

Permit Number: 1500-B
Expiration Date: October 31, 2017

GENERAL WATER POLLUTION CONTROL FACILITIES PERMIT

Department of Environmental Quality
811 SW Sixth Avenue
Portland, OR 97204

Issued pursuant to ORS 468B.050

ISSUED TO:

SOURCES COVERED BY THIS PERMIT:

This permit covers land application of water contaminated with petroleum hydrocarbons from groundwater or surface water cleanup operations. This permit also covers wastewater injection and bioremediation activities for petroleum hydrocarbon cleanup operations.

Lauri Aunan, Administrator
Water Quality Division

November 7, 2007
Effective Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify, or operate a wastewater collection, treatment, control and disposal system in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

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Unless specifically authorized by this permit, by another NPDES or WPCF permit, or by Oregon Administrative Rule, any other direct or indirect discharge to waters of the state is prohibited, including discharge to an underground injection control system.

HOW TO APPLY FOR COVERAGE UNDER THIS GENERAL PERMIT

New Permit Application Requirements

1. Persons seeking coverage under this 1500-B General Permit (2007-2017) for the first time and persons registered for coverage under the 1500-B General Permit issued in 2000 who did not submit a renewal application prior to the expiration date of the permit must do the following:
 - a. Applicants must complete an application. Applicants may obtain an Oregon Department of Environmental Quality (DEQ) application form by:
 - i. Mail or in person from the DEQ regional offices provided below, or
 - ii. Downloading the application from the DEQ website.
 - b. Applicants must submit a completed application to any of the DEQ offices provided below, requesting coverage under this permit at least 30 days prior to the planned activity. DEQ may accept applications filed less than 30 days from the planned activity on a case by case basis.
 - c. Applicants must submit all applicable fees with the application.
 - d. DEQ will review the application information and will take one of the following actions:
 - i. Issue written notice of approval.
 - ii. Request additional information.
 - iii. Deny coverage under this permit. The applicant will be notified if the applicant's operation cannot be approved for coverage under the General Permit, and that the applicant may need to obtain an individual permit.

Permit Renewal Requirements

1. Permittees registered under this General Permit can operate until the expiration date provided on the cover page (unless terminated or extended under Other Applicable Conditions, below). Persons requiring renewal of this General Permit must submit a complete renewal application form to DEQ no later than September 1, 2017, 60 days prior to the expiration date of this permit indicated on the cover page. The DEQ Director may grant permission to submit the application less than 60 days in advance but no later than the permit expiration date.
2. DEQ will review the application and will take one of the following actions:
 - a. Issue written notice of approval.
 - b. Request additional information.
 - c. Deny coverage under this permit. The applicant will be notified if the applicant's operation cannot be approved for coverage under the General Permit, and that the applicant may need to obtain an individual permit.

Other Application Conditions

1. Coverage under this permit will continue for a permittee after the expiration date if the permittee submits a complete renewal application as described above.
2. If DEQ does not receive a renewal application as described above, coverage under this General Permit is no longer valid and the operation must cease.
3. Any person not wishing to be covered or limited by this General Permit may apply for an individual permit in accordance with the procedures in OAR 340-045-0030.

DEQ Regional Office Locations

Northwest Region
2020 SW 4th Avenue, Suite 400
Portland, OR 97201
Tel. No. (503) 229-5263

Western Region
750 Front Street NE, Suite 120
Salem, OR 97301-1039
Tel. No. (503) 378-8240

Eastern Region
700 SE Emigrant, Suite 330
Pendleton, OR 97801
Tel. No. (541) 276-4063

SCHEDULE A

Waste Disposal Limitations

This permit applies only to facilities that treat and dispose water without discharging to surface waters. In addition, this permit applies only to petroleum hydrocarbon cleanup operations and does not apply to any other cleanup operation (i.e., non-petroleum hydrocarbons).

