - MountainTop	16.80	1,384.6	60.0
753	J-677	1,254.0	120: Zone - MountainTop	310.10	1,384.7	56.5
754	J-679	1,132.0	117: Zone - Central	7.70	1,254.7	53.1
755	J-680	1,073.0	117: Zone - Central	273.00	1,254.7	78.6
756	J-681	1,078.0	117: Zone - Central	4.20	1,254.7	76.4
757	J-682	1,070.0	117: Zone - Central	2.10	1,254.7	79.9
758	J-683	1,083.0	117: Zone - Central	1.40	1,254.7	74.3
759	J-684	1,093.0	117: Zone - Central	3.50	1,254.7	70.0
760	J-685	1,112.0	117: Zone - Central	7.00	1,254.7	61.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
761	J-686	1,118.0	117: Zone - Central	11.20	1,254.7	59.1
762	J-687	1,107.0	117: Zone - Central	2.80	1,254.7	63.9
763	J-688	1,100.0	117: Zone - Central	4.20	1,254.7	66.9
764	J-689	1,088.0	117: Zone - Central	0.00	1,254.7	72.1
765	J-690	1,129.0	117: Zone - Central	277.20	1,254.7	54.4
766	J-691	1,114.0	117: Zone - Central	249.20	1,255.0	61.0
767	J-692	1,140.0	117: Zone - Central	2.80	1,257.9	51.0
768	J-693	1,136.0	117: Zone - Central	5.60	1,257.9	52.7
769	J-694	1,138.0	117: Zone - Central	120.40	1,257.9	51.9
770	J-696	1,177.0	117: Zone - Central	5.60	1,257.9	35.0
771	J-698	1,078.0	117: Zone - Central	4.90	1,259.5	78.5
772	J-700	1,100.0	117: Zone - Central	21.70	1,259.9	69.2
773	J-701	1,050.0	117: Zone - Central	34.30	1,257.0	89.6
779	J-703	1,230.0	120: Zone - MountainTop	1.40	1,380.4	65.1
797	J-704	950.0	117: Zone - Central	0.00	1,065.5	50.0
780	J-705	1,245.0	120: Zone - MountainTop	0.00	1,380.9	58.8
775	J-707	1,020.0	117: Zone - Central	0.00	1,259.3	103.5
776	J-708	1,198.0	119: Zone - Rattlesnake	7.00	1,344.7	63.5
781	J-714	1,080.0	117: Zone - Central	0.00	1,259.5	77.7
782	J-715	1,148.0	119: Zone - Rattlesnake	7.00	1,344.7	85.1
783	J-716	1,150.0	119: Zone - Rattlesnake	4.20	1,344.6	84.2
784	J-717	1,085.0	117: Zone - Central	7.00	1,259.5	75.5
785	J-718	1,055.0	117: Zone - Central	100.10	1,259.3	88.4
786	J-719	1,060.0	117: Zone - Central	43.40	1,253.4	83.7
787	J-720	1,060.0	117: Zone - Central	123.20	1,252.7	83.4
788	J-721	1,042.0	117: Zone - Central	59.50	1,252.6	91.1
789	J-722	1,072.0	117: Zone - Central	0.00	1,259.3	81.0
790	J-723	1,040.0	117: Zone - Central	15.40	1,259.3	94.9
791	J-724	1,050.0	117: Zone - Central	42.00	1,259.1	90.5
796	J-725	1,250.0	120: Zone - MountainTop	0.00	1,381.1	56.7
798	J-726	1,172.0	120: Zone - MountainTop	224.00	1,385.4	92.3
799	J-727	1,030.0	117: Zone - Central	0.00	1,255.1	97.4
800	J-728	1,070.0	117: Zone - Central	180.60	1,255.6	80.3
801	J-729	1,100.0	117: Zone - Central	0.00	1,257.5	68.1
802	J-731	1,050.0	117: Zone - Central	448.70	1,258.7	90.3
803	J-732	1,100.0	117: Zone - Central	0.00	1,258.7	68.7
804	J-733	1,052.0	117: Zone - Central	0.00	1,254.8	87.7
805	J-736	1,120.0	117: Zone - Central	640.50	1,259.7	60.4
806	J-737	1,210.0	119: Zone - Rattlesnake	640.50	1,344.9	58.4
810	J-738	1,020.0	121: Zone - PS	0.00	1,065.5	19.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
807	J-739	1,114.0	117: Zone - Central	0.00	1,260.4	63.3
808	J-740	1,080.0	117: Zone - Central	0.00	1,259.5	77.6
809	J-741	1,104.0	117: Zone - Central	0.00	1,259.5	67.3
794	J-1001	840.0	121: Zone - PS	0.00	1,065.5	97.6
778	J-1002	840.0	121: Zone - PS	0.00	1,064.0	96.9
774	J-3000	1,208.0	121: Zone - PS	0.00	1,344.8	59.2
489	J-4002	1,150.0	121: Zone - PS	0.00	1,260.7	47.9
1949	J-4004	1,239.2	<None>	0.00	1,389.9	65.2
1959	J-4005	1,236.5	<None>	0.00	1,260.0	10.2
1963	J-4006	1,240.0	<None>	0.00	1,260.0	8.7

EXHIBIT F-3

FUTURE CONDITIONS WATER MODEL
PEAK HOUR

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
124	J-1	1,030.0	121: Zone - PS	0.00	1,254.6	97.2
125	J-2	1,020.0	117: Zone - Central	0.00	1,254.6	101.5
126	J-3	1,040.0	117: Zone - Central	0.00	1,254.6	92.9
127	J-4	1,076.0	117: Zone - Central	0.00	1,255.4	77.6
128	J-5	1,075.0	117: Zone - Central	12.00	1,255.4	78.1
129	J-6	1,056.0	117: Zone - Central	22.50	1,251.6	84.6
130	J-7	1,050.0	117: Zone - Central	0.00	1,255.8	89.0
131	J-8	1,042.0	117: Zone - Central	13.50	1,256.1	92.6
132	J-9	1,120.0	117: Zone - Central	0.00	1,257.3	59.4
133	J-10	1,220.0	121: Zone - PS	0.00	1,259.1	16.9
134	J-11	1,072.0	117: Zone - Central	18.00	1,254.5	79.0
135	J-12	1,078.0	117: Zone - Central	0.00	1,254.9	76.5
136	J-13	1,070.0	117: Zone - Central	0.00	1,255.0	80.0
137	J-14	1,076.0	117: Zone - Central	0.00	1,255.4	77.6
138	J-15	1,108.0	117: Zone - Central	0.00	1,257.8	64.8
596	J-16	1,111.0	117: Zone - Central	0.00	1,258.3	63.7
139	J-17	1,069.0	117: Zone - Central	7.50	1,254.6	80.3
140	J-18	1,058.0	117: Zone - Central	0.00	1,252.5	84.2
141	J-19	1,058.0	117: Zone - Central	15.00	1,252.5	84.1
142	J-20	1,078.0	117: Zone - Central	30.00	1,252.9	75.7
143	J-21	1,070.0	117: Zone - Central	19.50	1,252.1	78.8
144	J-22	1,036.0	117: Zone - Central	18.00	1,251.8	93.4
145	J-23	1,036.0	117: Zone - Central	21.00	1,251.7	93.3
146	J-24	1,036.0	117: Zone - Central	13.50	1,251.6	93.3
147	J-25	1,032.0	117: Zone - Central	3.00	1,251.6	95.0
148	J-26	1,068.0	117: Zone - Central	15.00	1,251.8	79.5
149	J-27	1,072.0	117: Zone - Central	15.00	1,251.7	77.7
150	J-28	1,074.0	117: Zone - Central	13.50	1,251.7	76.9
151	J-29	1,054.0	117: Zone - Central	6.00	1,251.7	85.5
152	J-30	1,041.0	117: Zone - Central	16.50	1,251.7	91.2
153	J-31	1,031.0	117: Zone - Central	13.50	1,251.6	95.4
154	J-32	1,042.0	117: Zone - Central	12.00	1,251.5	90.6
155	J-33	1,048.0	117: Zone - Central	12.00	1,251.5	88.1
156	J-34	1,034.0	117: Zone - Central	9.00	1,251.6	94.1
157	J-35	1,038.0	117: Zone - Central	15.00	1,251.6	92.4
158	J-36	1,030.0	117: Zone - Central	0.00	1,250.9	95.6
159	J-37	1,042.0	117: Zone - Central	0.00	1,251.4	90.6
160	J-38	1,050.0	117: Zone - Central	0.00	1,251.4	87.1
161	J-39	1,027.0	117: Zone - Central	25.50	1,244.9	94.3
162	J-40	1,078.0	117: Zone - Central	19.50	1,254.6	76.4
163	J-41	1,076.0	117: Zone - Central	0.00	1,254.9	77.4
164	J-42	1,050.0	117: Zone - Central	22.50	1,254.3	88.4
165	J-43	1,055.0	117: Zone - Central	36.00	1,253.9	86.0
166	J-44	1,074.0	117: Zone - Central	30.00	1,253.8	77.8
167	J-45	1,070.0	117: Zone - Central	28.50	1,253.9	79.5
168	J-46	1,060.0	117: Zone - Central	15.00	1,253.8	83.9
169	J-47	1,067.0	117: Zone - Central	22.50	1,253.8	80.8

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
170	J-48	1,070.0	117: Zone - Central	36.00	1,253.8	79.5
171	J-49	1,074.0	117: Zone - Central	3.00	1,254.0	77.9
172	J-50	1,075.0	117: Zone - Central	12.00	1,251.7	76.5
173	J-51	1,073.0	117: Zone - Central	10.50	1,250.7	76.9
174	J-52	1,070.0	117: Zone - Central	16.50	1,250.6	78.2
175	J-53	1,077.0	117: Zone - Central	33.00	1,253.1	76.2
176	J-54	1,058.0	117: Zone - Central	33.00	1,247.2	81.8
177	J-55	1,054.0	117: Zone - Central	25.50	1,246.3	83.2
178	J-56	1,056.0	117: Zone - Central	0.00	1,245.8	82.1
179	J-57	1,074.0	117: Zone - Central	9.00	1,247.0	74.9
180	J-58	1,078.0	117: Zone - Central	25.50	1,245.6	72.5
181	J-59	1,081.0	117: Zone - Central	382.50	1,244.0	70.5
182	J-60	1,076.0	117: Zone - Central	18.00	1,243.9	72.6
183	J-61	1,064.0	117: Zone - Central	30.00	1,243.8	77.8
184	J-62	1,062.0	117: Zone - Central	6.00	1,243.7	78.6
185	J-63	1,062.0	117: Zone - Central	24.00	1,243.5	78.5
186	J-64	1,058.0	117: Zone - Central	40.50	1,243.4	80.2
187	J-65	1,030.0	117: Zone - Central	27.00	1,243.4	92.3
188	J-66	1,036.0	117: Zone - Central	30.00	1,243.4	89.8
189	J-67	1,048.0	117: Zone - Central	19.50	1,243.7	84.7
190	J-69	1,030.0	117: Zone - Central	43.50	1,244.5	92.8
191	J-70	1,044.0	117: Zone - Central	37.50	1,244.6	86.8
192	J-71	1,044.0	117: Zone - Central	19.50	1,244.6	86.8
193	J-72	1,063.0	117: Zone - Central	22.50	1,243.9	78.3
194	J-73	1,054.0	117: Zone - Central	27.00	1,244.1	82.2
195	J-74	1,076.0	117: Zone - Central	21.00	1,245.0	73.1
196	J-75	1,100.0	117: Zone - Central	18.00	1,244.9	62.7
197	J-76	1,066.0	117: Zone - Central	33.00	1,245.7	77.7
198	J-77	1,058.0	117: Zone - Central	24.00	1,247.0	81.8
199	J-78	1,050.0	117: Zone - Central	33.00	1,248.5	85.9
200	J-79	1,060.0	117: Zone - Central	24.00	1,250.2	82.3
201	J-80	1,064.0	117: Zone - Central	12.00	1,250.7	80.8
202	J-81	1,034.0	117: Zone - Central	30.00	1,249.7	93.3
203	J-82	1,032.0	117: Zone - Central	21.00	1,249.7	94.2
204	J-83	1,034.0	117: Zone - Central	24.00	1,249.9	93.4
205	J-84	1,023.0	117: Zone - Central	7.50	1,250.3	98.4
206	J-85	1,060.0	117: Zone - Central	18.00	1,249.8	82.1
207	J-86	1,046.0	117: Zone - Central	1.50	1,251.6	89.0
208	J-87	1,062.0	117: Zone - Central	9.00	1,255.7	83.8
209	J-88	1,062.0	117: Zone - Central	18.00	1,255.9	83.9
210	J-89	1,063.0	117: Zone - Central	6.00	1,255.6	83.3
211	J-90	1,066.0	117: Zone - Central	34.50	1,255.3	81.9
212	J-91	1,078.0	117: Zone - Central	13.50	1,255.3	76.7
213	J-92	1,079.0	117: Zone - Central	25.50	1,255.2	76.2
214	J-93	1,076.0	117: Zone - Central	18.00	1,255.2	77.5
215	J-94	1,078.0	117: Zone - Central	0.00	1,255.3	76.7
216	J-95	1,088.0	117: Zone - Central	7.50	1,255.7	72.6

