ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM



FINAL INDIVIDUAL PERMIT

Permit Number: AK0053708

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION Wastewater Discharge Authorization Program

astewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501

In compliance with the provisions of the Clean Water Act (CWA), 33 U.S.C. §1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4, this permit is issued under provisions of Alaska Statutes (AS) 46.03; the Alaska Administrative Code (AAC) as amended; and other applicable State laws and regulations. The

NIBLACK PROJECT, LLC C/O - BLACKWOLF COPPER AND GOLD LTD.

is authorized to discharge from the Niblack Project Wastewater Treatment Facility located on Prince of Wales Island, in Niblack Anchorage within the State of Alaska at the following location(s):

Outfall	Receiving Water or Body	Latitude	Longitude
001	Niblack Anchorage within Moira Sound	55.065916	-132.142143

In accordance with the discharge point(s) effluent limitations, monitoring requirements, and other conditions set forth herein:

This permit and authorization shall become effective June 1, 2022

This permit and the authorization to discharge shall expire at midnight, May 31, 2027

The permittee shall reapply for a permit reissuance on or before December 2, 2026, 180 days before the expiration of this permit if the permittee intends to continue operations and discharge(s) at the facility beyond the term of this permit.

The permittee shall post or maintain a copy of this permit to discharge at the facility and make it available to the public, employees, and subcontractors at the facility.

Som MC	April 28, 2022
Signature	Date
Gene McCabe	Program Manager
Printed Name	Title

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SCHEDULE OF SUBMISSIONS

The Schedule of Submissions summarizes some of the required submissions and activities the permittee must complete and/or submit to the Alaska Department of Environmental Conservation (DEC) Permitting (P) or Compliance (C) during the term of this permit. The permittee is responsible for all submissions and activities even if they are not summarized in Table 1.

Table 1: Schedule of Submissions

Permit Part	Submittal or Completion	Frequency	Due Date	Submit to ^a
Cover Page, Appendix A 1.3	Application for Permit Reissuance	1/permit cycle	180 days before expiration of the final permit	Р
1.4	Whole Effluent Toxicity Test Results (WET)	2/permit cycle	Each biannual test to be performed and submitted between May 1 st – Sept 30 th and Oct 1 st – April 30 th	P
1.8	Annual Ambient Water and Sediment Quality Monitoring and In-situ Bioassay Tissue Analysis Summary	1/Year	March 1st of Next Year	С
1.9 Appendix A 3.2	Discharge Monitoring Report (DMR)	Quarterly	Submitted electronically through the eDMR system, on or before the 28 th of the following month ^b	С
2.1	Quality Assurance Project Plan (QAPP)	1/permit cycle	Within 90 Days after Permit effective date.	С
2.2	Written notification that the Best Management Practices (BMP) Plan has been developed and implemented	1/permit cycle	Within 180 days after the effective date of the final permit	С
2.2.5.2	Certified statement that the BMP Plan fulfills the requirements set forth in this permit	Annually	On or before January 31 st of the year following each year of operation	С

2.3	Written notification that the Operation & Maintenance (O&M) Plan has been developed and implemented	1/permit cycle	Within 180 days after the effective date of the final permit	С
Appendix A	Reports of compliance or noncompliance with a Compliance Schedule	As required	The Report must be submitted no later than 14 days following each schedule date	С
Appendix A 3.4	Oral notification of noncompliance	As Necessary	Within 24 hours from the time the permittee becomes aware of the circumstances of noncompliance	С
Appendix A	Written documentation of noncompliance	As Necessary	Within 5 days after the permittee becomes aware of the circumstances	С

See Appendix A 1.1 for addresses.

This due date supersedes the date shown in Appendix A – Standard Conditions, Sections 3.2.1 and 3.2.3 on Page A-9

1. LIMITATIONS AND MONITORING REQUIREMENTS

1.1 Discharge Authorization

During the effective period of this permit, the permittee is authorized to discharge pollutants from Outfall 001 specified herein to Niblack Anchorage within the limitations and subject to conditions set forth herein. This permit authorizes discharge of only those pollutants resulting from facility processes, waste streams, and operations clearly identified in the permit application process.

1.2 Effluent Limits, Monitoring Requirements

The permittee must limit and monitor discharges from Outfall 001 as specified in Table 2. All values represent maximum effluent limits, unless otherwise indicated. The permittee must comply with effluent limitations in the table(s) at all times unless otherwise indicated, regardless of monitoring frequency or reporting required by other provisions of this permit.

Table 2 Outfall 001 - Effluent Limits and Monitoring Requirements

Parameter	Daily Maximum	30-Day Average	Units	Sample Frequency	Sample Type
Total Discharge Flow	300 a	Report	Gallons Per Minute (GPM)	Continuous	Recorded
Copper c	300	150	Micrograms per Liter (μg/L)	1/Quarter	Grab
TSS	30	20	Milligrams/L (mg/L)	1/Quarter	Grab
pН	6.0 ≤ p	H ≤ 9.0	Standard Units (SU)	1/Quarter	Grab
Cadmium ^c	100	50	μg/L	1/Quarter	Grab
Lead ^c	600	300	μg/L	1/Quarter	Grab
Mercury ^b	2	1	μg/L	1/Quarter	Grab
Zinc ^c	1500	750	μg/L	1/Quarter	Grab
Ammonia as NH ₃	2642	887	mg/L	1/Quarter	Grab
Whole Effluent Toxicity	Report	N/A	Toxic Units, Chronic (TUc)	2/Year ^d	Grab

- a) The wastewater discharge volume shall not exceed the maximum design flow rate approved.
- b) Mercury shall be measured as total.
- c) All metals shall be measured as total recoverable unless otherwise noted.
- d) Tests performed twice per year; one during the summer months (May1-September 30) and one during the winter months (October 1-April 30). WET samples shall be taken at same time as analytical samples.

1.3 General Requirements and Reporting Analytical Data

- **1.3.1** Discharge shall not cause contamination of surface or ground waters and shall not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70), except if excursions are authorized therein.
- 1.3.2 The permittee must collect effluent samples from the effluent stream after the flows from both the portal treatment settling pond and the potentially acid generating (PAG) treatment pond facilities are combined, and before discharge into receiving waters.

- **1.3.3** No discharge of any waste streams, including spills and other unintentional or non-routine discharges of pollutants, that are not part of the normal operation of the facility as was disclosed in the permit application, or any pollutants that are not ordinarily present in such waste streams.
- **1.3.4** There shall be no discharge of floating solids, visible foam, or oily wastes that produce a sheen on the surface of the receiving water as per 18 AAC 70.020.
- **1.3.5** The discharge shall be free of any additives such as antifreeze solutions, methanol, solvents, corrosion inhibitors, garbage, toxic substances, or other contaminants.
- 1.3.6 For analytical data, monitoring for effluent limitations must use methods with method detection limits that are less than the effluent limitations or are sufficiently sensitive.

 Monitoring effluent or receiving water for the purpose of comparing to water quality criteria must use methods that are less than the applicable criteria or are sufficiently sensitive. See Appendix C for definition of sufficiently sensitive.
- 1.3.7 For purposes of reporting on the discharge monitoring report (DMR) for a single sample, if a value is less than the method detection limit, the permittee must report "less than [numeric value of method detection limit]" and if a value is less than a minimum level (ML), the permittee must report "less than [numeric value of ML]."
- 1.3.8 For purposes of calculating a monthly average, zero (0) may be assigned for a value less than the method detection limit, and the [numeric value of method detection limit] may be assigned for a value between the method detection limit and the ML. If the average value is less than the method detection limit, the permittee must report "less than [numeric value of method detection limit]" and if the average value is less than the ML, the permittee must report "less than [numeric value of ML]." If a value is equal to or greater than the ML, the permittee must report and use the actual value. The resulting average value must be compared to the limit in assessing compliance.
- **1.3.9** For all effluent compliance monitoring outlined in Section 2.0, the permittee must use an analytical test method approved under Code of Federal Regulations (CFR) Title 40 (40 CFR) Part 136 and adopted by reference at 18 AAC 83.010, that can achieve a reporting limit less than the effluent limit (See Appendix C Definitions).
- **1.3.10** For any permit condition that requires onsite records be maintained and made available upon request, the permittee may use readily accessible electronic documents in lieu of hardcopy information to comply with these requirements.
- **1.3.11** The permittee must report all violations of maximum daily limits (MDLs) per Appendix A, Standard Conditions, Section 3.4– Twenty-four Hour Reporting.

