

United States Environmental Protection Agency Region 10
1200 Sixth Avenue
Seattle, Washington 98101

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 et seq., as amended by the Water Quality Act of 1987, P.L. 100-4 (the Act or CWA),

Ketchikan Pulp Company

is authorized to discharge from the Ketchikan Pulp Company Ward Cove Landfill at the following locations:

<u>Outfalls</u>	<u>Discharge</u>	<u>Receiving Water</u>	<u>Latitude</u>	<u>Longitude</u>
001	treated leachate	Ward Cove	55° 24' 15"	131° 43' 45"
SWL4	storm water	unnamed stream	55° 24' 10" N	131° 44' 10" W
SWL6B	storm water	unnamed stream	55° 24' 10" N	131° 44' 10" W
SWL11	storm water	unnamed stream	55° 24' 10" N	131° 44' 10" W
SWL12	storm water	unnamed stream	55° 24' 10" N	131° 44' 10" W

in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

The permit shall become effective **October 1, 2004**

This permit and the authorization to discharge shall expire at midnight, **September 30, 2009**. The permittee shall reapply for permit reissuance on or before **April 30, 2009**, 180 days before the expiration of this permit if the permittee intends to continue operations and discharges at the facility beyond the term of this permit.

Signed this 23rd day of August, 2004,

/s/ Robert R. Robichaud for
Michael F. Gearheard
Director
Office of Water and Watersheds, Region 10
U.S. Environmental Protection Agency

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I. EFFLUENT LIMITATIONS

- A. During the term of the permit, the Permittee is authorized to discharge pollutants from the outfalls specified herein to Ward Cove and to unnamed streams, tributary to Ward Cove, within the limits and subject to the conditions set forth herein. This permit does not authorize the 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 disclosed in the permit application of April 16, 2002, or any pollutants that are ordinarily not present in the waste streams.
- B. The authorized discharges shall not, alone or in combination with other substances or wastes, at any point outside an approved mixing zone, make the receiving waters unfit or unsafe for use; cause a film or sheen on the surface of the waters or adjoining shorelines; cause leaching of toxic or deleterious substances; cause a sludge, solid, or emulsion to be deposited beneath or upon the surface of the water, within the water column, on the bottom, or upon adjoining shorelines.
- C. Discharges of treated landfill leachate through Outfall 001 shall not exceed the effluent limitations presented in Table 1, below. These limits take into consideration an authorized mixing zone that shall have a radius of approximately 16 feet (5 meters) and extend approximately 16 feet above the point of discharge, which will be directed upward and will be located between 1.5 and 3 feet above the seabed at a depth of at least 30 feet mean lower low water (MLLW), as described by the Permittee's Mixing Zone Application of April 15, 2002.

Table 1 - Effluent Limits, Outfall 001

Parameter	Units	Effluent Limitations	
		Maximum Daily	Monthly Average
Flow	mgd	-	0.18
Color	color units		166
BOD ₅	mg/L	140	37
	lbs/day	-	56
TSS	mg/L	88	27
	lbs/day	-	41
Ammonia (as N)	mg/L	10	4.9
	lbs/day	-	7.4
á-Terpineol	mg/L	0.033	0.016
	lbs/day	-	0.02
Benzoic Acid	mg/L	0.12	0.071

Parameter	Units	Effluent Limitations	
		Maximum Daily	Monthly Average
	lbs/day	-	0.11
p-Cresol	mg/L	0.025	0.014
	lbs/day	-	0.02
Phenol	mg/L	0.026	0.015
	lbs/day	-	0.02
Zinc	mg/L	0.20	0.11
	lbs/day	-	0.17
pH	pH units	6.5 – 8.5	6.5 – 8.5
Chronic Toxicity	TUc	40	20

- D. The discharge through Outfall 001 shall have a minimum dissolved oxygen concentration of 5.0 mg/L.
- E. Stormwater discharges through Outfalls SWL4, SWL6B, SWL11, and SWL12 shall be managed by implementation of a current Stormwater Pollution Prevention Plan, to be included in the Best Management Practices Plan, as described in III, below.

II. MONITORING REQUIREMENTS

- A. The Permittee shall monitor discharges through Outfall 001, storm water background samples, and storm water discharges through Outfalls SWL4, SWL6B, SWL11, and SWL12, as described below. The primary objectives of the monitoring requirements are to:
- determine compliance with provisions of the NPDES permit
 - provide further characterization of discharges from the facility
 - determine treatment system performance
 - assess impacts to receiving water quality
 - develop data for permit reissuance
- B. Monitoring Requirements – Outfall 001

The Permittee shall monitor effluent discharged through Outfall 001 in accordance with the requirements of Table 2, below.