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
217	J-96	1,085.0	117: Zone - Central	27.00	1,256.0	74.0
218	J-97	1,110.0	117: Zone - Central	45.00	1,256.7	63.5
219	J-99	1,096.0	117: Zone - Central	12.00	1,255.7	69.1
220	J-100	1,084.0	117: Zone - Central	0.00	1,255.5	74.2
221	J-101	1,081.0	117: Zone - Central	22.50	1,255.3	75.4
222	J-102	1,078.0	117: Zone - Central	39.00	1,255.1	76.6
223	J-103	1,084.0	117: Zone - Central	15.00	1,254.7	73.9
224	J-104	1,084.0	117: Zone - Central	7.50	1,254.7	73.8
225	J-105	1,084.0	117: Zone - Central	0.00	1,254.7	73.8
226	J-106	1,084.0	117: Zone - Central	7.50	1,254.7	73.9
227	J-107	1,086.0	117: Zone - Central	0.00	1,254.7	73.0
228	J-108	1,088.0	117: Zone - Central	6.00	1,254.8	72.2
229	J-109	1,090.0	117: Zone - Central	16.50	1,254.9	71.3
230	J-110	1,090.0	117: Zone - Central	33.00	1,255.4	71.5
231	J-111	1,088.0	117: Zone - Central	25.50	1,255.2	72.4
232	J-112	1,084.0	117: Zone - Central	15.00	1,255.4	74.1
233	J-113	1,072.0	117: Zone - Central	27.00	1,254.3	78.9
234	J-114	1,062.0	117: Zone - Central	21.00	1,254.3	83.2
235	J-115	1,058.0	117: Zone - Central	9.00	1,254.3	84.9
236	J-116	1,065.0	117: Zone - Central	6.00	1,254.3	81.9
237	J-117	1,072.0	117: Zone - Central	16.50	1,254.4	78.9
238	J-118	1,082.0	117: Zone - Central	27.00	1,254.5	74.6
239	J-119	1,058.0	117: Zone - Central	18.00	1,252.5	84.2
240	J-120	1,110.0	117: Zone - Central	12.00	1,252.2	61.5
241	J-121	1,036.0	117: Zone - Central	28.50	1,252.0	93.4
242	J-122	1,030.0	117: Zone - Central	34.50	1,252.0	96.0
243	J-123	1,068.0	117: Zone - Central	22.50	1,252.3	79.8
244	J-124	1,068.0	117: Zone - Central	7.50	1,254.3	80.6
245	J-125	1,070.0	117: Zone - Central	7.50	1,254.3	79.7
246	J-126	1,064.0	117: Zone - Central	9.00	1,254.1	82.2
247	J-127	1,078.0	117: Zone - Central	15.00	1,254.4	76.3
248	J-128	1,084.0	117: Zone - Central	18.00	1,254.7	73.8
249	J-129	1,083.0	117: Zone - Central	18.00	1,253.5	73.8
250	J-130	1,080.0	117: Zone - Central	0.00	1,253.5	75.1
251	J-131	1,081.0	117: Zone - Central	21.00	1,253.7	74.7
252	J-132	1,077.0	117: Zone - Central	7.50	1,254.5	76.8
253	J-133	1,078.0	117: Zone - Central	6.00	1,253.5	75.9
254	J-134	1,082.0	117: Zone - Central	30.00	1,255.0	74.9
255	J-135	1,088.0	117: Zone - Central	0.00	1,255.1	72.3
256	J-136	1,078.0	117: Zone - Central	13.50	1,255.0	76.6
257	J-137	1,088.0	117: Zone - Central	25.50	1,254.8	72.2
258	J-138	1,083.0	117: Zone - Central	19.50	1,254.5	74.2
259	J-139	1,082.0	117: Zone - Central	27.00	1,255.5	75.0
260	J-140	1,085.0	117: Zone - Central	12.00	1,255.3	73.7
261	J-141	1,076.0	117: Zone - Central	21.00	1,253.8	76.9
262	J-142	1,056.0	117: Zone - Central	13.50	1,253.6	85.5
263	J-143	1,046.0	117: Zone - Central	30.00	1,253.4	89.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
264	J-144	1,082.0	117: Zone - Central	12.00	1,253.8	74.3
265	J-145	1,040.0	117: Zone - Central	13.50	1,252.8	92.1
266	J-146	1,057.0	117: Zone - Central	31.50	1,253.4	85.0
267	J-147	1,072.0	117: Zone - Central	43.50	1,254.2	78.8
268	J-148	1,069.0	117: Zone - Central	22.50	1,254.5	80.2
269	J-149	1,059.0	117: Zone - Central	18.00	1,253.4	84.1
270	J-150	1,061.0	117: Zone - Central	15.00	1,253.8	83.4
271	J-151	1,063.0	117: Zone - Central	18.00	1,254.3	82.8
272	J-152	1,080.0	117: Zone - Central	16.50	1,254.5	75.5
273	J-153	1,080.0	117: Zone - Central	22.50	1,253.8	75.2
274	J-154	1,082.0	117: Zone - Central	19.50	1,253.4	74.2
275	J-155	1,079.0	117: Zone - Central	13.50	1,253.1	75.3
276	J-156	1,076.0	117: Zone - Central	0.00	1,253.0	76.6
277	J-157	1,074.0	117: Zone - Central	43.50	1,253.0	77.4
278	J-158	1,067.0	117: Zone - Central	22.50	1,252.9	80.4
279	J-159	1,062.0	117: Zone - Central	24.00	1,252.9	82.6
280	J-160	1,052.0	117: Zone - Central	25.50	1,252.2	86.6
281	J-161	1,057.0	117: Zone - Central	21.00	1,252.9	84.7
282	J-162	1,062.0	117: Zone - Central	27.00	1,252.8	82.6
283	J-163	1,042.0	117: Zone - Central	22.50	1,252.8	91.2
284	J-164	1,035.0	117: Zone - Central	13.50	1,252.8	94.3
285	J-165	1,042.0	117: Zone - Central	18.00	1,252.8	91.2
286	J-166	1,048.0	117: Zone - Central	25.50	1,252.9	88.6
287	J-167	1,060.0	117: Zone - Central	25.50	1,253.2	83.6
288	J-168	1,052.0	117: Zone - Central	1,020.00	1,252.9	86.9
289	J-169	1,068.0	117: Zone - Central	15.00	1,252.9	80.0
290	J-170	1,058.0	117: Zone - Central	12.00	1,253.0	84.3
291	J-171	1,053.0	117: Zone - Central	18.00	1,253.0	86.5
292	J-172	1,028.0	117: Zone - Central	0.00	1,253.4	97.5
293	J-173	1,022.0	117: Zone - Central	0.00	1,253.5	100.2
294	J-174	1,014.0	117: Zone - Central	0.00	1,253.6	103.7
295	J-175	1,004.0	117: Zone - Central	0.00	1,254.6	108.4
296	J-176	1,096.0	117: Zone - Central	43.50	1,253.1	68.0
297	J-177	1,082.0	117: Zone - Central	22.50	1,252.7	73.9
298	J-178	1,080.0	117: Zone - Central	43.50	1,252.4	74.6
299	J-179	1,002.0	117: Zone - Central	39.00	1,251.9	108.1
300	J-180	1,008.0	117: Zone - Central	24.00	1,251.9	105.5
301	J-181	1,068.0	117: Zone - Central	34.50	1,252.0	79.6
302	J-182	1,107.0	117: Zone - Central	25.50	1,252.4	62.9
303	J-183	1,060.0	117: Zone - Central	27.00	1,252.9	83.4
304	J-184	1,068.0	117: Zone - Central	34.50	1,252.0	79.6
305	J-185	1,012.0	117: Zone - Central	36.00	1,251.9	103.8
306	J-186	1,015.0	117: Zone - Central	30.00	1,251.8	102.5
307	J-187	1,052.0	117: Zone - Central	27.00	1,252.9	86.9
308	J-188	1,071.0	117: Zone - Central	22.50	1,252.9	78.7
309	J-189	1,067.0	117: Zone - Central	21.00	1,252.7	80.4
310	J-190	1,060.0	117: Zone - Central	21.00	1,252.5	83.3

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
311	J-191	1,086.0	117: Zone - Central	432.00	1,241.5	67.3
312	J-192	1,045.0	117: Zone - Central	0.00	1,252.8	89.9
313	J-193	1,082.0	117: Zone - Central	33.00	1,236.4	66.8
314	J-194	1,084.0	117: Zone - Central	126.00	1,235.5	65.6
315	J-196	1,092.0	117: Zone - Central	106.50	1,235.1	61.9
316	J-198	1,095.0	117: Zone - Central	46.50	1,235.1	60.6
317	J-199	1,085.0	117: Zone - Central	49.50	1,235.1	64.9
318	J-200	1,082.0	117: Zone - Central	46.50	1,235.7	66.5
319	J-201	1,082.0	117: Zone - Central	40.50	1,236.7	67.0
320	J-202	1,082.0	117: Zone - Central	42.00	1,237.9	67.4
321	J-204	1,082.0	117: Zone - Central	861.00	1,240.0	68.4
322	J-205	1,042.0	117: Zone - Central	4.50	1,250.8	90.3
323	J-206	1,066.0	117: Zone - Central	33.00	1,239.6	75.1
324	J-207	1,080.0	117: Zone - Central	444.00	1,234.1	66.7
325	J-208	1,058.0	117: Zone - Central	37.50	1,245.9	81.3
326	J-209	1,036.0	117: Zone - Central	0.00	1,248.8	92.1
327	J-210	1,024.0	117: Zone - Central	0.00	1,248.8	97.3
328	J-229	1,074.0	117: Zone - Central	43.50	1,239.0	71.4
329	J-230	1,057.0	117: Zone - Central	0.00	1,237.9	78.3
330	J-231	1,078.0	117: Zone - Central	814.50	1,236.4	68.5
331	J-232	1,068.0	117: Zone - Central	24.00	1,236.5	72.9
332	J-233	1,030.0	117: Zone - Central	778.50	1,238.0	90.0
333	J-234	966.0	117: Zone - Central	0.00	1,244.8	120.6
334	J-235	954.0	117: Zone - Central	0.00	1,248.7	127.5
335	J-236	1,004.0	117: Zone - Central	0.00	1,253.6	108.0
336	J-237	1,046.0	117: Zone - Central	4.50	1,250.3	88.4
337	J-238	1,020.0	117: Zone - Central	0.00	1,253.6	101.1
338	J-239	1,052.0	117: Zone - Central	9.00	1,252.9	86.9
339	J-240	1,052.0	117: Zone - Central	7.50	1,252.9	86.9
340	J-241	1,060.0	117: Zone - Central	0.00	1,253.3	83.6
341	J-242	1,068.0	117: Zone - Central	18.00	1,252.7	79.9
342	J-243	1,076.0	117: Zone - Central	18.00	1,252.6	76.4
343	J-245	1,080.0	117: Zone - Central	84.00	1,251.9	74.4
344	J-246	1,068.0	117: Zone - Central	43.50	1,252.5	79.8
345	J-247	1,062.0	117: Zone - Central	15.00	1,252.7	82.5
346	J-248	1,080.0	117: Zone - Central	40.50	1,254.7	75.6
347	J-249	1,088.0	117: Zone - Central	12.00	1,254.9	72.2
348	J-250	1,090.0	117: Zone - Central	9.00	1,255.0	71.4
349	J-251	1,091.0	117: Zone - Central	6.00	1,255.1	71.0
350	J-252	1,088.0	117: Zone - Central	6.00	1,255.1	72.3
351	J-253	1,083.0	117: Zone - Central	15.00	1,255.2	74.5
352	J-254	1,088.0	117: Zone - Central	7.50	1,255.1	72.3
353	J-255	1,092.0	117: Zone - Central	12.00	1,255.0	70.5
354	J-256	1,100.0	117: Zone - Central	12.00	1,255.0	67.1
355	J-257	1,110.0	117: Zone - Central	12.00	1,255.0	62.8
356	J-258	1,096.0	117: Zone - Central	30.00	1,255.2	68.9
357	J-259	1,103.0	117: Zone - Central	30.00	1,255.4	65.9

