### Water Conservation Works For All Of Us

Through public education, rate structuring, rebates for water conserving appliances, and improved system operations, Manchester Water District (District) has endeavored to reduce per capita water consumption by 5-percent over a ten year period beginning in 2015.

According to the U.S. Geological Survey (USGS), the average American consumes about 80-100 gallons per day (gpd). In 2015, the District billed 3,298 accounts for 197,252,903 gallons consumed, or an average daily consumption of 66 gpd per capita. In 2019, this figure dropped to just 65 gpd among District customers. Thanks to conservation efforts, District customers have used an average of 3-percent less when compared to 2015 per capita water consumption levels.



In addition to reductions in per capita consumption,

improvements to the District's distribution system have significantly reduced water loss due to system leaks, metering inaccuracies, or unreported consumption; such as fire fighting. For a distribution system of Manchester Water District's size and complexity, 10-percent or less unaccounted for water is considered acceptable. In 2019, the District had 7.7-percent unaccounted-for-production, and a three-year average 8.3-percent unaccounted-for-production.

As the District's population continues to grow, the challenges of aging infrastructure and increased demand require strategic planning and optimization of limited resources. Working together with consumers, the District must continue to meet or exceed mandates set forth in the Washington State Water Use Efficiency Rule of 2007, while improving service to ratepayers.

**Payment Options** Customers are finding great success using Xpress Bill Pay for making and scheduling payments, checking their balances, and setting-up paperless billing options. The efficiency and ease of the service, along with the security of Xpress Bill Pay has proven to be a popular option amongst customers. Xpress Bill Pay has options for email and text message notifications, automatic and one-time payments, as well as a free iPhone app! For more information, please contact the office, or check out www.manchesterwater.org.

## **XPRESS** BILL PAY

**Robert Ballard** 

Commissioner

#### Manchester Water District Board of Commissioners

Steve	Peders
Cha	airman

en

### General Manager—Dennis O'Connell

The Manchester Water District Board of Commissioners meet on the second Tuesday of every month at 5:30 pm. Meetings are held at the Kitsap Regional Library—Manchester Branch, unless otherwise posted. Meetings are open to all, and public participation is encouraged.

Manchester Water District Administrative Office Location & Hours 8185 E Daniels Loop, Suite 111 Port Orchard, WA 98366 Monday through Friday, 8:00 am—4:30 pm

### Water Bill Basics

- Water bills are calculated using cubic feet. 1 cubic foot = 7.48 gallons
- Manchester Water District processes bills on a bi-monthly schedule. • Water Bills are processed on the last business day of the month

Water bills consist of Base Rate and Consumption components. While the base rate is equal to all billing units, consumption is billed using a tiered rate structure. A tiered rate structure is another way that Manchester Water District promotes water conservation. The more water that is used, the more expensive the water becomes. Conversely, customers who use water wisely, will save.

### Water Efficient Appliance Rebates

Manchester Water District offers rebate incentives for customers who have purchased new, water-efficient appliances.

If you have purchased a water-efficient toilet, washing machine, and/or dishwasher in the past six months—you may be eligible!

For more information, please contact (360) 871-0500, or visit the Conservation page at www.manchesterwater.org



# THE DISTRICT DISPATCH

Spring 2020 Edition

Annual Water Quality Report and Water Use Efficiency Data Inside

## **COVID-19 Coronavirus and Drinking Water**

As we all struggle through the effects of the COVID-19 coronavirus, we may take comfort in knowing that COVID-19 has not been detected in drinking water. In a public advisory, published by the Washington State Department of Health Office of Drinking Water (ODW) on March 31, 2020, the reasons for this are explained. "Drinking water regulations use a multi-barrier approach to ensure safe and reliable drinking water. They are intended to protect your water in three ways. Water utilities obtain their drinking water from the best quality and most protected sources available. This reduces or removes the risk of contamination from entering the water system in the first place (ODW, 3-31-20)." Manchester Water District (District) sources all of our drinking water from deep wells located within the District's service territory. The District does not purchase water from any outside source or neighboring utility. "When necessary, water utilities use filtration and/or disinfection with chlorine to treat your drinking water. Chlorine is very effective in killing coronaviruses. (ODW. 3-31-20)" The District chlorinates all of our water at the source, and at levels sufficient enough to maintain a free chlorine residual at the farthest points in the distribution system. Chlorine residuals are monitored daily to ensure the water delivered to our customers is free of any living organisms and is safe to consume. "Water utilities collect water samples at least monthly. If contamination is found, the regulations require utilities to notify the public and recommend steps they can take to ensure their safety. (ODW, 3-21-20)" The District collects bacteriological samples from throughout our service territory every month for testing by an independent laboratory. The laboratory results are then reported to the ODW and the District simultaneously. In 2019, the District collected and submitted over 120 samples for testing; there were no organisms detected in our water from any source or at any location within our service territory.

If you would like to learn more about COVID-19 and drinking water, please visit the ODW website at *www.doh.wa.gov/CommunityandEnvironment/DrinkingWater*.

