

# CHAPTER 1

## DESCRIPTION OF WATER SYSTEM

This Chapter presents information on ownership and management of the water system, system history and background information, inventory of existing facilities, related planning documents, existing and future service areas and characteristics, future service, and service area agreements and policies.

### OWNERSHIP AND MANAGEMENT

A Mayor and City Council govern the City of Chelan. The water system is a municipal water system owned by the City and managed by the City's Public Works Water Department employees. The City's Public Works Director is Dwane Van Epps. Larry Sweeney is the City's Assistant Public Works Director and is listed on the City's Water Facilities Inventory (WFI) as the City's primary contact. Mr. Sweeney is certified as a Water Distribution Manager 3 (WDM 3). The Washington State Department of Health (DOH) water system identification number is 12300. The City's current mailing address and main phone number are:

City Hall  
135 East Johnson  
P.O. Box 1669  
Chelan, WA 98816  
(509) 682-4037

Chelan Public Works Department  
50 Chelan Falls Highway  
Chelan, WA 98816  
(509) 682-8030

A copy of the City's current WFI Form and Operating Permit is included in Appendix A.

### WATER SYSTEM HISTORY AND BACKGROUND

#### HISTORY OF WATER SYSTEM DEVELOPMENT AND GROWTH

During World War II, Chelan acquired the ownership and operation of its water system from Washington Water and Power. Prior to the City's acquisition, the system had been built mostly for domestic purposes and did not have sufficient capacity for fire protection in most areas. Distribution piping was predominantly 2-inch diameter galvanized iron with a few larger wood stave mains. The first water system piping was constructed in 1921.

Since acquiring the system, the City has continued to improve the quality of the system and to expand it to keep pace with population increase, industrial growth, and the local tourist industry. Improvements have included increased supply capacity, increased capacity for fire protection, significantly more storage, and an expanded distribution system consisting of approximately 36 miles of piping, ranging in size from 1-inch to 18-

inch diameter. A brief summary of important improvements to the source, storage, and distribution systems is presented in Table 1-1.

**TABLE 1-1  
Water System History**

<b>Date</b>	<b>Event</b>
1921	First pipe is laid by Washington Water and Power.
1944	Two 300,000-gallon reservoirs are constructed near the City Shop. Reservoirs are located at approximately the 1,300-foot level.
1944	Two 50,000-gallon reservoirs are constructed at the Lakeside area. Reservoirs are located at approximately the 1,300-foot level.
1947	Marina Pump Plant is constructed.
1966	Lakeside Pump Plant is constructed.
1967	Gaukroger-Chelan Hills Booster Station receives a 30 hp pump.
1967	Highland Booster Station is fitted with a 30 hp pump and a 7.5 hp pump, bringing it to its current configuration.
1956	Hospital Booster Station receives a 7.5 hp pump.
1977	Washington Street Booster Station receives a 5 hp pump.
1979	Pinnacle Booster Station is constructed with two 7.5 hp pumps.
1980	Boyd Road Booster Station receives two 10 hp pumps.
1988	Gaukroger-Chelan Hills Booster Station is fitted with a 30 hp pump and a 35 hp pump.
1989	Bogey Booster Station is constructed with a single 20 hp pump.
1993	Comprehensive Water System Plan.
1996	Gaukroger-Chelan Hills Booster Station receives two, 125 hp pumps and is renamed to Darnell's Booster Station
1996	Northshore Water System Facilities Plan – Completed Pre-design Report.
1998	To meet the requirements of the Surface Water Treatment Rule, the City completes construction of a 6.7 mgd water treatment plant.
2000	City forms an intertie with the Chelan River and Isenhart Irrigation Districts.
2001	2001 <u>Water System Plan</u>
2004	Construction of 2 <sup>nd</sup> backwater basin at water treatment facility.
2006	Construction of 132,000-gallon Lakeside Reservoir West.
2007	Farnham Booster Station constructed with three 40 hp and one 3 hp vertical turbine pumps and motors to serve the South Chelan area.
2007	Construction of 203,000-gallon Lake Hills Reservoir (not yet in service).
2007	Lake Hills Booster Station constructed with three 40 hp pumps and motors to serve the Lake Hills development (not yet in service).
2008	City acquired the Chelan River Isenhart Water District's domestic water system from the Chelan River and Isenhart Irrigation Districts.
2009	Water System Plan update.
2010	Higgs Booster Pumping Station to be constructed with two 40 hp submersible turbine pumps and motors to replace Bogey Booster Pumping Station.

