

City of The Dalles

Water Management and Conservation Plan 5-Year Progress Report

January 2020

Jill Hoyenga, Regulatory Compliance Manager
1/27/2020



Oregon

Kate Brown, Governor

Water Resources Department

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March 6, 2020

City of the Dalles
Department of Public Works
Attn: Jill Hoyenga, Regulatory Compliance Manager
1215 West First St.
The Dalles, OR 97058

SUBJECT: Water Management and Conservation Plan Five-Year Progress Report

Dear Ms. Hoyenga:

Thank you for submitting the City of the Dalles' Water Management and Conservation Plan (WMCP) Five-Year Progress Report on January 30, 2020. It was a pleasure to review the detailed and thorough accounting of accomplishments and improvements made in the management and conservation of water by the City of the Dalles over the past several years.

As you know, the Oregon Water Resources Department (Department) published notice of receipt of the progress report on the Department's public notice dated February 4, 2020. The public notice initiated a 30-day public comment period on the City of the Dalles' WMCP Five-Year Progress Report. No public comments were received as a result of the public notice.

The Department's review of the City of the Dalles' WMCP Five-Year Progress Report on the implementation of its WMCP did not reveal any deficiencies. Therefore, no further action related to the City of the Dalles' progress report is needed.

The next requirement related to the City of the Dalles' approved WMCP calls for the submittal of an updated WMCP to the Department by **May 14, 2024**.

The Department recognizes and appreciates the efforts of the City of the Dalles to continue the cooperative management of water supplies in the region. We look forward to the next chapter as the City of the Dalles strives to maintain efficient water use through continued implementation of a multitude of conservation measures.

Please contact me by telephone at (503) 986-0919 or by e-mail at Kerri.H.Cope@oregon.gov if I may be of any assistance, now or in the future.

Sincerely,

Kerri H. Cope
Water Management and Conservation Analyst
Water Right Services Division

cc: WMCP File
Bob Wood, District #3 Watermaster



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City of The Dalles 5-Year Benchmarks

Oregon Water Resource Department's (OWRD) Water Management and Conservation Plan (WMCP) rules require municipal water providers to have 5-year benchmarks for initiating or expanding conservation measures related to required conservation programs. The following is a summary of the City's progress regarding activities associated with the required conservation measures and the 5-year benchmarks for implementing those measures identified in the City's approved 2014 WMCP.

OAR 690-086-0120(4)(a): A list of benchmarks established under OAR 690-086-0150 and a description of the progress of the municipal water supplier in implementing the associated conservation benchmarks or other measure.

Annual Water Audit

Progress Report: The City has invested in a new billing system was put in place at the beginning of the 2016 – 2017 fiscal year. The new system generates monthly exception reports for missed meter reads. These reports are used to consistently capture all meter reads in the current billing period thus reducing the occurrence of missed meter reads, which result in higher use attributed to the next month's consumption.

The new billing system also breaks consumption billing records into the following sectors: Commercial, Discount A, Discount B, Government, Industrial, (Single Family) Residential, Duplex, Triplex, Quadplex, Multiplex, and Irrigation.

The new billing system currently in use is the second new system that the City has used since the initial plan was submitted. The consumption information from the previous system was saved but is in a difficult format. Therefore, the City sought and received permission from OWRD for the annual audit table in the 5-year report to

2014 WMCP Annual Water Audit Benchmark

To date, the City has periodically conducted annual water audits to obtain information for Water System Master Plans. In addition, the City has been investing resources in its production reporting system to address losses of data in the past and in its billing system to enable more detailed analyses of consumption data. The City also is currently strategizing how to improve monthly collection of meter data to avoid the occasional situation where data from some meters was not collected for given month resulting in its inclusion in the following month.

Five-Year Benchmarks: The City will annually compare metered water production to metered consumption and estimated unmetered authorized uses to calculate unaccounted-for water. In the next five years, the City will put in place practices to reduce the occurrence of missed meter reads, which result in higher use attributed to the next month's consumption. In the next five years, the City will continue to improve its billing system to provide more detailed consumption records.

include only consumption data from the current billing system. Also, the consumption data are audited and validated for each fiscal year, not for the calendar year. Therefore, the City sought and received permission for the annual audit table in the 5-year report to be calculated for each fiscal year. The City will retain consultants to develop the full data set in the updated Water Management and Conservation Plan to be submitted by May 14, 2024.