1.4 Whole Effluent Toxicity Monitoring

18 AAC 83.435 requires that a permit contain limitations on WET when a discharge has reasonable potential to cause or contribute to exceedances of water quality standards (WQS). The Permit does not establish WET limits because no effluent monitoring data for WET is currently available for a determination of reasonable potential to cause or contribute to an exceedance of the chronic WET numeric water quality criterion of 1.0 chronic toxic unit (TU_c), found in 18 AAC 70.030. The permit requires WET testing twice per year, once in the summer months and once during the winter months and as detailed in Table 2.

WET tests are laboratory tests that measure total toxic effect of an effluent on living organisms. The tests use vertebrate and invertebrate species to measure the aggregate toxicity of an effluent. The permittee must conduct chronic WET testing to screen for the most sensitive species for the first year of the permit term. Once the most sensitive species has been determined, the permittee may request the elimination of the less sensitive species in writing and must be approved by DEC in writing for use in subsequent WET tests. DEC can also approve written requests to substitute the less sensitive species during periods when the more sensitive species is unavailable. The permittee shall not make any changes to the selection of test species or dilution series without prior written DEC approval and shall document the use of substitute species in the DMR for the test. The species to be tested are listed below.

- **1.4.1** Test Species -Vertebrate (survival and growth): *Atherinops affinis* (topsmelt). In the event that topsmelt is not available, *Menidia beryllina* (inland silverside) may be used as a substitute.
- 1.4.2 For larval development tests, the permittee must use bivalve species *Crassostrea gigas* (Pacific Oyster) or *Mytilus spp*. (mussel). Due to seasonal variability, it is recommended that testing be performed during reliable spawning periods (e.g., December through February for mussels and June through August for oysters). In the event that bivalves are unavailable, *Americamysis bahia* (formally *Mysidopsis bahia*, mysid shrimp) may be used as a substitute to determine survival and growth endpoints.
- 1.4.3 Methods and Endpoints: For the shrimp and alternate fish species, the presence of chronic toxicity must be estimated as specified in EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, Third Edition (EPA-821-R-02-014). For the bivalve species and topsmelt, chronic toxicity must be estimated as specified in Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136). The WET testing will determine the EC25 endpoint estimate of the effluent concentration that would cause a 25 % reduction in normal embryo development for the bivalves or in survival for fish and/or mysid shrimp. The WET testing will also determine the inhibition concentration (IC25) point estimate of the effluent concentration that would cause a 25 % reduction in the growth of the fish and/or mysid shrimp.
- 1.4.4 Reporting Results: Results must be reported on the DMR using TU_c, where TU_c = 100/EC₂₅ or 100/IC₂₅. The reported EC₂₅ or IC₂₅ must be the lowest point estimate calculated for the applicable survival, growth or normal embryo development endpoints. The permittee must report the no observed effect concentrations (NOECs) in the full WET test report. DEC may compare this information with the IC₂₅ during reissuance of the Permit.
- **1.4.5** Acute Toxicity Estimates: Although acute WET testing is not required, the permittee must provide an estimate of acute toxicity based on observations of mortality when appropriate. Acute toxicity estimates, if available, must be documented in the full report.
- 1.4.6 <u>Dilution Series</u>: A series of at least five dilutions and a control must be tested. For the first year of testing designed to screen for the most sensitive species, the dilution series shall be 0.5, 6.25, 12.5, 25, 50 and 75% along with a control of dilution water (0% effluent). In subsequent tests, the dilution series should be modified to bracket toxicity endpoints observed during previous tests. DEC may provide written direction to modify the previous dilution series, or the permittee may request written approval from DEC to modify the dilution series based on previous test results.

- 1.4.7 <u>Hold Times:</u> WET sample holding times are established at 36 hours and samples must not exceed a hold time of 72 hours. The permittee must document the conditions that resulted in the need for the holding time to exceed 36 hours and the potential effect on the test results.
- **1.4.8** Additional Quality Assurance Procedures: In addition to those quality assurance measures specified in the methodology, the following quality assurance procedures must be followed:
 - a) If organisms are not cultured by the testing laboratory, concurrent testing with reference toxicants must be conducted, unless the test organism supplier provides control chart data from at least the previous five months of reference toxicant testing. Where organisms are cultured by the testing laboratory, monthly reference toxicant testing is sufficient.
 - b) If either of the reference toxicant tests or the effluent tests does not meet all test acceptability criteria as specified in the test methods manual, then the permittee shall re-sample and re-test within the following month.
 - c) Control and dilution water must be receiving water, or salinity adjusted lab water. If the dilution water used is different from the culture water, a second control, using culture water must also be used.

1.4.9 Wet Reporting: DMRs and Full Report Deliverables

- 1.4.9.1 The permittee shall submit chronic WET test results on the next month's electronic DMR (eDMR) following the month of sample collection. The permittee must also submit the full WET Toxicity Report as an attachment to the eDMR per Section 1.5.2.
- 1.4.9.2 <u>Full Report Preparation:</u> The report of results shall include all relevant information outlined in Section 10 of Report Preparation in the U.S. EPA Short-Term Methods for Estimating the *Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, Third Edition (EPA-821-R-02-014).
- 1.4.9.3 Additional Reporting Information: In addition to toxicity test results, the permittee shall report:
 - a) The date and time of sample collection and initiation of each test, and
 - b) The discharge flow rate at the time of sample collection.

1.5 Receiving Water Monitoring

- 1.5.1 The permittee must sample the water column just below the surface at a depth of 5 ft. at monitoring site designated as SW-1 just west and outside of the mixing zone in an area midpoint between the nearest boundary of the authorized mixing zone and the mouth of the unnamed creek nearest the facility at a frequency of once per year. See Figure 2 in Permit Fact Sheet.
- 1.5.1.1 The date, time, and weather conditions must be noted and reported for each sample collected.
- 1.5.1.2 All receiving water samples must be grab samples.
- 1.5.1.3 All receiving water samples must be analyzed for the parameters listed in Table 3 below with methods that achieve minimum detection limits (MDL) equivalent to or less than those listed in the table.
- 1.5.1.4 All metals shall be reported as dissolved and total recoverable with the exception of mercury, which is to be reported as total.

Table 3: Receiving Water Monitoring Parameters and MDLs

Parameter	Units	Sample Frequency	Sample Type	MDL
Copper ^a	Micrograms per Liter (μg/L)	1/Year	Grab	0.1
Cadmium ^a	μg/L	1/ Year	Grab	0.03
Lead a	μg/L	1/ Year	Grab	0.05
Mercury	μg/L	1/ Year	Grab	0.002
Zinc ^a	μg/L	1/ Year	Grab	0.2
Ammonia as NH ₃	mg/L	1/ Year	Grab	-
pН	Standard Units (s.u.)	1/ Year	Grab	-
TSS	Milligrams/L (mg/L)	1/ Year	Grab	-

Note:

1.6 Sediment Monitoring

- **1.6.1** The permittee must conduct sediment monitoring once per year at established monitoring station SW-1. See Figure 2 in Permit Fact Sheet.
- 1.6.1.1 The date, time, and weather conditions must be noted and reported for each sample collected.
- 1.6.1.2 The Permittee must collect at least1samples per sample year at SW-1 site and conduct all chemical tests identified herein.
- 1.6.1.3 The sediment samples must be analyzed for the metals in Table 4 below using the listed analytical protocols (or equivalent) for each sediment sample.

Table 4: Sediment Monitoring Parameters and Methods

Parameter	Preparation Method	Analysis Method	MDL ^a (mg/Kg)
Copper	PSEP ^b	GFAA ^c	0.3
Cadmium	PSEP ^b	ICP d	15.0
Lead	PSEP ^b	ICP d	0.5
Mercury	7471 ^e	7471 ^e	0.02
Zinc	PSEP ^b	ICP d	15.0

Notes:

- a. Dry weight basis.
- b. Recommended Protocols for Measuring Selected Environmental Variables in Puget Sound. Puget Sound Estuary Program (PSEP), EPA 910/9-86-157, as updated by Washington Department of Ecology. Subsection: Metals in Puget Sound Water, Sediment, and Tissue Samples, PSEP.
- c. Graphite Furnace Atomic Absorption (GFAA) Spectrometry SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods. EPA 1986.
- d. Inductively Coupled Plasma (ICP) Emission Spectrometry SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods. EPA 1986.
- e. Mercury Digestion and Cold Vapor Atomic Absorption (CVAA) Spectrometry Method 7471, SW846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods. EPA 1986.

a. To compare dissolved measurements with total recoverable measurements, use translators specified in the *Alaska Water Quality Criteria Manual for Toxic and Deleterious Organic and Inorganic Substances*.