Table 2 - Monitoring Requirements, Outfall 001

Parameter	Monitoring Requirement	
	Sample Frequency	Sample Type
Avg and Max Daily Flow	continuous	metered
Color	monthly ¹	grab
BOD ₅	quarterly	grab
TSS	monthly	grab
Ammonia (as N)	quarterly	grab
á-Terpineol	quarterly	grab
Benzoic Acid	quarterly	grab
p-Cresol	quarterly	grab
Phenol	quarterly	grab
Zinc	quarterly	grab
pH	monthly ¹	grab
COD	2x/yr	grab
Chronic Toxicity	2x/yr	grab
Metals ² and Manganese	2x/yr	grab
Priority Pollutants ³	2 nd and 4 th yrs of permit term ⁴	grab

footnotes:

- ¹ Color and pH measurements may be performed on site using procedures from 40 CFR 136.
- ² Metals are those pollutants identified as Compound Nos. 1–13 by the National Toxics Rule at 40 CFR 131.36. Results for metals shall be reported as total recoverable metal. Monitoring for zinc, which is required on a quarterly basis, should not be duplicated on those two occasions, when the full scan for metals is required.
- ³ Priority pollutants are those pollutants identified as Compound Nos. 1–126 by the National Toxics Rule at 40 CFR 131.36. Monitoring for the metals, which is required two times per year, should not be duplicated, on those occasions when the full scan for the priority toxic pollutants is required.
- ⁴ Samples shall be collected in the second and fourth years of the permit term, one time in a wet season and one time in a dry season, for analysis of the priority pollutants. Sample collection for priority pollutant analyses shall also occur simultaneously with bi-annual sample collection for chronic toxicity testing.

C. Monitoring Requirements – Storm Water Outfalls and Storm Water Background

The Permittee shall monitor effluent discharged through Outfalls SWL4, SWLB, SWL11, and SWL12, as well storm water at the background location SWL10A, in accordance with the requirements of Table 3, below.

Table 3 - Monitoring Requirements – Storm Water Outfalls

Parameter	Sample Frequency ¹	Sample Type ²
Flow	2x/yr	as appropriate
Color	2x/yr	grab
pH	2x/yr	grab
BOD ₅	2x/yr	grab
COD	2x/yr	grab
TSS	2x/yr	grab
Manganese	2x/yr	grab
Metals ³	1x/yr	grab

footnotes:

¹ Storm water samples shall be collected during at least 2 storm events per year, as described in E. Storm Water Monitoring Program, below.

² Grab samples shall be collected as soon as reasonably possible following the onset of a measurable storm event (resulting from at least 0.1 inches of precipitation).

³ Metals are those pollutants identified as Compound Nos. 1 – 13 by the National Toxics Rule at 40 CFR 131.36. Results for metals shall be reported as total recoverable metal.

In addition, in accordance with Section II. E of this permit, the Discharger shall conduct visual examinations of storm water discharges from storm water Outfalls SWL4, SWLB, SWL11, and SWL12. Visual examination must be made of storm water samples. The examination must document observations of color, odor, clarity, floating and settled solids, suspended solids, foam, oil, sheen, and other obvious indicators of storm water pollution. Examination reports must be maintained onsite with the SWPPP and include the examination date and time, examination personnel, the nature of the discharge (runoff or snowmelt), visual quality of the storm water discharge, and probable sources of any observed storm water contamination.

D. Receiving Water Monitoring

Samples shall be collected in the second and fourth years of the Permit from Ward Cove and analyzed for the metals identified as Compound Nos. 1 – 13 by the National Toxics Rule at 40 CFR 131.36, plus manganese. Samples must be collected at a similar depth as Outfall 001 and in a nearby location to Outfall 001, so that analytical results will be representative of background conditions for the discharge.

E. Storm Water Monitoring Program

1. The Discharger shall monitor at least 2 storm events per year. Sampling events must be at least one week apart and follow an interval of at least 72 hours since the previous measurable storm event. Sampling events shall be timed so that sampling occurs during both the dry and wet seasons.
2. Samples shall be collected as soon as reasonably possible following the onset of a storm event. Samples of storm water shall be taken before mixing with receiving waters; and measurement or estimation of the instantaneous and 24-hour flow during each sampling event shall be recorded.
3. For the purpose of storm water monitoring, a storm event shall be an occurrence of at least 0.1 inches precipitation, which allows collection of a sample from the storm water outfalls.

F. Analytical Methods

Monitoring must be conducted in accordance with test procedures established at 40 CFR 136, unless other test procedures have been specified in this permit.

G. Additional Monitoring by Permittee

If the Permittee monitors any pollutant more frequently than required by this permit, using test procedures established at 40 CFR 136 or as specified by this permit, the Permittee must include results of this monitoring in the calculation and reporting of the data submitted in the monthly DMRs.

Upon a request by the Director, the Permittee must submit results of any other sampling and analysis, regardless of the test method used.

H. Whole Effluent Chronic Toxicity Monitoring

The Permittee must conduct chronic toxicity testing on effluent samples from Outfall 001 in accordance with the procedures, below.