If you have questions or concerns about your water quality specifically, please telephone the District office at (360) 871-0500.

### COVID-19 Coronavirus and the Economy "We're all in this together."



The District understands that many of our customers may be affected by the economic impacts of the COVID-19 pandemic. As we've all done our part to "Stay Home and Stay Healthy" to combat the virus, we knew that there would be an economic cost to this effort. Hopefully, by the time you read this, we will have beat back the bug and be getting back to our customary routines.

Economic recovery will come quickly for some, while others may be impacted for months. If you are experiencing hardships and need a little extra time or advice on how to pay your water bill, District staff is here to help. Please call our office at **(360) 871-0500** and let us help. We also invite you to visit our website at *www.manchesterwater.org* for links to pay your bill online through our secure Xpress Bill Pay service.

You can also find us on Facebook at *www.facebook.com/manchesterwaterdistrict* for updates on community events and links to other local resources.







PO BOX 98 MANCHESTER, WA 98353 (360) 871-0500 WWW.MANCHESTERWATER.ORG

### 2019 Water Quality Report—Water System ID #507002

Manchester Water District was formed in 1942 under Chapter 57 of the Revised Code of Washington. The District is governed by an elected three-member Board of Commissioners and staffed by eight full-time employees. The District serves over 3,300 accounts, which represents a population of nearly 10,000 people. The distribution system covers approximately 38 miles of water pipe, and in 2019 delivered 217 million gallons of water to customers in the Manchester, Yukon Harbor, South Colby, Harper, and Southworth neighborhoods. To ensure that sufficient water is available during peak demands, and to maintain fire protection, the District stores roughly 3.2 million gallons of water in the five reservoirs and water tanks located through the service area.

The Board of Commissioners and Staff of Manchester Water District are proud to present the 2019 Consumer Confidence Report. This report includes water quality data that conforms to federal regulations set forth in the Safe Drinking Water Act (SDWA). Under the SDWA, water utilities must annually provide water quality information to each customer. This report demonstrates that your drinking water meets or exceeds state and federal drinking water standards.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their healthcare providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

Manchester Water District sources water from eight groundwater wells. The deep wells are located throughout the District's service area. Depending on location, some District customers may receive water from a single source, while others may be supplied by multiple sources. Manchester Water District treats all water with trace amounts of chlorine. This disinfection process is required by the Department of Health to provide a barrier of protection against bacterial growth in the distribution system. Chlorine also helps minimize the effects of hydrogen sulfide that can naturally occur in groundwater sources. Hydrogen sulfide causes what is typically referred to as a "rotten egg smell". In addition to chlorine, sodium fluoride is added to all District water. District customers voted to add fluoride to their drinking water in 1969, and have repeatedly held up the mandate since. District staff works diligently to maintain a fluoride level of .7 parts per million throughout the distribution system.

Manchester Water District Sources of Supply						
Department of Health Source Number	Manchester Water District Name	Approximate Location				
501	Well 1	Manchester Village				
S02	Well 2	Manchester Village				
S04	Well 4	Bulman Road				
S09	Well 9	Sedgwick Road				
S10	Well 10	Manchester Heights				
S11	Well 11	Manchester Heights				
\$13	Wells 5 & 8	Sedgwick Road				
S14	Wells 6 & 7	Garfield Avenue				

A Source Water Assessment Program (SWAP) was compiled by the Washington State Department of Health to highlight significant sources of contamination for community water systems in Washington State, if available. An interactive map of the assessment data and Manchester Water District's susceptibility rating can be found at www.doh.wa.gov/communityandenvironment/ drinkingwater/sourcewaterprotection/assessment.aspx

Contaminants that may be included in source water include:

Microbial Contaminants

Manchester Water District Sampling Schedule				
Parameter	Monitoring Schedule			
Chlorine Residual	Daily Monitoring			
Fluoride Residual	Daily Monitoring			
Total Coliform—E Coli	Monthly Monitoring			
Lead & Copper	Every 3 Years			
Asbestos	Every 9 Years			
Total Trihalomethane (THM)	Annual Monitoring			
Halo-Acetic Acids (HAA5)	Annual Monitoring			
Nitrates	Annual Monitoring			
Inorganic Chemicals	Every 9 Years			
Volatile Organic Chemicals	Every 6 Years			
Herbicides	Every 9 Years			
Pesticides	Every 9 Years			
Soil Fumigants	Every 3 Years			
Radionuclides	Every 6 Years			

	livestock operations, or wildlife.
norganic Contaminants	Such as salts and metals, which can occur naturally or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming.
Pesticides & Herbicides	Which may come from various sources such as agriculture, urban stormwater runoff, and residential uses.
Organic Chemical Contaminants	Including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.