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
358	J-260	1,095.0	117: Zone - Central	7.50	1,254.9	69.2
359	J-261	1,105.0	117: Zone - Central	4.50	1,255.0	64.9
360	J-262	1,102.0	117: Zone - Central	70.50	1,254.7	66.1
361	J-263	1,104.0	117: Zone - Central	58.50	1,254.4	65.1
362	J-264	1,102.0	117: Zone - Central	42.00	1,254.3	65.9
363	J-265	1,100.0	117: Zone - Central	22.50	1,254.2	66.7
364	J-266	1,100.0	117: Zone - Central	31.50	1,254.4	66.8
365	J-267	1,096.0	117: Zone - Central	48.00	1,254.7	68.7
366	J-269	1,097.0	117: Zone - Central	33.00	1,254.4	68.1
367	J-270	1,094.0	117: Zone - Central	30.00	1,254.5	69.4
368	J-271	1,098.0	117: Zone - Central	18.00	1,255.2	68.0
369	J-272	1,113.0	117: Zone - Central	18.00	1,254.8	61.4
370	J-273	1,108.0	117: Zone - Central	30.00	1,254.6	63.4
371	J-274	1,115.0	117: Zone - Central	15.00	1,254.7	60.5
372	J-275	1,110.0	117: Zone - Central	21.00	1,254.3	62.4
373	J-276	1,104.0	117: Zone - Central	49.50	1,254.2	65.0
374	J-277	1,086.0	117: Zone - Central	15.00	1,254.2	72.8
375	J-278	1,082.0	117: Zone - Central	0.00	1,255.4	75.0
376	J-279	1,104.0	117: Zone - Central	7.50	1,255.0	65.3
377	J-280	1,106.0	117: Zone - Central	12.00	1,257.8	65.7
378	J-281	1,110.0	117: Zone - Central	6.00	1,256.8	63.5
379	J-283	1,114.0	117: Zone - Central	0.00	1,256.6	61.7
380	J-284	1,094.0	117: Zone - Central	9.00	1,250.9	67.9
381	J-285	1,084.0	117: Zone - Central	15.00	1,253.9	73.5
382	J-286	1,096.0	117: Zone - Central	1.50	1,254.8	68.7
383	J-287	1,118.0	117: Zone - Central	30.00	1,254.7	59.2
384	J-288	1,076.0	117: Zone - Central	25.50	1,253.6	76.9
385	J-289	1,090.0	117: Zone - Central	18.00	1,254.0	71.0
386	J-290	1,096.0	117: Zone - Central	12.00	1,254.3	68.5
387	J-291	1,093.0	117: Zone - Central	90.00	1,255.4	70.3
388	J-292	1,102.0	117: Zone - Central	18.00	1,255.2	66.3
389	J-293	1,120.0	117: Zone - Central	76.50	1,255.3	58.5
390	J-294	1,142.0	117: Zone - Central	69.00	1,255.7	49.2
391	J-295	1,156.0	117: Zone - Central	24.00	1,255.8	43.2
392	J-297	1,128.0	117: Zone - Central	34.50	1,255.6	55.2
393	J-298	1,120.0	117: Zone - Central	31.50	1,255.0	58.4
394	J-299	1,108.0	117: Zone - Central	69.00	1,254.5	63.4
395	J-300	1,108.0	117: Zone - Central	102.00	1,254.3	63.3
396	J-302	1,104.0	117: Zone - Central	21.00	1,254.3	65.0
397	J-303	1,084.0	117: Zone - Central	34.50	1,254.4	73.7
398	J-304	1,080.0	117: Zone - Central	27.00	1,254.5	75.5
399	J-305	1,086.0	117: Zone - Central	6.00	1,254.5	72.9
400	J-306	1,088.0	117: Zone - Central	18.00	1,254.4	72.0
401	J-307	1,092.0	117: Zone - Central	18.00	1,254.4	70.3
402	J-308	1,084.0	117: Zone - Central	25.50	1,254.4	73.7
403	J-309	1,092.0	117: Zone - Central	19.50	1,254.5	70.3
404	J-310	1,090.0	117: Zone - Central	30.00	1,254.5	71.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
405	J-312	1,088.0	117: Zone - Central	13.50	1,254.9	72.2
406	J-313	1,084.0	117: Zone - Central	37.50	1,254.5	73.8
407	J-314	1,082.0	117: Zone - Central	30.00	1,254.5	74.7
408	J-315	1,077.0	117: Zone - Central	0.00	1,254.5	76.8
409	J-317	1,086.0	117: Zone - Central	34.50	1,254.5	72.9
410	J-318	1,088.0	117: Zone - Central	31.50	1,254.5	72.0
411	J-320	1,105.0	117: Zone - Central	25.50	1,254.3	64.6
412	J-321	1,096.0	117: Zone - Central	36.00	1,254.4	68.5
413	J-322	1,160.0	117: Zone - Central	9.00	1,256.5	41.7
414	J-323	1,108.0	117: Zone - Central	21.00	1,254.5	63.4
415	J-324	1,152.0	117: Zone - Central	55.50	1,255.2	44.6
416	J-325	1,173.0	117: Zone - Central	25.50	1,255.0	35.5
417	J-326	1,153.0	117: Zone - Central	69.00	1,254.6	44.0
418	J-327	1,123.0	117: Zone - Central	45.00	1,254.3	56.8
419	J-328	1,114.0	117: Zone - Central	72.00	1,254.1	60.6
420	J-329	1,100.0	117: Zone - Central	18.00	1,254.3	66.8
421	J-330	1,096.0	117: Zone - Central	51.00	1,254.1	68.4
422	J-331	1,086.0	117: Zone - Central	52.50	1,253.4	72.4
423	J-332	1,100.0	117: Zone - Central	42.00	1,253.4	66.4
424	J-333	1,120.0	117: Zone - Central	60.00	1,252.6	57.4
425	J-334	1,142.0	117: Zone - Central	30.00	1,252.4	47.8
426	J-335	1,124.0	117: Zone - Central	21.00	1,252.4	55.6
427	J-336	1,120.0	117: Zone - Central	31.50	1,252.4	57.3
428	J-337	1,128.0	117: Zone - Central	9.00	1,252.5	53.9
429	J-338	1,138.0	117: Zone - Central	12.00	1,252.6	49.6
430	J-339	1,124.0	117: Zone - Central	60.00	1,252.7	55.7
431	J-340	1,116.0	117: Zone - Central	27.00	1,252.8	59.2
432	J-341	1,110.0	117: Zone - Central	28.50	1,253.0	61.9
433	J-342	1,152.0	117: Zone - Central	21.00	1,297.3	62.9
434	J-343	1,148.0	117: Zone - Central	18.00	1,297.3	64.6
435	J-344	1,152.0	117: Zone - Central	6.00	1,297.3	62.9
436	J-345	1,180.0	120: Zone - MountainTop	9.00	1,297.4	50.8
437	J-346	1,170.0	120: Zone - MountainTop	13.50	1,297.4	55.1
438	J-347	1,162.0	120: Zone - MountainTop	7.50	1,297.4	58.6
439	J-348	1,152.0	120: Zone - MountainTop	10.50	1,297.4	62.9
440	J-349	1,140.0	120: Zone - MountainTop	12.00	1,297.4	68.1
441	J-350	1,162.0	120: Zone - MountainTop	12.00	1,297.4	58.6
442	J-351	1,200.0	120: Zone - MountainTop	12.00	1,297.4	42.1
443	J-352	1,184.0	120: Zone - MountainTop	6.00	1,297.4	49.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
444	J-353	1,190.0	120: Zone - MountainTop	4.50	1,297.4	46.5
445	J-354	1,244.0	120: Zone - MountainTop	16.50	1,351.7	46.6
446	J-356	1,172.0	117: Zone - Central	24.00	1,297.3	54.2
447	J-357	1,176.0	117: Zone - Central	13.50	1,297.4	52.5
793	J-358	1,152.0	120: Zone - MountainTop	33.00	1,297.4	62.9
448	J-359	1,195.0	120: Zone - MountainTop	37.50	1,356.1	69.7
449	J-360	1,242.0	120: Zone - MountainTop	27.00	1,356.7	49.6
450	J-361	1,235.0	120: Zone - MountainTop	27.00	1,358.1	53.3
451	J-362	1,260.0	120: Zone - MountainTop	24.00	1,364.4	45.1
452	J-363	1,254.0	120: Zone - MountainTop	24.00	1,359.7	45.7
453	J-364	1,256.0	120: Zone - MountainTop	27.00	1,364.3	46.9
454	J-365	1,260.0	120: Zone - MountainTop	39.00	1,358.4	42.6
455	J-366	1,262.0	120: Zone - MountainTop	24.00	1,358.0	41.5
456	J-367	1,262.0	120: Zone - MountainTop	36.00	1,357.9	41.5
457	J-368	1,258.0	120: Zone - MountainTop	27.00	1,357.8	43.2
458	J-369	1,274.0	120: Zone - MountainTop	45.00	1,362.1	38.1
459	J-370	1,278.0	120: Zone - MountainTop	39.00	1,363.7	37.1
460	J-371	1,272.0	120: Zone - MountainTop	15.00	1,362.1	39.0
461	J-372	1,270.0	120: Zone - MountainTop	54.00	1,358.0	38.1
462	J-373	1,251.0	120: Zone - MountainTop	9.00	1,356.7	45.7
463	J-374	1,243.0	120: Zone - MountainTop	18.00	1,354.4	48.2
464	J-375	1,242.0	120: Zone - MountainTop	18.00	1,353.5	48.2
465	J-376	1,278.0	120: Zone - MountainTop	37.50	1,368.0	38.9
466	J-377	1,283.0	120: Zone - MountainTop	39.00	1,366.6	36.2
467	J-378	1,285.0	120: Zone - MountainTop	25.50	1,365.9	35.0
468	J-379	1,252.0	120: Zone - MountainTop	24.00	1,365.6	49.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
469	J-380	1,258.0	120: Zone - MountainTop	39.00	1,366.1	46.8
470	J-381	1,178.0	120: Zone - MountainTop	12.00	1,364.3	80.6
471	J-382	1,172.0	120: Zone - MountainTop	18.00	1,364.3	83.2
472	J-383	1,188.0	120: Zone - MountainTop	12.00	1,364.3	76.3
473	J-384	1,194.0	120: Zone - MountainTop	21.00	1,364.3	73.7
474	J-385	1,200.0	120: Zone - MountainTop	6.00	1,364.3	71.1
475	J-386	1,232.0	120: Zone - MountainTop	9.00	1,364.4	57.3
476	J-387	1,238.0	120: Zone - MountainTop	18.00	1,364.5	54.7
477	J-388	1,250.0	120: Zone - MountainTop	30.00	1,364.5	49.5
478	J-389	1,236.0	120: Zone - MountainTop	7.50	1,364.5	55.6
479	J-390	1,268.0	120: Zone - MountainTop	15.00	1,368.6	43.5
480	J-391	1,282.0	120: Zone - MountainTop	7.50	1,372.3	39.1
481	J-392	1,282.0	120: Zone - MountainTop	24.00	1,375.3	40.3
482	J-393	1,273.0	120: Zone - MountainTop	12.00	1,377.0	45.0
792	J-394	1,225.0	120: Zone - MountainTop	27.00	1,351.6	54.8
483	J-395	1,250.0	120: Zone - MountainTop	27.00	1,376.4	54.7
795	J-396	1,273.0	120: Zone - MountainTop	0.00	1,376.6	44.8
484	J-397	1,285.0	120: Zone - MountainTop	7.50	1,372.2	37.7
485	J-398	1,270.0	120: Zone - MountainTop	4.50	1,372.2	44.2
486	J-400	1,129.0	117: Zone - Central	21.00	1,372.2	105.2
487	J-401	1,100.0	117: Zone - Central	0.00	1,254.0	66.6
488	J-402	1,140.0	117: Zone - Central	15.00	1,253.9	49.3
490	J-405	1,102.0	117: Zone - Central	22.50	1,255.6	66.4
491	J-406	1,094.0	117: Zone - Central	0.00	1,255.4	69.8
492	J-407	1,096.0	117: Zone - Central	7.50	1,255.1	68.8
493	J-408	1,118.0	117: Zone - Central	0.00	1,253.7	58.7
494	J-409	1,076.0	117: Zone - Central	0.00	1,254.5	77.2
495	J-410	1,105.0	117: Zone - Central	0.00	1,255.9	65.3
496	J-411	1,136.0	117: Zone - Central	1,623.00	1,259.1	53.3
497	J-412	1,110.0	117: Zone - Central	7.50	1,255.9	63.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
498	J-413	1,085.0	117: Zone - Central	45.00	1,252.1	72.3
499	J-414	1,068.0	117: Zone - Central	220.50	1,249.6	78.6
500	J-415	1,108.0	117: Zone - Central	15.00	1,235.8	55.3
501	J-416	1,086.0	117: Zone - Central	24.00	1,213.7	55.2
502	J-417	1,067.0	117: Zone - Central	18.00	1,210.2	62.0
503	J-418	1,054.0	117: Zone - Central	48.00	1,209.3	67.2
504	J-419	1,076.0	117: Zone - Central	30.00	1,209.1	57.6
505	J-420	1,046.0	117: Zone - Central	57.00	1,208.5	70.3
506	J-421	1,042.0	117: Zone - Central	36.00	1,208.4	72.0
507	J-422	1,036.0	117: Zone - Central	24.00	1,208.3	74.5
508	J-423	1,064.0	117: Zone - Central	13.50	1,208.4	62.5
509	J-424	1,067.0	117: Zone - Central	18.00	1,210.0	61.9
510	J-425	1,066.0	117: Zone - Central	18.00	1,209.3	62.0
511	J-426	1,056.0	117: Zone - Central	16.50	1,208.7	66.1
512	J-427	1,063.0	117: Zone - Central	7.50	1,208.1	62.8
513	J-428	1,058.0	117: Zone - Central	7.50	1,207.7	64.8
514	J-429	1,042.0	117: Zone - Central	9.00	1,207.4	71.5
515	J-430	1,083.0	117: Zone - Central	22.50	1,210.6	55.2
516	J-431	1,081.0	117: Zone - Central	18.00	1,209.2	55.5
517	J-432	1,074.0	117: Zone - Central	15.00	1,208.7	58.3
518	J-433	1,076.0	117: Zone - Central	34.50	1,208.4	57.3
519	J-434	1,070.0	117: Zone - Central	7.50	1,208.2	59.8
520	J-435	1,063.0	117: Zone - Central	22.50	1,208.1	62.8
521	J-436	1,052.0	117: Zone - Central	7.50	1,208.4	67.7
522	J-437	1,062.0	117: Zone - Central	7.50	1,207.7	63.0
523	J-438	1,092.0	117: Zone - Central	21.00	1,208.2	50.3
524	J-439	1,090.0	117: Zone - Central	15.00	1,208.8	51.4
525	J-440	1,110.0	117: Zone - Central	15.00	1,208.8	42.7
526	J-441	1,100.0	117: Zone - Central	18.00	1,208.8	47.1
527	J-442	1,090.0	117: Zone - Central	18.00	1,208.9	51.4
528	J-443	1,110.0	117: Zone - Central	15.00	1,210.6	43.5
529	J-444	1,072.0	117: Zone - Central	18.00	1,209.2	59.3
530	J-445	1,064.0	117: Zone - Central	15.00	1,208.7	62.6
531	J-446	990.0	117: Zone - Central	0.00	1,207.4	94.0
532	J-447	1,046.0	117: Zone - Central	6.00	1,207.2	69.7
533	J-448	1,042.0	117: Zone - Central	0.00	1,205.8	70.9
534	J-449	1,048.0	117: Zone - Central	150.00	1,209.0	69.7
535	J-450	1,040.0	117: Zone - Central	990.00	1,149.9	47.6
536	J-451	1,032.0	117: Zone - Central	0.00	1,159.5	55.2
537	J-452	1,012.0	117: Zone - Central	97.50	1,189.1	76.6
538	J-453	1,020.0	117: Zone - Central	835.50	1,197.8	76.9
539	J-454	1,048.0	117: Zone - Central	0.00	1,159.5	48.3
540	J-455	1,014.0	117: Zone - Central	37.50	1,189.1	75.8
541	J-456	1,030.0	117: Zone - Central	30.00	1,189.5	69.0
542	J-457	1,030.0	117: Zone - Central	30.00	1,189.9	69.2
543	J-458	1,060.0	117: Zone - Central	42.00	1,191.6	56.9
544	J-459	1,050.0	117: Zone - Central	60.00	1,189.2	60.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
545	J-460	1,096.0	117: Zone - Central	45.00	1,189.9	40.6
546	J-461	1,066.0	117: Zone - Central	31.50	1,189.5	53.4
547	J-462	1,078.0	117: Zone - Central	27.00	1,189.7	48.3
548	J-463	1,060.0	117: Zone - Central	12.00	1,207.3	63.7
549	J-464	1,070.0	117: Zone - Central	9.00	1,207.7	59.6
550	J-465	1,074.0	117: Zone - Central	12.00	1,208.1	58.0
551	J-466	1,080.0	117: Zone - Central	15.00	1,208.2	55.5
552	J-467	1,084.0	117: Zone - Central	0.00	1,208.2	53.7
553	J-468	1,115.0	117: Zone - Central	18.00	1,208.2	40.3
554	J-469	1,068.0	117: Zone - Central	30.00	1,208.1	60.6
555	J-470	1,044.0	117: Zone - Central	46.50	1,206.6	70.4
556	J-471	1,048.0	117: Zone - Central	19.50	1,206.9	68.8
557	J-472	1,056.0	117: Zone - Central	12.00	1,207.7	65.6
558	J-473	1,060.0	117: Zone - Central	10.50	1,208.2	64.1
559	J-474	1,062.0	117: Zone - Central	16.50	1,209.4	63.8
560	J-475	1,050.0	117: Zone - Central	21.00	1,202.3	65.9
561	J-476	1,050.0	117: Zone - Central	19.50	1,203.8	66.5
562	J-477	1,050.0	117: Zone - Central	21.00	1,205.1	67.1
563	J-478	1,052.0	117: Zone - Central	13.50	1,206.8	67.0
564	J-479	1,053.0	117: Zone - Central	15.00	1,208.1	67.1
565	J-480	1,054.0	117: Zone - Central	22.50	1,210.0	67.5
566	J-481	1,058.0	117: Zone - Central	33.00	1,211.4	66.4
567	J-482	1,060.0	117: Zone - Central	33.00	1,212.9	66.2
568	J-483	1,082.0	117: Zone - Central	12.00	1,206.9	54.0
569	J-484	1,120.0	117: Zone - Central	4.50	1,205.7	37.1
570	J-485	1,124.0	117: Zone - Central	15.00	1,205.0	35.0
571	J-486	1,124.0	117: Zone - Central	13.50	1,204.0	34.6
572	J-487	1,138.0	117: Zone - Central	6.00	1,203.4	28.3
573	J-488	1,093.0	117: Zone - Central	18.00	1,208.1	49.8
574	J-489	1,084.0	117: Zone - Central	21.00	1,209.9	54.5
575	J-490	1,080.0	117: Zone - Central	28.50	1,211.7	57.0
576	J-491	1,090.0	117: Zone - Central	30.00	1,214.3	53.8
577	J-492	1,092.0	117: Zone - Central	30.00	1,219.3	55.1
578	J-493	1,094.0	117: Zone - Central	24.00	1,227.3	57.7
579	J-494	1,096.0	117: Zone - Central	18.00	1,234.5	59.9
580	J-495	1,100.0	117: Zone - Central	19.50	1,243.2	61.9
581	J-496	1,062.0	117: Zone - Central	33.00	1,218.0	67.5
582	J-497	1,066.0	117: Zone - Central	13.50	1,222.0	67.5
583	J-498	1,072.0	117: Zone - Central	22.50	1,227.6	67.3
584	J-499	1,078.0	117: Zone - Central	24.00	1,234.4	67.7
585	J-500	1,083.0	117: Zone - Central	25.50	1,242.0	68.8
586	J-501	1,090.0	117: Zone - Central	19.50	1,249.4	69.0
587	J-502	1,100.0	117: Zone - Central	45.00	1,251.0	65.3
588	J-504	1,107.0	117: Zone - Central	37.50	1,252.6	63.0
589	J-505	1,115.0	117: Zone - Central	34.50	1,254.9	60.5
590	J-506	1,127.0	117: Zone - Central	15.00	1,256.0	55.8
591	J-507	1,128.0	117: Zone - Central	16.50	1,255.8	55.3