1. Toxicity testing must be performed on 24 hour composite samples of effluent two times per year at approximately six month intervals. Samples shall be collected at the same time as those samples collected for monthly analyses required by Table 2.
2. Chronic Test Species and Methods
 - a. The Permittee must conduct initial short term tests with two marine species, such as, purple urchin sperm cell and blue mussel; and after this screening procedure, subsequent toxicity testing shall be conducted using the most sensitive species.
 - b. The presence of chronic toxicity must be determined as specified in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, 2002, Fourth Edition, EPA-821-R-02-014, Office of Water, Washington, D.C. If critical life stage tests are conducted using the blue mussel, ASTM procedure E 724-98 shall be followed.
 - c. Results must be reported in TUc (chronic toxicity units), where $TUc = 100 / NOEC$. See Section V for a definition of NOEC.
3. Quality Assurance
 - a. The toxicity testing on each organism must include a series of five test dilutions and a control to reflect a mixing zone that provides dilution of 25 to 1 dilution. Appropriate dilutions are 8, 4, 2, 1, and 0.5 percent effluent in addition to the control (0 percent effluent).
 - b. All quality assurance criteria and statistical analyses used for chronic toxicity testing and reference toxicant tests must be in accordance with *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, 2002, Third Edition, EPA-821-R-02-014, and individual test protocols.
 - c. In addition to those quality assurance measures specified in the methodology, the following quality assurance procedures must be followed:
 - i. If organisms are not cultured in house, concurrent testing with reference toxicants must be conducted. If organisms are cultured in house, monthly reference toxicant testing is sufficient. Reference toxicant tests must be conducted using the same test conditions as the effluent toxicity tests.
 - ii. If either of the reference toxicant tests or the effluent tests do not meet all test acceptability criteria as specified in the test methods manual, the Permittee must re-sample and re-test within 14 days of receipt of the test results.
 - iii. Control and lab dilution water must be receiving water or lab water, as appropriate, as described in the manual. If the dilution water used is different

from the culture water, a second control, using culture water, must also be used. Receiving water may be used as control and dilution water upon notification of EPA and ADEC. In no case shall water that has not met test acceptability criteria be used for either dilution or control.

4. Accelerated Testing

- a. If chronic toxicity is detected above the effluent limitations of this permit, the Permittee must conduct four additional biweekly tests over an eight week period. This accelerated testing must be initiated within two weeks of receipt of the test results that indicate an exceedance.
- b. The Permittee must notify EPA and ADEC of the exceedance in writing within two weeks of receipt of test results. The notice must include the following information.
 - i. A status report on any actions required by the permit with a schedule for actions not yet completed.
 - ii. A description of any additional actions the Permittee has taken or will take to investigate and correct the cause(s) of the toxicity.
 - iii. Where no actions have been taken, a discussion of the reasons for not taking action.
- c. If none of the four accelerated tests exceed effluent limitations, the Permittee may return to the normal testing frequency. If any of the four test exceed the limitation, then the toxicity reduction evaluation (TRE) requirements, below in II. G. 5, shall apply.

5. Toxicity Reduction Evaluation (TRE) and Toxicity Identification Evaluation (TIE).

- a. If the chronic toxicity limitation is exceeded during accelerate testing under Section II. G. 4, the Permittee must initiate a TRE in accordance with *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations*, (EPA/600/2-88/070) within two weeks of the exceedance. At a minimum, the TRE must include:
 - i. Further actions to investigate and identify the cause of toxicity;
 - ii. Actions the Permittee will take to mitigate the impact of the discharge and to prevent the recurrence of toxicity; and
 - iii. A schedule for these actions.

- b. If a TRE is initiated prior to completion of the accelerated testing, the accelerated testing methods may be terminated, or used as necessary in performing the TRE.
- c. The Permittee may initiate a TIE as part of the TRE process. Any TIE must be performed in accordance with EPA guidance manuals, *Toxicity Identification Evaluation; Characterization of Chronically Toxic Effluents, Phase I* (EPA/600/6-91/005F), *Methods for Aquatic Toxicity Identification Evaluations, Phase II: Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA/600/R-92/080), and *Methods for Aquatic Toxicity Identification Evaluations, Phase III: Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity* (EPA-600/R-92/081).

5. Reporting

- a. The Permittee must submit the results of any accelerated testing, under Section II. G. 4, within two weeks of receipt of results from the lab. The full report must be submitted within 4 weeks of receipt of the results from the lab. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, the result of the investigation must be submitted with the DMR for the month following completion of the investigation.
- b. The report of toxicity test results must include all relevant test information described for report preparation in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms*, 2002, Third Edition, EPA-821-R-02-014, Office of Water, Washington, D.C..

I. Representative Sampling

Samples and measurements must be representative of the volume and nature of the monitored discharge.

In order to ensure that the effluent limits set forth in this permit are not violated at times other than when routine samples are taken, the Permittee must collect additional samples at the appropriate outfall whenever any discharge occurs that may reasonably be expected to cause or contribute to a violation that is unlikely to be detected by a routine sample. The Permittee must analyze the additional samples for those parameters limited in Section I of this permit, as appropriate, that are likely to be affected by the discharge.

The Permittee must make a reasonable effort to collect such additional samples as soon as the spill, discharge, or bypassed effluent reaches the outfall. These samples must be analyzed and results must be reported in accordance with the monitoring and reporting provisions of this permit.