1.7 In-situ Bioassay and Sessile Organism Tissue Analysis

- The permittee must conduct analysis or organism tissues at least once per year at established monitoring station SW-1. See Figure 2 in Permit Fact Sheet.
- 1.7.1.1 The date, time, and weather conditions must be noted and reported for each sample collected.
- 1.7.1.2 The tissue samples must be collected from the organisms and locations listed In Table 5 below.

Table 5: In-situ Bioassay Monitoring Organisms and Parameters

Table 5: In-situ bioassay Monitoring Organisms and Larameters					
Sample Location	In-situ Test Organism ^a	Parameters (total in mg/K)			
SW-1	Nephthys procera (polychaetae) and Nereis spp. (polychaetas) b	Cadmium Copper			
SW-1	Mytilus edulis (blue mussel)	Lead Mercury Zinc			
Notes:					

- a. The organisms must be collected from each of the locations identified.
- b. Nereis sp. may be replaced with other local species if Nereis sp. is not available.
- The tissue samples must be prepared following EPA Method 200.2, where 0.3 grams of dry tissue and 1.7.1.3 5 milliliters (mL) of nitric acid are heated to 85 °C for four hours, cooled, and diluted to a volume of 22 mL. Levels of the elements must be determined by inductively coupled plasma mass spectrometer.
- 1.7.1.4 Quality assurance/quality control (QA/QC) plans for all the ambient water monitoring must be covered in the Quality Assurance Project Plan (QAPP) required under Permit Part 2.1.
- 1.7.1.5 Reporting. All monitoring results must be included in the Annual Report and submitted to DEC by March 1st of the next year. See Permit Part 1.8. The report must include a presentation of the analytical results and an evaluation of the results. The Annual Report must include a statistical evaluation of data showing averages, variations, and changes over time including a comparison of the past year's data to annual averages from the pre-production period and the production period. The report must include relevant QA/QC information. The report must be submitted electronically, and a hard copy provided upon request.

1.8 Annual Ambient Water Quality, Sediment Quality, and Sessile Organism Tissue Analysis

Annual discharge and receiving water quality monitoring results must be summarized in an Annual Water Quality Monitoring Summary (Annual Report) and submitted by March 1 of the next year. The report must include a presentation of the analytical results and an evaluation of the results. The evaluation must include an electronic spreadsheet containing historical data, a graphical presentation of the data at each monitoring station versus time, and a comparison of upstream and downstream monitoring results. The Annual Report must be certified and signed in accordance with Permit Appendix A, Part 1.12 and contain information required by Permit Parts 1.7.1.5, and 2.2.6.

1.9 Electronic Discharge Monitoring Reports

1.9.1 E-Reporting Rule – Phase I

The permittee must submit a DMR for each month by the 28th day of the following month. DMRs shall be submitted electronically through NetDMR per Phase I of the E Reporting Rule (40 CFR 127). For access to the NetDMR Portal, go to https://npdes-ereporting.epa.gov/net-netdmr. 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., full WET Reports, 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/ which contains general information about this new reporting format. Training modules and webinars for NetDMR can be found at https://netdmr.zendesk.com/hc/en-us.

1.9.2 E-Reporting Rule – Phase II (Other Reports)

Phase II of the E-Reporting rule will integrate electronic reporting for all other reports required by the Permit (e.g., Annual Reports and Certifications) and implementation is expected to begin during the permit cycle. Permittees should monitor DEC's E-Reporting website at http://dec.alaska.gov/water/compliance/electronic-reporting-rule/ for updates on Phase II of the E-Reporting Rule and will be notified when they must begin submitting all other reports electronically. Until such time, other reports required by the Permit may be submitted in accordance with Appendix A Standard Conditions.

1.10 Additional Monitoring

DEC may require additional monitoring of effluent or receiving water for facility or site-specific purposes, including, but not limited to: obtaining data to support applications, demonstration of water quality protection, obtaining data to evaluate ambient water quality, evaluating causes for elevated parameters in the effluent, and conducting chronic WET toxicity identification and reduction. If additional monitoring is required, DEC will provide the permittee the request in writing. The permittee also has the option of taking more frequent samples than required under the Permit. These additional samples must be used for averaging if they are conducted using the Department approved test methods (generally found in 18 AAC 70 and 40 CFR 136 [adopted by reference in 18 AAC 83.010]). The results of any additional monitoring must be included in the calculation and reporting of the data on DMRs as required by the Permit and Standard Conditions Part 3.2 and 3.3 (Permit Appendix A).

1.11 Mixing Zone

- **1.11.1** In accordance with state regulations at 18 AAC 70.240, as amended through June 23, 2003, a mixing zone for copper, cadmium, lead, mercury, zinc, pH, and ammonia as NH₃ is authorized in Niblack Anchorage for this discharge.
- 1.11.2 The chronic mixing zone for the discharge has a dilution of 587:1 and is defined as a parallelogram shaped box extending from the ocean floor to the water surface. It has a maximum length of 165 meters (m) centered along the 26.01 m long diffuser and has a total width of 110 m.

1.11.3 The acute mixing zone for the discharge has a dilution of 378:1 and is defined as a parallelogram shaped box extending from the ocean floor to the water surface. It has a maximum length of 53 m centered along the 26.01 m long diffuser and has a total width of 57 meters.

2. SPECIAL CONDITIONS

2.1 Quality Assurance Project Plan

- 2.1.1 The permittee must develop a facility specific QAPP for all monitoring required by this Permit. The permittee must submit written notice to DEC affirming that the QAPP is up to date and is being implemented within 90 of the effective date of this Permit. Any existing QAPP may be modified under this Section.
- **2.1.2** All procedures in the previous QAPP must be followed until the new QAPP has been implemented.
- **2.1.3** The QAPP must be designed to assist in planning for the collection and analysis of effluent samples in support of the permit and to help explain data anomalies whenever they occur.
- 2.1.4 The permittee may use the generic DEC Wastewater Treatment Facility Assurance Project Plan (DEC QAPP) as a template to develop a facility-specific QAPP required per Section 2.1.1. If using the generic DEC template, the developed QAPP must be specific for the facility.
- 2.1.5 Throughout all sample collection and analysis activities, the permittee must use DEC-approved QA/QC and chain-of-custody procedures, as described in the *Requirements for Quality Assurance Project Plans* (EPA/QA/R-5) and *Guidance for Quality Assurance Project Plans* (EPA/QA/G-5). The QAPP must be prepared in the format specified in these documents.
- **2.1.6** At a minimum, a QAPP must include:
- 2.1.6.1 Details on number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements;
- 2.1.6.2 Maps indicating the location of each sampling point.
- 2.1.6.3 Qualification and training of personnel; and
- 2.1.6.4 Name, address, and telephone number of all laboratories used by or proposed to be used by the permittee.
 - **2.1.7** The permittee must amend the QAPP whenever sample collection, sample analysis, or other procedure addressed by the QAPP is modified.
 - **2.1.8** Copies of the QAPP must be kept on site and made available to DEC upon request.

2.2 Best Management Practices Plan

2.2.1 Purpose. Through implementation of the best management practices (BMP) Plan the permittee must prevent or minimize the generation and the potential for release of pollutants from the facility to the lands and waters of the U.S. through normal and ancillary activities.