Table 1: City of The Dalles Annual Water Audit

Production Source	2016-2017	2017-2018	2018-2019
Wicks Production (MGals)	968.54	1079.90	1019.6
Jordan Well Production (MGals)	34.20	91.30	135.65
Marks Well Production (MGals)	38.70	48.00	106.54
Lone Pine Well Production (MGals)	67.60	0.00	0.00
Total Production	1,109.04	1,219.20	1,261.79
Consumptive Use	2016-2017	2017-2018	2018-2019
Metered Billed Consumption (MGals)	1,156.46	1,132.23	1,098.74
Metered Unbilled Consumption (Mgals)	8.85	14.73	14.34
Unmetered Authorized Use Estimate (MGals)	2.96	1.54	3.10
Total Accounted-for Water	1,168.27	1,148.50	1,116.18
Unaccounted-for Water (Mgals)	-59.23	70.70	145.61
Unaccounted-for Water (percent)	-5.34%	5.80%	11.54%

Water production data source: City of The Dalles SCADA

Metered billed consumption data source: City of The Dalles Caselle Billing and Usage Summary

Metered unbilled consumption data source: City of The Dalles Caselle Consumption Analysis Report

Unmetered authorized use estimates: City of The Dalles Water Distribution Division hydrant flushing records

System-wide Metering

Progress Report: The City continues to require metering on all new connections in accordance with City of The Dalles Municipal Code 3.04.110 Meters (Formerly Ordinance 17-1358).

2014 WMCP System-wide Metering Benchmark
 The City’s water system is fully metered.

Five-Year Benchmarks: The City will continue to require meters on all new connections.

Meter Testing and Maintenance

Progress Report: Meters have been installed at both ends of each transmission main. The purpose of these meters is to estimate water loss between the water treatment plant and delivery to reservoirs. The Public Works Department is working with the Finance Department to determine the monthly and annual volume of water consumed by customers who are served directly from the transmission main. Once we learn more about customer consumption we will be able to more accurately estimate the amount of water loss in this section of the distribution system.

Since 2011 a monthly meter malfunction report has been generated from the AMR software. The City replaces all meters on this list in lieu of repair. The City has not yet implemented a program to routinely test well meters and magnetic meters. The City has revised its annual residential meter replacement target from 10% to 8% to better align with available staffing and funding.

In 2017, staffing challenges prevented the City from meeting stated meter replacement program targets.

Table 2: City of The Dalles Meter Replacement Program Calendar Year 2014 - 2018

Meter Replacement Activity	2014	2015	2016	2017	2018
Meters less than 1-inch replaced in lieu of testing	378	96	427	155	235
Meters replaced due to failure	69	218	95	62	166
Meters greater than 1-inch replaced		7			
Percentage of meters replaced	9%	7%	10%	4%	8%

Meter replacement data source: Meter Replacement Program Forms for each year

Number of meters in service area data source: Water Distribution Division budget narratives for each fiscal year

2014 WMCP Meter Testing and Maintenance Benchmark

The City’s Water Distribution Division has installed automated meter reading (AMR) on all of its meters and the City has replaced any meter found not functioning at the time of AMR installation.

The City annually tests about one-fifth of its large meters and repairs or replaces any meter found to be malfunctioning or operating outside of their rated accuracy. The City replaces meters less than 3-inches in size on a schedule instead of testing them. Beginning in 2013, the City will replace 10 percent of the residential water meters on an annual basis. In addition, a monthly meter malfunction report is generated from the meter reading software and the City repairs all meters on this list. The City also replaces any meter upon its failure. The City recently installed magnetic meters at Vista Reservoir and its pump station and on the Marks Well, Jordan Street Well, and Lone Pine Well. These meters have not been tested yet due to the recent installation.

Five-Year Benchmarks: Over the next five years the City will continue all of the meter testing and repair activities described above, including an annual test of large meters and residential meter repair and replacement. In addition within 5 years the City will implement a program to test its well meters and its magnetic meters.

Water Rate Structure and Billing Practices that Encourage Conservation

Progress Report: The City has continued to bill customers based, in part, on the quantity of water metered at the service connection and has maintained its monthly billing schedule. In 2016 the City changed from a postcard bill to an 8.5" x 11" paper bill that includes a 13-month water use history graph. The bill is mailed in an envelope processed by a vendor using equipment that can include a bill insert. In November 2018 a water conservation bill insert was included in all water customer bills. The Public Works Department intends to budget for an annual November bill insert.

The most recent water rate increase went into effect March 1, 2015. Growth in the City across residential, commercial and industrial customer classes has provided utility rate revenues sufficient to delay planned rate increases since 2015.

2014 WMCP Water Rate Structure and Billing Practices that Encourage Conservation Benchmark

Since 1996, City water rates have included both a monthly basic charge based on meter size and a consumptive charge. Residential and commercial customers outside city limits are charged 1.5 times the applicable rates for bonded water system improvements, in lieu of debt service property taxes collected inside the City. The City also charges contractors a hydrant water usage fee and a Public Works Department fill station fee.

As part of a 10-year (2010-2020) water rate schedule, the City increases Commercial/Industrial and Residential base and consumption charges by 10 percent annually during this period, with an exception in 2011 when the Residential base water charges increased by 8 percent and Residential consumption charges increased by 30 percent. The City intends the substantial increase in consumption charges to encourage water conservation. The City bills customers monthly to provide relatively quick feedback on water usage to customers. Customers' bills are postcards and include usage for the month billed and for the same month in the previous year.