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
592	J-508	1,118.0	117: Zone - Central	10.50	1,256.3	59.9
593	J-509	1,140.0	117: Zone - Central	31.50	1,256.1	50.2
594	J-510	1,160.0	117: Zone - Central	12.00	1,256.2	41.6
595	J-511	1,132.0	117: Zone - Central	0.00	1,257.9	54.5
597	J-515	1,100.0	117: Zone - Central	0.00	1,256.9	67.9
598	J-517	1,216.0	119: Zone - Rattlesnake	18.00	1,340.1	53.7
599	J-518	1,160.0	119: Zone - Rattlesnake	21.00	1,338.0	77.0
600	J-519	1,150.0	119: Zone - Rattlesnake	12.00	1,337.0	80.9
601	J-520	1,155.0	119: Zone - Rattlesnake	13.50	1,335.1	77.9
602	J-521	1,154.0	119: Zone - Rattlesnake	21.00	1,334.2	78.0
603	J-522	1,148.0	119: Zone - Rattlesnake	21.00	1,333.6	80.3
604	J-523	1,142.0	119: Zone - Rattlesnake	30.00	1,333.1	82.7
605	J-524	1,150.0	119: Zone - Rattlesnake	30.00	1,332.8	79.1
606	J-525	1,152.0	119: Zone - Rattlesnake	28.50	1,332.5	78.1
607	J-526	1,148.0	119: Zone - Rattlesnake	28.50	1,332.2	79.7
608	J-527	1,141.0	119: Zone - Rattlesnake	15.00	1,332.0	82.6
609	J-528	1,140.0	119: Zone - Rattlesnake	22.50	1,331.8	83.0
610	J-529	1,139.0	119: Zone - Rattlesnake	16.50	1,331.6	83.3
611	J-530	1,132.0	119: Zone - Rattlesnake	13.50	1,333.6	87.2
612	J-531	1,125.0	119: Zone - Rattlesnake	13.50	1,333.1	90.0
613	J-532	1,122.0	119: Zone - Rattlesnake	12.00	1,332.8	91.2
614	J-533	1,115.0	119: Zone - Rattlesnake	18.00	1,332.5	94.1
615	J-534	1,110.0	119: Zone - Rattlesnake	21.00	1,332.4	96.2
616	J-535	1,104.0	117: Zone - Central	24.00	1,256.9	66.1
617	J-536	1,125.0	117: Zone - Central	39.00	1,256.6	56.9
618	J-537	1,113.0	117: Zone - Central	31.50	1,256.6	62.1
619	J-538	1,206.0	119: Zone - Rattlesnake	19.50	1,338.3	57.3
620	J-539	1,180.0	119: Zone - Rattlesnake	21.00	1,337.5	68.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
621	J-540	1,160.0	119: Zone - Rattlesnake	13.50	1,337.2	76.7
622	J-541	1,150.0	119: Zone - Rattlesnake	15.00	1,337.1	81.0
623	J-542	1,140.0	119: Zone - Rattlesnake	15.00	1,337.1	85.3
624	J-543	1,130.0	119: Zone - Rattlesnake	12.00	1,337.0	89.6
625	J-544	1,120.0	119: Zone - Rattlesnake	12.00	1,337.0	93.9
626	J-545	1,114.0	117: Zone - Central	15.00	1,256.8	61.8
627	J-546	1,142.0	119: Zone - Rattlesnake	27.00	1,337.2	84.5
628	J-547	1,138.0	119: Zone - Rattlesnake	18.00	1,337.2	86.2
629	J-548	1,132.0	119: Zone - Rattlesnake	19.50	1,337.2	88.8
630	J-549	1,128.0	119: Zone - Rattlesnake	16.50	1,337.1	90.5
631	J-550	1,119.0	119: Zone - Rattlesnake	12.00	1,337.1	94.3
632	J-551	1,114.0	119: Zone - Rattlesnake	15.00	1,337.0	96.5
633	J-552	1,110.0	119: Zone - Rattlesnake	9.00	1,337.0	98.2
634	J-553	1,104.0	117: Zone - Central	15.00	1,257.4	66.4
635	J-554	1,127.0	119: Zone - Rattlesnake	15.00	1,342.4	93.2
636	J-555	1,144.0	119: Zone - Rattlesnake	21.00	1,342.5	85.9
637	J-556	1,192.0	119: Zone - Rattlesnake	18.00	1,343.0	65.3
638	J-557	1,202.0	119: Zone - Rattlesnake	10.50	1,343.5	61.2
639	J-558	1,204.0	119: Zone - Rattlesnake	12.00	1,344.2	60.6
640	J-559	1,196.0	119: Zone - Rattlesnake	19.50	1,343.1	63.7
641	J-560	1,192.0	119: Zone - Rattlesnake	21.00	1,342.4	65.1
642	J-561	1,194.0	119: Zone - Rattlesnake	21.00	1,342.4	64.2
643	J-562	1,198.0	119: Zone - Rattlesnake	30.00	1,342.5	62.5
644	J-563	1,128.0	119: Zone - Rattlesnake	34.50	1,342.4	92.7
645	J-564	1,136.0	119: Zone - Rattlesnake	16.50	1,342.3	89.3
646	J-565	1,189.0	119: Zone - Rattlesnake	15.00	1,342.3	66.3

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
647	J-566	1,150.0	119: Zone - Rattlesnake	12.00	1,342.2	83.2
648	J-567	1,140.0	119: Zone - Rattlesnake	21.00	1,342.2	87.5
649	J-568	1,118.0	119: Zone - Rattlesnake	25.50	1,342.1	97.0
650	J-569	1,086.0	119: Zone - Rattlesnake	6.00	1,342.1	110.8
651	J-570	1,082.0	117: Zone - Central	4.50	1,243.3	69.8
652	J-571	1,142.0	119: Zone - Rattlesnake	15.00	1,342.1	86.6
653	J-572	1,132.0	117: Zone - Central	36.00	1,242.2	47.7
654	J-573	1,110.0	117: Zone - Central	33.00	1,242.2	57.2
655	J-574	1,096.0	117: Zone - Central	34.50	1,242.3	63.3
656	J-575	1,083.0	117: Zone - Central	18.00	1,242.5	69.0
657	J-576	1,060.0	117: Zone - Central	15.00	1,244.6	79.9
658	J-577	1,052.0	117: Zone - Central	9.00	1,247.3	84.5
659	J-578	1,070.0	117: Zone - Central	7.50	1,242.5	74.6
660	J-579	1,058.0	117: Zone - Central	16.50	1,242.4	79.8
661	J-580	1,046.0	117: Zone - Central	16.50	1,242.3	84.9
662	J-581	1,042.0	117: Zone - Central	246.00	1,242.3	86.6
663	J-582	1,052.0	117: Zone - Central	31.50	1,242.3	82.4
664	J-583	1,058.0	117: Zone - Central	34.50	1,242.5	79.8
665	J-584	1,060.0	117: Zone - Central	24.00	1,243.2	79.3
666	J-585	1,076.0	117: Zone - Central	25.50	1,242.3	72.0
667	J-586	1,075.0	117: Zone - Central	45.00	1,242.3	72.4
668	J-587	1,080.0	117: Zone - Central	25.50	1,242.3	70.2
669	J-588	1,088.0	117: Zone - Central	36.00	1,242.2	66.7
670	J-589	1,036.0	117: Zone - Central	18.00	1,245.8	90.8
671	J-590	1,038.0	117: Zone - Central	61.50	1,245.8	89.9
672	J-591	1,028.0	117: Zone - Central	0.00	1,247.4	94.9
673	J-592	1,030.0	117: Zone - Central	27.00	1,247.3	94.0
674	J-594	1,028.0	117: Zone - Central	4.50	1,255.8	98.6
675	J-595	1,046.0	117: Zone - Central	3.00	1,256.4	91.0
676	J-596	1,018.0	117: Zone - Central	6.00	1,251.5	101.0
677	J-597	1,042.0	117: Zone - Central	9.00	1,243.2	87.0
678	J-598	1,056.0	117: Zone - Central	31.50	1,243.9	81.3
679	J-599	1,060.0	117: Zone - Central	25.50	1,243.7	79.5
680	J-600	1,060.0	117: Zone - Central	25.50	1,243.8	79.5
681	J-601	1,050.0	117: Zone - Central	19.50	1,243.4	83.7
682	J-602	1,055.0	117: Zone - Central	9.00	1,243.4	81.5
683	J-603	1,072.0	117: Zone - Central	33.00	1,244.1	74.5
684	J-604	1,070.0	117: Zone - Central	30.00	1,244.2	75.4
685	J-605	1,062.0	117: Zone - Central	16.50	1,244.2	78.8
686	J-606	1,052.0	117: Zone - Central	16.50	1,244.2	83.2
687	J-607	1,050.0	117: Zone - Central	6.00	1,244.3	84.1
688	J-608	1,060.0	117: Zone - Central	4.50	1,244.1	79.6

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
689	J-609	1,070.0	117: Zone - Central	16.50	1,244.1	75.3
690	J-610	1,070.0	117: Zone - Central	15.00	1,244.6	75.6
691	J-611	1,078.0	117: Zone - Central	22.50	1,244.6	72.1
692	J-612	1,084.0	117: Zone - Central	4.50	1,245.0	69.6
693	J-613	1,077.0	117: Zone - Central	9.00	1,244.9	72.7
694	J-614	1,100.0	117: Zone - Central	4.50	1,244.5	62.5
695	J-615	1,090.0	117: Zone - Central	22.50	1,245.2	67.1
696	J-616	1,084.0	117: Zone - Central	18.00	1,245.3	69.8
697	J-617	1,084.0	117: Zone - Central	16.50	1,245.0	69.6
698	J-618	1,084.0	117: Zone - Central	22.50	1,244.9	69.6
699	J-619	1,080.0	117: Zone - Central	19.50	1,244.9	71.4
700	J-620	1,096.0	117: Zone - Central	9.00	1,244.8	64.4
701	J-621	1,108.0	117: Zone - Central	10.50	1,245.6	59.5
702	J-622	1,102.0	117: Zone - Central	21.00	1,245.6	62.1
703	J-623	1,100.0	117: Zone - Central	0.00	1,246.5	63.4
704	J-624	1,102.0	117: Zone - Central	13.50	1,246.9	62.7
705	J-625	1,140.0	119: Zone - Rattlesnake	0.00	1,343.3	88.0
706	J-626	1,116.0	119: Zone - Rattlesnake	24.00	1,343.3	98.4
707	J-627	1,112.0	119: Zone - Rattlesnake	13.50	1,343.3	100.1
708	J-628	1,114.0	119: Zone - Rattlesnake	18.00	1,343.3	99.2
709	J-629	1,112.0	119: Zone - Rattlesnake	21.00	1,343.3	100.1
710	J-630	1,108.0	117: Zone - Central	16.50	1,255.8	63.9
711	J-631	1,100.0	117: Zone - Central	30.00	1,254.7	66.9
712	J-632	1,084.0	117: Zone - Central	85.50	1,256.8	74.8
713	J-633	1,126.0	117: Zone - Central	15.00	1,256.5	56.5
714	J-634	1,140.0	119: Zone - Rattlesnake	19.50	1,343.9	88.2
715	J-635	1,180.0	119: Zone - Rattlesnake	4.50	1,343.9	70.9
716	J-637	1,154.0	119: Zone - Rattlesnake	13.50	1,344.2	82.3
717	J-638	1,092.0	117: Zone - Central	13.50	1,256.5	71.2
718	J-639	1,100.0	117: Zone - Central	19.50	1,256.1	67.5
719	J-640	1,087.0	117: Zone - Central	22.50	1,256.7	73.4
720	J-641	1,098.0	117: Zone - Central	28.50	1,256.6	68.6
721	J-642	1,112.0	117: Zone - Central	19.50	1,256.6	62.5
722	J-643	1,118.0	117: Zone - Central	13.50	1,256.6	59.9
723	J-644	1,136.0	119: Zone - Rattlesnake	28.50	1,331.3	84.5
724	J-645	1,080.0	117: Zone - Central	37.50	1,245.0	71.4
777	J-646	1,097.0	117: Zone - Central	6.00	1,248.2	65.4
725	J-647	1,070.0	117: Zone - Central	301.50	1,243.2	74.9
726	J-648	1,050.0	117: Zone - Central	0.00	1,244.7	84.2