J. Quality Assurance Plan

The Permittee shall develop a Quality Assurance Plan (QAP) that establishes quality control and assurance procedures for water quality monitoring required by this permit. The QAP shall be completed within 90 days of the effective date of this permit, and the Permittee shall notify EPA of completion of the QAP, also within 90 days of the effective date of this permit.

1. Purpose. The purpose of quality assurance and control requirements is to assure the integrity and quality of the data collected in the monitoring required by this permit and to assist in planning for the collection and analysis of water quality samples.
2. Requirements.
 - a. Throughout all sample collection and analytical activities, the Permittee shall use the EPA-approved quality assurance, quality control, and chain-of-custody procedures described in EPA QA/R-5 EPA (Requirements for Quality Assurance Project Plans) and EPA QA/G-5 (Guidance on Quality Assurance Project Plans). These guidance documents can be found on the Internet at <http://www.epa.gov/r10earth/offices/oea/qaindex.htm> and <http://www.epa.gov/r10earth/offices/oea/r0qahome.htm>.
 - b. At a minimum, the following information must be provided in the QAP:
 - i. Sample locations (map and physical description, which includes station identification number, latitude, and longitude)
 - ii. Sample frequency
 - iii. Sample handling, storage, transport, and chain-of-custody procedures
 - iv. Sample preparation and analytical methods, detection limits, and volume of sample required for each analyte in each medium
 - v. Number of QC samples, spikes and replicates required for analysis
 - vi. Documentation requirements for the laboratory (i.e., retention or holding time, QA/QC procedures for test methods, volume of sample collected, field test blanks, etc.)
 - vii. Organizational responsibilities; i.e., who is responsible for QA/QC activities, and
 - viii. Names, addresses, and phone numbers of laboratories used or proposed for use by the Permittee.

- c. The Permittee is responsible for reviewing and updating the QAP to ensure all material is current and applicable.
 - d. The Permittee shall receive and hold all laboratory bench sheets used in the analyses and maintain these records for inspection by EPA or ADEC for a period of at least 5 years.
 - e. The Permittee must amend the QAP whenever there is a modification in sample collection or analytical methods, or conditions or requirements of the QAP.
 - f. Copies of the most current QAP must be kept on site and must be made available to the Director and ADEC upon request.
3. EPA Support of Quality Assurance and Control.

The Permittee may obtain copies of all references cited in this permit from the following address:

Quality and Data Management Program
Office of Environmental Assessment
U.S. EPA, Region 10 1200 6th Avenue, OEA-095
Seattle, Washington 98101.

J. Reporting of Monitoring Results

The Permittee must summarize monitoring results each month on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1) or equivalent. The Permittee must submit reports on a monthly basis, postmarked on the 10th day of the following month. The Permittee must sign and certify all DMRs, and all other reports, in accordance with the requirements of Section IV. W of this permit (Signatory Requirements). The Permittee must submit legible originals of these documents to the Director, Office of Water, with copies to ADEC at the following addresses:

U.S. EPA, Region 10
1200 Sixth Avenue, OCE-133
Seattle, WA 98101
Attn: PCS Data Entry Team

ADEC, Division of Water
Wastewater Discharge Permit Program
610 University Avenue
Fairbanks, AK 99709

III. BEST MANAGEMENT PRACTICES PLAN

Within 90 days of the effective date of this permit, the Permittee shall develop and implement a Best Management Practices (BMP) Plan to prevent and/or minimize the generation and release of pollutants from the facility to waters of the United States through normal operations and ancillary activities. The Permittee shall notify EPA of completion of the BMP Plan, also within 90 days of the effective date of this permit.

A. Purpose and Objectives

Through implementation of the BMP Plan requirements, the Permittee shall ensure that methods of pollution prevention, control, and treatment will be applied to all wastewaters to be discharged. The Permittee shall prevent or minimize the generation and discharge of wastes and pollutants from the facility to the waters of the United States through implementation of a BMP Plan. Pollution should be prevented or reduced at the source or recycled in an environmentally safe manner whenever feasible. Disposal of wastes into the environment should be conducted in such a way as to have a minimal environmental impact.

The Permittee shall develop its BMP Plan consistent with these objectives.

1. The number and quantity of pollutants and the toxicity of effluent generated, discharged, or potentially discharged at the facility shall be minimized by the Permittee to the extent feasible by managing each waste stream in the most appropriate manner.
2. Any Standard Operating Procedures (SOPs) shall ensure proper operation and maintenance of the facility and the control of the discharge or potential release of pollutants to the receiving waters.
3. The following evaluations shall be completed and considered in preparation of the BMP Plan.
 - a. Each facility component or system shall be examined for its pollutant minimization opportunities and its potential for causing a release of significant amounts of pollutants to receiving waters due to the equipment failure, improper operation, and natural phenomena such as rain or snowfall. Systems include the leachate collection and treatment processes, the landfill cover, as well as the storm water collection and conveyance systems.
 - b. Equipment and systems shall be examined for potential failure and any resulting release of pollutants to receiving waters. The BMP Plan should address each such scenario resulting in the release of pollutants and include control and abatement steps to be implemented in such circumstances.