Five-Year Benchmarks: The City will continue to bill customers based, in part, on the quantity of water metered at the service connection and will maintain its monthly billing schedule. In the next 5 years, the City will periodically add water conservation messages to its bills. In the next 5 years, the City will investigate the feasibility of providing past water usage information spanning the previous 12 or 13 months on water bills. In the next 5 years, the City plans to continue to enact rate adjustments for all customer classes that will encourage water conservation.

Leak Detection and Repair

Progress Report: In 2017 the City purchased and trained its crews to use leak detection equipment. Leak surveys of the distribution piping are conducted as time allows. Leak surveys are conducted annually on the two seven-mile-long transmission lines. Due primarily to the transmission line surveys more than 70 miles of pipeline have been surveyed in the last 5 years. The City has consistently provided funding for major leak repairs to fix the leaks as soon as possible. The City has continued to address minor leaks on a priority basis from the annual maintenance budget or from a capital improvement budget.

2014 WMCP Leak Detection and Repair Benchmark

The City has a leak detection and repair program to reduce water losses in the City's water system. Typically, one to two miles of main lines are reviewed for leaks annually and identified leaks are repaired on a priority basis from the annual maintenance budget or from a capital improvement budget established for future years. The City has identified major leaks in the two approximately 7 mile-long pipelines between the water treatment plant and the city limits and has adopted a capital improvement plan to replace the pipelines, as well as a rate schedule and project schedule. Leak repair is an on-going process.

Furthermore, leaks are detected by visual inspection by City staff or by customers who contact the City with concerns. City staff repairs leaks associated with customer connections promptly and repairs other leaks on a priority basis.

Five-Year Benchmarks: Over the next 5 years, the City will conduct leak detection on approximately 26 miles of pipeline, and based on the results of that effort, the City may revisit its annual leak detection efforts. In the next 5 years, the City will continue to seek funding for major leak repairs to fix the leaks as soon as possible. The City will continue to address minor leaks on a priority basis from the annual maintenance budget or from a capital improvement budget established for future years.

Public Education

Progress Report: In 2018 the City updated its print materials and website content about water conservation. One of the new flyers was used as a bill insert in November 2018. The Public Works Department annual schedule for articles in the City newsletter now includes a winter freeze protection and leak detection topic as well as a summer outdoor water conservation topic. The City continues to staff an information booth at the annual Northwest Cherry Festival Community Fair. Updated print materials were distributed as well as faucet aerators, every drop counts water wheels, watering brochures, residential water budget flyers, and water conservation booklets for children. A quiz wheel with prize bags makes it easier to determine annual distribution at this outreach event.

The City mails a paper water quality report to every water customer annually. The report includes two short articles in addition to U.S. EPA required content. Water conservation content is rotated into this publication on an irregular basis.

In 2019 the City became a Promotional Partner of the U.S. EPA WaterSense program. WaterSense promotional materials and messaging were integrated into press releases, website content and Northwest Cherry Festival prize bags.

2014 WMCP Public Education Benchmark

The City uses a variety of approaches to educate the public about water conservation. The Public Works Department has a booth at the annual Cherry Festival community event where staff offers information and free items that promote efficient indoor and outdoor water use, such as faucet aerators, shower timers, watering brochures and rain gauges, and water conservation booklets for children. The City also provides tours of the WTP to school groups that promote water conservation. Water conservation brochures are available to the public at the Public Works Department office and City Hall Finance Department where utility bills are paid, and the City delivers an annual water quality report to every water customer that contains articles about Water Conservation and links to conservation Web sites.

Five-Year Benchmarks: The City will continue to maintain and update its print materials and Web site content about water conservation. The City will continue to provide water conservation information and items at community events. In the next 5 years, the City will seek additional partnerships to promote water conservation.

Technical and Financial Assistance Programs

Progress Report: The City continued to offer leak gauges, and lawn watering gauges at the annual Cherry Festival and at the Public Works Department office upon request as budget allowed. Toilet leak detection tablets are no longer distributed due to concerns about children at events mistaking them for candy. Instead, the updated water conservation flyer suggests using food coloring.

The Water Distribution Division reviews a monthly consumption exceptions report to identify customers who have exceptionally high water use. When such a customer is identified an operator uses the meter verification sheet to collect meter data, look for signs of water used for a swimming pool, landscape irrigation, construction activity and check for leaks on the customer-side of the meter. If a leak is suspected, the customer is notified that a leak may be present and that there is a leak adjustment available on their bill after it is fixed. A few times a year the meter verification process includes use of the water distribution leak detection equipment to locate a leak on a customer service line.

The City Industrial Pretreatment Program requires a wastewater survey for all new non-residential sewer customers or when a building owner/occupant applies for a change of use. These surveys provide a unique opportunity to advise commercial customers about water use. For example, the Regulatory Compliance Manager assisted a laundromat to estimate water use and suggested using ENERGY STAR product selection information to determine product purchase and then calculate the estimated water use using the listed water factor.