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
727	J-649	1,102.0	117: Zone - Central	21.00	1,256.5	66.9
728	J-650	1,116.0	119: Zone - Rattlesnake	37.50	1,331.0	93.0
729	J-651	1,105.0	117: Zone - Central	0.00	1,250.9	63.1
730	J-652	1,160.0	119: Zone - Rattlesnake	18.00	1,330.7	73.8
731	J-653	1,214.0	119: Zone - Rattlesnake	36.00	1,330.5	50.4
732	J-654	1,214.0	119: Zone - Rattlesnake	37.50	1,330.5	50.4
733	J-655	1,096.0	117: Zone - Central	48.00	1,250.9	67.0
734	J-656	1,077.0	117: Zone - Central	30.00	1,251.0	75.3
735	J-657	1,116.0	117: Zone - Central	13.50	1,252.8	59.2
736	J-659	1,100.0	117: Zone - Central	76.50	1,256.8	67.9
737	J-660	1,104.0	117: Zone - Central	0.00	1,257.4	66.4
738	J-662	1,270.0	120: Zone - MountainTop	15.00	1,373.5	44.8
739	J-663	1,272.0	120: Zone - MountainTop	9.00	1,372.7	43.6
740	J-664	1,272.0	120: Zone - MountainTop	9.00	1,372.6	43.5
741	J-665	1,283.0	120: Zone - MountainTop	18.00	1,372.5	38.7
742	J-666	1,288.0	120: Zone - MountainTop	16.50	1,372.4	36.5
743	J-667	1,278.0	120: Zone - MountainTop	1,209.00	1,372.3	40.8
744	J-668	1,258.0	120: Zone - MountainTop	12.00	1,372.3	49.5
745	J-669	1,132.0	117: Zone - Central	6.00	1,239.3	46.4
746	J-670	1,092.0	117: Zone - Central	4.50	1,239.3	63.7
747	J-671	1,095.0	117: Zone - Central	15.00	1,239.3	62.4
748	J-672	1,080.0	117: Zone - Central	0.00	1,239.3	68.9
749	J-673	1,100.0	117: Zone - Central	6.00	1,239.3	60.3
750	J-674	1,050.0	117: Zone - Central	546.00	1,239.4	81.9
751	J-675	1,276.0	120: Zone - MountainTop	48.00	1,368.2	39.9
752	J-676	1,246.0	120: Zone - MountainTop	36.00	1,366.7	52.2
753	J-677	1,254.0	120: Zone - MountainTop	664.50	1,367.2	49.0
754	J-679	1,132.0	117: Zone - Central	16.50	1,241.1	47.2
755	J-680	1,073.0	117: Zone - Central	585.00	1,238.9	71.8
756	J-681	1,078.0	117: Zone - Central	9.00	1,239.3	69.8
757	J-682	1,070.0	117: Zone - Central	4.50	1,239.4	73.3
758	J-683	1,083.0	117: Zone - Central	3.00	1,239.4	67.7
759	J-684	1,093.0	117: Zone - Central	7.50	1,239.4	63.3
760	J-685	1,112.0	117: Zone - Central	15.00	1,239.4	55.1

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
761	J-686	1,118.0	117: Zone - Central	24.00	1,239.6	52.6
762	J-687	1,107.0	117: Zone - Central	6.00	1,240.2	57.6
763	J-688	1,100.0	117: Zone - Central	9.00	1,239.6	60.4
764	J-689	1,088.0	117: Zone - Central	0.00	1,239.5	65.6
765	J-690	1,129.0	117: Zone - Central	594.00	1,238.9	47.5
766	J-691	1,114.0	117: Zone - Central	534.00	1,239.6	54.3
767	J-692	1,140.0	117: Zone - Central	6.00	1,248.8	47.1
768	J-693	1,136.0	117: Zone - Central	12.00	1,248.8	48.8
769	J-694	1,138.0	117: Zone - Central	258.00	1,248.8	47.9
770	J-696	1,177.0	117: Zone - Central	12.00	1,248.8	31.1
771	J-698	1,078.0	117: Zone - Central	10.50	1,255.4	76.8
772	J-700	1,100.0	117: Zone - Central	46.50	1,256.7	67.8
773	J-701	1,050.0	117: Zone - Central	73.50	1,245.3	84.5
779	J-703	1,230.0	120: Zone - MountainTop	3.00	1,351.3	52.5
797	J-704	950.0	117: Zone - Central	0.00	1,065.5	50.0
780	J-705	1,245.0	120: Zone - MountainTop	0.00	1,353.5	46.9
775	J-707	1,020.0	117: Zone - Central	0.00	1,255.8	102.0
776	J-708	1,198.0	119: Zone - Rattlesnake	15.00	1,343.9	63.1
781	J-714	1,080.0	117: Zone - Central	0.00	1,255.4	75.9
782	J-715	1,148.0	119: Zone - Rattlesnake	15.00	1,343.9	84.8
783	J-716	1,150.0	119: Zone - Rattlesnake	9.00	1,343.7	83.8
784	J-717	1,085.0	117: Zone - Central	15.00	1,255.2	73.6
785	J-718	1,055.0	117: Zone - Central	214.50	1,255.3	86.7
786	J-719	1,060.0	117: Zone - Central	93.00	1,232.3	74.6
787	J-720	1,060.0	117: Zone - Central	264.00	1,229.3	73.3
788	J-721	1,042.0	117: Zone - Central	127.50	1,228.9	80.9
789	J-722	1,072.0	117: Zone - Central	0.00	1,254.8	79.1
790	J-723	1,040.0	117: Zone - Central	33.00	1,254.7	92.9
791	J-724	1,050.0	117: Zone - Central	90.00	1,254.0	88.3
796	J-725	1,250.0	120: Zone - MountainTop	0.00	1,354.4	45.2
798	J-726	1,172.0	120: Zone - MountainTop	480.00	1,370.3	85.8
799	J-727	1,030.0	117: Zone - Central	0.00	1,240.5	91.1
800	J-728	1,070.0	117: Zone - Central	387.00	1,242.1	74.5
801	J-729	1,100.0	117: Zone - Central	0.00	1,248.5	64.2
802	J-731	1,050.0	117: Zone - Central	961.50	1,253.1	87.9
803	J-732	1,100.0	117: Zone - Central	0.00	1,253.3	66.3
804	J-733	1,052.0	117: Zone - Central	0.00	1,237.4	80.2
805	J-736	1,120.0	117: Zone - Central	640.50	1,258.3	59.8
806	J-737	1,210.0	119: Zone - Rattlesnake	640.50	1,344.8	58.3
810	J-738	1,020.0	121: Zone - PS	0.00	1,065.5	19.7

FlexTable: Junction Table (CCWM_Future.2011.wtg)

Current Time: 0.000 hours

ID	Label	Elevation (ft)	Zone	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
807	J-739	1,114.0	117: Zone - Central	0.00	1,258.6	62.5
808	J-740	1,080.0	117: Zone - Central	0.00	1,255.3	75.8
809	J-741	1,104.0	117: Zone - Central	0.00	1,255.3	65.5
794	J-1001	840.0	121: Zone - PS	0.00	1,065.5	97.6
778	J-1002	840.0	121: Zone - PS	0.00	1,064.0	96.9
774	J-3000	1,208.0	121: Zone - PS	0.00	1,344.3	59.0
489	J-4002	1,150.0	121: Zone - PS	0.00	1,259.8	47.5
1949	J-4004	1,239.2	<None>	0.00	1,389.8	65.2
1959	J-4005	1,236.5	<None>	0.00	1,259.9	10.1
1963	J-4006	1,240.0	<None>	0.00	1,260.0	8.7

EXHIBIT F-4

FUTURE CONDITIONS WATER MODEL
FIRE FLOW

Copperas Cove Water System Study
Fire Flow Analysis Results - Future System

Label	Satisfies Fire Flow Constraints	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Pressure (Zone Lower Limit) (psi)	Pressure (Calculated Zone Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/ Minimum Pressure (System)	Flow (Total Available) (gpm)
J-1	FALSE	1000	0	20	99.7	20	17.7	8.7	963: J-4006	0
J-2	TRUE	1000	2000	20	103.6	20	35.9	8.7	963: J-4006	2000
J-3	TRUE	1000	2000	20	94.9	20	35.9	8.7	963: J-4006	2000
J-4	TRUE	1000	2000	20	79.4	20	35.9	8.7	963: J-4006	2000
J-5	TRUE	1000	2000	20	79.8	20	35.9	8.7	963: J-4006	2002.4
J-6	TRUE	1000	2000	20	75.7	20	35.9	8.7	963: J-4006	2004.5
J-7	TRUE	1000	2000	20	90.6	20	35.9	8.7	963: J-4006	2000
J-8	TRUE	1000	2000	20	94.2	20	35.9	8.7	963: J-4006	2002.7
J-9	TRUE	1000	2000	20	60.6	20	36	8.7	963: J-4006	2000
J-10	FALSE	1000	0	20	17.7	20	19.7	8.7	963: J-4006	0
J-11	TRUE	1000	2000	20	78.1	20	35.9	8.7	963: J-4006	2003.6
J-12	TRUE	1000	2000	20	78.4	20	35.9	8.7	963: J-4006	2000
J-13	TRUE	1000	2000	20	81.9	20	35.9	8.7	963: J-4006	2000
J-14	TRUE	1000	2000	20	79.5	20	35.9	8.7	963: J-4006	2000
J-15	TRUE	1000	2000	20	65.6	20	36	8.7	963: J-4006	2000
J-16	TRUE	1000	2000	20	64.4	20	36	8.7	963: J-4006	2000
J-17	TRUE	1000	2000	20	79.5	20	35.9	8.7	963: J-4006	2001.5
J-18	TRUE	1000	2000	20	73	20	35.9	8.7	963: J-4006	2000
J-19	TRUE	1000	2000	20	71.1	20	35.9	8.7	963: J-4006	2003
J-20	TRUE	1000	2000	20	64.9	20	35.9	8.7	963: J-4006	2006
J-21	TRUE	1000	2000	20	58.5	20	35.9	8.7	963: J-4006	2003.9
J-22	TRUE	1000	2000	20	65.4	20	35.9	8.7	963: J-4006	2003.6
J-23	TRUE	1000	2000	20	66.8	20	35.9	8.7	963: J-4006	2004.2
J-24	TRUE	1000	2000	20	67.2	20	35.9	8.7	963: J-4006	2002.7
J-25	TRUE	1000	2000	20	65.5	20	35.9	8.7	963: J-4006	2000.6
J-26	TRUE	1000	2000	20	55.5	20	35.9	8.7	963: J-4006	2003
J-27	TRUE	1000	2000	20	52.5	20	35.9	8.7	963: J-4006	2003
J-28	TRUE	1000	2000	20	51.7	20	35.9	8.7	963: J-4006	2002.7
J-29	TRUE	1000	2000	20	61	20	35.9	8.7	963: J-4006	2001.2
J-30	TRUE	1000	2000	20	68.1	20	35.9	8.7	963: J-4006	2003.3
J-31	TRUE	1000	2000	20	70.9	20	35.9	8.7	963: J-4006	2002.7
J-32	TRUE	1000	2000	20	66.3	20	35.9	8.7	963: J-4006	2002.4
J-33	TRUE	1000	2000	20	61.6	20	35.9	8.7	963: J-4006	2002.4
J-34	TRUE	1000	2000	20	71	20	35.9	8.7	963: J-4006	2001.8
J-35	TRUE	1000	2000	20	65.9	20	35.9	8.7	963: J-4006	2003
J-36	TRUE	1000	2000	20	72.8	20	35.9	8.7	963: J-4006	2000
J-37	TRUE	1000	2000	20	63.1	20	35.9	8.7	963: J-4006	2000
J-38	TRUE	1000	2000	20	20.1	20	35.9	8.7	963: J-4006	2000
J-39	TRUE	1000	2000	20	66	20	35.9	8.7	963: J-4006	2005.1
J-40	TRUE	1000	2000	20	52.8	20	35.9	8.7	963: J-4006	2003.9
J-41	TRUE	1000	2000	20	69.3	20	35.9	8.7	963: J-4006	2000
J-42	TRUE	1000	2000	20	73.7	20	35.9	8.7	963: J-4006	2004.5
J-43	TRUE	1000	2000	20	62.6	20	35.9	8.7	963: J-4006	2007.2
J-44	TRUE	1000	2000	20	53.5	20	35.9	8.7	963: J-4006	2006
J-45	TRUE	1000	2000	20	61.8	20	35.9	8.7	963: J-4006	2005.7
J-46	TRUE	1000	2000	20	58.1	20	35.9	8.7	963: J-4006	2003
J-47	TRUE	1000	2000	20	33.4	20	35.9	8.7	963: J-4006	2004.5