- 2.2.2 Development and Implementation Schedule. The permittee must develop and implement a BMP Plan which achieves the objectives and the specific requirements listed below. The permittee must submit written notice to DEC that the plan has been developed and implemented within 180 days of the effective date of the permit. Any existing BMP Plans may be modified for compliance with this Part. The permittee must implement provisions of the plan as conditions of this permit within 180 days of the effective date of this permit.
- **2.2.3** Objectives. The permittee must develop and amend the BMP Plan consistent with the following objectives for the control of pollutants.
- 2.2.3.1 The number and quantity of pollutants and the toxicity of effluent generated, discharged, or potentially discharged at the facility must be minimized by the permittee to the extent feasible by managing each waste stream in the most appropriate manner.
- 2.2.3.2 Under the BMP Plan and especially within any standard operating procedures in the BMP Plan, the permittee must ensure proper operation and maintenance of water management and wastewater treatment systems. BMP Plan elements must be developed in accordance with good engineering practices.
- 2.2.3.3 Each facility component or system must be examined for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to lands and waters of the U.S. due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc. The examination must include all normal operations and ancillary activities including material storage areas, storm water, in-plant transfer, material handling and process handling areas, loading, or unloading operations, spillage or leaks, sludge and waste disposal, or drainage from raw material storage.
- 2.2.3.4 Elements of the BMP Plan. The BMP Plan must be consistent with the objectives above and the general guidance contained in *Guidance Manual for Developing Best Management Practices* (EPA 833-B-93-004, October 1993) and *Storm Water Management for Industrial Activities, Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006) or any subsequent revision to these guidance documents.
- 2.2.3.5 Plan Components. The BMP Plan must include, at a minimum, the following items:
- 2.2.3.6 Statement of BMP Policy. The BMP Plan must include a statement of management comment to provide the necessary financial, staff, equipment, and training resources to develop and implement the BMP Plan on a continuing basis.
- 2.2.3.7 The BMP Plan must establish a BMP Committee responsible for developing, implementing, and maintaining the BMP Plan. Specify the structure, functions, and procedures of the BMP Committee.
- 2.2.3.8 Description of potential pollutant sources.
- 2.2.3.9 Risk identification and assessment.
- 2.2.3.10 Standard operating procedures to achieve the above objectives and specific best management practices (see below).

- 2.2.3.11 Materials compatibility.
- 2.2.3.12 Good housekeeping.
- 2.2.3.13 Inspections.
- 2.2.3.14 Preventative maintenance and repair.
- 2.2.3.15 Security.
- 2.2.3.16 Employee training.
- 2.2.3.17 Record keeping and reporting.
- 2.2.3.18 Prior evaluation of any planned modifications to the facility to ensure that the requirements of the BMP plan are considered as part of the modifications.
- 2.2.3.19 Final constructed site plans, drawings, and maps (including detailed storm water outfall/culvert configurations).
 - **2.2.4** Specific Best Management Practices. The BMP Plan must establish specific BMPs or other measures to achieve the objectives under Part 2.3 which ensure that the following specific requirements are met:
- 2.2.4.1 Solids, sludge, or other pollutants removed in the course of treatment or control of water and wastewaters must be disposed of in a manner to prevent any pollutant from such materials from entering waters of the U.S.
- 2.2.4.2 Ensure proper management of solid and hazardous waste in accordance with regulations promulgated under the Resource Conservation and Recovery Act (RCRA). Management practices required under RCRA regulations must be referenced in the BMP Plan.
 - **2.2.5** Review and Certification. The BMP must be reviewed and certified as follows:
- 2.2.5.1 Annual review by the plant manager and BMP Committee.
- 2.2.5.2 Certified statement the above reviews were completed, and the BMP Plan fulfills the requirements set forth in this permit. The statement must be certified by the dated signatures of each BMP Committee member. The statement must be submitted to DEC on or before January 31st of the year following each year of operation under this permit. The initial statement must be submitted to DEC six months after submittal of the BMP Plan.
- 2.2.5.3 Documentation. The permittee must maintain a copy of the BMP at the facility and make it available to DEC or an authorized representative upon request.
 - **2.2.6** BMP Plan Modification.

The permittee must amend the BMP Plan whenever a change in the facility or in the operation of the facility materially increases the generation of pollutants or their release or potential release to receiving waters.

- 2.2.6.1 The permittee must amend the BMP Plan whenever the plan is found to be ineffective in achieving the general objective of preventing and minimizing the generation and the potential for the release of pollutants from the facility to waters of the U.S.
- 2.2.6.2 Any changes to the BMP Plan must be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan must be reported to DEC with the annual certification required under Part 2.2.5.2.

2.3 Operation and Maintenance Plan

In addition to requirements specified in Appendix A, Part 1.6 of this permit (Proper Operation and Maintenance), by 180 days after the effective date of this permit, the permittee shall develop and implement an operation and maintenance plan for the wastewater treatment facility. The permittee must submit written notice to DEC that the plan has been developed and implemented within 180 days of the effective date of the permit. The plan shall be retained on site and made available on request to DEC.

2.4 Identification Sign(s)

The permittee shall post a sign or signs on the shoreline adjacent to the discharge point that indicate the name and contact number for the facility, the permit and authorization number, the type of discharge (treated non-domestic wastewater), and the approximate location and size of the mixing zone. The sign(s) should inform the public that certain activities, such as harvesting of aquatic life for raw consumption, should not take place in the mixing zone.

2.5 Removed Substances

Collected screenings, grit, solids, scum, and other facility residuals, or other pollutants removed in the course of treatment or control of water and wastewaters shall be disposed of in a Department approved manner and method in accordance with 18 AAC 60, such as to prevent any pollution from such materials from entering navigable waters.

2.6 Air and Land Releases

The permittee must not place, deposit, or allow to be placed or deposited on the premises, any material which may produce, cause or contribute to the spread of disease, create a safety hazard or in any way endanger the health of the public.

APPENDIX A STANDARD CONDITIONS APDES PERMIT NONDOMESTIC DISCHARGES

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Appendix A of the permit contains standard regulatory language that must be included in all APDES permits. These requirements are based on the regulations and cannot be challenged in the context of an individual APDES permit action. The standard regulatory language covers requirements such as monitoring, recording, reporting requirements, compliance responsibilities, and other general requirements. Appendix A, Standard Conditions is an integral and enforceable part of the permit. Failure to comply with a Standard Condition in this Appendix constitutes a violation of the permit and is subject to enforcement.

1.0 Standard Conditions Applicable to All Permits

1.1 Contact Information and Addresses

1.1.1 Permitting Program

Documents, reports, and plans required under the permit and Appendix A are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone (907) 269-6285
Fax (907) 269-3487
Email: DEC.Water.WOPermit@alaska.gov

1.1.2 Compliance and Enforcement Program

Documents and reports required under the permit and Appendix A relating to compliance are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone Nationwide (877) 569-4114
Anchorage Area / International (907) 269-4114
Fax (907) 269-4604
Email: dec-wgreporting@alaska.gov

1.2 Duty to Comply

A permittee shall comply with all conditions of the permittee's APDES permit. Any permit noncompliance constitutes a violation of 33 U.S.C 1251-1387 (Clean Water Act) and state law and is grounds for enforcement action including termination, revocation and reissuance, or modification of a permit, or denial of a permit renewal application. A permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. 1317(a) for toxic pollutants within the time provided in the regulations that establish those effluent standards or prohibitions even if the permit has not yet been modified to incorporate the requirement.

1.3 Duty to Reapply

If a permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must apply for and obtain a new permit. In accordance with 18 AAC 83.105(b), a permittee with a currently effective permit shall reapply by submitting a new application at least 180 days before the existing permit expires, unless the Department has granted the permittee permission to submit an application on a later date. However, the Department will not grant permission for an application to be submitted after the expiration date of the existing permit.

1.4 Need to Halt or Reduce Activity Not a Defense

In an enforcement action, a permittee may not assert as a defense that compliance with the conditions of the permit would have made it necessary for the permittee to halt or reduce the permitted activity.

1.5 Duty to Mitigate

A permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

1.6 Proper Operation and Maintenance

- 1.6.1 A permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances that the permittee installs or uses to achieve compliance with the conditions of the permit. The permittee's duty to operate and maintain properly includes using adequate laboratory controls and appropriate quality assurance procedures. However, a permittee is not required to operate back-up or auxiliary facilities or similar systems that a permittee installs unless operation of those facilities is necessary to achieve compliance with the conditions of the permit.
- 1.6.2 Operation and maintenance records shall be retained and made available at the site.

1.7 Permit Actions

A permit may be modified, revoked and reissued, or terminated for cause as provided in 18 AAC 83.130. If a permittee files a request to modify, revoke and reissue, or terminate a permit, or gives notice of planned changes or anticipated noncompliance, the filing or notice does not stay any permit condition.