2014 WMCP Public Technical and Financial Assistance Benchmark

To increase indoor water conservation, the City provides interested customers with toilet leak detection tablets and leak gauges at the annual Cherry Festival and at the Public Works Department office upon request. To increase outdoor water conservation, the City provides interested customers lawn-watering gauges and gives away free drought-tolerant plants through a drawing.

[Moved from the Leak Detection and Repair section.] The AMR system that the City has installed will enable the City to review customer water consumption and to identify customers with elevated water use that suggests a leak needing investigation. The Dalles Municipal Code 3.04.090 Billing (Formerly Ordinance 17-1358) allows a rate adjustment for customers who repair leaks promptly.

Five-Year Benchmarks: The City will continue to offer rate adjustments for timely leak repair. The City will continue to offer toilet leak detection tablets, leak gauges, and lawn watering gauges at the annual Cherry Festival and at the Public Works Department office upon request. In the next 5 years, the City will meet with Commercial/Industrial customers to discuss water conservation opportunities.

Supplier Financed Retrofit or Replacement of Inefficient Fixtures

Progress Report: The City continued to offer 1.5 gpm faucet aerators and toilet flappers to customers at the annual Northwest Cherry Festival.

2014 WMCP Supplier Financed Retrofit or Replacement of Inefficient Fixtures Benchmark

The City offers its customers items that promote efficient water use indoors and outdoors at the annual Cherry Festival, such as faucet aerators and toilet flappers. In addition, many of these items are available at the Public Works Department, and the Finance Department distributes selected items, such as hose nozzles with a brochure about efficient watering.

Five-Year Benchmarks: The City will continue to offer 1.5 gpm faucet aerators and toilet flappers to customers at the annual Cherry Festival.

Water Reuse, Recycling, and Non-potable Opportunities

Progress Report: The City continues to divert water from three Kelly Landslide Mitigation dewatering wells to The Dalles Middle School storage tanks to make it available for on-site non-potable water uses.

In 2018, a wastewater discharge Permittee requested and received information about reuse of water from their pretreatment process for onsite irrigation. The Regulatory Compliance Manager provided an Oregon Department of Environmental Quality Application for 2501 WPCF General Permit Industrial Reuse Water, a fact sheet about developing a land use compatibility statement, and the DEQ Industrial Reuse Water Quality Screening Worksheet.

2014 WMCP Water Reuse, Recycling, and Non-potable Opportunities Benchmark

The City provides non-potable water from three wells for use in the heating and cooling system of the new, LEED certified The Dalles Middle School. In addition, the school district is using water from the wells for irrigating approximately 7.9 acres. The City also re-uses treated effluent at its Wastewater Treatment Plant for clarifier sprayers, gravity belt wash down, and digester gas defoaming.

Five-Year Benchmarks: The City will continue to explore opportunities for water reuse and recycling. In the next 5 years, the City will contact industrial users to discuss the potential for water reuse in their operations.

Other Conservation Measures

Progress Report: The Regulatory Compliance Manager once chaired the PNWS-AWWA Water Conservation Committee and remains engaged with the committee.

The Industrial Pretreatment Program permit application includes a question about water conservation measures. City staff has remained alert to seizing other opportunities to include water conservation in the building permit review process.

The City has accommodated the Regulatory Compliance Manager's work schedule to allow her to serve as adjunct faculty for the Lane Community College Water Conservation Technician Associates Degree Program. The Manager has continued in this capacity assisting the program to launch an online degree.

2014 WMCP Other Conservation Measures Benchmark

City staff participates actively in the American Water Works Association, including the Pacific NW Section of AWWA.

The City also has an ordinance (General Ordinance No. 91-1133, Section 6; now Municipal Code 3.04.060 Sections B. and L.) allowing it to terminate a customer's water service in the event of an emergency or damage to the system, or when the customer has been convicted of a violation of water or sewer ordinances or rules or a violation of water restrictions.

Five-Year Benchmarks: In the next 5 years, the City will review City ordinances and its building permit review process to find opportunities to encourage water conservation.

City of The Dalles Average Monthly and Average Daily Withdrawals by Water Right

OAR 690-086-0120(4)(b): average monthly and average daily diversion under each water right held by the water supplier for the previous five years. These points of diversion are reported according to fiscal year July1 to June 30, the same reporting periods as the water consumption reports.