Such as viguses, paracites, and bacteria that may come from sowage treatment plants, sontic systems, agricultural

**Radioactive Contaminants** Which can occur naturally or result from oil and gas production and mining activities.

Listed within this report are the few substances that were detected in Manchester Water District's most recent set of sampling results. Manchester Water District takes hundreds of samples each year. We have not listed the substances that were tested, but NOT detected. The Department of Health has granted complete waivers for dioxin, endothall, glyphosate, diguat, and insecticides. While we strive to make this report as user-friendly as possible, we understand that some questions may arise. For additional water quality questions or concerns, please contact the Manchester Water District office at (360) 871-0500. There are certified Water Distribution Managers who will be more than happy to assist you.

The table below lists all the drinking water contaminants that were detected between January 1 and December 31, 2019. The presence of these contaminants does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented represents water quality testing performed during the 2019 calendar year. Washington State requires Manchester Water District to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Data that is not from 2019 will be noted with the most recent sample date.

Parameter	Maximum Contaminant Level (MCL)	Maximum Contaminant Level Goal (MCLG)	Potential Sources	Average Level Detected in Most Recent Samples		Range of Levels Detected in Most Recent Samples	Meets Standards
Sampled in the Dis	stribution System						
Asbestos 2019 Sample	7 MFL	N/A	Decay of asbestos cement (AC) water mains; Erosion of natural deposits	ND		N/A	YES
Halo-Acetic Acid Monitored Annually	60 ppb	N/A	By-product of drinking water disinfection	5.4 pp	b	N/A	YES
Trihalomethanes Monitored Annually	80 ppb	N/A	By-product of drinking water disinfection	10 ppt	)	N/A	YES
Chlorine Monitored Daily	4 ppm	4 ppm	Water additive used to control microbes	.49 ppr	n	.30—.64 ppm	YES
Fluoride Monitored Daily	4 ppm	4 ppm	Water additive to promote dental health	.69 ppm		.56—.89 ppm	YES
Total Coliform Monitored Routinely	0	0	Naturally occurring organism	No coliform 120 sc	was de Imples	tected in any of the taken in 2019	YES
Sampled at Groun	dwater Sources						
Nitrates Monitored Annually	10 ppm	10 ppm	Runoff from fertilizer use; Leaching from septic tanks; Sewage; Erosion of natural deposits	.68 ppr	n	ND—2.18 ppm	YES
Gross Alpha 2018 Sample	15 pCi/L	N/A	Erosion of natural deposits	.33 pCi,	/L	ND—1.30 pCi/L	YES
Radium 228	5 pCi/L	N/A	Erosion of natural deposits	.77 pCi,	/L	ND—3 pCi/L	YES
Iron* 2019 Sample	.3 ppm SMCL	N/A	Erosion of natural deposits	.3 ppm		ND—.60 ppm*	YES
Manganese* 2019 Sample	.05 ppm SMCL	N/A	Leaching from natural deposits	.08 ppr	n	.02—.13 ppm*	YES
Sampled at Custor	ner Taps						
Lead** 2019 Sample	15 ppb Action Level	0	Corrosion of household plumbing systems; Erosion of natural deposits	1 ppb 90th Percer	ntile	0 sample sites out of 20 exceeded the Action Level	YES
Copper** 2019 Sample	1.3 ppm Action Level	1.3 ppm	Corrosion of household plumbing systems; Erosion of natural deposits	.14 ppm 90th Percentile		0 sample sites out of 20 exceeded the Action Level	YES
Explanation of Ter	rms			Units of Me	Pasurer	ment	
Explanation	Maximum Contamin	ant level—Highest level	of a contaminant allowed in drinking water MCIs are	nom Parts per Million			
MCL	set as close to the M	CLGs as feasible using be	st available treatment technology.	ppb	Parts pe	r Billion	
	Maximum Contamin	ant Level Goal—The leve	: Level Goal—The level of a contaminant in drinking water below which there I risk to health. MCLGs allow for a margin of safety.		Picocuri	es per Liter	
MCLG	is no known or expec	ted risk to health. MCLG			Millions	ons of Fibers per Liter	
SMCL	SMCL   Secondary Maximum Contaminant Level—Secondary Contaminant standards are developed to protect the aesthetic qualities of drinking water and are not health based.		ND	Not Detected in laboratory samples			
Action Level	vel The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.		*Iron & Manganese in Drinking Water				
Lead & Copper 90th Percentile	Lead & Copper Specific to Lead & Copper Testing—Out of every 10 homes sampled, 9 were at or below this level.		Iron & Manganese standards are achieved through blending of other drinking water sources.				
**A Note about Le	**A Note about Lead & Copper in Drinking Water from the Environmental Protection Agency There are no adverse health effects from Iron & Ma drinking water at the levels detected. The primary is & Manganese in drinking water is aesthetic quality.				anganese in impact of Iron . Elevated tain laundry		
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Manchester Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for hours, you can minimize the potential for lead exposure by flushing your tap						the distribu- may notice a	

for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline, or at www.epa.gov/safewater/lead

### **2019 Water Quality Analysis**

the impact of Iron & Manganese on drinking water quality. This includes, but is not limited to; blending drinking water sources and regularly flushing the distribution system in affected areas.