



Alaska Department of Environmental Conservation
Division of Water
Authorization to Discharge

DRAFT

**AUTHORIZATION TO DISCHARGE UNDER THE
ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) FOR
WASTEWATER DISCHARGES FROM DRINKING WATER TREATMENT FACILITIES**

FACILITY ASSIGNED AUTHORIZATION NUMBER: AKG380012

GENERAL PERMIT NUMBER: AKG380000

See this General Permit for all permit requirements.

The following facility is authorized to discharge in accordance with the terms of the State of Alaska General Permit AKG380000 and any site specific requirements listed in this authorization.

The authorization effective date is **DRAFT**

The authorization to discharge shall expire at midnight, **September 30, 2029**

The permittee shall reapply for a permit reissuance on or before **April 4, 2029**, 180 days prior to the expiration of the general permit.

SECTION 1 – RESPONSIBLE PARTY

Issued to: Barrow Utilities & Electric Cooperative, Inc.

SECTION 2 – FACILITY INFORMATION

Facility Name: Barrow Utilities & Electric Cooperative Inc. (BUECI), Water Treatment Plant

Facility Location: Utqiagvik

Type of Discharge: Membrane Filtration

Outfall Location: Latitude: 71.2924° North

Longitude: 156.7777° West

Raw Water Source: Surface Water

Waterbody Discharged to: Isatkoak Lagoon

Maximum Estimated Daily Flow: 146,000 gallons per day

SECTION 3 – OUTFALL 001A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effluent Compliance Point: after the membrane filtration system and prior to discharge to Isatkoak Lagoon

Effluent Parameter	Units ^a	Daily Minimum	Monthly Average	Maximum Daily	Sample Frequency	Sample Type
Total Residual Chlorine (TRC) ^{b,c}	mg/L	N/A	N/A	Report	1/Month	Grab
Total Dissolved Solids (TDS)	mg/L	N/A	N/A	500	2/year ^d	Grab
pH	s.u.	6.5	N/A	8.5	1/Month	Grab
Arsenic ^e	µg/L	N/A	N/A	Report	2/Year	Grab
Chloride, Total	mg/L	N/A	N/A	Report	2/Year	Grab
Copper ^f	µg/L	N/A	83	167	1/Month	Grab
Dissolved Oxygen	mg/L	Report	N/A	N/A	1/Month	Grab
Iron	µg/L	N/A	N/A	Report	2/year	Grab
Lead	µg/L	N/A	N/A	Report	2/Year	Grab
Manganese	µg/L	N/A	N/A	Report	2/Year	Grab
Sulfates	mg/L	N/A	N/A	250	2/Year	Grab
Temperature	°C	N/A	N/A	Report	1/Month	Grab
Total Ammonia, as Nitrogen	mg/L	N/A	N/A	Report	1/Month	Grab
Total Discharge Flow	gpd	N/A	N/A	Report	Continuous	Measured
Zinc	µg/L	N/A	N/A	Report	2/Year	Grab

Footnotes:

- a. °C = degrees Celsius, gpd = gallons per day, mg/L = milligrams per liter, s.u. = standard units, µg/L = micrograms per liter
- b. Monitoring for TRC is not required if chlorinated water is not used to backwash filters, or if chlorine is not used as a disinfectant or cleaning agent
- c. Compliance with the receiving water limits for total residual chlorine cannot be determined using EPA-approved analytical methods. DEC will use the 0.1 mg/L as the compliance limit for this parameter
- d. Twice per year means two time periods during the calendar year: October through April and May through September
- e. Arsenic must only be monitored at a frequency of monthly if it is believed present in the wastestream from source water (i.e., groundwater); otherwise, arsenic must be monitored 2/year.
- f. Metal concentrations shall be reported as total recoverable metal.

SECTION 4 – Mixing Zone Authorization

Acute and chronic mixing zones are authorized as follows:

An acute mixing zone is defined as a radius of 80 m centered over the outfall and is authorized for copper, ammonia, and total residual chlorine.

A chronic mixing zone is defined as a radius of 96 m centered over the outfall and is authorized for temperature, ammonia, TRC, copper, iron, lead, arsenic, and manganese.

SECTION 5- Electronic Reporting (E-Reporting) Rule for Discharge Monitoring Reports (DMR)

The permittee must submit DMR data electronically through NetDMR per Phase I of the E-Reporting Rule (40 CFR 127) upon the effective date of the Permit. Authorized persons may access permit information by logging into the NetDMR Portal (<https://cdxnodengn.epa.gov/oeca-netdmr-web/action/login>). DMRs submitted in compliance with the E-Reporting Rule are not required to be submitted as described in Appendix A – Standard Conditions unless requested or approved by the Department. Any DMR data required by the Permit that cannot be reported in a NetDMR field (e.g. mixing zone receiving water data, etc...), shall be included as an attachment to the NetDMR submittal. DEC has established an e-Reporting Information website at <http://dec.alaska.gov/water/compliance/electronic-reporting-rule> that contains general information about this new reporting format. Training materials and webinars for NetDMR can be found at https://usepa.servicenowservices.com/oeca_icis?id=netdmr_homepage .

SECTION 6 – DEC STAFF CONTACTS

If you have any technical questions regarding this authorization or the requirements of the general permit AKG380000, please contact Amber Bennett at amber.bennett@alaska.gov or (907) 451-2190.

If you have questions regarding NetDMR, please contact Jessica Davison at jessica.davison@alaska.gov or (907) 451-2104.

If you have questions regarding compliance with any permit or authorization requirement, please contact Nicole Warner at nicole.warner@alaska.gov or (907) 269-3094.

A permittee shall orally report any noncompliance event that may endanger health or the environment within 24 hours after the permittee becomes aware of the circumstances and in writing within five days after the permittee becomes aware of the circumstances. Please use the phone numbers and addresses below to report noncompliance events. Additional information regarding twenty-four hour reporting may be found in Appendix A of General Permit AKG380000. The required written follow-up notification can be sent via fax, email, or U.S. Postal Service.

Alaska Department of Environmental Conservation
Attn: Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501

Toll Free Nationwide: 1-877-569-4114
Anchorage or International: 1-907-269-4114
Fax: 1-907-269-4604
email: dec-wqreporting@alaska.gov

SECTION 7– CERTIFICATION/SIGNATURE

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Signature

Date

Earl L. Crapps

Section Manager Domestic and Industrial
Utilities

Printed Name

Title