



**General Permit for a Composting Facility
Assignment Letter**

Oregon Department of Environmental Quality
750 Front Street NE, Suite 120
Salem, OR 97310
(503) 378-8240

**Assigned in accordance with the provisions of ORS Chapter 459 and
subject to the land use compatibility statement referenced below.**

ISSUED TO:

Grabhorn Inc.
14930 SW Vendermost Rd.
Beaverton, OR 97218

FACILITY NAME AND LOCATION:

Lakeside Reclamation Landfill
14930 SW Vendermost Rd.
Beaverton, OR 97218

OWNER:

Howard Grabhorn
14930 SW Vendermost Rd.
Beaverton, OR 97218

OPERATOR:

Howard Grabhorn
14930 SW Vendermost Rd.
Beaverton, OR 97218

ISSUED IN RESPONSE TO:

A Solid Waste Permit Application received April 2, 1999, and
a Land Use Compatibility Statement from Washington
County, dated October 21, 1991.

NON-COMPLIANCE REPORTING:

In the event that any condition of this permit is
violated, the permittee must take action to correct
the unauthorized condition and notify Martine
Roberts-Pillon DEQ's Northwest Region Solid
Waste Program office at (503) 229-6738.

Dear Mr. Grabhorn:

The Oregon Department of Environmental Quality (DEQ) has received your General Permit Application, fee(s), and Land Use Compatibility Statement, and is enclosing the requested General Permit for Composting Facilities. The determination to issue this General Permit is based on information you provided to the DEQ in the Solid Waste Permit Application.

Please read the **General Permit** carefully to become familiar with the terms and conditions with which you must comply. You may request a "Composting Facility Guidance" document for more detailed information regarding conditions in this General Permit.

Until such time as this General Permit expires or is modified or revoked, Howard Grabhorn is authorized to establish, operate, and maintain a composting facility in conformance with the requirements, limitations, and conditions set forth in this document, including all enclosures and attachments.

Should you have questions, please call Martine Roberts-Pillon at (503) 229-673

Sincerely,

Edward Druback, Manager Solid Waste Programs
Northwestern Region

4/6/99

General Permit Assignment Date

Enclosures



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SOLID WASTE GENERAL PERMIT Composting Facilities

Oregon Department of Environmental Quality
811 SW Sixth Ave.
Portland, OR 97204
Phone (western Oregon): (503) 378-8240 extension "252"
Phone (eastern Oregon): (541) 298-7255 extension "0"

Issued in accordance with the provisions of ORS Chapter 459 and
subject to the land use compatibility statement referenced below.

ISSUED TO THESE FACILITIES:

This solid waste general permit is issued to Owners or Operators of Composting Facilities handling green feedstocks:

- in excess of 2,000 tons per calendar year, or
- in excess of 5,000 tons per calendar year *if* feedstocks are *exclusively* yard debris and wood waste.

This permit is individualized to a given facility by an assignment letter that accompanies the permit. "Composting facilities" and "green feedstocks" are defined in Section 1.1 of this permit.

The determination to issue this permit is based on information provided to the Department by the permittee in the solid waste permit application.

PERMITTED ACTIVITIES:

Until such time as this permit expires or is modified or revoked, the permittee is authorized to establish, operate, and maintain a composting facility in conformance with the requirements, limitations, and conditions set forth in this document, including all attachments.

ISSUED BY THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

Mary Wahl
Mary Wahl, Division Administrator, Waste Management and Cleanup

4/8/98
Date



TABLE OF CONTENTS

Introduction This document is a solid waste disposal site/composting facility permit issued by the Oregon Department of Environmental Quality in accordance with Oregon Revised Statutes (ORS) 459 and Oregon Administrative Rules (OAR), Chapter 340. Rules relating specifically to composting facilities may be found in OAR Chapter 340, Divisions 93, 96 and 97.