B. Requirements

1. The BMP plan shall be consistent with the general guidance contained in the publication entitled "Guidance Manual for Developing Best Management Practices," EPA 1993, or its subsequent revisions.
2. The BMP Plan will be developed in accordance with good engineering practices and will be recorded as a written plan and include necessary plot plans, drawings, or maps. The BMP Plan will be organized and written with the following structure:
 - a. Name, NPDES permit number and location of the facility;
 - b. Statement of BMP policy;
 - c. Materials accounting of the inputs, processes, and outputs of the facility (a.k.a., mass balance assessment);
 - d. Identification and assessment of potential effects of the pollutant discharges;
 - e. Specific management practices and standard operating procedures to achieve the above objectives, including, but not limited to,
 - (1) the modification of equipment, facilities, technology, processes, and procedures, and
 - (2) the improvement in management, inventory control, materials handling, or general operational phases of the facility;
 - f. Good housekeeping;
 - g. Preventative maintenance;
 - h. Inspections and records; and
 - i. Employee training.

The BMP Plan will include the following provisions concerning its review:

- a. The facility manager and appropriate staff will review and approve the final Plan, and
- b. The Plan will include a statement that the above review has been completed and that the BMP Plan fulfills the requirements set forth in the permit. This statement shall be certified by the dated signature of the facility manager.

C. Storm Water Pollution Prevention Plan

A storm water pollution prevention plan (SWPPP) shall be prepared in accordance with good engineering practices and shall be incorporated into the facility's overall BMP Plan. The SWPPP shall meet the requirements of IV. Storm Water Pollution Prevention Plan, below.

D. Documentation

The Permittee must maintain a copy of the BMP Plan at the facility and make it available to EPA, ADEC, or an authorized representative, upon request.

E. Modification of the BMP Plan.

The Permittee shall amend the BMP Plan whenever there is a change in the facility, its operations, or other circumstances which materially increase the generation of pollutants and their release or potential release to the receiving waters. The Permittee shall also amend the BMP Plan when facility operations covered by the BMP Plan change. Any such changes to the BMP Plan will be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan shall be reviewed and approved by the facility manager.

If a BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release and potential release to the receiving waters and/or the specific requirements above, the permit and/or the BMP Plan will be subject to modification to incorporate revised BMP requirements.

F. Certification and Signatory Requirements.

The Permittee shall submit to EPA written certification, signed by a principal officer or a duly appointed representative of the Permittee, of the existence and implementation of its BMP Plan within 30 days of the development of the BMP Plan. The Permittee shall maintain a copy of its BMP Plan at its facility and shall make the plan available to EPA and ADEC for review and approval upon request.

IV. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. SWPPP Requirement

A SWPPP shall be prepared in accordance with good engineering practices and must:

1. Identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the facility,
2. Describe and ensure implementation of practices to reduce the pollutants in storm water discharges from the facility, and

3. Assure compliance with the terms of this Order that pertain to storm water.

B. Contents of SWPPP

The SWPPP must include the following:

1. By name or title, the SWPPP must identify staff individual(s) responsible for developing, implementing, maintaining, and revising the facility's SWPPP.
2. The SWPPP must describe the nature of activities that occur at the facility.
3. The SWPPP must include a Site Map which identifies: directions of storm water flow, location of structural BMPs; locations of surface water bodies; locations of where significant materials are exposed to precipitation; locations of storm water outfalls and the approximate outline of the area draining to each outfall; location and description of non-storm water discharges; and location and source of runoff onto the facility property from adjacent property.
4. The SWPPP must identify potential pollutants in storm water and potential pollutant sources on your facility. Such sources may include areas where potential leaks of landfill leachate could contribute pollutants to storm water discharges.
5. The SWPPP must include a summary of all existing storm water data generated during the term of this Order.
6. The SWPPP must describe the type and location of existing non-structural and structural best management practices (BMPs) in place for each of the potential pollutant sources on your facility. For areas where BMPs are not currently in place, describe BMPs that you will use to control pollutants in storm water discharges.
7. The SWPPP must require on-going and permanent maintenance of the limestone lining within the storm water check dams of the landfill area or implementation of other BMPs that will achieve equivalent protection from pH depressions in storm water runoff.
8. The following types of structural and non-structural BMPs must be considered for implementation at your facility. In the SWPPP, describe how each is, or will be, implemented; and if any of these BMPs are not appropriate for the facility, explain why they are not appropriate. If BMPs are being used or planned at the facility, which are not listed here, describe them in the SWPPP.
 - a. Good Housekeeping. All exposed areas that could contribute pollutants to storm water discharges must be kept in a clean and orderly manner.

