

# HEIGHTS WATER CONSUMER CONFIDENCE REPORT

## 2016 Monitoring Results *(Prepared May 2017)*

**Heights Water - System ID#32300L**  
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**Heights Water's mission** is to provide our customers with safe and reliable drinking water. This annual Consumer Confidence Report is intended to provide current, factual information about your drinking water. We are pleased to report that our drinking water meets all Federal and State requirements.

**Annual Membership Meeting:** Heights Water's annual membership meeting is the fourth Tuesday of September. Please call the business office for time and location.

**Drinking water sources:** Heights Water draws groundwater water from spring wellpoints and a well field located in the northwest section of Vashon Island. The only treatment is the addition of chlorine.

Heights Water routinely monitors for constituents in your drinking water according to Federal and State laws. The water quality information presented in the table on the next page shows the most recent result for detected constituents. All water samples shown were collected during the last calendar year unless otherwise noted in the table. This report shows the results of testing for the period of January 1 through December 31, 2016.

**Source protection information:** The Department of Health has compiled Source Water Assessment Program (SWAP) data for all community public water systems in Washington at <http://www.doh.gov/ehp/dw/sw/assessment.htm>. A source water protection plan is available at the Heights Water business office.

**All 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 (800-426-4791).

**Immuno-compromised persons** - Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people 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 health care 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 (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

**In order to ensure that tap water is safe to drink**, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

For a complete report of all constituents tested, call Heights Water at 206-463-0014.

**HEIGHTS WATER ANALYSIS OF TREATED WATER FOR HEALTH RELATED AND AESTHETIC CONSTITUENTS**  
*Only detected constituents are listed. All other constituents tested were not detected (ND).*

CONSTITUENTS Test Year	UNIT	LIMIT/ MCL	SPRING WELLPOINTS Source 8 (SO 9,10)	WELL FIELD Source 5 (SO2,3,4)	IN COMPLIANCE	TYPICAL SOURCE OF CONTAMINANT
<b>ANIONS &amp; CATIONS</b>						
Calcium-Ca 2010	mg/l	-	21	23	Yes	
Chloride-Cl 2013	mg/l	250	5.0	ND	Yes	Erosion of natural deposits
Hardness-CaCO <sub>3</sub> 2013	mg/l	-	103	110	Yes	
Magnesium-Mg 2009	mg/l	-	13	12	Yes	
Nitrate-NO <sub>3</sub> 2016	mg/l	10	1.90	2.49	Yes	Erosion of natural deposits
Sodium-Na 2013	mg/l	-	8.10	6.8	Yes	
Sulfate-SO <sub>4</sub> 2013	mg/l	250	15	ND	Yes	Erosion of natural deposits
<b>RADIONUCLIDES</b>						
Radium 228 2015	pCi/l	5	ND	1.0	Yes	Radioactive decay of uranium and thorium in rocks and soil
Gross Alpha 2015	pCi/l	15	2.20	ND	Yes	Found naturally in rocks and minerals
<b>VOLATILE ORGANIC CHEMICALS</b>						
THMs – Trihalomethanes 2016	µg/l	80	N/A	3.65	Yes	By-product of chlorine used to disinfect water
HAAs - Haloacetic acids 2016	µg/l	60	1.0	1.0	Yes	By-product of chlorine used to disinfect water

**2016 MICROBIOLOGICAL:**  
 Number of Test results indicating contamination: Total Coliform Bacteria greater than 5% (naturally present in environment) = 0, Fecal Coliform Bacteria = 0 E.Coli = 0

**DEFINITION OF TERMS:**

SO	Water source number
mg/l	Milligrams per liter - same as parts per million or ppm
MCL	Maximum Contaminant Level – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
MFL	Million fibers per liter
µg/l	Micrograms per liter
ND	Not detected
NA	Not available

### 2016 Water Use Efficiency Report

Heights Water’s non-revenue water loss for years 2014-2016 is calculated to be 17.35% on a 3-year rolling average. Much of the unaccounted-for water in 2016 can be attributed to multiple leaks in the system and line flushing during repairs. Because this percentage exceeds the Department of Health’s recommended target loss of less than 10%, Heights Water has undertaken several tasks to determine the cause(s) for the variance: enhanced the telemetry system, accessed the billing data for accuracy, completed annual AWWA audit, randomly checked service meters for accuracy, repaired all known leaks, reviewed loss data with Evergreen Rural Water of Washington, and continued to evaluate production compared to usage for the water system.

The above and the following strategies are part of Heights Water’s continued effort to reduce non-revenue water loss to less than 10% by the end of 2018: complete annual AWWA water audit, continue proactively replacing aging mains and meters, implement engineer’s design to reduce system pressure, analyze the use and cost of strategically located meters along the distribution system, continue leak detection program, and verify of the accuracy/calibration of production meters.