Crow Creek Dam Certificate No. 44917 OR

South Fork Mill Creek (1S-11E-20-NE NW); Certificated unit is acre feet (AF)

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MG				
R 43667	R 4988	44917 OR	5/29/1967	CROW CR DAM	955	98.10	8.18	0.27	0.42
					311.18				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
R 43667	R 4988	44917 OR	5/29/1967	CROW CR DAM	955	213.30	17.78	0.58	0.90
					311.18				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
R 43667	R 4988	44917 OR	5/29/1967	CROW CR DAM	955	144.50	12.04	0.39	0.61
					311.18	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
R 43667	R 4988	44917 OR	5/29/1967	CROW CR DAM	955	142.60	11.88	0.39	0.60
					311.18				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
R 43667	R 4988	44917 OR	5/29/1967	CROW CR DAM	955	141.00	11.75	0.39	0.60
					311.18				

Crow Creek Dam Certificate No. 60410 CR

452 FEET SOUTH AND 366 FEET WEST FROM N₁/₄ CORNER, SECTION 20 (1S-11E-20-NE NW); Certificated unit is acre feet (AF)

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
S 43668	S 32479	60410 CR	5/29/1967	CROW CR DAM	955	99.47	8.29	0.27	0.42
					311.18				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
S 43668	S 32479	60410 CR	5/29/1967	CROW CR DAM	955	219.20	18.27	0.60	0.93
					311.18				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
S 43668	S 32479	60410 CR	5/29/1967	CROW CR DAM	955	182.60	15.22	0.50	0.77
					311.18	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
S 43668	S 32479	60410 CR	5/29/1967	CROW CR DAM	955	141.70	11.81	0.39	0.60
					311.18				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
S 43668	S 32479	60410 CR	5/29/1967	CROW CR DAM	955	138.80	11.57	0.38	0.59
					311.18				

South Fork Mill Creek Certificate No. 5691 OR

South Fork Mill Creek; on Edw. Wicks Place (1N-12E-28-NE SE); Certificated unit is cubic feet per second (cfs)

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Mill Creek Decree		5691 OR	12/31/1862	S FK MILL CR	2.00	272.30	22.69	0.75	1.15
					1.29				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Mill Creek Decree		5691 OR	12/31/1862	S FK MILL CR	2.00	219.50	7.22	0.60	0.93
					1.29				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Mill Creek Decree		5691 OR	12/31/1862	S FK MILL CR	2.00	182.30	15.19	0.50	0.77
					1.29	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Mill Creek Decree		5691 OR	12/31/1862	S FK MILL CR	2.00	120.30	10.03	0.33	0.51
					1.29				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Mill Creek Decree		5691 OR	12/31/1862	S FK MILL CR	2.00	159.10	13.26	0.44	0.67
					1.29				

Dog River Certificate No. 14954 OR

6627 FEET SOUTH AND 1399 FEET EAST FRoM SE CORNER, SECTION 34 (1S-10E-34-); Certificated unit is cubic feet per second (cfs)

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate		Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)	
					CFS	MGD					
		Hood River Decree	14954 OR	8/1/1870	DOG RIVER	All of the water in stream at point of diversion		771.08	64.26	2.11	3.27

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate		Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)	
					CFS	MGD					
		Hood River Decree	14954 OR	8/1/1870	DOG RIVER	All of the water in stream at point of diversion		907.81	75.65	2.49	3.85

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate		Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS	MGD				
Hood River Decree		14954 OR	8/1/1870	DOG RIVER	All of the water in stream at point of diversion		832.90	69.41	2.28	3.52

Leap year 366 days

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate		Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS	MGD				
Hood River Decree		14954 OR	8/1/1870	DOG RIVER	All of the water in stream at point of diversion		886.70	73.89	2.43	3.76

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate		Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS	MGD				
Hood River Decree		14954 OR	8/1/1870	DOG RIVER	All of the water in stream at point of diversion		1035.40	86.28	2.84	4.39

Wicks Well Certificate No. 44915 OR

2620 FEET SOUTH AND 1450 FEET WEST FROM E1/4 CORNER, SECTION 28(1N-12E-28-SW SE); Certificated unit is cubic feet per second (cfs)

2014 Water Management and Conservation Plan Comment: This well is used for emergency back-up only due to elevated hydrogen sulfide and temperature.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 2076	G 2132	44915 OR	7/2/1962	WICKS WELL	1.56	16.70	1.39	0.05	0.07
					1.01				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 2076	G 2132	44915 OR	7/2/1962	WICKS WELL	1.56	16.00	1.33	0.04	0.07
					1.01				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 2076	G 2132	44915 OR	7/2/1962	WICKS WELL	1.56	9.30	0.78	0.03	0.04
					1.01				Leap year 366 days

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 2076	G 2132	44915 OR	7/2/1962	WICKS WELL	1.56	29.80	2.48	0.08	0.13
					1.01				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 2076	G 2132	44915 OR	7/2/1962	WICKS WELL	1.56	10.60	.88	0.03	0.04
					1.01				

Lone Pine Well Certificate No. 60026 OR

12 FEET SOUTH AND 218 FEET WEST FROM NORTH 1/4 CORNER, SECTION 1 (1N-13E-1-NE NW); Certificated unit is cubic feet per second (cfs)