J-48	TRUE	1000	2000	20	37.7	20	35.9	8.7⌊963: J-4006	2007.2
J-49	TRUE	1000	2000	20	69.2	20	35.9	8.7⌊963: J-4006	2000.6
J-50	TRUE	1000	2000	20	68.4	20	35.9	8.7⌊963: J-4006	2002.4
J-51	TRUE	1000	2000	20	71.7	20	35.9	8.7⌊963: J-4006	2002.1
J-52	TRUE	1000	2000	20	68.4	20	35.9	8.7⌊963: J-4006	2003.3
J-53	TRUE	1000	2000	20	67	20	35.9	8.7⌊963: J-4006	2006.6
J-54	TRUE	1000	2000	20	58.1	20	35.9	8.7⌊963: J-4006	2006.6
J-55	TRUE	1000	2000	20	61.4	20	35.9	8.7⌊963: J-4006	2005.1
J-56	TRUE	1000	2000	20	63.8	20	35.9	8.7⌊963: J-4006	2000
J-57	TRUE	1000	2000	20	60.8	20	35.9	8.7⌊963: J-4006	2001.8
J-58	TRUE	1000	2000	20	59.5	20	35.9	8.7⌊963: J-4006	2005.1
J-59	TRUE	1000	2000	20	54.5	20	35.9	8.7⌊963: J-4006	2076.5
J-60	TRUE	1000	2000	20	49.7	20	35.9	8.7⌊963: J-4006	2003.6
J-61	TRUE	1000	2000	20	50.3	20	35.9	8.7⌊963: J-4006	2006
J-62	TRUE	1000	2000	20	37.9	20	35.9	8.7⌊963: J-4006	2001.2
J-63	TRUE	1000	1936.53	20	20	20	29.8	8.7⌊963: J-4006	1941.33
J-64	TRUE	1000	1631.67	20	20	20	35.9	8.7⌊963: J-4006	1639.77
J-65	TRUE	1000	1819.82	20	20	20	21.5	8.7⌊963: J-4006	1825.22
J-66	TRUE	1000	1963.23	20	20	20	26.1	8.7⌊963: J-4006	1969.23
J-67	TRUE	1000	2000	20	41.6	20	35.9	8.7⌊963: J-4006	2003.9
J-69	TRUE	1000	2000	20	62.9	20	35.9	8.7⌊963: J-4006	2008.7
J-70	TRUE	1000	2000	20	58.3	20	35.9	8.7⌊963: J-4006	2007.5
J-71	TRUE	1000	2000	20	66.1	20	35.9	8.7⌊963: J-4006	2003.9
J-72	TRUE	1000	2000	20	52.5	20	35.9	8.7⌊963: J-4006	2004.5
J-73	TRUE	1000	2000	20	60.3	20	35.9	8.7⌊963: J-4006	2005.4
J-74	TRUE	1000	2000	20	49.2	20	35.9	8.7⌊963: J-4006	2004.2
J-75	TRUE	1000	1235.41	20	20	20	36	8.7⌊963: J-4006	1239.01
J-76	TRUE	1000	2000	20	61.2	20	35.9	8.7⌊963: J-4006	2006.6
J-77	TRUE	1000	2000	20	68	20	35.9	8.7⌊963: J-4006	2004.8
J-78	TRUE	1000	2000	20	72	20	35.9	8.7⌊963: J-4006	2006.6
J-79	TRUE	1000	2000	20	73.4	20	35.9	8.7⌊963: J-4006	2004.8
J-80	TRUE	1000	2000	20	74	20	35.9	8.7⌊963: J-4006	2002.4
J-81	TRUE	1000	2000	20	76.4	20	35.9	8.7⌊963: J-4006	2006
J-82	TRUE	1000	2000	20	68.3	20	35.9	8.7⌊963: J-4006	2004.2
J-83	TRUE	1000	2000	20	61.5	20	35.9	8.7⌊963: J-4006	2004.8
J-84	TRUE	1000	2000	20	60.9	20	35.9	8.7⌊963: J-4006	2001.5
J-85	TRUE	1000	2000	20	41.4	20	35.9	8.7⌊963: J-4006	2003.6
J-86	TRUE	1000	1876.55	20	20	20	35.9	8.7⌊963: J-4006	1876.85
J-87	TRUE	1000	2000	20	84.9	20	35.9	8.7⌊963: J-4006	2001.8
J-88	TRUE	1000	2000	20	84.7	20	35.9	8.7⌊963: J-4006	2003.6
J-89	TRUE	1000	2000	20	84.3	20	35.9	8.7⌊963: J-4006	2001.2
J-90	TRUE	1000	2000	20	82.6	20	35.9	8.7⌊963: J-4006	2006.9
J-91	TRUE	1000	2000	20	77.2	20	35.9	8.7⌊963: J-4006	2002.7
J-92	TRUE	1000	2000	20	77.1	20	35.9	8.7⌊963: J-4006	2005.1
J-93	TRUE	1000	2000	20	78.6	20	35.9	8.7⌊963: J-4006	2003.6
J-94	TRUE	1000	2000	20	78.7	20	35.9	8.7⌊963: J-4006	2000
J-95	TRUE	1000	2000	20	73.5	20	35.9	8.7⌊963: J-4006	2001.5
J-96	TRUE	1000	2000	20	75	20	36	8.7⌊963: J-4006	2005.4
J-97	TRUE	1000	2000	20	64.3	20	36	8.7⌊963: J-4006	2009
J-99	TRUE	1000	2000	20	68.9	20	35.9	8.7⌊963: J-4006	2002.4
J-100	TRUE	1000	2000	20	73.5	20	35.9	8.7⌊963: J-4006	2000
J-101	TRUE	1000	2000	20	73.5	20	35.9	8.7⌊963: J-4006	2004.5

J-102	TRUE	1000	2000	20	73.2	20	35.9	8.7⌊963: J-4006	2007.8
J-103	TRUE	1000	2000	20	71.7	20	35.9	8.7⌊963: J-4006	2003
J-104	TRUE	1000	2000	20	72	20	35.9	8.7⌊963: J-4006	2001.5
J-105	TRUE	1000	2000	20	72.3	20	35.9	8.7⌊963: J-4006	2000
J-106	TRUE	1000	2000	20	72.4	20	35.9	8.7⌊963: J-4006	2001.5
J-107	TRUE	1000	2000	20	72.9	20	35.9	8.7⌊963: J-4006	2000
J-108	TRUE	1000	2000	20	72.5	20	35.9	8.7⌊963: J-4006	2001.2
J-109	TRUE	1000	2000	20	72.2	20	35.9	8.7⌊963: J-4006	2003.3
J-110	TRUE	1000	2000	20	73.2	20	35.8	8.7⌊963: J-4006	2006.6
J-111	TRUE	1000	2000	20	62.5	20	35.9	8.7⌊963: J-4006	2005.1
J-112	TRUE	1000	2000	20	61.8	20	35.9	8.7⌊963: J-4006	2003
J-113	TRUE	1000	2000	20	66.2	20	35.9	8.7⌊963: J-4006	2005.4
J-114	TRUE	1000	2000	20	63.1	20	35.9	8.7⌊963: J-4006	2004.2
J-115	TRUE	1000	2000	20	63.5	20	35.9	8.7⌊963: J-4006	2001.8
J-116	TRUE	1000	2000	20	63.2	20	35.9	8.7⌊963: J-4006	2001.2
J-117	TRUE	1000	2000	20	63.8	20	35.9	8.7⌊963: J-4006	2003.3
J-118	TRUE	1000	2000	20	61.9	20	35.9	8.7⌊963: J-4006	2005.4
J-119	TRUE	1000	2000	20	55.2	20	35.9	8.7⌊963: J-4006	2003.6
J-120	TRUE	1000	2000	20	24.5	20	35.9	8.7⌊963: J-4006	2002.4
J-121	TRUE	1000	2000	20	65	20	35.9	8.7⌊963: J-4006	2005.7
J-122	TRUE	1000	2000	20	67.9	20	35.9	8.7⌊963: J-4006	2006.9
J-123	TRUE	1000	2000	20	50.8	20	34.6	8.7⌊963: J-4006	2004.5
J-124	TRUE	1000	2000	20	56.2	20	35.9	8.7⌊963: J-4006	2001.5
J-125	TRUE	1000	2000	20	51.1	20	35.9	8.7⌊963: J-4006	2001.5
J-126	TRUE	1000	2000	20	77.6	20	35.9	8.7⌊963: J-4006	2001.8
J-127	TRUE	1000	2000	20	72.1	20	35.9	8.7⌊963: J-4006	2003
J-128	TRUE	1000	2000	20	54.7	20	35.9	8.7⌊963: J-4006	2003.6
J-129	TRUE	1000	2000	20	55.1	20	35.9	8.7⌊963: J-4006	2003.6
J-130	TRUE	1000	2000	20	62.3	20	35.9	8.7⌊963: J-4006	2000
J-131	TRUE	1000	2000	20	60.1	20	35.9	8.7⌊963: J-4006	2004.2
J-132	TRUE	1000	2000	20	74.5	20	35.9	8.7⌊963: J-4006	2001.5
J-133	TRUE	1000	2000	20	67.9	20	35.9	8.7⌊963: J-4006	2001.2
J-134	TRUE	1000	2000	20	73.4	20	35.9	8.7⌊963: J-4006	2006
J-135	TRUE	1000	2000	20	73	20	35.9	8.7⌊963: J-4006	2000
J-136	TRUE	1000	2000	20	72.7	20	35.9	8.7⌊963: J-4006	2002.7
J-137	TRUE	1000	2000	20	51.8	20	35.9	8.7⌊963: J-4006	2005.1
J-138	TRUE	1000	2000	20	32.5	20	35.9	8.7⌊963: J-4006	2003.9
J-139	TRUE	1000	2000	20	64.5	20	35.9	8.7⌊963: J-4006	2005.4
J-140	FALSE	1000	513.61	20	20	20	36	8.7⌊963: J-4006	516.01
J-141	TRUE	1000	2000	20	41.1	20	35.9	8.7⌊963: J-4006	2004.2
J-142	TRUE	1000	2000	20	55.4	20	35.9	8.7⌊963: J-4006	2002.7
J-143	TRUE	1000	2000	20	80.1	20	35.9	8.7⌊963: J-4006	2006
J-144	TRUE	1000	2000	20	40	20	35.9	8.7⌊963: J-4006	2002.4
J-145	TRUE	1000	2000	20	94.6	20	35.9	8.7⌊963: J-4006	2002.7
J-146	TRUE	1000	2000	20	73.2	20	35.9	8.7⌊963: J-4006	2006.3
J-147	TRUE	1000	2000	20	57	20	35.9	8.7⌊963: J-4006	2008.7
J-148	TRUE	1000	2000	20	71.3	20	35.9	8.7⌊963: J-4006	2004.5
J-149	TRUE	1000	2000	20	80.2	20	35.9	8.7⌊963: J-4006	2003.6
J-150	TRUE	1000	2000	20	77.3	20	35.9	8.7⌊963: J-4006	2003
J-151	TRUE	1000	2000	20	75.7	20	35.9	8.7⌊963: J-4006	2003.6
J-152	TRUE	1000	2000	20	70.2	20	35.9	8.7⌊963: J-4006	2003.3
J-153	TRUE	1000	2000	20	68.5	20	35.9	8.7⌊963: J-4006	2004.5

J-154	TRUE	1000	2000	20	68.3	20	35.9	8.7l963: J-4006	2003.9
J-155	TRUE	1000	2000	20	73.4	20	35.9	8.7l963: J-4006	2002.7
J-156	TRUE	1000	2000	20	74.5	20	35.9	8.7l963: J-4006	2000
J-157	TRUE	1000	2000	20	76	20	35.9	8.7l963: J-4006	2008.7
J-158	TRUE	1000	2000	20	81.1	20	35.9	8.7l963: J-4006	2004.5
J-159	TRUE	1000	2000	20	84.9	20	35.9	8.7l963: J-4006	2004.8
J-160	TRUE	1000	2000	20	81.1	20	35.9	8.7l963: J-4006	2005.1
J-161	TRUE	1000	2000	20	81.2	20	35.9	8.7l963: J-4006	2004.2
J-162	TRUE	1000	2000	20	70.1	20	35.9	8.7l963: J-4006	2005.4
J-163	TRUE	1000	2000	20	93.6	20	35.9	8.7l963: J-4006	2004.5
J-164	TRUE	1000	2000	20	96.7	20	35.9	8.7l963: J-4006	2002.7
J-165	TRUE	1000	2000	20	46.3	20	35.9	8.7l963: J-4006	2003.6
J-166	TRUE	1000	2000	20	90.9	20	35.9	8.7l963: J-4006	2005.1
J-167	TRUE	1000	2000	20	75.5	20	35.9	8.7l963: J-4006	2005.1
J-168	TRUE	1000	2000	20	89.5	20	35.9	8.7l963: J-4006	2204
J-169	TRUE	1000	2000	20	82.3	20	35.9	8.7l963: J-4006	2003
J-170	TRUE	1000	2000	20	86.6	20	35.9	8.7l963: J-4006	2002.4
J-171	TRUE	1000	2000	20	88.8	20	35.9	8.7l963: J-4006	2003.6
J-172	TRUE	1000	2000	20	100	20	35.9	8.7l963: J-4006	2000
J-173	TRUE	1000	2000	20	102.7	20	35.9	8.7l963: J-4006	2000
J-174	TRUE	1000	2000	20	106.1	20	35.9	8.7l963: J-4006	2000
J-175	TRUE	1000	2000	20	110.2	20	35.9	8.7l963: J-4006	2000
J-176	TRUE	1000	2000	20	63.2	20	35.9	8.7l963: J-4006	2008.7
J-177	TRUE	1000	2000	20	66.9	20	35.9	8.7l963: J-4006	2004.5
J-178	TRUE	1000	2000	20	63.4	20	35.9	8.7l963: J-4006	2008.7
J-179	TRUE	1000	2000	20	72.3	20	35.9	8.7l963: J-4006	2007.8
J-180	TRUE	1000	2000	20	78.6	20	35.9	8.7l963: J-4006	2004.8
J-181	TRUE	1000	2000	20	57.6	20	35.9	8.7l963: J-4006	2006.9
J-182	TRUE	1000	2000	20	50.7	20	35.9	8.7l963: J-4006	2005.1
J-183	TRUE	1000	2000	20	81.6	20	35.9	8.7l963: J-4006	2005.4
J-184	TRUE	1000	2000	20	54.2	20	35.9	8.7l963: J-4006	2006.9
J-185	TRUE	1000	2000	20	76.8	20	35.9	8.7l963: J-4006	2007.2
J-186	TRUE	1000	1718.69	20	20	20	36	8.7l963: J-4006	1724.69
J-187	TRUE	1000	2000	20	70.8	20	35.9	8.7l963: J-4006	2005.4
J-188	TRUE	1000	2000	20	73.8	20	35.9	8.7l963: J-4006	2004.5
J-189	TRUE	1000	2000	20	73	20	35.9	8.7l963: J-4006	2004.2
J-190	TRUE	1000	2000	20	68.1	20	35.9	8.7l963: J-4006	2004.2
J-191	TRUE	1000	2000	20	73.1	20	36	8.7l963: J-4006	2086.4
J-192	TRUE	1000	2000	20	92.5	20	35.9	8.7l963: J-4006	2000
J-193	TRUE	1000	2000	20	50.8	20	36	8.7l963: J-4006	2006.6
J-194	TRUE	1000	2000	20	50.4	20	36	8.7l963: J-4006	2025.2
J-196	TRUE	1000	2000	20	46.4	20	36	8.7l963: J-4006	2021.3
J-198	TRUE	1000	2000	20	48	20	36	8.7l963: J-4006	2009.3
J-199	TRUE	1000	2000	20	55	20	36	8.7l963: J-4006	2009.9
J-200	TRUE	1000	2000	20	58.6	20	36	8.7l963: J-4006	2009.3
J-201	TRUE	1000	2000	20	62	20	36	8.7l963: J-4006	2008.1
J-202	TRUE	1000	2000	20	65.8	20	36	8.7l963: J-4006	2008.4
J-204	TRUE	1000	2000	20	74.2	20	36	8.7l963: J-4006	2172.2
J-205	TRUE	1000	2000	20	65.9	20	35.9	8.7l963: J-4006	2000.9
J-206	TRUE	1000	1622.41	20	26.2	20	20	8.7l963: J-4006	1629.01
J-207	TRUE	1000	1284.11	20	20	20	36	8.7l963: J-4006	1372.91
J-208	TRUE	1000	2000	20	25.1	20	34.6	8.7l963: J-4006	2007.5