1.8 Property Rights

A permit does not convey any property rights or exclusive privilege.

1.9 Duty to Provide Information

A permittee shall, within a reasonable time, provide to the Department any information that the Department requests to determine whether a permittee is in compliance with the permit, or whether cause exists to modify, revoke and reissue, or terminate the permit. A permittee shall also provide to the Department, upon request, copies of any records the permittee is required to keep under the permit.

1.10 Inspection and Entry

A permittee shall allow the Department, or an authorized representative, including a contractor acting as a representative of the Department, at reasonable times and on presentation of credentials establishing authority and any other documents required by law, to:

- 1.10.1 Enter the premises where a permittee's regulated facility or activity is located or conducted, or where permit conditions require records to be kept;
- 1.10.2 Have access to and copy any records that permit conditions require the permittee to keep;
- 1.10.3 Inspect any facilities, equipment, including monitoring and control equipment, practices, or operations regulated or required under a permit; and
- 1.10.4 Sample or monitor any substances or parameters at any location for the purpose of assuring permit compliance or as otherwise authorized by 33 U.S.C. 1251-1387 (Clean Water Act).

1.11 Monitoring and Records

A permittee must comply with the following monitoring and recordkeeping conditions:

- 1.11.1 Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.
- 1.11.2 The permittee shall retain records in Alaska of all monitoring information for at least three years, or longer at the Department's request at any time, from the date of the sample, measurement, report, or application. Monitoring records required to be kept include:
 - 1.11.2.1 All calibration and maintenance records.
 - 1.11.2.2 All original strip chart recordings or other forms of data approved by the Department for continuous monitoring instrumentation,
 - 1.11.2.3 All reports required by a permit,
 - 1.11.2.4 Records of all data used to complete the application for a permit,
 - 1.11.2.5 Field logbooks or visual monitoring logbooks,
 - 1.11.2.6 Quality assurance chain of custody forms,
 - 1.11.2.7 Copies of discharge monitoring reports, and
 - 1.11.2.8 A copy of this APDES permit.
- 1.11.3 Records of monitoring information must include:
 - 1.11.3.1 The date, exact place, and time of any sampling or measurement;
 - 1.11.3.2 The name(s) of any individual(s) who performed the sampling or measurement(s);
 - 1.11.3.3 The date(s) and time any analysis was performed;
 - 1.11.3.4 The name(s) of any individual(s) who performed any analysis;
 - 1.11.3.5 Any analytical technique or method used; and
 - 1.11.3.6 The results of the analysis.

1.11.4 Monitoring Procedures

Analyses of pollutants must be conducted using test procedures approved under 40 CFR Part 136, adopted by reference at 18 AAC 83.010, for pollutants with approved test procedures, and using test procedures specified in the permit for pollutants without approved methods.

1.12 Signature Requirement and Penalties

- 1.12.1 Any application, report, or information submitted to the Department in compliance with a permit requirement must be signed and certified in accordance with 18 AAC 83.385. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under a permit, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be subject to penalties under 33 U.S.C. 1319(c)(4), AS 12.55.035(c)(1)(B), (c)(2) and (c)(3), and AS 46.03.790(g).
- 1.12.2 In accordance with 18 AAC 83.385, an APDES permit application must be signed as follows:
 - 1.12.2.1 For a corporation, a responsible corporate officer shall sign the application; in this subsection, a responsible corporate officer means:
 - 1.12.2.1.1 A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - 1.12.2.1.2 The manager of one of more manufacturing, production, or operating facilities, if
 - 1.12.2.1.2.1 The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - 1.12.2.1.2.2 The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - 1.12.2.1.2.3 Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - 1.12.2.2 For a partnership or sole proprietorship, by the general partner or the proprietor, respectively, shall sign the application
 - 1.12.2.3 For a municipality, state, federal, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means:
 - 1.12.2.3.1 The chief executive officer of the agency; or
 - 1.12.2.3.2 A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.
- 1.12.3 Any report required by an APDES permit, and a submittal with any other information requested by the Department, must be signed by a person described in Appendix A, Part 1.12.2, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1.12.3.1 The authorization is made in writing by a person described in Appendix A, Part 1.12.2;

- 1.12.3.2 The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, including the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility; or an individual or position having overall responsibility for environmental matters for the company; and
- 1.12.3.3 The written authorization is submitted to the Department to the Permitting Program address in Appendix A, Part 1.1.1.
- 1.12.4 If an authorization under Appendix A, Part 1.12.3 is no longer effective because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Appendix A, Part 1.12.3 must be submitted to the Department before or together with any report, information, or application to be signed by an authorized representative.
- 1.12.5 Any person signing a document under Appendix A, Part 1.12.2 or Part 1.12.3 shall certify as follows:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

1.13 Proprietary or Confidential Information

- 1.13.1 A permit applicant or permittee may assert a claim of confidentiality for proprietary or confidential business information by stamping the words "confidential business information" on each page of a submission containing proprietary or confidential business information. The Department will treat the stamped submissions as confidential if the information satisfies the test in 40 CFR §2.208, adopted by reference at 18 AAC 83.010, and is not otherwise required to be made public by state law.
- 1.13.2 A claim of confidentiality under Appendix A, Part 1.13.1 may not be asserted for the name and address of any permit applicant or permittee, a permit application, a permit, effluent data, sewage sludge data, and information required by APDES or NPDES application forms provided by the Department, whether submitted on the forms themselves or in any attachments used to supply information required by the forms.
- 1.13.3 A permittee's claim of confidentiality authorized under Appendix A, Part 1.13.1 is not waived if the Department provides the proprietary or confidential business information to the EPA or to other agencies participating in the permitting process. The Department will supply any information obtained or used in the administration of the state APDES program to the EPA upon request under 40 CFR §123.41, as revised as of July 1, 2005. When providing information submitted to the Department with a claim of confidentiality to the EPA, the Department will notify the EPA of the confidentiality claim. If the Department provides the EPA information that is not claimed to be confidential, the EPA may make the information available to the public without further notice.

1.14 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any action or relieve a permittee

from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under state laws addressing oil and hazardous substances.

1.15 Cultural and Paleontological Resources

If cultural or paleontological resources are discovered because of this disposal activity, work that would disturb such resources is to be stopped, and the Office of History and Archaeology, a Division of Parks and Outdoor Recreation of the Alaska Department of Natural Resources (http://www.dnr.state.ak.us/parks/oha/), is to be notified immediately at (907) 269-8721.

1.16 Fee

A permittee must pay the appropriate permit fee described in 18 AAC 72.

1.17 Other Legal Obligations

This permit does not relieve the permittee from the duty to obtain any other necessary permits from the Department or from other local, state, or federal agencies and to comply with the requirements contained in any such permits. All activities conducted and all plan approvals implemented by the permittee pursuant to the terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

2.0 Special Reporting Obligations

2.1 Planned Changes

- 2.1.1 The permittee shall give notice to the Department as soon as possible of any planned physical alteration or addition to the permitted facility if:
 - 2.1.1.1 The alteration or addition may make the facility a "new source" under one or more of the criteria in 18 AAC 83.990(44); or
 - 2.1.1.2 The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged if those pollutants are not subject to effluent limitations in the permit or to notification requirements under 18 AAC 83.610.
- 2.1.2 If the proposed changes are subject to plan review, then the plans must be submitted at least 30 days before implementation of changes (see 18 AAC 15.020 and 18 AAC 72 for plan review requirements). Written approval is not required for an emergency repair or routine maintenance.
- 2.1.3 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.2 Anticipated Noncompliance

- 2.2.1 A permittee shall give seven days' notice to the Department before commencing any planned change in the permitted facility or activity that may result in noncompliance with permit requirements.
- 2.2.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.3 Transfers

- 2.3.1 A permittee may not transfer a permit for a facility or activity to any person except after notice to the Department in accordance with 18 AAC 83.150. The Department may modify or revoke and reissue the permit to change the name of the permittee and incorporate such other requirements under 33 U.S.C. 1251-1387 (Clean Water Act) or state law.
- 2.3.2 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.4 Compliance Schedules

- 2.4.1 A permittee must submit progress or compliance reports on interim and final requirements in any compliance schedule of a permit no later than 14 days following the scheduled date of each requirement.
- 2.4.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.5 Corrective Information

- 2.5.1 If a permittee becomes aware that it failed to submit a relevant fact in a permit application or submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit the relevant fact or the correct information.
- 2.5.2 Information must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.6 Bypass of Treatment Facilities

2.6.1 Prohibition of Bypass

Bypass is prohibited. The Department may take enforcement action against a permittee for any bypass, unless:

- 2.6.1.1 The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- 2.6.1.2 There were no feasible alternatives to the bypass, including use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. However, this condition is not satisfied if the permittee, in the exercise of reasonable engineering judgment, should have installed adequate back-up equipment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
- 2.6.1.3 The permittee provides notice to the Department of a bypass event in the manner, as appropriate, under Appendix A, Part 2.6.2.