In this document This document contains the following sections:

Section	Topic	See Page
----	Permit Administration	
1.0	General Information: Definitions; Description of General Permit	3
2.0	Disclaimers	4
3.0	Authority: Duration of Permit; Binding Nature; Other Compliance; Penalties	4
4.0	Permit and Facility Review: Review of Permit by Department; Facility Performance Review; Public Participation; Report to Department; Complaints	5, 6
----	Allowable Activities	
5.0	Authorizations	7
6.0	Prohibitions	7
----	Operations and Design	
7.0	Required Documents and Operating Conditions	8 through 11
---	Recordkeeping	
8.0	Recordkeeping and Reporting: Non-compliance; Department Access to Records; Permit Display	11, 12
----	Environmental Monitoring	
9.0	Environmental Monitoring	13
	Summary	
10.0	Documents Required by this Permit and Dates Due; When to Notify Department Staff	13 through 15
11.0	Documents Available Concerning Composting Facilities	15



PERMIT ADMINISTRATION

1.0 GENERAL INFORMATION

- 1.1 Definitions
- **Composting** means the managed process of controlled biological decomposition of organic or mixed solid waste. It does not include composting for the purposes of soil remediation. Compost is the product resulting from the composting process.
 - **Composting Facility** means a site or facility which utilizes organic solid waste or mixed solid waste to produce a useful product through a managed process of controlled biological decomposition. Composting may include amendments beneficial to the composting process. Vermiculture, vermicomposting and agricultural composting operations are considered composting facilities.
 - **Green Feedstocks** are materials used to produce a compost. Green feedstocks are low in a) substances that pose a present or future hazard to human health or the environment and b) low in and unlikely to support human pathogens. Green feedstocks include but are not limited to: yard debris, animal manures, wood waste, vegetative food waste, produce waste, vegetative restaurant waste, vegetative food processor by-products and crop residue. Green feedstocks may also include other materials that can be shown to DEQ by the composter to be low in substances that pose a present or future hazard to human health or the environment and low in and unlikely to support human pathogens. This term is not intended to include materials fed to animals and not used for composting.
 - **Non-green Feedstocks** are materials used to produce a compost. Non-green feedstocks are high in a) substances that pose a present or future hazard to human health or the environment and b) high in and likely to support human pathogens. Non-green feedstocks include but are not limited to: animal parts and by-products, mixed materials containing animal parts or by-products, dead animals and municipal solid waste. This term is not intended to include materials fed to animals and not used for composting.

These definitions are located in OAR 340-093-0030.

- 1.2 Description of general permit
- General Permit Composting facilities are defined in OAR 340-096-0024. General Permit Composting facilities are considered to be "lower risk disposal sites" and thus qualify for this general permit. General permits are permits and permittees shall comply with all pertinent rules.

Permittees assigned a general permit must have procedures in place and documentation on file at the composting site available for review and acceptance by DEQ that shows all permit requirements have been met.



2.0 DISCLAIMERS

2.1 Property rights The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights.

2.2 Department liability The Department, its officers, agents, or employees do not sustain any liability on account of the issuance of this permit or on account of the construction, maintenance, or operation of facilities pursuant to this permit.

3.0 AUTHORITY

3.1 Ten year permit This permit is issued for a maximum of 10 years as authorized by Oregon Revised Statutes 459.245 (2), ending in 2008 on the date listed at the top right corner of this document.

3.2 Documents superseded This document is the solid waste permit for a compost facility and does not supersede solid waste permits for other solid waste management facilities on a given property.

3.3 Binding nature Conditions of this permit are binding upon the permittee. The permittee is liable for all acts and omissions of the permittee's contractors and agents.

3.4 Other compliance Issuance of this permit does not relieve the permittee from the responsibility to comply with all other applicable federal, state, or local laws or regulations. This includes the following solid waste requirements and all updates or additions to these requirements:

- solid waste permit application submitted by the facility listed on the assignment letter accompanying this permit;
- Oregon Revised Statutes, Chapters 459 and 459A;
- Oregon Administrative Rules Chapter 340;
- any documents submitted by the permittee and approved by the Department; and
- any documents required by this permit to be completed, updated and kept on file at the composting site.

3.5 Misrepresentation This permit may be denied to a facility that has obtained the permit by misrepresentation or failure to disclose fully all relevant facts. Reference: ORS 459.255.