- b. **Minimizing Exposure.** Where practicable, industrial activity and potential sources of pollutants should be protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, or runoff.
 - c. **Preventative Maintenance.** The facility should have in place a preventative maintenance program which requires timely inspection and maintenance of storm water management devices.
 - d. **Spill Prevention and Response Procedures.** Procedures should be developed for implementation following spills and leaks, including leaks of landfill leachate, that could contribute pollutants to storm water discharges. If appropriate, procedures should address materials handling, storage requirements, secondary containment, and equipment intended to minimize spills and leaks.
 - e. **Routine Facility Inspections.** The SWPPP must identify the interval between inspections and require routine inspection of all areas of the facility where pollutants are potentially exposed to storm water. Each inspection must include an evaluation of BMPs. Results of inspections and the corrective actions taken in response to deficiencies or opportunities for improvement must be documented in the SWPPP.
 - f. **Employee Training.** The SWPPP must describe the facility's employee training program regarding storm water pollution prevention. Training should inform employees of the components and goals of the SWPPP.
 - g. **Sediment and Erosion Control.** Identify areas, which have significant potential for soil erosion due to topography, land disturbance, or other factors, and describe the structural, vegetative, and/or stabilization BMPs that are or will be implemented to limit erosion.
 - h. **Management of Runoff.** Describe the traditional storm water management practices that currently exist or are planned for your facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges.
 - i. **Example BMPs.** BMPs may include, but are not limited to, storm water detention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff onsite, and sequential systems that combine several practices.
9. All BMPs identified in the SWPPP as in place or planned for use at the facility must be maintained in effective operating condition.
 10. The SWPPP must include a certification by the facility manager that all storm water discharges (outfalls) have been evaluated for the presence of non-storm water. In the circumstance of the Ward Cove Landfill, non-storm water includes landfill leachate. If such a certification cannot be provided, the Discharger must

notify the Regional Administrator of the USEPA within 180 days of the effective date of this permit.

11. The SWPPP must describe whether listed endangered or threatened species, or critical habitat, are found in proximity to the facility; whether such species may be affected by storm water discharges from the facility or storm water discharge-related activities; and the measures undertaken to protect listed endangered or threatened species, or critical habitat.
12. The SWPPP must describe whether storm water discharges or storm water-related activities have an effect on property that is listed or eligible for listing on the National Register of Historic Places; agreements made with the State Historic Preservation Officer or other responsible agency to mitigate those effects; and the measures necessary to avoid or minimize adverse impacts on places listed, or eligible for listing, on the National Register of Historic Places.
13. The SWPPP must be consistent with applicable State, Tribal, and/or local storm water, waste disposal, sanitary sewer, or septic system regulations to the extent these apply to the facility and are more stringent than the requirements of this NPDES permit.
14. Facility inspections must occur at least one time per year by qualified personnel (either employees or outside consultants), who are knowledgeable and possess the skills to assess conditions at the facility that could impact storm water quality and assess the effectiveness of BMPs in use to control the quality of storm water discharges. Based on the results of each inspection, the SWPPP must be modified to include additional or modified BMPs designed to correct problems identified. Such revisions to the SWPPP must be completed within 14 days following the inspection and implementation of new or modified BMPs must be completed not more than 12 weeks after completion of the site inspection. A report summarizing the scope of the inspection, the names of personnel making the inspection, the date of the inspection, and major observations relating to implementation of the SWPPP must be prepared and retained as part of the SWPPP.
15. The SWPPP must be amended whenever there is a change in design, construction, operation, or maintenance at the facility which has a significant effect on the discharge, or potential for discharge, of pollutants from the facility. The SWPPP must also be amended whenever State or federal officials, during authorized inspections, monitoring, or other investigations, determine the SWPPP is ineffective in eliminating or significantly minimizing pollutants introduced to storm water runoff or is otherwise not achieving the general objectives of controlling pollutants in discharges from the facility.
16. The SWPPP must be kept onsite or locally so that it is available to the Regional Administrator of the U.S. EPA or an authorized representative for review at the

time of an onsite inspection. The SWPPP must be available upon request to the Regional Administrator of the U.S. EPA or an authorized representative, the State, Tribal, or local agencies approving storm water management plans; and in the interest of the public's right to know, a copy must be provided to the public if such a request is received in writing.

V. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply

The Permittee shall comply with all conditions of this Permit. Any permit noncompliance constitutes a violation of the CWA and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The Permittee shall give reasonable advance notice to the Director and ADEC of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

B. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of this Permit.

C. Duty to Mitigate.

The 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.

D. Toxic Pollutants

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

E. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

F. Bypass of Wastewater Treatment

1. Bypass not exceeding limitations. The Permittee may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2 and 3, below.
2. Notice.
 - a. Anticipated bypass. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - b. Unanticipated bypass. The Permittee shall submit notice of an unanticipated bypass as required under Section V. S.
3. Prohibition of Bypass.
 - a. Bypass is prohibited and EPA or ADEC may take enforcement action against the Permittee for a bypass, unless:
 - (1) The bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment shall have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The Permittee submitted notices as required under paragraph 2 of this Part.
 - b. EPA and ADEC may approve an anticipated bypass, after considering its adverse effects, if EPA and ADEC determine that it will meet the three conditions listed above in paragraph 3. a of this Part.

G. Upset Conditions

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations, if the Permittee meets the requirements of paragraph 2 of this Part. No determination made during administrative review of claims, that noncompliance was caused by upset and before an action for noncompliance, is final administrative action subject to judicial review.