## **INVENTORY OF EXISTING FACILITIES**

The purpose of the water system inventory is to establish the amount, type, and capacities of the various components of the existing water system. The City of Chelan obtains its potable water supply from Lake Chelan, a surface water source. The current potable water system consists of a raw water pump station, a rapid sand filter water treatment plant (WTP), thirteen storage reservoirs, eleven booster stations, seventeen pressure reducing valve stations (PRVs), and approximately 36 miles of water transmission and distribution lines. The City's existing water system facilities are shown on Figure 1-1.

Due to the large differences in elevation within the City's service area, the City currently has fourteen pressure zones. The City pumps water from Lake Chelan to its WTP where it is filtered and disinfected prior to introduction to the distribution system. Finished water is stored in one of three reservoirs located at the WTP prior to distribution. From the main pressure zone, a network of booster pumps and pressure reducing valves convey water to higher pressure zones within the City.

The City currently owns and operates eleven booster pumping stations (BPSs), in addition to a raw water pumping station, to maintain adequate pressures at all times throughout the system. A hydraulic profile showing water flow between the pressure zones is shown on Figure 1-2. As indicated on Figure 1-2, there is one BPS for each zone except the hospital zone, which is served by two BPSs, and the Stehekin Way and Orchard View pressure zones, which are supplied by pressure reducing valves from adjacent pressure zones. The Higgs BPS station will replace the Bogey BPS when construction is completed in 2010.

## **SOURCE OF SUPPLY**

Prior to 1998, the City's drinking water supply was obtained from Lake Chelan through the Marina and Lakeside pumping stations. The City constructed the WTP and raw water pumping station in 1998 to meet the requirements of the federal Surface Water Treatment Rule. The Marina and Lakeside pumping stations continue to be maintained and used by the City for non-potable, municipal purposes.

The raw water pump station pumps water through a 36-inch intake line that extends into the Chelan River near the lake's outlet. Water is pumped by three (3) 250 hp pumps, each capable of pumping 2,800 gpm from the river, which varies in elevation from 1,085 feet to 1,100 feet. The water is pumped through approximately 5,200 feet of 24-inch pipe to the raw water reservoir. A summary of the City's source characteristics is presented in Table 1-2.

**TABLE 1-2  
Supply Sources**

<b>Characteristic</b>	<b>Marina Pump</b>	<b>Lakeside Pump</b>	<b>Raw Water Pump</b>
DOH Source No.	S 01	S 02	S 03
Status	Not in Service <sup>(1)</sup>	Not in Service <sup>(1)</sup>	Active
Date Constructed	1947	1966	1998
Water Surface Elevation (ft)	N/A	N/A	1,100
Inlet Depth (ft)	N/A	N/A	30
Rated Capacity (gpm)	N/A	N/A	8,400
Inlet Diameter	N/A	N/A	36
Inlet Description	N/A	N/A	Pipe with Screen
Pump Type	N/A	N/A	Submersible Turbine
Motor Characteristics	N/A	N/A	480 Volt, 3 phase

(1) In 1998, the Marina and Lakeside Pump Stations were decommissioned as potable water sources. Since 1998, the raw water pump station is the only potable source for the City.

## STORAGE

The City of Chelan currently owns and operates thirteen reservoirs, the characteristics of which are shown in Table 1-3. The City's current total water storage capacity is approximately 3,187,000 gallons.

It is anticipated that the Lake Hills Reservoir will begin operation in 2010 after completion of the new Higgs BPS and subsequent operation of the Lake Hills BPS. The Lake Hills Reservoir will supply the Lake Hills pressure zone.

**TABLE 1-3  
Storage Reservoirs**

<b>Reservoir</b>	<b>Date Constructed</b>	<b>Storage Capacity (gal)</b>	<b>Type</b>	<b>Diam. (ft)</b>	<b>Depth (ft)</b>	<b>Base Elevation (msl)</b>	<b>Overflow Elevation (msl)</b>
Raw Water	1996	286,000	Steel	35	39.75	1300.75	1340.5
Treatment Plant East	1945	301,000	Buried Concrete	50	20.5	1282.5	1303
Treatment Plant West	1945	301,000	Buried Concrete	50	20.5	1282.5	1303
Treatment Plant South	1996	809,000	Steel	90	17	1284.5	1301.5
South Chelan	1996	137,000	Concrete	26	34.6	1267	1301.5
Lakeside North	1950	53,000	Buried Concrete	21	20.5	1278.5	1299