Land Application Requirements

1. The following limits apply when irrigating wastewater on land:

<u>Parameters</u>	<u>Limitations</u>
TPH*	Must not exceed 10 mg/L
pH	Must be within range 6.0 - 9.0
Free Product**	No visible discharge permitted

* TPH means total petroleum hydrocarbons. The Northwest TPH Method(s) or other approved methods with equivalent or better method detection limit must be used for TPH analysis. Information about the NW TPH Method can be obtained from the DEQ web page:
<http://www.deq.state.or.us/lab/techrpts/laboratoryAnalyticMethods.htm>

** Free Product means gasoline or oil which is not dissolved in water but is often found floating on the water.

2. All process wastewater must be managed, treated and disposed in accordance with the Wastewater Management Plan approved in writing by DEQ. The approved Wastewater Management Plan must be attached to and made a part of this permit. No substantial changes in irrigation activities that significantly differ from operations specified under the approved plan are allowed without prior written approval from DEQ.
3. Wastewater that is land applied must use sound irrigation practices in order to prevent:
 - a. Surface runoff , groundwater contamination, or subsurface drainage through drainage tile;
 - b. The overloading of land with nutrients or organics;
 - c. Uneven application; and
 - d. Ponding and erosion.
4. At a minimum, the Wastewater Management Plan must include the following elements:
 - a. A block diagram of all wastewater treatment and disposal system;
 - b. Wastewater volume in gallons per day;
 - c. Wastewater characteristics including TPH, pH, and BETX.;

- d. The period of time disposal will occur;
- e. A description of land irrigation site(s), including soil types, acreage, and location;
- f. A description of any chemical additives used in treatment of the wastewater;
- g. Sampling methods that will be used to monitor the land irrigation site(s) for potential buildup of petroleum hydrocarbons and other product constituents;
- h. System management to prevent runoff, ponding, damage to vegetative cover, and contamination of groundwater; and
- i. Name of the contact person designated to carry out functions related to the operation & maintenance of the treatment & disposal facilities.

Requirements for Bioremediation Activities

- 5. All bioremediation activities (in-situ and ex-situ), including wastewater management, must be in accordance with the Bioremediation Management Plan approved in writing by DEQ. The approved Bioremediation Management Plan must be attached to and made a part of this permit. No substantial changes that significantly differ from operations specified under the approved plan are allowed without prior written approval from DEQ.
- 6. Injection of substances to facilitate bioremediation must be contained within the identified area of contamination and must not cause adverse impacts to groundwater outside of the project area in accordance with OAR 340 Division 40).
- 7. Prior to start-up of bioremediation activities, the permittee must submit a Bioremediation Management Plan to DEQ for approval. At a minimum, the Bioremediation Management Plan must include the following elements:
 - a. Site map which includes general direction of groundwater flow;
 - b. Location of injection and recovery wells along with an estimate of capture zone;
 - c. Sampling data prior to initiating treatment;
 - d. Nutrients and microorganisms to be added to promote bioremediation;
 - e. Concentration of nutrients in injection water and estimate of the concentration in groundwater;
 - f. Sampling methods and frequency for monitoring the bioremediation activity.
 - g. Method and schedule for monitoring bioremediation to determine the success of the project and to verify that there are no adverse impacts to groundwater outside of the project area.
 - h. Name of the contact person designated to carry out functions related to the operation & maintenance of the treatment & disposal facilities.

8. Registration of Underground Injection Systems (40 CFR 144 and 146, and OAR Chapter 340, Division 44):

The permittee must submit to DEQ an Underground Injection Well Registration Form if wastewater covered by this permit is disposed by an on-site disposal system. These types of disposal systems are classified under the Underground Injection Control Program as a Class V well and require registration.

- a. A new permittee must register any applicable treatment systems **prior to** the construction of a new facility.
- b. For facilities covered by the previous permit the registration form is due within **thirty (30) days** after receipt of this permit.