3.6 Penalties Violation of conditions of this permit will subject the permittee to civil penalties of up to \$10,000 for each day of each violation.



4.0 PERMIT AND FACILITY REVIEW

- 4.1 Review of permit**
- The Department may periodically review the permit to determine whether or not the permit should be amended. Approved permit amendments will affect all permittees.
- While not an exclusive list, the following factors will be used in making that determination:
- compliance history at facilities, including repeated violations of any terms or conditions of this permit; or
 - violation by facilities of any applicable statute, rule, standard, or order of the Environmental Quality Commission; or
 - significant releases of leachate to the environment from facilities; or
 - changes in state or federal rules which should be incorporated into the permit.
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- 4.2 Facility performance review**
- The Department may review permit compliance by facilities identified on assignment letters accompanying the permit. While not an exclusive list, the following factors may be used to determine compliance with permit conditions. Department staff may conduct inspections of the site at reasonable times as authorized by ORS 459.385 and 459.272.
- compliance history at the facility;
 - significant changes in weight/volume of feedstocks, type of feedstock materials or operations at the facility;
 - significant adverse impacts (odor, vectors, noise, litter or other conditions) from the facility on adjacent property owners;
 - a significant release of leachate to the environment from the facility;
 - the facility is not able to meet the limitations of this general permit (and may need to apply for a full solid waste permit); or
 - other factors which relate to the operation of the facility or its impact on the environment.
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- 4.3 Modification and public participation**
- At any time in the life of the permit, the Department or the permittee may propose changes to this permit. Changes to this permit will be made public by the issuance of a public notice as required by Department rules. Approved permit modifications will subject all permittees to the new or revised condition(s).
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4.4 Report to Department

Reporting of the following conditions shall be made to the Department staff person listed under "Non-compliance reporting" on the assignment letter accompanying the permit.

1) Ownership The permittee must report to the Department any changes in either: a) ownership of the disposal site property, b) name or address of the facility, c) name or address of the permittee, or d) name or address of the operator. The report shall be made in writing within ten (10) days of the change.

2) Equipment break down The permittee must report immediately to the Department the break down of major equipment *when* the break down affects ability of the facility to: a) quickly process incoming feedstocks, b) maintain optimum processing parameters in active compost area(s), or c) when the break down creates other impacts on the environment or human health.

3) Odor or leachate release The permittee must: a) report immediately to the Department significant odor releases* or leachate releases from the facility, and b) report to the Department as soon as complaints are received at the facility from 5 different businesses and/or individuals about a given odor or leachate event.

**a significant odor release is defined as odor that is clearly identifiable beyond the boundary of the facility*

4) Emergencies/Fires The permittee will report immediately to the Department all emergencies and fires related to the composting facility.

4.5 Complaints

The permittee will attempt to resolve all complaints it receives regarding facility operation. To do this, the permittee will:

- a) contact the complainant to discuss the problem,
 - b) keep a record of the complaint, name and phone number of the complainant, date complaint was received and date of and response by the facility operator; and
 - c) immediately initiate procedures at the facility, when possible, to resolve the problem identified by the complainant.
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ALLOWABLE ACTIVITIES

5.0 AUTHORIZATIONS

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| 5.1 | Wastes authorized for receipt | This permit authorizes facilities to accept green feedstocks for composting. <u>Reference:</u> Definition of green feedstocks, section 1.1 of this permit. |
| <hr/> | | |
| 5.2 | Authorization of activities | All facility activities are to be conducted in accordance with the provisions of this permit. All plans required by this permit must be on file at the composting site and become part of the permit. |
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| 5.3 | Salvaging and recycling | Salvaging and recycling of incidental amounts of non-compostable materials delivered as part of the feedstock mix are authorized if conducted in a controlled and orderly manner. |
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| 5.4 | Authorized liquid wastes | This permit authorizes the permittee to accept liquid wastes that can be demonstrated to the Department are: 1) for use in and beneficial to the composting process, 2) "low in and unlikely to pose a present or future hazard to human health or the environment", and 3) "low in and unlikely to support human pathogens." <u>Reference:</u> Definition of green feedstocks, section 1.1 of this permit. |
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| 5.5 | Authorized amendments | The permittee may accept amendments in incidental amounts. The permittee must show to the Department these amendments are beneficial to the composting process and their use does not pose a present or future hazard to human health or the environment at any time. |
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6.0 PROHIBITIONS