J-209	TRUE	1000	2000	20	53.3	20	35.9	8.7l963: J-4006	2000
J-210	TRUE	1000	1491.92	20	20	20	36	8.7l963: J-4006	1491.92
J-229	TRUE	1000	2000	20	74.8	20	36	8.7l963: J-4006	2008.7
J-230	TRUE	1000	2000	20	79.6	20	36	8.7l963: J-4006	2000
J-231	TRUE	1000	2000	20	68.4	20	36	8.7l963: J-4006	2162.9
J-232	TRUE	1000	2000	20	72.5	20	36	8.7l963: J-4006	2004.8
J-233	TRUE	1000	2000	20	76.8	20	35.9	8.7l963: J-4006	2155.7
J-234	TRUE	1000	2000	20	114.4	20	35.9	8.7l963: J-4006	2000
J-235	TRUE	1000	2000	20	125.2	20	35.9	8.7l963: J-4006	2000
J-236	TRUE	1000	2000	20	110.5	20	35.9	8.7l963: J-4006	2000
J-237	TRUE	1000	1268.57	20	20	20	36	8.7l963: J-4006	1269.47
J-238	TRUE	1000	2000	20	76.8	20	35.9	8.7l963: J-4006	2000
J-239	TRUE	1000	2000	20	86.3	20	35.9	8.7l963: J-4006	2001.8
J-240	TRUE	1000	2000	20	82.6	20	35.9	8.7l963: J-4006	2001.5
J-241	TRUE	1000	2000	20	75.2	20	35.9	8.7l963: J-4006	2000
J-242	TRUE	1000	2000	20	67.5	20	35.9	8.7l963: J-4006	2003.6
J-243	TRUE	1000	2000	20	52.9	20	35.9	8.7l963: J-4006	2003.6
J-245	TRUE	1000	1351.19	20	20	20	36	8.7l963: J-4006	1367.99
J-246	TRUE	1000	2000	20	60.1	20	35.9	8.7l963: J-4006	2008.7
J-247	TRUE	1000	2000	20	69.9	20	35.9	8.7l963: J-4006	2003
J-248	TRUE	1000	2000	20	72.4	20	35.8	8.7l963: J-4006	2008.1
J-249	TRUE	1000	2000	20	69.4	20	35.9	8.7l963: J-4006	2002.4
J-250	TRUE	1000	2000	20	68.1	20	35.9	8.7l963: J-4006	2001.8
J-251	TRUE	1000	2000	20	70.9	20	35.9	8.7l963: J-4006	2001.2
J-252	TRUE	1000	2000	20	69.1	20	35.9	8.7l963: J-4006	2001.2
J-253	TRUE	1000	2000	20	74.9	20	35.9	8.7l963: J-4006	2003
J-254	TRUE	1000	2000	20	71.4	20	35.9	8.7l963: J-4006	2001.5
J-255	TRUE	1000	2000	20	69.4	20	35.9	8.7l963: J-4006	2002.4
J-256	TRUE	1000	2000	20	63.7	20	35.9	8.7l963: J-4006	2002.4
J-257	TRUE	1000	2000	20	59	20	35.9	8.7l963: J-4006	2002.4
J-258	TRUE	1000	2000	20	64	20	35.9	8.7l963: J-4006	2006
J-259	TRUE	1000	2000	20	62.9	20	35.9	8.7l963: J-4006	2006
J-260	TRUE	1000	2000	20	66.7	20	35.9	8.7l963: J-4006	2001.5
J-261	TRUE	1000	2000	20	49.9	20	35.9	8.7l963: J-4006	2000.9
J-262	TRUE	1000	2000	20	58.6	20	35.9	8.7l963: J-4006	2014.1
J-263	TRUE	1000	2000	20	54.5	20	35.9	8.7l963: J-4006	2011.7
J-264	TRUE	1000	2000	20	56.3	20	35.8	8.7l963: J-4006	2008.4
J-265	TRUE	1000	2000	20	54.2	20	35.9	8.7l963: J-4006	2004.5
J-266	TRUE	1000	2000	20	58.6	20	35.8	8.7l963: J-4006	2006.3
J-267	TRUE	1000	2000	20	66	20	35.8	8.7l963: J-4006	2009.6
J-269	TRUE	1000	2000	20	59	20	35.8	8.7l963: J-4006	2006.6
J-270	TRUE	1000	2000	20	63.3	20	35.8	8.7l963: J-4006	2006
J-271	TRUE	1000	2000	20	69.2	20	35.8	8.7l963: J-4006	2003.6
J-272	TRUE	1000	2000	20	49.1	20	35.9	8.7l963: J-4006	2003.6
J-273	TRUE	1000	2000	20	20.3	20	35.9	8.7l963: J-4006	2006
J-274	TRUE	1000	2000	20	36.5	20	35.9	8.7l963: J-4006	2003
J-275	TRUE	1000	2000	20	20.5	20	35.9	8.7l963: J-4006	2004.2
J-276	TRUE	1000	2000	20	41.6	20	35.9	8.7l963: J-4006	2009.9
J-277	TRUE	1000	2000	20	54.4	20	35.8	8.7l963: J-4006	2003
J-278	TRUE	1000	2000	20	71.5	20	35.9	8.7l963: J-4006	2000
J-279	TRUE	1000	2000	20	31.9	20	35.9	8.7l963: J-4006	2001.5
J-280	TRUE	1000	2000	20	60.6	20	36	8.7l963: J-4006	2002.4

J-281	TRUE	1000	2000	20	61.9	20	36	8.7⌊963: J-4006	2001.2
J-283	TRUE	1000	2000	20	59.6	20	36	8.7⌊963: J-4006	2000
J-284	TRUE	1000	2000	20	43.9	20	35.9	8.7⌊963: J-4006	2001.8
J-285	TRUE	1000	2000	20	65.3	20	35.8	8.7⌊963: J-4006	2003
J-286	TRUE	1000	2000	20	64.3	20	35.9	8.7⌊963: J-4006	2000.3
J-287	TRUE	1000	1766.43	20	20	20	35.9	8.7⌊963: J-4006	1772.43
J-288	TRUE	1000	2000	20	66.8	20	35.8	8.7⌊963: J-4006	2005.1
J-289	TRUE	1000	2000	20	63.9	20	35.8	8.7⌊963: J-4006	2003.6
J-290	TRUE	1000	2000	20	64.1	20	35.8	8.7⌊963: J-4006	2002.4
J-291	TRUE	1000	2000	20	72.2	20	35.9	8.7⌊963: J-4006	2018
J-292	TRUE	1000	2000	20	67.3	20	35.8	8.7⌊963: J-4006	2003.6
J-293	TRUE	1000	2000	20	59.3	20	35.8	8.7⌊963: J-4006	2015.3
J-294	TRUE	1000	2000	20	50.3	20	35.7	8.7⌊963: J-4006	2013.8
J-295	TRUE	1000	2000	20	44.4	20	35.7	8.7⌊963: J-4006	2004.8
J-297	TRUE	1000	2000	20	53.8	20	35.7	8.7⌊963: J-4006	2006.9
J-298	TRUE	1000	2000	20	55.4	20	35.7	8.7⌊963: J-4006	2006.3
J-299	TRUE	1000	2000	20	55.9	20	35.8	8.7⌊963: J-4006	2013.8
J-300	TRUE	1000	2000	20	45.7	20	35.8	8.7⌊963: J-4006	2020.4
J-302	TRUE	1000	2000	20	41.9	20	35.8	8.7⌊963: J-4006	2004.2
J-303	TRUE	1000	2000	20	66	20	35.8	8.7⌊963: J-4006	2006.9
J-304	TRUE	1000	2000	20	71	20	35.8	8.7⌊963: J-4006	2005.4
J-305	TRUE	1000	2000	20	68	20	35.8	8.7⌊963: J-4006	2001.2
J-306	TRUE	1000	2000	20	63.4	20	35.8	8.7⌊963: J-4006	2003.6
J-307	TRUE	1000	2000	20	55.5	20	35.8	8.7⌊963: J-4006	2003.6
J-308	TRUE	1000	2000	20	60	20	35.8	8.7⌊963: J-4006	2005.1
J-309	TRUE	1000	2000	20	61.6	20	35.8	8.7⌊963: J-4006	2003.9
J-310	TRUE	1000	2000	20	59.7	20	35.8	8.7⌊963: J-4006	2006
J-312	TRUE	1000	2000	20	67.9	20	35.8	8.7⌊963: J-4006	2002.7
J-313	TRUE	1000	1837.13	20	20	20	35.8	8.7⌊963: J-4006	1844.63
J-314	TRUE	1000	2000	20	70.2	20	35.8	8.7⌊963: J-4006	2006
J-315	TRUE	1000	2000	20	23.3	20	35.8	8.7⌊963: J-4006	2000
J-317	TRUE	1000	2000	20	65.6	20	35.8	8.7⌊963: J-4006	2006.9
J-318	TRUE	1000	2000	20	41.8	20	35.8	8.7⌊963: J-4006	2006.3
J-320	TRUE	1000	1475.92	20	20	20	35.8	8.7⌊963: J-4006	1481.02
J-321	TRUE	1000	2000	20	45.2	20	35.8	8.7⌊963: J-4006	2007.2
J-322	TRUE	1000	2000	20	43.2	20	35.7	8.7⌊963: J-4006	2001.8
J-323	TRUE	1000	2000	20	57	20	35.8	8.7⌊963: J-4006	2004.2
J-324	TRUE	1000	2000	20	25.2	20	35.8	8.7⌊963: J-4006	2011.1
J-325	TRUE	1000	2000	20	27.2	20	35.8	8.7⌊963: J-4006	2005.1
J-326	TRUE	1000	2000	20	33.2	20	29.8	8.7⌊963: J-4006	2013.8
J-327	TRUE	1000	2000	20	46.6	20	35.8	8.7⌊963: J-4006	2009
J-328	TRUE	1000	2000	20	55.5	20	35.3	8.7⌊963: J-4006	2014.4
J-329	TRUE	1000	2000	20	60.5	20	35.8	8.7⌊963: J-4006	2003.6
J-330	TRUE	1000	2000	20	62.2	20	35.8	8.7⌊963: J-4006	2010.2
J-331	TRUE	1000	2000	20	45.6	20	35.8	8.7⌊963: J-4006	2010.5
J-332	TRUE	1000	2000	20	47.1	20	35.8	8.7⌊963: J-4006	2008.4
J-333	TRUE	1000	1654.23	20	20	20	21.2	8.7⌊963: J-4006	1666.23
J-334	TRUE	1000	1258.7	20	20	20	35.9	8.7⌊963: J-4006	1264.7
J-335	TRUE	1000	1455.5	20	20	20	20.9	8.7⌊963: J-4006	1459.7
J-336	TRUE	1000	1573.28	20	20	20	22.8	8.7⌊963: J-4006	1579.58
J-337	TRUE	1000	1580.41	20	20	20	23.8	8.7⌊963: J-4006	1582.21
J-338	TRUE	1000	1603.66	20	20	20	26.2	8.7⌊963: J-4006	1606.06

J-339	TRUE	1000	1924.67	20	24.1	20	20	8.7	963: J-4006	1936.67
J-340	TRUE	1000	2000	20	22.4	20	24.3	8.7	963: J-4006	2005.4
J-341	TRUE	1000	2000	20	26.7	20	29.8	8.7	963: J-4006	2005.7
J-342	TRUE	1000	1603.67	20	20	20	22.7	3.9	445: J-354	1607.87
J-343	TRUE	1000	1664.62	20	24.5	20	20.1	-1.6	445: J-354	1668.22
J-344	TRUE	1000	1691.37	20	20	20	22.1	-6.7	445: J-354	1692.57
J-345	TRUE	1000	1129.98	20	44	20	20	8.7	963: J-4006	1131.78
J-346	TRUE	1000	1050.96	20	47.6	20	20	8.7	963: J-4006	1053.66
J-347	TRUE	1000	1027.89	20	50.4	20	20	8.7	963: J-4006	1029.39
J-348	TRUE	1000	1011.42	20	53.9	20	20	8.7	963: J-4006	1013.52
J-349	TRUE	1000	1006.25	20	56.7	20	20	8.7	963: J-4006	1008.65
J-350	TRUE	1000	1003.62	20	47.4	20	20	8.7	963: J-4006	1006.02
J-351	FALSE	1000	894.13	20	20	20	23.7	8.7	963: J-4006	896.53
J-352	TRUE	1000	1000.27	20	41.1	20	20	8.7	963: J-4006	1001.47
J-353	TRUE	1000	1025.92	20	38.2	20	20	8.7	963: J-4006	1026.82
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J-356	TRUE	1000	1613.1	20	20	20	30.8	4.6	445: J-354	1617.9
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J-358	TRUE	1000	1294.71	20	20	20	26.2	8.7	963: J-4006	1301.31
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J-360	TRUE	1000	1521.21	20	20	20	22.9	8.7	963: J-4006	1526.61
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J-372	TRUE	1000	1281.43	20	20	20	29.9	8.7	963: J-4006	1292.23
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J-374	FALSE	1000	748.33	20	20	20	34.1	8.7	963: J-4006	751.93
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J-378	TRUE	1000	1740.62	20	20	20	31.8	8.7	963: J-4006	1745.72
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J-390	TRUE	1000	2000	20	43.3	20	35.9	8.7	963: J-4006	2003
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J-407	TRUE	1000	2000	20	70.1	20	35.9	8.7	963: J-4006 2001.5
J-408	TRUE	1000	2000	20	57	20	35.9	8.7	963: J-4006 2000
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J-467	TRUE	1000	1688.64	20	33.4	20	20	8.7l963: J-4006	1688.64
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J-573	TRUE	1000	1711.29	20	28.5	20	20	8.7l963: J-4006	1717.89
J-574	TRUE	1000	1895.14	20	32	20	20	8.7l963: J-4006	1902.04
J-575	TRUE	1000	2000	20	35.9	20	21.7	8.7l963: J-4006	2003.6
J-576	TRUE	1000	2000	20	57.6	20	34.9	8.7l963: J-4006	2003
J-577	TRUE	1000	2000	20	67.5	20	36	8.7l963: J-4006	2001.8
J-578	TRUE	1000	2000	20	50.8	20	30.5	8.7l963: J-4006	2001.5
J-579	TRUE	1000	2000	20	48.6	20	31.8	8.7l963: J-4006	2003.3
J-580	TRUE	1000	2000	20	64.5	20	34.7	8.7l963: J-4006	2003.3
J-581	TRUE	1000	2000	20	65.8	20	36	8.7l963: J-4006	2049.2
J-582	TRUE	1000	2000	20	58	20	32.7	8.7l963: J-4006	2006.3
J-583	TRUE	1000	2000	20	45.6	20	33.2	8.7l963: J-4006	2006.9
J-584	TRUE	1000	2000	20	38.9	20	33	8.7l963: J-4006	2004.8
J-585	TRUE	1000	2000	20	47	20	23.9	8.7l963: J-4006	2005.1
J-586	TRUE	1000	2000	20	39	20	22.6	8.7l963: J-4006	2009
J-587	TRUE	1000	2000	20	25.8	20	21.6	8.7l963: J-4006	2005.1
J-588	TRUE	1000	1885.17	20	33.7	20	20	8.7l963: J-4006	1892.37
J-589	TRUE	1000	2000	20	62.5	20	36	8.7l963: J-4006	2003.6
J-590	TRUE	1000	2000	20	47.1	20	36	8.7l963: J-4006	2012.3
J-591	TRUE	1000	2000	20	74.3	20	36	8.7l963: J-4006	2000
J-592	TRUE	1000	2000	20	70.2	20	36	8.7l963: J-4006	2005.4
J-594	TRUE	1000	2000	20	95.3	20	36	8.7l963: J-4006	2000.9
J-595	TRUE	1000	2000	20	89	20	36	8.7l963: J-4006	2000.6
J-596	TRUE	1000	2000	20	73.2	20	36	8.7l963: J-4006	2001.2
J-597	TRUE	1000	2000	20	69.9	20	36	8.7l963: J-4006	2001.8
J-598	TRUE	1000	2000	20	68.6	20	36	8.7l963: J-4006	2006.3
J-599	TRUE	1000	2000	20	61.2	20	36	8.7l963: J-4006	2005.1
J-600	TRUE	1000	2000	20	51.3	20	36	8.7l963: J-4006	2005.1
J-601	TRUE	1000	2000	20	57.9	20	36	8.7l963: J-4006	2003.9
J-602	TRUE	1000	2000	20	23.7	20	36	8.7l963: J-4006	2001.8
J-603	TRUE	1000	2000	20	60.2	20	36	8.7l963: J-4006	2006.6
J-604	TRUE	1000	2000	20	57.1	20	36	8.7l963: J-4006	2006
J-605	TRUE	1000	2000	20	52.4	20	36	8.7l963: J-4006	2003.3
J-606	TRUE	1000	2000	20	60.4	20	36	8.7l963: J-4006	2003.3
J-607	TRUE	1000	2000	20	69.8	20	36	8.7l963: J-4006	2001.2
J-608	TRUE	1000	2000	20	66.1	20	36	8.7l963: J-4006	2000.9