2.6.2 Notice of bypass

- 2.6.2.1 For an anticipated bypass, the permittee submits notice at least 10 days before the date of the bypass. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the conditions of Appendix A, Parts 2.6.1.1 and 2.6.1.2.
- 2.6.2.2 For an unanticipated bypass, the permittee submits 24-hour notice, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting.
- 2.6.2.3 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.
- 2.6.3 Notwithstanding Appendix A, Part 2.6.1, a permittee may allow a bypass that:

- 2.6.3.1 Does not cause an effluent limitation to be exceeded, and
- 2.6.3.2 Is for essential maintenance to assure efficient operation.

2.7 Upset Conditions

- 2.7.1 In any enforcement action for noncompliance with technology-based permit effluent limitations, a permittee may claim upset as an affirmative defense. A permittee seeking to establish the occurrence of an upset has the burden of proof to show that the requirements of Appendix A, Part 2.7.2 are met.
- 2.7.2 To establish the affirmative defense of upset, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
 - 2.7.2.1 An upset occurred and the permittee can identify the cause or causes of the upset;
 - 2.7.2.2 The permitted facility was at the time being properly operated;
 - 2.7.2.3 The permittee submitted 24-hour notice of the upset, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting; and
 - 2.7.2.4 The permittee complied with any mitigation measures required under 18 AAC 83.405(e) and Appendix A, Part 1.5, Duty to Mitigate.
- 2.7.3 Any determination made in administrative review of a claim that noncompliance was caused by upset, before an action for noncompliance is commenced, is not final administrative action subject to judicial review.

2.8 Existing Manufacturing, Commercial, Mining, and Silvicultural Discharges

- 2.8.1 In addition to the reporting requirements under 18 AAC 83.410, an existing manufacturing, commercial, mining, and silvicultural discharger shall notify the Department as soon as that discharger knows or has reason to believe that any activity has occurred or will occur that would result in:
 - 2.8.1.1 The discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - 2.8.1.1.1 One hundred micrograms per liter (100 µg/L);
 - 2.8.1.1.2 Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile, 500 micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol, and one milligram per liter (1 mg/L) for antimony;
 - 2.8.1.1.3 Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
 - 2.8.1.1.4 The level established by the Department in accordance with 18 AAC 83.445.
 - 2.8.1.2 Any discharge, on a non-routine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - 2.8.1.2.1 Five hundred micrograms per liter (500 μ g/L);
 - 2.8.1.2.2 One milligram per liter (1 mg/L) for antimony;

- 2.8.1.2.3 Ten times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
- 2.8.1.2.4 The level established by the Department in accordance with 18 AAC 83.445.

3.0 Monitoring, Recording, and Reporting Requirements

3.1 Representative Sampling

A permittee must collect effluent samples from the effluent stream after the last treatment unit before discharge into the receiving waters. Samples and measurements must be representative of the volume and nature of the monitored activity or discharge.

3.2 Reporting of Monitoring Results

At intervals specified in the permit, monitoring results must be reported on the EPA discharge monitoring report (DMR) form, as revised as of March 1999, adopted by reference.

- 3.2.1 Monitoring results shall be summarized each month on the DMR or an approved equivalent report. The permittee must submit reports monthly postmarked by the 15th day of the following month.
- 3.2.2 The permittee must sign and certify all DMRs and all other reports in accordance with the requirements of Appendix A, Part 1.12, Signatory Requirements and Penalties. All signed and certified legible original DMRs and all other documents and reports must be submitted to the Department at the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.
- 3.2.3 If, during the period when this permit is effective, the Department makes available electronic reporting, the permittee may, as an alternative to the requirements of Appendix A, Part 3.2.2, submit monthly DMRs electronically by the 15th day of the following month in accordance with guidance provided by the Department. The permittee must certify all DMRs and other reports, in accordance with the requirements of Appendix A, Part 1.12, Signatory Requirements and Penalties. The permittee must retain the legible originals of these documents and make them available to the Department upon request.

3.3 Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than the permit requires using test procedures approved in 40 CFR Part 136, adopted by reference at 18 AAC 83.010, or as specified in this permit, the results of that additional monitoring must be included in the calculation and reporting of the data submitted in the DMR required by Appendix A, Part 3.2. All limitations that require averaging of measurements must be calculated using an arithmetic means unless the Department specifies another method in the permit. Upon request by the Department, the permittee must submit the results of any other sampling and monitoring regardless of the test method used.

3.4 Twenty-four Hour Reporting

A permittee shall report any noncompliance event that may endanger health or the environment as follows:

- 3.4.1 A report must be made:
 - 3.4.1.1 Orally within 24 hours after the permittee becomes aware of the circumstances, and
 - 3.4.1.2 In writing within five days after the permittee becomes aware of the circumstances.

- 3.4.2 A report must include the following information:
 - 3.4.2.1 A description of the noncompliance and its causes, including the estimated volume or weight and specific details of the noncompliance;
 - 3.4.2.2 The period of noncompliance, including exact dates and times;
 - 3.4.2.3 If the noncompliance has not been corrected, a statement regarding the anticipated time the noncompliance is expected to continue; and
 - 3.4.2.4 Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- 3.4.3 An event that must be reported within 24 hours includes:
 - 3.4.3.1 An unanticipated bypass that exceeds any effluent limitation in the permit (see Appendix A, Part 2.6, Bypass of Treatment Facilities).
 - 3.4.3.2 An upset that exceeds any effluent limitation in the permit (see Appendix A, Part 2.7, Upset Conditions).
 - 3.4.3.3 A violation of a maximum daily discharge limitation for any of the pollutants listed in the permit as requiring 24-hour reporting.
 - 3.4.4 The Department may waive the written report on a case-by-case basis for reports under Appendix A, Part 3.4 if the oral report has been received within 24 hours of the permittee becoming aware of the noncompliance event.
 - 3.4.5 The permittee may satisfy the written reporting submission requirements of Appendix A, Part 3.4 by submitting the written report via e-mail, if the following conditions are met:
 - 3.4.5.1 The Noncompliance Notification Form or equivalent form is used to report the noncompliance;
 - 3.4.5.2 The written report includes all the information required under Appendix A, Part 3.4.2;
 - 3.4.5.3 The written report is properly certified and signed in accordance with Appendix A, Parts 1.12.3 and 1.12.5.;
 - 3.4.5.4 The written report is scanned as a PDF (portable document format) document and transmitted to the Department as an attachment to the e-mail; and
 - 3.4.5.5 The permittee retains in the facility file the original signed and certified written report and a printed copy of the conveying email.
- 3.4.6 The e-mail and PDF written report will satisfy the written report submission requirements of this permit provided the e-mail is received by the Department within five days after the time the permittee becomes aware of the noncompliance event and the e-mail and written report satisfy the criteria of Part 3.4.5. The e-mail address to report noncompliance is: dec-wqreporting@alaska.gov

3.5 Other Noncompliance Reporting

A permittee shall report all instances of noncompliance not required to be reported under Appendix A, Parts 2.4 (Compliance Schedules), 3.3 (Additional Monitoring by Permittee), and 3.4 (Twenty-four Hour Reporting) at the time the permittee submits monitoring reports under Appendix A, Part 3.2 (Reporting of Monitoring Results). A report of noncompliance under this part must contain the information listed in Appendix A, Part 3.4.2 and be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

4.0 Penalties for Violations of Permit Conditions

Alaska laws allow the State to pursue both civil and criminal actions concurrently. The following is a summary of Alaska law. Permittees should read the applicable statutes for further substantive and procedural details.

