

# Year 2016 Water Quality Data

## City of Bellingham Testing Data

Deer Creek Water Association purchases water from the City of Bellingham for some of our Members. The State Department of Health (DOH) has designated this portion of Deer Creek's service area as DCWA/Guide South and system identification number AB912-G. Members on Kline Road, Larson Road, King Mountain Road and along Guide Meridian—south of Smith Road, receive water from the City. Deer Creek is required to report to our Members on the quality of water they receive from all sources. The information on this page was provided to Deer Creek by the City and reformatted to fit this report. These tables list the health related drinking water contaminants detected during 2016. **Deer Creek was also required by the DOH to have certain tests done that may duplicate tests done by the City of Bellingham, but with specific reference to the water used by our Members. Those test results are on the other side of this supplement page.**

### Contaminants Regulated in the Distribution System - Detected by City of Bellingham testing

Detected Substance	Test Date	Highest Level Allowed (MCL)	Average Detected Level	MCLG (EPA Goal)	Unit Measure	In Compliance ?	Typical Source of Contaminant
<b>THM</b> (Total Trihalomethanes)	<b>2016</b>	<b>Below 80</b>	<b>36.1</b> (Range 13.4 to 53.2)	<b>none</b>	<b>ppb</b>	<b>Yes</b>	By-product of drinking water chlorination
<b>HAA</b>	<b>2016</b>	<b>Below 60</b>	<b>18.0</b> (Range 12.8 to 27.2)	<b>none</b>	<b>ppb</b>	<b>Yes</b>	By-product of drinking water chlorination
<b>Chlorine</b> (1,103 samples) (Free Chlorine Residual)	<b>2016</b>	MRDL=4.0	<b>0.46</b> (Range .01 to 0.91)	MRDLG	<b>ppm</b>	<b>Yes</b>	Disinfectant added to water. Used to control microbes.
<b>Total and Fecal Coliform Bacteria</b> (1,104 samples were collected)	<b>2016</b>	5% of samples for Total Coliform. Presence of any Fecal Coliform for 2 consecutive months would require public notification within 24 Hrs.	Zero samples tested positive for total coliform and no samples tested positive for fecal coliform bacteria.			<b>Yes</b>	Naturally present in the environment

### Contaminants Regulated at Customer Tap - Detected by City of Bellingham testing

Detected Substance	Test Date	Action Level	90th Percentile	Unit Measure	In Compliance ?	Typical Source of Contaminant
<b>Copper</b> (See Note #1)	<b>2015</b>	<b>1,300</b>	<b>61</b>	<b>ppb</b>	<b>Yes</b>	Corrosion of plumbing
<b>Lead</b> (See Note #2)	<b>2015</b>	<b>15</b>	<b>3</b>	<b>ppb</b>	<b>Yes</b>	Corrosion of plumbing

**Note #1:** Thirty-seven sites were sampled. No homes were above the Action Level with a range of 5 to 94 ppb — 90% of samples must be below this

**Note #2:** Thirty-seven sites were sampled. One home was above the Action Level with a range of <1 to 13 ppb — 90% of samples must be below

### Turbidity

Turbidity is a measurement of the clarity of the water. The City monitors turbidity continuously at the beginning, middle and end of the treatment process. Turbidity reported for compliance is in the treated water. In 2016 the highest turbidity level was 0.09 NTU (nephelometric turbidity units) The City met the 0.3 NTU requirement in 2016 - **100 %** of the time. Compliance means filtered water turbidity shall be less than or equal to 0.3 NTU in at least 95% of the measurements made each month and shall never exceed 1.0 NTU. **The City was in compliance 100% of the time.**

### Inorganics\*

\* These detections fell far below the State Reporting Levels and are not required to be included in this report, however Bellingham has chosen to make this information available to customers.

Detected Substance	Test Date	Highest Level Allowed (MCL)	Detected Level	Compliance
<b>Barium</b>	<b>2015</b>	<b>2 ppm</b>	<b>0.007 ppm</b>	<b>Yes</b>
<b>Nitrate</b>	<b>2015</b>	<b>10 ppm</b>	<b>0.26 ppm</b>	<b>Yes</b>

# Year 2016 Water Quality Data

## Deer Creek Water Association Testing Data



Deer Creek is a customer of the City of Bellingham on behalf of some Members who receive water from the Bellingham water main on Guide Meridian, south of Smith Road. Deer Creek is required by the State Department of Health (DOH) to test for some contaminants in 2016 even though the City of Bellingham was in compliance with their testing, in control of their facilities, and responsible for the water provided to our Members. The results of the tests on the water samples collected by Deer Creek are reported below. Bellingham performed Lead & Copper Testing in 2015 (reported on the reverse side) Deer Creek is now exempt from Lead & Copper testing since the City performs these tests. The results of other tests performed by Bellingham, and provided to Deer Creek, and that are required to be reported, can be found on the other side of this supplement page.

### Contaminants Regulated in the Distribution System - Detected by Deer Creek Water Association Testing

Detected Substance	Test Date	Highest Level Allowed (MCL)	Average Detected Level	MCLG (EPA Goal)	Unit Measure	In Compliance ?	Typical Source of Contaminant
<b>Chlorine</b> (Free Chlorine Residual)	<b>2016</b> <b>mo.</b>	MRDL=4.0	<b>0.24</b> (Range 0.0—0.45)	MRDLG is 4.0	<b>ppm</b>	<b>Yes</b>	<i>Disinfectant added to water. Used to control microbes.</i>
<b>TTHM</b> (see terms below)	<b>Aug</b> <b>2016</b>	80	65.2	none	<b>ppm</b>	No	<i>By-product of drinking water chlorination</i>
<b>HAA</b> (see terms below)	<b>Aug</b> <b>2016</b>	60	12.2	none	<b>ppm</b>	No	<i>By-product of drinking water chlorination</i>

Detected Substance	Test Date	Action Level	90th Percentile	Unit Measure	In Compliance ?	Typical Source of Contaminant
<b>Copper (See Note #1)</b>	<b>Jul</b> <b>2012</b>	<b>1300</b>	<b>290</b>	<b>ppb</b>	<b>Yes</b>	Corrosion of plumbing
<b>Lead (See Note #2)</b>	<b>Jul</b> <b>2012</b>	<b>15</b>	<b>3</b>	<b>ppb</b>	<b>Yes</b>	Corrosion of plumbing

**Note #1:** Deer Creek is longer required to perform these tests. The City of Bellingham performs these tests.

**Note #2:** Deer Creek is longer required to perform these tests. The City of Bellingham performs these tests.

### Terms and Abbreviations

**AL - Action Level** - The concentration level of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**HAA5 - HaloAcetic Acids** - Are a group of chemicals that are formed when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water.

**MCL - Maximum Contaminant Level** - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal** - The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**MRDL - Maximum Residual Disinfectant Level** - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**MRDLG - Maximum Residual Disinfectant Level Goal** - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**NTU - Nephelometric Turbidity Units** - Turbidity is the measure of the cloudiness of the water.

**ppb - parts per billion** - corresponds to one minute in 2,000 years or a penny in \$10,000,000.

**TTHM - Total Trihalomethanes** - This is the sum of chloroform, bromodichloromethane, chlorodibromomethane and bromoform. Compliance is based upon the total.