

# Arrowhead Beach Co-op Water Association

## Water Quality Report

### 2021

#### Consumer Confidence Report for the Year 2021

We're pleased to present to you the 2021 Annual Water Quality Report. This report is designed to inform you about the quality of the water that was provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We believe the information provides a valuable service to our customers.

Your drinking water is highly regulated by the EPA and is tested regularly. Arrowhead Beach Co-op Water Association strongly supports the efforts of Water & Wastewater Services' efforts to maintain our compliance with stringent federal standards. Our constant goal is to provide you with a safe source of drinking water.

#### Who We Are...

Arrowhead Beach Co-op Water Association is a water utility of 74 active connections. Our water source consists of a well field with 5 wells (Well B 127'; Well C 138'; Well D 137'; Well E 140'; Well F 138'). After the water is drawn from the wells, we add disinfectant (chlorine) to protect you against microbial contaminants. The water is stored in a reservoir with a 140,000-gallon capacity located on Arrowhead Road from there the water is distributed into the system.

The Board currently consists of 4 members working closely with Water & Wastewater Services, LLC a certified water manager to bring you good quality water. If you have any questions or concerns regarding this water utility, your water, or this report we will be happy to answer them. We also urge you to attend our annual meeting held Sunday August 16<sup>th</sup>. This year we encourage all to send an email to [arrowheadbeachcoop@gmail.com](mailto:arrowheadbeachcoop@gmail.com) to register your email in case we need to hold a virtual meeting due to the Island County's response to the current pandemic. Otherwise the location and time will be communicated in the weeks prior to the meeting.

**In case of emergency, please call Water & Wastewater Services, LLC our water system manager, at 1-800-895-8821.**

#### Presence of Contaminants in Drinking Water

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).

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.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture and residential uses.
- Radioactive contaminants, which are naturally occurring.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations.

**Some people may be more vulnerable to contaminants** in drinking water than the general population. Immuno-compromised persons such as person 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 see 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).

## Water Quality Data

The table below lists all the drinking water contaminants that were detected during the 2021 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2021. The state requires us 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. Some of the data, though representative of the water quality, is more than one year old.

### Terminology

**MCLG** (Maximum Contaminant Level Goal): the level of a contaminant allowed in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

**MCL** (Maximum Contaminant Level): the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**AL** (Action Level): the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

**ND** (Not Detected)

**ppm** (parts per million or milligrams per liter (mg/L)): about the same as ½ an aspirin tablet dissolved in a bathtub full (50 gallons of water)

**ppb** (parts per billion or micrograms per liter): about the same as 1 dissolved aspirin tablet in a 100,000-gallon swimming pool.

Inorganic Contaminants	MCL	MCLG	Arrowhead Beach Water	Range of Detections	Sample Date	Violation	Typical Source of Contamination
Arsenic (ppb)	0.010	0	0.006	0.006	2017	NO	Erosion of natural deposits; runoff from orchards
Nitrate (ppm)	10	10	0.78	0.78	2021	NO	Runoff from fertilizer use
Chloride (ppm)	250	250	Well B/S01 76.85	69.4-84.3	2021	NO	Naturally occurring; can indicate possible saltwater intrusion
Chloride (ppm)	250	250	Well C/S02 76.40	66.5-86.3	2021	NO	Naturally occurring; can indicate possible saltwater intrusion
Chloride (ppm)	250	250	Well D/S03 128.50	111-146	2021	NO	Naturally occurring; can indicate possible saltwater intrusion
Chloride (ppm)	250	250	Well E/S04 146.50	112-181	2021	NO	Naturally occurring; can indicate possible saltwater intrusion
Chloride (ppm)	250	250	Well F/S05 208.00	51-365	2021	NO	Naturally occurring; can indicate possible saltwater intrusion
Iron	0.3	0	0.05	0.05	2017	NO	Erosion of natural deposits
Asbestos	7	7	ND	ND	2015	NO	Decay of asbestos cement water mains; Erosion of natural deposits.
Lead & Copper	AL	MCLG	Arrowhead Beach Water	Total # of Samples / # Exceeding AL	Sample Date	Violation	Typical Source of Contaminant
Lead (ppb)	0.015	0	ND	5 / 0	2021	NO	Corrosion of household plumbing systems
Copper (ppm)	1.3	1.3	0.1205	5 / 0	2021	NO	Corrosion of household plumbing systems
Microbiological Contaminants	MCL	MCLG	Arrowhead Beach Water	Total # of Samples / # Exceeding AL	Sample Date	Violation	Typical Source of Contaminant
Total Coliform Bacteria	0	0	ABSENT	ABSENT	2021	NO	Naturally present in the environment
Disinfection Byproducts	MCL	MCLG	Arrowhead Beach Water	Range of Detections	Sample Date	Violation	Typical Source of Contamination
Haloacetic Acids (ppb)	60	0	10.5	9.2-12.3	2021	NO	By-product of drinking water disinfection