SCHEDULE B

Minimum Monitoring and Reporting Requirements

1. Monitoring requirements for effluent from treatment system that is to be irrigated:

<u>Item or Parameter</u>	<u>Minimum Frequency</u>	<u>Sample Type</u>
Flow	Weekly	Estimate
Free Product	Weekly	Visual observation
pH	Monthly	Grab
TPH	Monthly	Grab

2. Monitoring requirements for land irrigation site:

<u>Item or Parameter</u>	<u>Minimum Frequency</u>	<u>Sample Type</u>
Amount Irrigated (inches/acre)	Weekly (when irrigating)	Record
* TPH (in soil matrix)	Annually	Composite

* On an annual basis, the permittee must monitor the upper six (6) inches of the soil matrix for TPH and other parameters identified in the Wastewater Management Plan using composite sampling techniques as approved in the Wastewater Management Plan.

3. Monitoring requirements for bioremediation activities:

The parameters to be monitored and the frequency of monitoring of the bioremediation activities must be in accordance with the approved Bioremediation Management Plan and may include BTEX, benzene, naphthalene, nitrate, free product, MTBE, lead, and pH. At a minimum, the monitoring program must include the amount of water injected, amount of water pumped out, amount of nutrients and other materials injected, monitoring data for nutrients from wells to show the concentrations of nutrients, and other information as necessary indicating the effectiveness of the bioremediation activities.

4. Reporting Procedures

- a. An annual report that describes the facility wastewater monitoring requirements of Schedule B.1 and B.2 for the calendar year must be prepared by January 15 of each year. This report must remain at the facility for at least 3 years.
- b. Facilities engaged in bioremediation activities must submit a quarterly report to DEQ that describes the results of the monitoring program.

SCHEDULE D

Special Conditions

1. The treatment of purge water from other sites owned or operated by the permittee that are not covered by a 1500-B permit is allowed. The purge water must originate only from periodic monitoring at petroleum hydrocarbon contaminated active or former cleanup sites. A request for the disposal of purge water must be submitted to DEQ for approval. Information on the quality and quantity of the discharge must accompany the request. DEQ may approve treatment and disposal of purge water under this permit that originates from sites not owned or operated by the permittee on a case by case basis.

2. Permit Specific Definition:

Injection System or Underground Injection System means a well, improved sinkhole, sewage drain hole, subsurface fluid distribution system or other system or groundwater point source used for the subsurface emplacement or discharge of fluids.

**SCHEDULE F
WPCF GENERAL CONDITIONS**

SECTION A. STANDARD CONDITIONS

1. Duty to Comply with Permit

The permittee must comply with all conditions of this permit. Failure to comply with any permit condition is a violation of Oregon Revised Statutes (ORS) 468B.025 and grounds for an enforcement action. Failure to comply is also grounds for the Department to modify, revoke, or deny renewal of a permit.

2. Property Rights and Other Legal Requirements

Issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, or authorize any injury to persons or property or invasion of any other rights, or any infringement of federal, tribal, state, or local laws or regulations.

3. Liability

The Department of Environmental Quality or its officers, agents, or employees may not sustain any liability on account of the issuance of this permit or on account of the construction or maintenance of facilities or systems because of this permit.

4. Permit Actions

After notice by the Department, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including but not limited to the following:

- a. Violation of any term or condition of this permit, any applicable rule or statute, or any order of the Commission;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.

5. Transfer of Permit

This permit may not be transferred to a third party without prior written approval from the Department. The Department may approve transfers where the transferee acquires a property interest in the permitted activity and agrees in writing to fully comply with all the terms and conditions of this permit and the rules of the Commission. A transfer application and filing fee must be submitted to the Department.

6. Permit Fees

The permittee must pay the fees required by Oregon Administrative Rules.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

At all times the permittee must maintain in good working order and properly operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to comply with the terms and conditions of this permit.

2. Standard Operation and Maintenance

All waste collection, control, treatment, and disposal facilities or systems must be operated in a manner consistent with the following:

- a. At all times, all facilities or systems must be operated as efficiently as possible in a manner that will prevent discharges, health hazards, and nuisance conditions.
- b. All screenings, grit, and sludge must be disposed of in a manner approved by the Department to prevent any pollutant from the materials from reaching waters of the state, creating a public health hazard, or causing a nuisance condition.
- c. Bypassing untreated waste is generally prohibited. Bypassing may not occur without prior written permission from the Department except where unavoidable to prevent loss of life, personal injury, or severe property damage.