2014 Water Management and Conservation Plan Comment: Located within The Dalles Critical Groundwater Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 1415	G 7807	60026 OR	3/13/1959	LONE PINE WELL	4.46	61.80	5.15	0.17	0.26
					2.88				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 1415	G 7807	60026 OR	3/13/1959	LONE PINE WELL	4.46	69.00	5.75	0.19	0.29
					2.88				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 1415	G 7807	60026 OR	3/13/1959	LONE PINE WELL (WASC 2385)	4.46	106.30	8.86	0.29	0.45
					2.88	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 1415	G 7807	60026 OR	3/13/1959	LONE PINE WELL (WASC 2385)	4.46	67.50	5.63	0.18	0.29
					2.88				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 1415	G 7807	60026 OR	3/13/1959	LONE PINE WELL (WASC 2385)	4.46	0.00	0.00	0.00	0.00
					2.88				

Jordan Street Well Certificate No. 48991 OR

2170 FEET SOUTH AND 2280 FEET EAST FROM NW CORNER, S₄ (1N-13E-4-SE NW); Certificated unit is cubic feet per second (cfs)

2014 Water Management and Conservation Plan Comment: Used for supplemental and emergency back-up due to elevated Fe and Mn. Located within The Dalles Critical Groundwater Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 23	G 7806	48991 OR	10/16/1953	JORDAN ST WELL (WASC 2428)	5.5	98.50	8.21	0.27	0.42
					3.55				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 23	G 7806	48991 OR	10/16/1953	JORDAN ST WELL (WASC 2428)	5.5	111.80	9.32	0.31	0.47
					3.55				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 23	G 7806	48991 OR	10/16/1953	JORDAN ST WELL (WASC 2428)	5.5	156.40	13.03	0.43	0.66
					3.55	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 23	G 7806	48991 OR	10/16/1953	JORDAN ST WELL (WASC 2428)	5.5	34.00	2.83	0.09	0.14
					3.55				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 23	G 7806	48991 OR	10/16/1953	JORDAN ST WELL (WASC 2428)	5.5	91.09	7.59	0.25	0.39
					3.55				

Marks Well Certificate No. 15543 OR

(1N-13E-4-SE SW); Certificated unit is cubic feet per second (cfs)

2014 Water Management and Conservation Plan Comment: Used for supplemental and emergency back-up due to elevated Fe and Mn. Located within The Dalles Critical Groundwater Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
U 135	U 127	15543 OR	11/1/1940	MARKS WELL (WASC 2431)	2.68	0.00	0.00	0.00	0.00
					1.73				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
U 135	U 127	15543 OR	11/1/1940	MARKS WELL (WASC 2431)	2.68	5.60	0.47	0.02	0.02
					1.73				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
U 135	U 127	15543 OR	11/1/1940	MARKS WELL (WASC 2431)	2.68	30.80	2.57	0.08	0.13
					1.73				

Leap year 366 days

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
U 135	U 127	15543 OR	11/1/1940	MARKS WELL (WASC 2431)	2.68	38.60	3.22	0.11	0.16
					1.73				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
U 135	U 127	15543 OR	11/1/1940	MARKS WELL (WASC 2431)	2.68	47.90	3.99	0.13	0.20
					1.73				

Dewatering Well 1 (WASC 2502) Certificate No. 87278 OR

363 FEET SOUTH AND 1120 FEET WEST FROM N1/4 CORNER, SECTION 10 (1N-13E-10-NE NW); Certificated unit is cubic feet per second (cfs)

Non-potable. Dewatering stabilizes the Kelly Avenue Landslide. Used for heating and cooling system at The Dalles Middle School. Located within The Dalles Critical Groundwater Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query; 2014 City of The Dalles Water Management and Conservation Plan; Water Distribution Division Dewatering Well Records

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 1 (WASC 2502)	0.077	11.01	.92	0.030	0.047
					0.050				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 1 (WASC 2502)	0.077	6.79	.57	0.019	0.029
					0.050				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 1 (WASC 2502)	0.077	6.00	0.50	0.016	0.025
					0.050	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 1 (WASC 2502)	0.077	7.00	0.58	0.019	0.030
					0.050				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 1 (WASC 2502)	0.077	6.69	0.56	0.018	0.028
					0.050				

Dewatering Well 5 (WASC 2502) Certificate No. 87278 OR

707 FEET SOUTH AND 467 FEET WEST FROM N1/4 CORNER, SECTION 10 (1N-13E-10-NE NW); Certificated unit is cubic feet per second (cfs)

Non-potable. Dewatering manages the Kelly Avenue Landslide. Used for heating and cooling system at The Dalles Middle School. Located within The Dalles Critical Groundwater Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query; 2014 City of The Dalles Water Management and Conservation Plan; Water Distribution Division Dewatering Well Records

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 5 (WASC 2503)	0.200	29.81	2.48	0.082	0.126
					0.129				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 5 (WASC 2503)	0.200	28.60	2.38	0.078	0.121
					0.129				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 5 (WASC 2503)	0.200	27.10	2.26	0.074	0.115
					0.129	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 5 (WASC 2503)	0.200	29.10	2.43	0.080	0.123
					0.129				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 5 (WASC 2503)	0.200	29.10	2.43	0.080	0.123
					0.129				