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| 6.1 | Solid waste disposal | The permittee shall not accept non-green feedstocks. <u>Reference:</u> Definition of non-green feedstocks, section 1.1 of this permit. |
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| 6.2 | Hazardous waste disposal | The permittee shall not accept hazardous wastes. This prohibition includes acceptance of household hazardous wastes as well as hazardous waste as defined in ORS 466.005 and OAR Chapter 340, Division 101. |
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| 6.3 | Liquid waste disposal | The permittee shall not accept liquid waste for disposal except as described in section 5.4 of this permit.

<u>Definition:</u> Liquid wastes are wastes that do not pass the paint filter test performed in accordance with EPA Method 9095. |
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| 6.4 | Open burning | The permittee shall not conduct any open burning at the site. |
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OPERATIONS AND DESIGN

7.0 OPERATIONS PLANS

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- 7.1 **In this section** This section describes the requirements associated with facility plans, including:
- required documents;
 - plan content;
 - plan maintenance;
 - plan compliance; and
 - discovery of prohibited waste.
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- 7.2 **Required documents** The permittee must prepare the following five documents:
1. Feasibility Study Report;
 2. Facility Design Plan;
 3. Odor Minimization Plan;
 4. Operations and Maintenance Manual; and
 5. Facility Closure Plan.

These documents must be placed on file at the composting site. The Feasibility Study Report and Facility Design Plan must be prepared prior to assignment of this permit to a permittee. All five of these documents are incorporated into this permit by reference and must be updated to reflect current conditions and be available to Department staff upon request.



7.3 Plan content

The following written plans are required and must describe how the facility will operate in accordance with all regulatory and permit requirements. These documents must be completed and placed in a file at the facility no later than the Date Due listed below. DEQ staff may request to see these documents at any time after the Date Due. All documents must be updated to reflect current conditions.

PLAN CONTENT AREA	TOPIC
Plans for General Operations	<p><u>Reference:</u> DEQ's "Composting Facility Guidance" for more information regarding the following five documents.</p> <ol style="list-style-type: none"> 1. Feasibility Study Report includes: information showing that the site is appropriate for composting and identifies specific feedstocks, methods and equipment for composting. It also includes contingency plans for facility closure and disposal of residual product and contaminated compost. <u>Date Due:</u> Prior to assignment of this permit to a permittee. 2. Composting Facility Design Plan includes: information about how the facility will be constructed and operated and how the operator will respond to non-compliance issues. <u>Date Due:</u> Prior to assignment of this permit to a permittee. 3. Odor Minimization Plan includes: information regarding management and operational techniques to minimize or avoid odors and vectors in the incoming feedstock, active compost and finished storage areas of the facility. <u>Date Due:</u> Within 90 days of permit assignment date. ** 4. Operations and Maintenance Manual includes: instruction for normal facility operations, procedures for assessing and recording compost processing parameters and procedures to address upset conditions, operations problems and complaints. <u>Date Due:</u> Within 90 days of permit assignment date*.
Plan for Facility Closure	<ol style="list-style-type: none"> 5. Facility Closure Plan: includes a conceptual "worst-case" scenario for facility closure. <u>Date Due:</u> Within 90 days of permit assignment date. ** <p><i>**The permit assignment date is located on the assignment letter that accompanies the permit.</i></p>