Total Trihalomethanes (ppb)	80	0	85.0	82.1-87.7	2021	NO	By-product of drinking water disinfection
<b>Disinfection Byproducts</b>	<b>MRDL</b>	<b>MRDL</b>	<b>Average Level Detected</b>	<b>Range of Level Detected</b>	<b>Sample Date</b>	<b>Violation</b>	<b>Typical Sources of Contaminant</b>
Chlorine (ppm)	4.0 (MRDL)	4 (MRDL)	0.469	0.24-0.89	2020	NO	Water additive to control microbes
<b>Synthetic Organic Contaminants</b>	<b>MCL</b>	<b>MCLG</b>	<b>Arrowhead Beach Water</b>	<b>Range of Detections</b>	<b>Sample Date</b>	<b>Violation</b>	<b>Typical Source of Contamination</b>
Herbicides	N/A	N/A	ND	ND	2018	NO	Runoff from herbicide used on row crops
<b>Radioactive Contaminants</b>	<b>MCL</b>	<b>MCLG</b>	<b>Arrowhead Beach Water</b>	<b>Range of Detections</b>	<b>Sample Date</b>	<b>Violation</b>	<b>Typical Source of Contamination</b>
Gross Alpha (pCi/l)	15	0	ND	ND	2021	NO	Erosion of natural deposits
Gross Beta (pCi/l)	50	0	4.39	4.39	2021	NO	Decay of natural and man-made deposits
Radium 228	5	0	ND	ND	2021	NO	Erosion of natural deposits

### Additional Information

**Why does the taste and odor of my water sometimes differ?** Water naturally varies in taste and odor at different times of the year. Taste and odor problems can also come from new or old pipelines, plumbing fixtures or changes in water quality. Customers may notice changes during severe winter storms, when reservoirs are low, or during hot weather. Water & Wastewater Services, LLC closely monitors such changes to ensure they do not affect the safety of the water.

**Security – We all need to be careful!** While Washington State’s Division of Drinking Water has never been lax regarding this issue, they have implemented more stringent guidelines to be sure that all that can be done is being done to protect your quality water. Four topics being focused on are 1) Emergency Response, 2) Sanitary Surveys, 3) Operator Certifications, and 4) Enforcement. Arrowhead Beach Co-op Water Association wholly supports the DOH in these efforts and continues to do all that can be done to maintain good quality water.

### **IMPORTANT CONSERVATION TIPS:**

#### **Bathroom:**

- Check toilets for leaks. Drop food coloring or a leak-detection tablet in the toilet tank. If color appears in the bowl, there is a leak that requires immediate attention.
- Reduce the water level per flush by installing a water displacement device in the toilet tank. A plastic bottle, weighted with water or sand works well. Never use a brick.
- Install water-saving showerheads or flow restrictors, which are available at local hardware stores and other retail outlets.
- Check faucets and pipes for leaks. A small drip from a worn washer can waste 20 or more gallons a day. Larger leaks waste even more.

#### **Kitchen & Laundry:**

- Turn the dishwasher and washing machines on only when full.
- Buy and install a faucet aerator.

#### **Lawn & Garden:**

- Water only when needed. Frequency depends on the type of plants and soil conditions.
- Water the lawn in the evening when evaporation is less likely to occur. Avoid watering during the heat of the day or when windy. Use a broom, not a hose when cleaning driveways and walkways.

The Board suggests the following: *Water & Wastewater Services, LLC will make a firm and immediate attempt to notify the property owners of unusually high-water usage for corrective action by the property owners. This, however, is not a guarantee that the message will get through to the property owner.*