2. Conditions necessary for a demonstration of upset. To establish the affirmative defense of upset, the Permittee shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the Permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The Permittee submitted notice of the upset as required under Section IV. S, and
 - d. The Permittee complied with any remedial measures required under Section IV. C (Duty to Mitigate).
3. Burden of proof. In any enforcement proceeding, the Permittee has the burden of proof in seeking to establish the occurrence of an upset.

H. Inspection and Entry

The Permittee shall allow EPA, ADEC, or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

I. Penalties for Violations of Permit Conditions.

1. Civil and Administrative Penalties

- a. Civil Penalties. Pursuant to 40 CFR 19 and the Act, any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed the maximum

amounts authorized by Section 309(d) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$32,500 per day for each violation).

- b. **Administrative Penalties.** Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Pursuant to 40 CFR 19 and the Act, administrative penalties for Class I violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(A) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$11,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$32,500). Pursuant to 40 CFR 19 and the Act, penalties for Class II violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(B) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. § 2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. § 3701 note) (currently \$11,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$157,500).

2. **Criminal Penalties:**

- a. **Negligent Violations.** The Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than 2 years, or both.
- b. **Knowing Violations.** Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both.
- c. **Knowing Endangerment.** Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15

years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the Act, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- d. False Statements. The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both. The Act further provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

J. Duty to Provide Information

The Permittee shall furnish to EPA and ADEC, within the time specified in the request, any information that EPA or ADEC may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to EPA or ADEC, upon request, copies of records required to be kept by this permit.

K. Records Content

All effluent monitoring records shall bear the hand-written signature of the person who prepared them. In addition, all records of monitoring information shall include:

1. Date, exact place and time of sampling or measurements,
2. Names of the individual(s) who performed the sampling or measurements,
3. Date(s) analyses were performed,
4. Names of the individual(s) who performed the analyses,
5. Analytical techniques or methods used, and
6. Results of such analyses.

The Permittee shall submit its monthly Discharge Monitoring Report by the 10th of the month following the month of monitoring. The Permittee shall submit its annual report by February 14th of the year following each year of operation and discharge under this permit. The Permittee shall submit its original reports to:

U.S. Environmental Protection Agency Region 10
NPDES Compliance Unit (OCE-133)
1200 Sixth Avenue
Seattle, Washington 98101
Attn: PCS Data Entry Team

and, a copy to:

Alaska Department of Environmental Conservation
Attention: Division of Water / Wastewater Discharge Permit Program
555 Cordova Street
Anchorage, Alaska 99501

M. Submittal of Reports

The Permittee shall provide, within a reasonable time, any information that the EPA or ADEC requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit.

N. Retention of Records and Reports

The Permittee shall retain records of all monitoring information, including but not limited to, all calibration and maintenance records, copies of all reports required by this permit, a copy of this permit, and records of all data used to complete the application for this permit, for a period of at least five years from the date of the sample, measurement, report or application, or for the term of this permit, whichever is longer. This period may be extended by request of EPA or ADEC at any time.

O. On-Site Availability of Records and Reports

The Permittee shall allow the EPA or an authorized representative, upon presentation of credentials and other documents as may be required by law, at reasonable times, to have access to and copy any records that must be kept under the conditions of this permit.

P. Availability of Reports for Public Review

Except for data determined to be confidential under 40 CFR 2, all reports prepared in accordance with this permit shall be available for public inspection at the offices of the State water pollution control agency and EPA and ADEC. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.

Q. Planned Changes

The Permittee shall give notice to EPA and ADEC as soon as possible of any planned physical alterations or additions to the permitted facility whenever:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as determined in 40 CFR 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this permit.

The Permittee shall give notice to EPA and ADEC as soon as possible of any planned changes in process or chemical use whenever such change could significantly change the nature or increase the quantity of pollutants discharged.

R. Changes in the Discharge of Toxic Substances

The Permittee must notify the Director and ADEC as soon as it knows, or has reason to believe:

1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge may reasonably be expected to exceed the highest of the following notification levels.
 - a. One hundred micrograms per liter (100 µg/L);
 - b. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred 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;
 - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122,21(g)(7); or
 - d. The level established by the Director in accordance with 40 CFR 122.44(f).
2. That any activity has occurred or will occur that will result in any discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in the permit, if that discharge may reasonably be expected to exceed the highest of the following notification levels.
 - a. Five hundred micrograms per liter (500 µg/L);
 - b. One milligram per liter (1 mg/L) for antimony;

- c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
- d. The level established by the Director in accordance with 40 CFR 122.44(f).

S. Anticipated Noncompliance.

The Permittee shall also give advance notice to EPA and ADEC of any planned changes in the permitted facility or activity that may result in noncompliance with this permit.