J-609	TRUE	1000	2000	20	53.6	20	36	8.7⌊963: J-4006	2003.3
J-610	TRUE	1000	2000	20	59.4	20	36	8.7⌊963: J-4006	2003
J-611	TRUE	1000	2000	20	55.9	20	36	8.7⌊963: J-4006	2004.5
J-612	TRUE	1000	2000	20	56.1	20	36	8.7⌊963: J-4006	2000.9
J-613	TRUE	1000	2000	20	59.6	20	36	8.7⌊963: J-4006	2001.8
J-614	TRUE	1000	2000	20	32.2	20	36	8.7⌊963: J-4006	2000.9
J-615	TRUE	1000	2000	20	47.1	20	36	8.7⌊963: J-4006	2004.5
J-616	TRUE	1000	2000	20	55.6	20	36	8.7⌊963: J-4006	2003.6
J-617	TRUE	1000	2000	20	51.4	20	36	8.7⌊963: J-4006	2003.3
J-618	TRUE	1000	2000	20	47.1	20	36	8.7⌊963: J-4006	2004.5
J-619	TRUE	1000	2000	20	52.6	20	36	8.7⌊963: J-4006	2003.9
J-620	TRUE	1000	2000	20	38.2	20	36	8.7⌊963: J-4006	2001.8
J-621	TRUE	1000	1855.01	20	20	20	36	8.7⌊963: J-4006	1857.11
J-622	TRUE	1000	2000	20	38.1	20	35.9	8.7⌊963: J-4006	2004.2
J-623	TRUE	1000	2000	20	42.2	20	36	8.7⌊963: J-4006	2000
J-624	TRUE	1000	2000	20	46.8	20	36	8.7⌊963: J-4006	2002.7
J-625	TRUE	1000	1051.51	20	20	20	52.5	8.7⌊963: J-4006	1051.51
J-626	TRUE	1000	1300.38	20	30.4	20	20	8.7⌊963: J-4006	1305.18
J-627	TRUE	1000	1466.92	20	32.1	20	20	8.7⌊963: J-4006	1469.62
J-628	TRUE	1000	1413.26	20	20	20	20.9	8.7⌊963: J-4006	1416.86
J-629	TRUE	1000	1278.92	20	20	20	33.3	8.7⌊963: J-4006	1283.12
J-630	TRUE	1000	2000	20	52	20	36	8.7⌊963: J-4006	2003.3
J-631	TRUE	1000	2000	20	56.9	20	36	8.7⌊963: J-4006	2006
J-632	TRUE	1000	2000	20	73.1	20	36	8.7⌊963: J-4006	2017.1
J-633	TRUE	1000	2000	20	35.4	20	36	8.7⌊963: J-4006	2003
J-634	TRUE	1000	2000	20	47.9	20	42.7	8.7⌊963: J-4006	2003.9
J-635	TRUE	1000	2000	20	42.7	20	44.7	8.7⌊963: J-4006	2000.9
J-637	TRUE	1000	2000	20	30.6	20	55.7	8.7⌊963: J-4006	2002.7
J-638	TRUE	1000	2000	20	54	20	36	8.7⌊963: J-4006	2002.7
J-639	TRUE	1000	2000	20	51.5	20	36	8.7⌊963: J-4006	2003.9
J-640	TRUE	1000	2000	20	60.7	20	36	8.7⌊963: J-4006	2004.5
J-641	TRUE	1000	2000	20	45.5	20	36	8.7⌊963: J-4006	2005.7
J-642	TRUE	1000	2000	20	25.9	20	26.9	8.7⌊963: J-4006	2003.9
J-643	TRUE	1000	1925.96	20	20	20	32.9	8.7⌊963: J-4006	1928.66
J-644	TRUE	1000	1096.3	20	53.8	20	20	8.7⌊963: J-4006	1102
J-645	TRUE	1000	2000	20	55.1	20	36	8.7⌊963: J-4006	2007.5
J-646	TRUE	1000	2000	20	36.5	20	36	8.7⌊963: J-4006	2001.2
J-647	TRUE	1000	2000	20	38.3	20	36	8.7⌊963: J-4006	2060.3
J-648	TRUE	1000	2000	20	56.4	20	36	8.7⌊963: J-4006	2000
J-649	TRUE	1000	1346.15	20	20	20	36	8.7⌊963: J-4006	1350.35
J-650	FALSE	1000	978.01	20	62.4	20	20	8.7⌊963: J-4006	985.51
J-651	TRUE	1000	2000	20	37	20	36	8.7⌊963: J-4006	2000
J-652	FALSE	1000	829.79	20	43.4	20	20	8.7⌊963: J-4006	833.39
J-653	FALSE	1000	761.72	20	20	20	21.7	8.7⌊963: J-4006	768.92
J-654	FALSE	1000	768.89	20	20	20	21	8.7⌊963: J-4006	776.39
J-655	TRUE	1000	1907.64	20	20	20	36	8.7⌊963: J-4006	1917.24
J-656	TRUE	1000	2000	20	62.1	20	36	8.7⌊963: J-4006	2006
J-657	TRUE	1000	2000	20	31.6	20	36	8.7⌊963: J-4006	2002.7
J-659	TRUE	1000	2000	20	66	20	36	8.7⌊963: J-4006	2015.3
J-660	TRUE	1000	2000	20	64.8	20	36	8.7⌊963: J-4006	2000
J-662	TRUE	1000	2000	20	30.6	20	32.8	8.7⌊963: J-4006	2003
J-663	TRUE	1000	1774.81	20	20	20	21.1	8.7⌊963: J-4006	1776.61

J-664	TRUE	1000	1549.08	20	20	20	24.4	8.7l963: J-4006	1550.88
J-665	TRUE	1000	1278.09	20	20	20	29.9	8.7l963: J-4006	1281.69
J-666	TRUE	1000	1676.93	20	20	20	23.5	8.7l963: J-4006	1680.23
J-667	TRUE	1000	2000	20	38.5	20	34.6	8.7l963: J-4006	2241.8
J-668	TRUE	1000	1186.39	20	20	20	39.3	8.7l963: J-4006	1188.79
J-669	FALSE	1000	980.65	20	20	20	36	8.7l963: J-4006	981.85
J-670	TRUE	1000	1242.58	20	37.3	20	20	8.7l963: J-4006	1243.48
J-671	TRUE	1000	1086.74	20	34	20	20	8.7l963: J-4006	1089.74
J-672	TRUE	1000	1537.86	20	42.5	20	20	8.7l963: J-4006	1537.86
J-673	FALSE	1000	934.92	20	20	20	28.4	8.7l963: J-4006	936.12
J-674	TRUE	1000	2000	20	84.6	20	36	8.7l963: J-4006	2109.2
J-675	TRUE	1000	2000	20	36.8	20	36.8	8.7l963: J-4006	2009.6
J-676	TRUE	1000	2000	20	43.4	20	39.8	8.7l963: J-4006	2007.2
J-677	TRUE	1000	2000	20	43.4	20	41.5	8.7l963: J-4006	2132.9
J-679	TRUE	1000	2000	20	36.2	20	36	8.7l963: J-4006	2003.3
J-680	TRUE	1000	2000	20	75.1	20	36	8.7l963: J-4006	2117
J-681	TRUE	1000	2000	20	57.9	20	36	8.7l963: J-4006	2001.8
J-682	TRUE	1000	2000	20	56.4	20	36	8.7l963: J-4006	2000.9
J-683	TRUE	1000	2000	20	51.4	20	36	8.7l963: J-4006	2000.6
J-684	TRUE	1000	2000	20	50.6	20	36	8.7l963: J-4006	2001.5
J-685	TRUE	1000	2000	20	34.8	20	36	8.7l963: J-4006	2003
J-686	TRUE	1000	2000	20	20.9	20	36	8.7l963: J-4006	2004.8
J-687	TRUE	1000	2000	20	45.3	20	36	8.7l963: J-4006	2001.2
J-688	TRUE	1000	2000	20	43.9	20	36	8.7l963: J-4006	2001.8
J-689	TRUE	1000	2000	20	38.2	20	36	8.7l963: J-4006	2000
J-690	TRUE	1000	2000	20	51.5	20	36	8.7l963: J-4006	2118.8
J-691	TRUE	1000	2000	20	59.3	20	36	8.7l963: J-4006	2106.8
J-692	FALSE	1000	617.96	20	33.2	20	20	8.7l963: J-4006	619.16
J-693	FALSE	1000	617.87	20	37.2	20	20	8.7l963: J-4006	620.27
J-694	FALSE	1000	618.1	20	36.9	20	20	8.7l963: J-4006	669.7
J-696	FALSE	1000	558.97	20	20	20	37.8	8.7l963: J-4006	561.37
J-698	TRUE	1000	2000	20	78.5	20	35.9	8.7l963: J-4006	2002.1
J-700	TRUE	1000	2000	20	68.7	20	36	8.7l963: J-4006	2009.3
J-701	TRUE	1000	2000	20	69.5	20	36	8.7l963: J-4006	2014.7
J-703	FALSE	1000	605.67	20	20	20	21.5	8.7l963: J-4006	606.27
J-704	TRUE	1000	2000	20	37.8	20	36	8.7l963: J-4006	2000
J-705	FALSE	1000	830.04	20	20	20	20.4	8.7l963: J-4006	830.04
J-707	TRUE	1000	2000	20	97.9	20	36	8.7l963: J-4006	2000
J-708	TRUE	1000	2000	20	44.7	20	52.5	8.7l963: J-4006	2003
J-714	TRUE	1000	2000	20	76.4	20	35.9	8.7l963: J-4006	2000
J-715	TRUE	1000	2000	20	20	20	42.7	8.7l963: J-4006	2003
J-716	TRUE	1000	2000	20	31.6	20	36	8.7l963: J-4006	2001.8
J-717	TRUE	1000	2000	20	52.5	20	35.9	8.7l963: J-4006	2003
J-718	TRUE	1000	2000	20	79.3	20	36	8.7l963: J-4006	2042.9
J-719	TRUE	1000	2000	20	43.7	20	36	8.7l963: J-4006	2018.6
J-720	TRUE	1000	1974.64	20	20	20	27.8	8.7l963: J-4006	2027.44
J-721	TRUE	1000	1716.73	20	20	20	34.4	8.7l963: J-4006	1742.23
J-722	TRUE	1000	2000	20	81	20	35.9	8.7l963: J-4006	2000
J-723	TRUE	1000	2000	20	94.9	20	35.9	8.7l963: J-4006	2006.6
J-724	TRUE	1000	2000	20	84.4	20	35.9	8.7l963: J-4006	2018
J-725	FALSE	1000	980.86	20	20	20	22.2	8.7l963: J-4006	980.86
J-726	TRUE	1000	2000	20	81.3	20	42	8.7l963: J-4006	2096

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J-727	TRUE	1000	2000	20	93.2	20	36	8.7⌊963: J-4006	2000
J-728	TRUE	1000	2000	20	75.9	20	36	8.7⌊963: J-4006	2077.4
J-729	TRUE	1000	2000	20	64.1	20	36	8.7⌊963: J-4006	2000
J-731	TRUE	1000	2000	20	90.5	20	36	8.7⌊963: J-4006	2192.3
J-732	TRUE	1000	2000	20	68.7	20	36	8.7⌊963: J-4006	2000
J-733	TRUE	1000	2000	20	79.5	20	36	8.7⌊963: J-4006	2000
J-736	TRUE	1000	2000	20	59	20	36	8.7⌊963: J-4006	2128.1
J-737	TRUE	1000	2000	20	58.1	20	55.7	8.7⌊963: J-4006	2128.1
J-738	FALSE	1000	0	20	19.7	20	17.7	8.7⌊963: J-4006	0
J-739	TRUE	1000	2000	20	62.7	20	36	8.7⌊963: J-4006	2000
J-740	TRUE	1000	2000	20	77.7	20	35.9	8.7⌊963: J-4006	2000
J-741	TRUE	1000	2000	20	67.5	20	35.9	8.7⌊963: J-4006	2000
J-1001	FALSE	1000	0	20	97.6	20	17.7	8.7⌊963: J-4006	0
J-1002	FALSE	1000	0	20	96.9	20	17.7	8.7⌊963: J-4006	0
J-3000	FALSE	1000	0	20	59.3	20	17.7	8.7⌊963: J-4006	0
J-4002	FALSE	1000	0	20	48	20	17.7	8.7⌊963: J-4006	0
J-4004	FALSE	1000	0	20	65.2	20	8.7	8.7⌊963: J-4006	0
J-4005	FALSE	1000	0	20	10.2	20	8.7	8.7⌊963: J-4006	0
J-4006	FALSE	1000	0	20	8.7	20	10.2	10.2⌊959: J-4005	0