3. Noncompliance and Notification Procedures

If the permittee is unable to comply with conditions of this permit because of surfacing sewage; a breakdown of equipment, facilities or systems; an accident caused by human error or negligence; or any other cause such as an act of nature, the permittee must:

- a. Immediately take action to stop, contain, and clean up the unauthorized discharges and correct the problem.
- b. Immediately notify the Department's Regional office so that an investigation can be made to evaluate the impact and the corrective actions taken, and to determine any additional action that must be taken.
- c. Within 5 days of the time the permittee becomes aware of the circumstances, the permittee must submit to the Department a detailed written report describing the breakdown, the actual quantity and quality of waste discharged, corrective action taken, steps taken to prevent a recurrence, and any other pertinent information.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or liability for failure to comply.

4. Wastewater System Personnel

The permittee must provide an adequate operating staff that is duly qualified to carry out the operation, maintenance, and monitoring requirements to assure continuous compliance with the conditions of this permit.

SECTION C. MONITORING AND RECORDS

1. Inspection and Entry

The permittee must at all reasonable times allow authorized representatives of the Department to:

- a. Enter upon the permittee's premises where a waste source or disposal system is located or where any records are required to be kept under the terms and conditions of this permit;
- b. Have access to and copy any records required by this permit;
- c. Inspect any treatment or disposal system, practices, operations, monitoring equipment, or monitoring method regulated or required by this permit; or
- d. Sample or monitor any substances or permit parameters at any location at reasonable times for the purpose of assuring permit compliance or as otherwise authorized by state law.

2. Averaging of Measurements

Calculations of averages of measurements required for all parameters except bacteria must use an arithmetic mean; bacteria must be averaged as specified in the permit.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures specified in the most recent edition of **Standard Methods for the Examination of Water and Wastewater**, unless other test procedures have been approved in writing by the Department and specified in this permit.

4. Retention of Records

The permittee must retain records of all monitoring and maintenance information, including all calibrations, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. The Department may extend this period at any time.

SECTION D. REPORTING REQUIREMENTS

1. Plan Submittal

Pursuant to Oregon Revised Statute 468B.055, unless specifically exempted by rule, construction, installation, or modification of disposal systems, treatment works, or sewerage systems may not commence until plans and specifications are submitted to and approved in writing by the Department. All construction, installation, or modification shall be in strict conformance with the Department's written approval of the plans.

2. Change in Discharge

Whenever a facility expansion, production increase, or process modification is expected to result in a change in the character of pollutants to be discharged or in a new or increased discharge that will exceed the conditions of this permit, a new application must be submitted together with the necessary reports, plans, and specifications for the proposed changes. A change may not be made until plans have been approved and a new permit or permit modification has been issued.

3. Signatory Requirements

All applications, reports, or information submitted to the Department must be signed and certified by the official applicant of record (owner) or authorized designee.

SECTION E. DEFINITIONS

1. BOD_5 means five-day biochemical oxygen demand.
2. TSS means total suspended solids.
3. FC means fecal coliform bacteria.
4. NH_3-N means Ammonia Nitrogen.
5. NO_3-N means Nitrate Nitrogen.
6. NO_2-N means Nitrite Nitrogen.
7. TKN means Total Kjeldahl Nitrogen.
8. Cl means Chloride.
9. TN means Total Nitrogen.
10. "*Bacteria*" includes but is not limited to fecal coliform bacteria, total coliform bacteria, and *E. coli* bacteria.

11. *Total residual chlorine* means combined chlorine forms plus free residual chlorine.
12. *mg/l* means milligrams per liter.
13. *ug/l* means micrograms per liter.
14. *kg* means kilograms.
15. *GPD* means gallons per day.
16. *MGD* means million gallons per day.
17. *Grab sample* means an individual discrete sample collected over a period of time not to exceed 15 minutes.
18. *Composite sample* means a combination of samples collected, generally at equal intervals over a 24-hour period, and based on either time or flow.
19. *Week* means a calendar week of Sunday through Saturday.
20. *Month* means a calendar month.
21. *Quarter* means January through March, April through June, July through September, or October through December.