Dewatering Well 9 (WASC 2502) Certificate No. 87275 OR

707 FEET SOUTH AND 467 FEET WEST FROM N₁/4 CORNER, SECTION 10 (1N-13E-10-NE NW); Certificated unit is cubic feet per second (cfs)

Non-potable. Dewatering manages the Kelly Avenue Landslide. Used for heating and cooling system at The Dalles Middle School. Located within The Dalles Critical Groundwater Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query; 2014 City of The Dalles Water Management and Conservation Plan; Water Distribution Division Dewatering Well Records

2013-14 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 9 (WASC 2504)	0.111	18.20	1.52	0.050	0.077
					0.072				

2014-15 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 9 (WASC 2504)	0.111	16.90	1.41	0.049	0.072
					0.072				

2015-16 Fiscal Year (2016 leap year)

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 9 (WASC 2504)	0.111	16.11	1.34	0.044	0.068
					0.072	Leap year 366 days			

2016-17 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 9 (WASC 2504)	0.111	16.30	1.36	0.045	0.069
					0.072				

2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
G 15518	G 15149	87278 OR	6/4/2001	DEWATER WELL 9 (WASC 2504)	0.111	16.01	1.33	0.044	0.068
					0.072				

City of The Dalles Points of Diversion with Zero Monthly and Daily Withdrawals by Water Right

OAR 690-086-0120(4)(b): average monthly and average daily diversion under each water right held by the water supplier for the previous five years. The points of diversion listed below had zero withdrawals for the previous five fiscal years.

Columbia River Permit No. S-49653

4000 FEET NORTH AND 200 FEET WEST FROM SW CORNER, SECTION 2 (1N-13E-3-SE NE); Permitted unit is cubic feet per second (cfs)

2014 Water Management and Conservation Plan Comment: Currently undeveloped. Subject to “fish persistence” conditions.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-2014 through 2017-18 Fiscal Years

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
S 55346	S 49653	NA	1/13/1986	COLUMBIA RIVER	40	0.00	0.00	0.00	0.00
					25.85				

City Hall Well Certificate No. GR 4107

12 FEET SOUTH AND 218 FEET WEST FROM N1/4 CORNER, SECTION 1 (1N-13E-1-NE NW); Certificated unit is gallons per minute (gpm)

Determination according to the Preliminary Ruling of Application T-12893 (dated 3/28/2019), which recognized T-10865, proposing approval of recognition of additional points of appropriation, if approved the final order will include the following: Lone Pine, Jordan Street, Marks, ASR 1

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-2014 through 2017-18 Fiscal Years

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Claim: GR 4258		GR 4107	10/11/1923	CITY HALL WELL (WASC 2419)	2300 gpm	0.00	0.00	0.00	0.00

South Fork Mill Creek; Dog River Permit No. R 13105

Permit to construct a reservoir and store the public waters South Fork Mill Creek DAM LOC-ALSO NENW SECTION 20 (1S-11E-17-SE SW); Dog River 1800 FEET NORTH AND 890 FEET EAST FROM SW CORNER, SECTION 11 (2S-10E-11-NW SW); Permitted unit is acre-feet per year

Currently undeveloped permit to enlarge storage of Crow Creek Reservoir. Any deficiency in supply from South Fork Mill Creek is to be made up by diversion from Dog River appropriated under Certificate No. 14954.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-2014 through 2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
R 84049	R13105	NA	1/21/1999	SOUTH FORK MILL CR	2100	0.00	0.00	0.00	0.00

Crow Creek Reservoir Permit No. S 53930

Permit to utilize public waters impounded in Crow Creek Reservoir, undeveloped. 452 FEET SOUTH AND 366 FEET WEST FROM N₁/4 CORNER, SECTION 20 (1S-11E-20-NE NW); Certificated unit is acre feet (AF)

Data Sources: Final Order Incorporating Settlement Agreement for Application Number S-84050

2013-2014 through 2017-18 Fiscal Year

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Volume	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					AF				
					MGD				
S 84050	S53930	NA	1/21/1999	CROW CREEK RESERVOIR	2100	0.00	0.00	0.00	0.00

Stadelman Well Certificate No. GR 4106

(1N-13E-3-SW NE); Certificated unit is gallons per minute (gpm)

2014 Water Management and Conservation Plan Comment: Currently not usable due to poor water quality and not in use. Located within The Dalles Critical Ground Water Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-2014 through 2017-18 Fiscal Years

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
Claim: GR 4257		GR 4106	12/31/1910	STADELMAN WELL (WASC 2422)	165 gpm	0.00	0.00	0.00	0.00

Mill Creek Well Certificate No. GR 4106

720 FEET NORTH AND 1400 FEET EAST FROM SW CORNER, SECTION 4 (1N-13E-4-SE SW); Certificated unit is cubic feet per second
 2014 Water Management and Conservation Plan Comment: 0.81 cfs of T-7258 reverted back to Mill Creek Well. April 1 – October 1
 period of use. Currently not in use. Located within The Dalles Critical Ground Water Area.