4.1 Civil Action

Under AS 46.03.760(e), a person who violates or causes or permits to be violated a regulation, a lawful order of the Department, or a permit, approval, or acceptance, or term or condition of a permit, approval or acceptance issued under the program authorized by AS 46.03.020 (12) is liable, in a civil action, to the State for a sum to be assessed by the court of not less than \$500 nor more than \$100,000 for the initial violation, nor more than \$10,000 for each day after that on which the violation continues, and that shall reflect, when applicable:

- 4.1.1 Reasonable compensation in the nature of liquated damages for any adverse environmental effects caused by the violation, that shall be determined by the court according to the toxicity, degradability, and dispersal characteristics of the substance discharged, the sensitivity of the receiving environment, and the degree to which the discharge degrades existing environmental quality;
- 4.1.2 Reasonable costs incurred by the State in detection, investigation, and attempted correction of the violation;
- 4.1.3 The economic savings realized by the person in not complying with the requirements for which a violation is charged; and
- 4.1.4 The need for an enhanced civil penalty to deter future noncompliance.

4.2 Injunctive Relief

- 4.2.1 Under AS 46.03.820, the Department can order an activity presenting an imminent or present danger to public health or that would be likely to result in irreversible damage to the environment be discontinued. Upon receipt of such an order, the activity must be immediately discontinued.
- 4.2.2 Under AS 46.03.765, the Department can bring an action in Alaska Superior Court seeking to enjoin ongoing or threatened violations for Department-issued permits and Department statutes and regulations.

4.3 Criminal Action

Under AS 46.03.790(h), a person is guilty of a Class A misdemeanor if the person negligently:

- 4.3.1 Violates a regulation adopted by the Department under AS 46.03.020(12);
- 4.3.2 Violates a permit issued under the program authorized by AS 46.03.020(12);
- 4.3.3 Fails to provide information or provides false information required by a regulation adopted under AS 46.03.020(12);
- 4.3.4 Makes a false statement, representation, or certification in an application, notice, record, report, permit, or other document filed, maintained, or used for purposes of compliance with a permit issued under or a regulation adopted under AS 46.03.020(12); or
- 4.3.5 Renders inaccurate a monitoring device or method required to be maintained by a permit issued or under a regulation adopted under AS 46.03.020(12).

4.4 Other Fines

Upon conviction of a violation of a regulation adopted under AS 46.03.020(12), a defendant who is not an organization may be sentenced to pay a fine of not more than \$10,000 for each separate violation (AS 46.03.790(g)). A defendant that is an organization may be sentenced to pay a fine not exceeding the greater of: (1) \$200,00; (2) three times the pecuniary gain realized by the defendant as a result of the offense; or (3) three times the pecuniary damage or loss caused by the defendant to another, or the property of another, as a result of the offense (AS 12.55.035(c)(B), (c)(2), and (c)(3)).

Appendix B

Acronyms

APPENDIX B

The following acronyms are common terms that may be found in an Alaska Pollutant Discharge Elimination System (APDES) permit.

18 AAC 15 Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 15:

Administrative Procedures

18 AAC 70 Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 70: Water

Quality Standards

18 AAC 72 Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 72:

Wastewater Disposal

18 AAC 83 Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 83:

Alaska Pollutant Discharge Elimination System

All chapters of Alaska Administrative Code, Title 18 are available at the Alaska Administrative Code database http://www.legis.state.ak.us/cgi-bin/folioisa.dll/aac

AAC Alaska Administrative Code

ADEC Alaska Department of Environmental Conservation

APDES Alaska Pollutant Discharge Elimination System

AS Alaska Statutes

AS 46.03 Alaska Statutes Title 46, Chapter 03: Environmental Conservation. Available at

http://www.legis.state.ak.us/default.htm

As Arsenic

BMP Best Management Practice

Cd Cadmium
Cr Chromium

CFR Code of Federal Regulations

Cu Copper

CWA Clean Water Act

DMR Discharge Monitoring Report

DO Dissolved Oxygen

EPA U.S. Environmental Protection Agency

GPM or gpm Gallons per minute

Hg Mercury

IC₂₅ Inhibition Concentration 25%

I/I Infiltration and Inflow

LC50 Lethal Concentration 50%

MDL Method Detection Limit

mg/L Milligrams per Liter

MGD or mgd Million gallons per day

APPENDIX B

ML Minimum Level

MLLW Mean Lower Low Water

MZ Mixing Zone
N/A Not Applicable

Ni Nickel

NOEC No Observed Effect Concentration

Pb Lead

PAG Potentially Acid Generating
PQL Practical Quantification Limit

QA Quality Assurance

QA/QC Quality Assurance/Quality Control
QAPP Quality Assurance Project Plan

QC Quality Control RL Reporting Limit

RWC Receiving Water Concentration

Se Selenium

SU Standard Units

TIE Toxicity Identification Evaluation

TRC Total Residual Chlorine

TRE Toxicity Reduction Evaluation

TSS Total Suspended Solids

TUc Toxic Unit, Chronic

μg/L Micrograms per Liter

U.S.C. United States Code

WQS Water Quality Standards

WWTF Wastewater Treatment Facility

Zn Zinc

Appendix C

Definitions

The following are common definitions of terms associated with APDES permits. Not all the terms listed may appear in a permit. Consult the footnote references for a complete list of terms and definitions.

30-day average Means the average of daily discharges over a 30-day monitoring period calculated as

the sum of all daily discharges measured during the monitoring period divided by the

number of daily discharges measured during that monitoring period

Administrator^a Means the Administrator of the EPA or an authorized representative

Alaska Pollutant Discharge Elimination System (APDES)^a Means the state's program, approved by EPA under 33 U.S.C. 1342(b), for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and imposing and enforcing pretreatment requirements under 33 U.S.C. 1317, 1328, 1342,

and 1345

Annual Means once per calendar year

Aquaculture^b Means the cultivation of aquatic plants or animals for human use or consumption

Average Means an arithmetic mean obtained by adding quantities and dividing the sum by the

number of quantities

Average Monthly Discharge Limitation^a

Means the highest allowable average of "daily discharges" over a calendar month calculated as the sum of all "daily discharges" measured during a calendar month

divided by the number of "daily discharges" measured for that month

Best Management Practices (BMPs)^a

Means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from

raw material storage areas.

Boundary^b Means line or landmark that serves to clarify, outline, or mark a limit, border, or

interface

Bypass^a Means the intentional diversion of waste streams from any portion of a treatment

facility

Clean Water Act

(CWA)a

Means the federal law codified at 33 U.S.C. 1251-1387, also referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of

1972

Color^b Means the condition that results in the visual sensations of hue and intensity as

measured after turbidity is removed

Commissioner^a Means the commissioner of the Alaska Department of Environmental Conservation or

the commissioner's designee

Composite Samples Composite samples must consist of at least eight equal volume grab samples. 24 hour

composite sample means a combination of at least eight discrete samples of equal

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual

volume collected at equal time intervals over a 24-hour period at the same location. A "flow proportional composite" sample means a combination of at least eight discrete samples collected at equal time intervals over a 24-hour period with each sample volume proportioned according to the flow volume. The sample aliquots must be collected and stored in accordance with procedures prescribed in the most recent edition of *Standard Methods for the Examination of Water and Wastewater*.

Contact Recreation^b

Means activities in which there is direct and intimate contact with water. Contact recreation includes swimming, diving, and water skiing. Contact recreation does not include wading.

Criterion^b

Means a set concentration or limit of a water quality parameter that, when not exceeded, will protect an organism, a population of organisms, a community of organisms, or a prescribed water use with a reasonable degree of safety. A criterion might be a narrative statement instead of a numerical concentration or limit.

Daily Discharge^a

Means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants measured in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with a limitation expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Department^a

Means the Alaska Department of Environmental Conservation

Design Flow^a

Means the wastewater flow rate that the plant was designed to handle

Director^a

Means the commissioner or the commissioner's designee assigned to administer the APDES program or a portion of it, unless the context identifies an EPA director

Discharge^a

When used without qualification, discharge means the discharge of a pollutant

Discharge of a Pollutant^a

Means any addition of any pollutant or combination of pollutants to waters of the United States from any point source or to waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft that is being used as a means of transportation. Discharge includes any addition of pollutants into waters of the United States from surface runoff that is collected or channeled by humans; discharges through pipes, sewers, or other conveyances owned by a state, municipality, or other person that do not lead to a treatment works; discharges through pipes, sewers, or other conveyances leading into privately owned treatment works; and does not include an addition of pollutants by any indirect discharger.