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Storage Reservoirs**

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Lakeside South	1950	53,000	Buried Concrete	21	20.5	1278.5	1299
Chelan Hills East	1996	478,000	Steel	53	29	1624	1653
Chelan Hills West	1987	150,000	Concrete	30	28.5	1624.5	1653
Golf Course Terrace	1987	115,000	Concrete	26	29	1751	1780
Pinnacle	1996	116,000	Concrete	30	22	1758	1780
Lakeside West	2006	132,000	Concrete	30	25	1274	1299
Wilmorth <sup>(1)</sup>	1999-2000	256,000	Steel	45	21.5	1409	1430.5
Lake Hills <sup>(2)</sup>	2007	203,000	Concrete	30	37.5	2010	2048.5

(1) Acquired as part of the City's acquisition of the Chelan River Isenhart Water District facilities in January 2008.

(2) The new Lake Hills reservoir is scheduled to begin operation in 2010 upon completion of the Higgs BPS and subsequent operation of the Lake Hills BPS.

## TREATMENT

The City of Chelan's WTP provides the City's customers with a supply of filtered, disinfected water. The existing plant was designed to treat 6.7 mgd, with expansion capabilities of up to 10 mgd for future growth. Raw water from Lake Chelan is pumped to the WTP where it is stored in a 286,000-gallon raw water reservoir prior to treatment.

Water flows via gravity from the raw water reservoir through the filtration process to the finished water storage tanks. Raw water is metered into the plant and coagulated with alum and polymer and, when necessary, prechlorinated. A rapid mixer, immediately downstream of the chemical addition point, disperses the chemicals into the raw water. After filtration, finished water is chlorinated and enters one of three finished water reservoirs, Treatment Plant East, West, and South. Backwash water is gravity settled and the clarified backwash water is recycled back to the raw water tank.

## BOOSTER PUMPING STATIONS

The City currently owns and operates eleven booster pumping stations (BPSs) and one raw water pump station. After completion of the Higgs BPS in 2010, the Bogey BPS will be decommissioned and the Lake Hills BPS will begin operations to serve the Lake Hills pressure zone. The characteristics of the BPSs and raw water pumping station are provided in Table 1-4.

**TABLE 1-4  
Booster Pump Stations**

Station	Pump	Motor hp	Capacity (gpm)	Motor V/Ph/RPM	Pump Manufacturer	Pump Model	Install Date
Raw Water	1	250	2,800	460/3/1750	Floway	16MKM	1998
	2	250	2,800	460/3/1750	Floway	16MKM	1998
	3	250	2,800	460/3/1750	Floway	16MKM	1998
Darnell	1	125	700	460/3/1785	Gould	Unknown	1996
	2	125	700	460/3/1785	Gould	Unknown	1996
Lakeside	1	10	300	208/3/1760	ITT Marlow	530SC – S 9.5	1998
	2	10	300	208/3/1760	ITT Marlow	530SC – S 9.5	1998
Highland	1	7.5	170	220/3/3475	Goulds	2250H7	1983
	2	30	1,000	220/3/1800	Worthington	10HH - 110	1967
Hospital	1	7.5	225	230/3/3475	Fairbanks Morse	L79074	1956
	Spare	7.5	225	230/3/3505	Berkeley	6.5TPM	N/A
High Street	1	3	40	Unknown	Reid	Unknown	N/A
Bogey <sup>(3)</sup>	1	20	240	230/3/Unk.	Berkeley	6S2BH6	1990
Boyd Road	1	10	150	220/3/3475	Burks	CAT #3100G7-2SP	Early 70s
	2	10	150	220/3/3475	Burks	CAT #3100G7-2SP	Early 70s
Pinnacle	1	1	17	115/1/3450	Weinman	4AC-10512	1997
	2	1.5	34	115/1/3450	Weinman	4AC-10512	1997
Farnham	1	3	200	460/3/1800	Peerless	C825A	2007
	Fire	40	700	460/3/3500	Peerless	C740	2007
	Fire	40	700	460/3/3500	Peerless	C740	2007
	Fire	40	700	460/3/3500	Peerless	C740	2007
Washington St. <sup>(1)</sup>	1	20	200	460/3/1750	Weinman	1.5BH- 200P14-U	2000
	2	20	200	460/3/1750	Weinman	1.5BH- 200P14-U	2000
	Fire	150	1500	460/3/1780	Peerless	6AEF16	2006
Wilmorth <sup>(1)</sup>	1	3	42	115/1/3450	Grundfos	CR8-30U	2000
Lake Hills <sup>(2)</sup>	1	40	175	230/3/3550	Grundfos	CR64-3	2007
	2	40	175	230/3/3550	Grundfos	CR64-3	2007
	Spare	40	175	230/3/3550	Grundfos	CR64-3	2007
Higgs <sup>(3)</sup>	1	40	510	480/3/1770	Goulds	11WAHC-4	2008
	Spare	40	510	480/3/1770	Goulds	11WAHC-4	2008