T. Twenty Four Hour Notice of Non-Compliance — Reporting

1. The Permittee shall report the following occurrences of noncompliance to EPA by telephone (206-553-1846) and to ADEC (907-465-5300) within 24 hours from the time the Permittee becomes aware of the circumstances.
 - a. Any discharge(s) to the receiving waters not authorized for coverage under this permit,
 - b. Any noncompliance that may endanger human health or the environment,
 - c. Any unanticipated bypass that results in or contributes to an exceedance of an effluent limitation in this permit,
 - d. Any upset that results in or contributes to an exceedance of an effluent limitation in this permit, or
 - e. Any violation of a maximum daily discharge limitation of this permit.
2. The Permittee shall provide a written submission within five days of the time that the Permittee becomes aware of any event required to be reported under paragraph 1, above. The written submission shall contain:
 - a. a description of the noncompliance and its cause,
 - b. the period of noncompliance, including exact dates and times,
 - c. the estimated time noncompliance is expected to continue, if it has not been corrected, and
 - d. steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.

3. EPA may, at its sole discretion, waive the written report on a case-by-case basis, if the oral report has been received within 24 hours by the NPDES Compliance Section in Seattle, Washington, by telephone, (206) 553-1846.
4. The Permittee shall report all instances of noncompliance, not required to be reported within 24 hours, with the annual report.

T. Permit Actions

This Permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

U. Duty to Reapply

If the Permittee intends to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The application shall be submitted to EPA at least 60 days before the expiration date of this permit. Receipt of a timely Notice of Intent will administratively extend authorization to discharge until a new permit is reissued.

V. Incorrect Information and Omissions

When the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or that it submitted incorrect information in a permit application or any report to EPA or ADEC, it shall promptly submit the omitted facts or corrected information.

W. Signatory Requirements

All applications, reports or information submitted to EPA and ADEC shall be signed and certified.

1. All permit applications shall be signed as follows:
 - a. For a corporation: by a principal corporate officer.
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
 - c. For a municipality, state, tribe, federal or other public agency: by either a principal executive officer or ranking elected official.
2. All reports required by this permit and other information requested by EPA or ADEC shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a person described above and submitted to EPA and ADEC, and
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the Permittee. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
3. Changes to authorization. If an authorization under subpart 2 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of subpart 2 must be submitted to EPA and ADEC prior to or together with any reports, information or applications to be signed by an authorized representative.
 4. Certification. Any person signing a document under this Part shall make the following certification:

"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."

X. Property Rights

The issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

Y. Severability

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this permit, shall not be affected thereby.

Z. Transfers

This Permit may be automatically transferred to a new permittee if:

1. The current permittee notifies EPA at least 60 days in advance of the proposed transfer date;

2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; and
3. EPA does not notify the existing permittee and the proposed new permittee of its intent to modify, or revoke and reissue the permit.

If the notice described in subpart 3 above is not received, the transfer is effective on the date specified in the agreement mentioned in subpart 2 above.

AA. Oil and Hazardous Substances Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject under Section 311 of the Clean Water Act or under the Oil Pollution Act.

BB. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Act.

CC. Reopening of the Permit

1. This permit shall be modified or, alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Act, as amended, if the effluent standard, limitation or requirement so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in this permit; or
 - b. Controls any pollutant or disposal method not addressed in this permit.

This permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

2. This permit may be reopened to adjust any effluent limitations if future water quality studies, waste load allocation determinations, or changes in water quality standards show the need for different requirements.

VI. DEFINITIONS and ACRONYMS

AAC means Alaska Administrative Code.

Act means the Clean Water Act (CWA)

ADEC means Alaska Department of Environmental Conservation. ADFG means Alaska Department of Fish and Game.

Administrator means the Administrator of the EPA, or an authorized representative.

Average Monthly Discharge Limitation 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 during that month.

BMP means best management practices – a schedule of activities, prohibitions, 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 and leaks, sludge or waste disposal, or drainage from raw material storage areas.

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. [See Part IV.G.]

CFR means the Code of Federal Regulations.

Chronic Toxicity Unit (TUC) is a measure of chronic toxicity. The number of chronic toxicity units in the effluent is calculated as 100/NOEC, where NOEC is measured in percent effluent.

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

Director means the EPA Director of the Office of Water, or an authorized representative.

DMR means Discharge Monitoring Report.

EPA means the United States Environmental Protection Agency.

Grab sample is an individual sample collected over a period of time not exceeding 15 minutes.

LC₅₀ means the concentration of toxicant that is lethal to 50 percent of the test organisms exposed in the time period prescribed by the test.

Maximum daily discharge limitation means the highest allowable daily discharge.

Method detection limit (MDL) 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.

Minimum level (ML) 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-specific sample weights, volumes, and processing steps have been followed.

MLLW means mean lower low water.

mg/L means milligrams per liter.

Mixing zone means the area adjacent to a discharge point where a receiving water may not meet all the water quality standards; wastes and water are given an area to mix so that the water quality standards are met at the mixing zone boundaries.

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.

NOEC means no observed effect concentration. The NOEC is the highest concentration of toxicant to which organisms are exposed in a chronic toxicity test that cause no observed adverse effects on the test organisms (i.e., the highest concentration of a toxicant in effluent where the values for the observed responses are not statistically different from the controls.)

QA/QC means quality assurance/quality control.

Regional Administrator means the Regional Administrator of Region 10 of the EPA, or the authorized representative of the Regional Administrator.

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit 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.