Dissolved Oxygen

 $(DO)_p$

Means the concentration of oxygen in water as determined either by the Winkler (iodometric) method and its modifications or by the membrane electrode method.

The oxygen dissolved in water or wastewater and usually expressed in milligrams per liter or percent saturation

Ecosystem^b

Means a system made up of a community of animals, plants, and bacteria and the system's interrelated physical and chemical environment

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual

Effluent^b Means the segment of a wastewater stream that follows the final step in a treatment

process and precedes discharge of the wastewater stream to the receiving environment

Means a way to estimate the discharge volume. Approvable estimations include, but Estimated

are not limited to, the number of persons per day at the facility, volume of potable

water produced per day, lift station run time, etc.

Excluded area Means an area not authorized as a receiving water under a permit

Final Approval to

Operate

Means the approval that the Department issues after it has reviewed and approved the construction and operation of the engineered wastewater treatment works plans submitted to the Department in accordance with 18 AAC 72.215 through 18 AAC

72.280 or as amended.

Grab Sample Means a single instantaneous sample collected at a particular place and time that

represents the composition of wastewater only at that time and place

Means untreated wastewater before it enters the first treatment process of a wastewater Influent

treatment works

25% (IC25)e

Inhibition Concentration Means the point estimate of the toxicant concentration that would cause 25% reduction in a nonlethal biological measurement of the test organisms, such as reproduction or

growth

Lethal Concentration

50% (LC₅₀)^e

Mean the point estimate of the toxicant that would be lethal to 50% of the test

organisms during a specific period

Maximum Daily

Discharge Limitation^a

Means the highest allowable "daily discharge"

Meanb Means the average of values obtained over a specified period and, for fecal coliform

analysis, is computed as a geometric mean

Mean Lower Low

Water^b

Means the tidal datum plane of the average of the lower of the two low waters of each

day, as would be established by the National Geodetic Survey, at any place subject to

tidal influence

Measured Means the actual volume of wastewater discharged using appropriate mechanical or

electronic equipment to provide a totalized reading. Measure does not provide a

recorded measurement of instantaneous rates.

(MDL)^d

Method Detection Limit Means the minimum concentration of a substance (analyte) that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte

Micrograms per Liter

 $(\mu g/L)^b$

Means the concentration at which one millionth of a gram (10⁻⁶ g) is found in a volume

of one liter

Milligrams per Liter

 $(mg/L)^b$

Means the concentration at which one thousandth of a gram (10⁻³ g) is found in a volume of one liter. It is approximately equal to the unit "parts per million (ppm),"

formerly of common use.

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual

Minimum Level (ML)^e Means the concentration at which the entire analytical system must give a recognizable

signal and an acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method-specified sample weights,

volumes, and processing steps have been followed. This level is used as the

compliance level if the effluent limit is below it.

Mixing Zone^b Means a volume of water adjacent to a discharge in which wastes discharged mix with

the receiving water

Month Means the time period from the 1st of a calendar month to the last day in the month

Monthly Average Means the average of daily discharges over a monitoring month calculated as the sum

of all daily discharges measured during a monitoring month divided by the number of

daily discharges measured during that month

No Observed Effect Concentration (NOEC)^e Means the highest concentration of an effluent or a toxicant at which no adverse effects are observed on the aquatic test organisms at a specific time of observation. NOEC is

determined using hypothesis testing.

Permittee Means a company, organization, association, entity, or person who is issued a

wastewater permit and is responsible for ensuring compliance, monitoring, and

reporting as required by the permit

pH^g Means a measure of the hydrogen ion concentration of water or wastewater; expressed

as the negative log of the hydrogen ion concentration in mg/L. A pH of 7 is neutral. A

pH less than 7 is acidic, and a pH greater than 7 is basic.

Practical Quantification

Limit (PQL)^g

Means the lowest level that can be reliably achieved within specified limits of

precision and accuracy during routine laboratory operating conditions.

Primary Contact

Recreation

See Contact Recreation

Principal Executive

Officer^a

Means the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of division of the

agency

Pollutant^a Means dredged spoil, solid waste, incinerator residue, filter backwash, sewage,

garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under 42 U.S.C. 2011), heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, or agricultural waste

discharged into water

Quality Assurance Project Plan (QAPP) Means a system of procedures, checks, audits, and corrective actions to ensure that all research design and performance, environmental monitoring and sampling, and other

technical and reporting activities are of the highest achievable quality

Quarter Means the time period of three months based on the calendar year beginning with

January

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual

Means lakes, bays, sounds, ponds, impounding reservoirs, springs, wells, rivers, Receiving Water Body

> streams, creeks, estuaries, marshes, inlets, straits, passages, canals, the Pacific Ocean, Gulf of Alaska, Bering Sea, and Arctic Ocean, in the territorial limits of the state, and all other bodies of surface water, natural or artificial, public or private, inland or coastal, fresh or salt, which are wholly or partially in or bordering the state or under the

jurisdiction of the state. (See "Waters of the U.S." at 18 AAC 83.990(77))

Recorded Means a permanent record using mechanical or electronic equipment to provide a

totalized reading, as well as a record of instantaneous readings

Report Report results of analysis

Responsible Corporate

Officer^a

Means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or

decision making functions for the corporation

The Responsible Corporate Officer can also be the manager of one or more manufacturing, production, or operating facilities if the requirements of

18 AAC 83.385(a)(1)(B)(i)-(iii) are met.

Secondary Recreation^b Means activities in which incidental water use can occur. Secondary recreation

includes boating, camping, hunting, hiking, wading, and recreational fishing.

Secondary contact recreation does not include fish consumption.

Settleable Solids^b Means solid material of organic or mineral origin that is transported by and deposited

> from water, as measured by the volumetric Imhoff cone method and at the method detection limits specified in method 2540(F), Standard Methods for the Examination of

Water and Wastewater, 18th edition (1992), adopted by reference in 18 AAC

70.020(c)(1)

Severe Property

Damage^a

Means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

Sheenb Means an iridescent appearance on the water surface

Shellfish^b Means a species of crustacean, mollusk, or other aquatic invertebrate with a shell or

shell-like exoskeleton in any stage of its life cycle

Suspended Solids Means insoluble solids that either float on the surface of, or are in suspension in, water,

> wastewater, or other liquids. The quantity of material removed from wastewater in a laboratory test, as prescribed in Standard Methods for the Examination of Water and

Wastewater and referred to as nonfilterable.

Total Suspended Solids

(TSS)g

Means a measure of the filterable solids present in a sample, as determined by the

method specified in 40 CFR Part 136

Toxic Unit, Chronic

(TUc)e

Means the reciprocal of the effluent concentration that causes no observable effect on the test organisms by the end of the chronic exposure period (i.e., 100/NOEC)

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual

Twice per year Means two time periods during the calendar year: October through April and May

through September

Upset^a Means an exceptional incident in which there is unintentional and temporary

noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities,

inadequate treatment facilities, lack of preventive maintenance, or careless or improper

operation.

Water Depth Means the depth of the water between the surface and the seafloor as measured at

MLLW

Wastewater Treatment Means any process to which wastewater is subjected in order to remove or alter its

objectionable constituents and make it suitable for subsequent use or acceptable for

discharge to the environment

Waters of the United States or Waters of the U.S. Has the meaning given in 18 AAC 83.990(77)

Water Recreation^b

See contact recreation or secondary recreation

Water Supply^b

Means any of the waters of the United States that are designated in 18 AAC 70 to be protected for fresh water or marine water uses. Water supply includes waters used for drinking, culinary, food processing, agricultural, aquacultural, seafood processing, and industrial purposes. Water supply does not necessarily mean that water in a waterbody that is protected as a supply for the uses listed in this paragraph is safe to drink in its

natural state.

a) See 18 AAC 83

b) See 18 AAC 70.990

c) See 18 AAC 72.990

d) See 40 CFR Part 136

e) See EPA Technical Support Document

f) See Standard Methods for the Examination of Water and Wastewater 18th Edition

g) See EPA Permit Writers Manual