(1) Acquired as part of the City's acquisition of the Chelan River Isenhart Water District facilities in January 2008.

(2) It is anticipated that the Lake Hills BPS will begin operation after construction of the Higgs BPS.

(3) The existing Bogey BPS will be decommissioned when construction of the Higgs BPS is completed in 2010.

## TRANSMISSION AND DISTRIBUTION SYSTEM

The City's water mains are comprised of asbestos cement, cast iron, galvanized iron, steel, polyvinyl chloride, wood stave, ductile iron, and high density polyethylene. When water mains are replaced due to leaks or age, PVC pipe is generally used. Table 1-5 lists the approximate length, diameter, and type of pipe within the City's water transmission and distribution system. A schematic of the system is shown on Figure 1-1.

**TABLE 1-5  
Transmission and Distribution System Piping**

Nominal Pipe Size, (Inches)	Pipe Type <sup>(1)</sup>								Totals
	AC	CI	GI	S	PVC	WS	DI	HDPE	
1	---	---	---	---	180	---	---	---	180
2	---	100	7,275	---	2,865	---	---	11,000	21,240
3	---	---	3,116	---	---	---	---	---	3,116
4	19,777	---	---	---	580	---	---	---	20,357
6	48,950	500	---	---	8,051	500	2,500	---	60,501
8	35,352	---	---	8,392	8,841	---	10,000	---	62,585
10	1,195	650	---	155	1,176	---	---	---	3,176
12	7,035	---	---	1,180	---	---	12,000	---	20,215
16	---	---	---	145	---	---	---	---	145
Total	112,309	1,250	10,391	9,872	21,693	500	24,500	11,000	191,515
% of Total	58.6%	0.7%	5.4%	5.2%	11.3%	0.3%	12.8%	5.7%	100%

(1) Pipe lengths are in feet. Pipe types include asbestos-cement (AC), cast iron (CI), galvanized iron (GI), steel (S), polyvinyl chloride (PVC), wood stave (WS), ductile iron (DI), and high density polyethylene (HDPE).

## PRESSURE REDUCING VALVES

Over the course of its history, the City of Chelan has expanded from the relatively flat downtown area of the City to the surrounding hillsides on both the north and south shores of Lake Chelan. Due to varying elevation differences throughout the City's water service area, the City has seventeen pressure reducing valves to regulate pressure within its pressure zones. A summary of the City's PRVs is shown in Table 1-6.

**TABLE 1-6  
Pressure Reducing Valves**

Valve No.	Valve	Size	Manuf.	Model	Inlet Pressure	Outlet Pressure
1	Parkview Road	6"	Clayton	6-90	210	165
		2"	Clayton	---	210	N/A
2	Cone Road	4"	Clayton	4-90	120	84
3	Golf Course Terrace	6"	Clayton	6-90	120	41
		2"	Clayton	2-90	120	53
4	Cotter Road	6"	Cla-Val	6-90	180	55
		2"	Cla-Val	2-90	180	60
5	Boyd Road	4"	Clayton	4-90	98	80
		1.5"	Clayton	1 ½-90C	98	82
6	San Remo Lane 1	6"	Clayton	6-90	140	92
		3"	Clayton	3-90B	140	97
7	Riviera Place	6"	Clayton	6-9	115	30
		3"	Clayton	3-90-01	120	42
8	Eldorado Way	4"	Clayton	4-90-01AB	N/A	75-80
		2"	Clayton	N/A	N/A	N/A
9	Pinnacle Place	2"	Clayton	N/A	N/A	N/A
10	San Remo Lane 2	1.5"	Mueller	250 WOO	N/A	N/A
		¾"	Mueller	250 WOO	110	52
11	Crest Drive	6"	Cla-Val	6-90	80	32
		2"	Cla-Val	2-90	80	35
12	Crystal/Westview Dr.	6"	Cla-Val	6-90	80	56
		2"	Cla-Val	2-90	80	60
13	Crystal Drive	6"	Cla-Val	6-90	120	48
		2"	Cla-Val	2-90	120	55
14	Crystal/Apple Ave.	6"	Cla-Val	6-90	100	44
		2"	Cla-Val	2-90	100	48
15	Granite Ridge	10"	Cla-Val	10-90	205	130
		2"	Cla-Val	2-90	205	130
16	Key Lane	6"	Cla-Val	6-90	115	56
		2"	Cla-Val	2-90	110	62
17	Park Pointe	6"	Clayton	6-90	165	76
		2"	Clayton	2-90	165	81

