

2023 CONSUMER CONFIDENCE REPORT



Aleutian Estates (PWSID# 224159)

Your Water Quality

This Annual Water Quality Report is designed to inform you about the quality of the water delivered to you every day. Our goal is to provide you with a safe and dependable supply of drinking water.

This report contains information for monitoring for the period of January 1st to December 31st, 2023 and is a snapshot of the quality of water provided last year. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

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).

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

If you have any questions about this report or want to learn more please contact Uli Johnson (907-357-1770) or AWPS (907-243-0740). You can find out when a meeting is so that you may attend.

The Source of Your Water

Your water comes from one 47-foot groundwater well located in the subdivision. The last Sanitary Survey was completed in 2023. The next survey is due in 2026.

A Source Water Assessment is available for your water system. You may contact your Homeowners Association for a digital copy (.pdf format) of this report or you review a hard copy at the Alaska Resources Library & Information Services (ARLIS) located at 3211 Providence Drive, Room 111 Anchorage, AK 99508; phone number 907-272-7547.

Overall, the public drinking water source for Aleutian Estates received a vulnerability rating of Medium for nitrates and nitrites, and Low for bacteria and viruses, volatile organic chemicals, heavy metals, synthetic organic chemicals and other organic chemicals in this Source Water Assessment.



Water Sources & Contaminants

Water Sources: The sources of drinking water (both tap 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.

Possible Contaminants in Source Water:

- ✓ 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, urban storm water runoff, and residential uses.
- ✓ 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.
- ✓ Radioactive Contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

Water System Test Results

By regulation we are allowed to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

Contaminant	Violation Y/N	Level Detected	Date	MCLG	MCL	Major Sources in Drinking Water
INORGANIC CONTAMINANTS						
Barium	No	.00948 ppm	9/17/19	2 ppm	2 ppm	Discharge of drilling wastes and from metal refineries; Erosion of natural deposits
Copper*	No	.961 ppm <i>0 of 5 samples exceeded AL</i>	9/13/20	1.3 ppm	AL= 1.3 ppm	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	1.73 ppb <i>0 of 5 samples exceeded AL</i>	9/13/20	0	AL=15 ppb	Corrosion of household plumbing systems; Erosion of natural deposits

MICROBIAL CONTAMINANTS						
Contaminant	Violation	Positive Samples	MCL	MCLG	Sources of Contamination	
Total Coliform	YES	13	0	0	Human and animal fecal waste	
E.Coli	YES	11	0	0	Human and animal fecal waste	
Contaminant	TT Violation	MCLG	Assessments/Corrective Actions		Sources of Contamination	
E. Coli **	YES	N/A	See 2023 Violations section below		Human and animal fecal waste	

***E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

* Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

DISINFECTANT RESIDUAL						
Contaminant	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	.03	.23 - .46	ppm	Sept – Nov 2023	N	Water additive used to control microbes

TREATMENT

Your water system is treated for corrosion, and the subsequent leaching of Copper, using a Soda Ash Treatment system. The corrosion control system needs to show optimization – and request Final Approval to Operate from DEC Engineering. These items are overdue, and the system is working with an Engineer to have them completed as quickly as possible.

2023 Violations, Exceedances and Unresolved Significant Deficiencies

The MCLs for E.coli and Total Coliform were exceeded. We had an E.coli-positive repeat sample following a total coliform-positive routine sample. Our Certifications for Public Notice for the Boil Water Notices were not submitted to DEC by the deadline. We did not sample Lead & Copper in 2023 as required.

We were required to complete a Level 2 assessment because we found *E. coli* in our water system. In addition, we were required to take 3 corrective actions and we completed 2 of these actions. We failed to correct all sanitary defects that were identified during the assessment that we conducted. The third defect is that our well does not have the proper grouting or ground seal around the casing. We will correct this in Summer 2024 with guidance from DEC.

Reduction of Monitoring Requirements

As authorized and approved by the EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in our Test Table, though representative, is more than one year old. We have monitoring waivers from the State of Alaska DEC for Synthetic Organic Contaminants (SOC's) and Asbestos.



Vulnerability of Some Populations to Contaminants in Drinking Water



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/Centers for Disease Control and Prevention (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).

Lead in Drinking Water

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. Your water system is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components.



Steps to Minimize Potential for Lead Exposure:

When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water from drinking and cooking. If you are concerned about lead in your drinking 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 <http://www.epa.gov/safewater/lead>.



*Your water system is regularly monitored to meet all regulatory requirements.
Every effort is made to monitor exactly to State & Federal requirements.*

Helpful Definitions and Abbreviations

Maximum Contaminant Level (MCL): 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.

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

Maximum Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

Non-Detects (ND) – laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) – one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter – one part per billion corresponds to one minute in 2000 years.

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

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Level 2 Assessment - A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Aleutian Estates
Public Water
System
#224159

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About Anchorage Well & Pump Service

Your Alaska DEC Certified Contract Operator

AWPS assists Aleutian Estates in the operations of your water system and is the DEC required certified operator. We are available to answer any questions you might have about this report, your water quality, or the services we provide. Please feel free to call us if you have any questions or concerns. You can reach us at 907-243-0740 or e-mail us at awps@mtaonline.net.

We work hard to make sure your water is safe to drink, and your water service is dependable.

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