Data Sources: Oregon Water Resources Department Water Use Report; Oregon Water Rights Information Query

2013-2014 through 2017-18 Fiscal Years

App.No.	Permit No.	Certificate No.	Priority Date	Source	Authorized Rate	Annual Withdrawal (mg)	Avg Monthly Withdrawal (mg/month)	Avg Daily Withdrawal (mg/d)	Avg Daily Withdrawal (cfs)
					CFS				
					MGD				
U 181	U 189	86380 CF	10/4/1945	MILL CR WELL (WASC 2431)	0.69	0.00	0.00	0.00	0.00

Water Loss Quantifications

OAR 690-086-0120(4)(c) A description of the results of the annual water audit required under OAR 690-086-0150(4)(a).

Water Loss Quantifications (mg)					
Fiscal Year	Diverted ¹	Metered Sold ²	Backwash ³ /Flushing ⁴	Water Loss ^{5,6}	Loss ⁷ %
2018-2019	1401.9	1,098.74	41.7	261	18.65%
2017-2018	1274.6	1,132.23	44.34	98	7.69%
2016-2017	1235.7	1,102.30	64.4	69	5.58%
2015-2016	1283.3	ND	31.3 BACKWASH ONLY	UNK	UNK
2014-2015	1261.3	ND	39.5 BACKWASH ONLY	UNK	UNK
Annual Average⁸					
	1,304.07	1,111.09	50.15	143	11%

1. Includes production of Lone Pine, Jordan, Marks wells, and raw flow diverted from S Fork Mill Creek into the Wicks WTP Headworks
2. Metered sold does not include metered unbilled consumption
3. Includes volume of treated water used in backwashing the filters at Wicks WTP
4. Flushing records from City of The Dalles Water Distribution Division hydrant flushing records
5. Does not include the unmeasured volume of water at Wicks WTP used to:
 - a. operate the sludge removal system in the settling basins (TrackVac), nor
 - b. the volume used when draining and cleaning the basins quarterly, nor
 - c. the additional volume of untreated water passed during the annual cleaning of the sludge lagoon.
6. "Water Loss" also includes metered unbilled consumption; using the AWWA Water Audit methodology, unbilled consumption would be classified as "Nonrevenue Water" as opposed to "Water Loss".
7. In December 2019 a leak was detected during inspection of Sorosis Reservoir and is in the process of being repaired
8. Average of three complete years of data

City of The Dalles Water Use Characteristics

OAR 690-086-0120(4)(d) A comparison of the water used in each sector as identified and described in OAR 690-086-0140(6) with the quantities of water used in each sector for the previous five years.

The City has invested in a new billing system was put in place at the beginning of the 2016 – 2017 fiscal year. The new billing system breaks consumption billing records into the following sectors: Commercial, Discount A, Discount B, Government, Industrial, (Single Family) Residential, Duplex, Triplex, Quadplex, Multiplex, and Irrigation. These sectors have been consolidated to the categories listed below.

City of The Dalles Use Characteristics 2016-2017 Fiscal Year			
	Annual Usage (kgal)	Average Daily Usage (kgal)	% of Total
Residential	495,320	1,357.04	42.83%
Commercial/Industrial (C/I)	418,326	1,146.10	36.17%
Government	75,840	207.78	6.56%
Irrigation - Residential	13,078	35.83	1.13%
Irrigation - C/I	28,085	76.95	2.43%
Irrigation - Government	125,815	344.70	10.88%
Other	-	-	0.00%
Total	1,156,464	3,168.39	100%

City of The Dalles Use Characteristics 2017-2018 Fiscal Year			
	Annual Usage (kgal)	Average Daily Usage (kgal)	% of Total
Residential	503,492	1,379.43	44.47%
Commercial/Industrial (C/I)	473,894	1,298.34	41.85%
Government	90,776	248.70	8.02%
Irrigation - Residential	3,259	8.93	0.29%
Irrigation - C/I	26,261	71.95	2.32%
Irrigation - Government	34,542	94.64	3.05%
Other	7	0.02	0.00%
Total	1,132,231	3,102.00	100%

City of The Dalles Use Characteristics 2018-2019 Fiscal Year			
	Annual Usage (kgal)	Average Daily Usage (kgal)	% of Total
Residential	461,558	1,264.54	42.01%
Commercial/Industrial (C/I)	506,692	1,388.20	46.12%
Government	64,973	178.01	5.91%
Irrigation - Residential	3,453	9.46	0.31%
Irrigation - C/I	27,604	75.63	2.51%
Irrigation - Government	34,149	93.56	3.11%
Other	311	0.85	0.03%
Total	1,098,740	3,010.25	100.00%