**TELEMETRY**

The City maintains a radio telemetry system that automates many routine operations and collects and records water production data. Data are collected by remote telemetry units (RTUs) located at BPSs and at reservoir sites. In general, reservoirs communicate water level information to the main telemetry unit at the WTP, which is then transmitted to the booster station RTUs for pump “on” or “off” decisions. At the WTP, the operator is able

to interface with the system through a computer equipped with On-Spec™ software, and data are stored in On-Spec™ spreadsheets. A more detailed description of the system configuration and operation is described in Appendix G: Operation and Maintenance.

## **INTERTIES**

Since December 2000, the City of Chelan has provided filtered potable water to the Chelan River Isenhart Water District's domestic water system via an intertie, through a 3-inch meter, to the Washington Street BPS. Until January 2008, this domestic water system, including the Washington Street BPS, Wilmoth BPS, and Wilmoth Reservoir, was owned and operated by the Chelan River Irrigation District (CRID), which had a contract with the Isenhart Irrigation District (IID) to provide potable water within its service area. In January 2008, the City of Chelan acquired the Chelan River Isenhart Water District's domestic water system. Water system analysis and planning related to facilities previously part of the Chelan River Isenhart Water District is contained in the Chelan River and Isenhart Irrigation Districts 2007 Comprehensive Water System Plan prepared by RH2 Engineering, Inc.

## **RELATED PLANS**

The following planning documents were used in the preparation of the City of Chelan's 2008 Water System Plan Update.

- Higgs Booster Pump Station Improvements project report, July 2007.

This report, prepared by Gray & Osborne, Inc. for the City of Chelan, analyzed the proposed replacement of the Bogey booster station with a new booster station to provide additional potable water to the Golf Course Terrace and future Lake Hills reservoirs. This report evaluated existing and future ERUs within the pressure zones on the north shore of Lake Chelan and provided a system analysis on the north shore for a twenty year planning period to 2027.

- Chelan River and Isenhart Irrigation Districts 2007 Comprehensive Water System Plan, March 2007.

This water system plan, prepared by RH2 Engineering, Inc., provides analysis and planning for the Chelan River Isenhart Water District potable water system.

- South Shore Water System Improvements Project Report, December 2006.

This report, prepared by Gray & Osborne, Inc. for the City of Chelan, analyzed proposed water system improvements along the south shore of Lake Chelan, including a new 16" transmission line across the Woodin Avenue bridge, a new booster station on Farnham street, and a new reservoir serving Lakeside. This report also evaluated existing and future ERUs on the south shore for a twenty year planning period to 2026.

- Water System Plan, August 2001.

This water system plan, prepared by Gray & Osborne, Inc. for the City of Chelan, evaluated the performance and adequacy of the City's existing water supply and distribution system and identified necessary improvements to meet the demands of the 6- and 20-year planning periods of the report.

- Wastewater Facility Plan, February 2000.

This plan, prepared by Gray & Osborne, Inc. for the City of Chelan, provides the City with a long-term planning strategy for managing the City's sewer utility over the 6- and 20-year planning periods of the report. This report also provides information regarding land use planning efforts, existing and future service areas, zoning, and growth management issues.

- Comprehensive Land Use Plan, 1998.

This comprehensive plan was developed by City of Chelan planning staff, City Planning Commission, and a Citizen Advisory Committee appointed by the Chelan County Commissioners. This document discusses planning issues such as land use, housing, transportation, utilities, capital facilities, goals and policies, as well as provides a description of the community from a geographic and cultural perspective. Urban growth and annexation issues are also addressed in the plan.

- Lake Chelan Water Quality Plan, December 1991.

This plan was developed to provide a comprehensive approach for protecting the pristine water of Lake Chelan. The plan was developed with the cooperation of the City of Chelan, Chelan County, Public Utility District No. 1 of Chelan County, Lake Chelan Sewer District, and the Lake Chelan Reclamation District.

- Lake Chelan Water Quality Assessment, January 1989.

This plan was commissioned by the Washington State Department of Ecology to establish a baseline of data and general understanding of the dynamic forces at work in order to measure the effects of man-made development upon this nearly pristine water resource.

## **EXISTING SERVICE AREA CHARACTERISTICS**

Figure 1-3 (see Appendix) delineates the City's existing service area, including the recently acquired Chelan River Isenhart Water District, wherein the City currently provides potable water service.

**EXISTING LAND USE AND ZONING**

The City’s Urban Growth Area (UGA) encompasses approximately 10.3 square miles, including approximately 6 square miles that are within the corporate limits of the City of Chelan. Primary land use designations within the corporate limits include single family residential (33 percent), tourist accommodations (27 percent), warehouse industrial (12 percent), and multi-family residential (10 percent). Table 1-7 contains a summary of current land use designations and their areas within the City’s corporate limits. A map indicating the City’s current land use designations is shown on Figure 1-4.

**TABLE 1-7  
Current Land Use Designations within Chelan Corporate Limits**

<b>Land Use Designation</b>	<b>Area, sq. miles</b>	<b>Percent</b>
Tourist Accommodations	1.6	26.9
Single Family Residential	2.0	32.8
Highway Service Commercial	0.1	1.6
Waterfront Commercial	0.04	0.7
Public Lands & Facilities	0.6	9.0
Multi-Family Residential	0.6	10.4
Airport	0.1	1.6
Warehouse Industrial	0.7	11.9
High Density Commercial	0.1	1.3
Low Density Commercial	0.02	0.3
Special Use District	0.2	3.7
<b>Total</b>	<b>6.1</b>	<b>100</b>

**FUTURE SERVICE AREA**

The City’s future service area is shown on Figure 1-3 (see Appendix) and corresponds to all areas within the City’s current UGA.

**SERVICE AREA AGREEMENTS**

In January 2008, the City of Chelan acquired the Chelan River Isenhart Water District’s domestic water system. A copy of the City’s agreement with the CRID and IID to acquire this water system is included in Appendix B.

**SERVICE AREA POLICIES**

Table 1-8 summarizes the service area policies and definitions recommended by Health and those adopted by the City in the Chelan Municipal Code (CMC). The City’s current municipal code is available at its website at <http://www.cityofchelan.com/>.

**TABLE 1-8  
Service Area Policies**

<b>Policy Recommended</b>	<b>Definition</b>	<b>Chelan Municipal Code</b>
Direct Connection Policy	Establishes duty to provide domestic water service to all properties with the City requesting such service.	CMC 13.04.010
Extensions Policy within City Limits	Establishes policy regarding service extensions within City Limits provided that the costs of the extensions and additional system facilities are at the expense of the new customers or developer.	CMC 13.04.010
Extensions Policy outside City Limits within Urban Growth Boundary (UGA)	Establishes policy regarding service extensions outside City limits but within designated UGA. These extensions will be allowed provided certain conditions will be met.	CMC 13.34
Annexation Policy	Policy stating that the proposed development located outside the corporate limits is or is not required to have an annexation commitment so as not to protest annexation at the time it may occur.	CMC 13.34
Design and Performance Policy	Policy requiring developments to meet City construction standards.	CMC 16.24, 16.28
Late-Comer Agreement Policy	Whether or not Late-Comer Agreements will be considered by the City provided certain conditions are met.	CMC 13.36, 12.28
Surcharge Policy	Policy determining whether a surcharge will be assessed to water connections.	CMC 13.08
Connection Fee Policy	An established connection fee required to be paid in full before connection to the system.	CMC 13.08
General Facility Charge	Policy establishing a general facility charge to be paid for general, system-wide costs.	CMC 13.08
Cross Connection Control	Policy establishing the requirements for cross connection prevention devices.	CMC 13.05
Connection Mandatory Policy	Policy stating that connection to the water system is mandatory within the City	N/A
Water Rights	Requires developers to provide water rights for their projects or to pay a fee representing the market value of the water rights required.	CMC 13.40
Large Scale Recreational Projects	Allows use of unfiltered water for recreational project, such as golf courses or parks.	CMC 13.20.090
Meters Policy	Policy stating whether an individual service meter is required and that it will be included in the connection fee charge.	CMC 13.16