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PLAN CONTENT AREA	TOPIC
Composting operations	<p>Reference: DEQ's "Composting Facility Guidance" for more information on the following operational requirements. The permittee shall:</p> <ol style="list-style-type: none">a. Monitor compost processing parameters including feedstocks (C:N ratio), moisture content, aeration, pH and temperature. Keep a written ongoing log (include date, parameter and details);b. Record regularly and report annually to DEQ: the type(s) and tonnage/volume of incoming feedstocks;c. Implement management and operational techniques to avoid and minimize odor;d. Implement procedures to avoid and minimize vectors;e. Remove finished compost from the composting facility as frequently as possible;f. Incorporate incoming feedstocks into active compost area within a reasonable time;g. Provide procedures to:<ul style="list-style-type: none">• limit accumulation of feedstocks;• confine feedstocks to a designated dumping area;• dispose of non-biodegradable feedstocks; and,• detect and prevent the receipt of hazardous wastes.
Inspection and maintenance	<p>The permittee shall provide procedures for the following so there will be no adverse impact from facility operations on the waters of the state:</p> <ul style="list-style-type: none">• washing equipment; and• maintaining leachate management systems.
Operating record	<p>The permittee shall provide a facility file where all documents and records required by this permit will be retained.</p>
Contingency	<p>The permittee shall provide fire protection techniques and/or equipment.</p>



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| 7.4 | Plan maintenance | The permittee must revise the Compost Facility Design Plan, Odor Minimization Plan, Operations and Maintenance Manual and Facility Closure Plan as necessary to keep them current and reflective of facility conditions and procedures. |
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| 7.5 | Plan compliance | The permittee must conduct all operations at the facility in accordance with the Compost Facility Design Plan, Odor Minimization Plan and Operations and Maintenance Manual, including any amendments. |
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| 7.6 | Discovery of prohibited waste | <p>Any solid wastes discovered at the facility which appear to be prohibited waste must be disposed of properly, in accordance with rules of the Department.</p> <p>In the event discovered wastes are hazardous or suspected to be hazardous, the permittee must, within 10 days, notify the Department and initiate procedures to identify and remove the waste. Hazardous wastes must be removed within 90 days, unless otherwise approved by the Department. Temporary storage and transportation must be carried out in accordance with the rules of the Department.</p> |
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8.0 RECORDKEEPING AND REPORTING

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| 8.1 | In this section | <p>This section describes recordkeeping and reporting operational information for the facility, including:</p> <ul style="list-style-type: none">• non-compliance reporting;• permit display;• access to records;• procedures for recordkeeping; and• submittal address. |
| <hr/> | | |
| 8.2 | Non-compliance reporting | <p>In the event that any condition of this permit or of the Department's rules is violated, the permittee must immediately take action to correct the unauthorized condition and notify the Department at the phone number listed under "Non-Compliance Reporting" on the assignment letter accompanying the permit. Violations with high environmental risk require immediate notification to the Department, others do not; see section 10.2 to determine how much time is allowed for notification to the Department for a specific violation. In response to such a notification, the Department may conduct an investigation to evaluate the nature and extent of the problem, and to evaluate plans for additional corrective actions, as necessary.</p> |



8.3 **Permit display** The permittee must display this permit, or a photocopy thereof, where it can be readily referred to by operating personnel.

8.4 **Access to records** Upon request, the permittee must make all records and reports related to the permitted facility available to the Department.

8.5 **Procedure for record-keeping** The permittee must keep records according to the following:

STEP	ACTION
1	Establish a location at the facility for retention of all documents required by this permit.
2	Keep a written, ongoing log showing assessment of composting processing parameters. <u>Date Due:</u> Ongoing, DEQ may request to see this log at any time.
3	Collect information during facility operations on the amount (in tons or cubic yards) of each type of feedstock received*: manure, wood chips, wood waste, yard debris (compacted), yard debris (uncompacted), vegetative food waste, and other materials (describe). <i>*If a load is a mixture of materials, list it under the predominant material.</i>
4	Submit the information collected in Step 3, above, on the Composting Facility Report Form, provided by the Department. <u>Date Due:</u> January 31 of each year.
5	Pay the annual permit compliance fee as required by OAR Chapter 340, Division 97. <u>Date Due:</u> As designated on invoice sent by the Department.
6	Retain copies of all records and reports for five years from the date created.
7	Update all records such that they reflect current conditions at the facility.

8.6 **Submittal address** Submit materials listed in section 8.5 (4) and (5) to the Department at:
 Oregon Department of Environmental Quality
 Waste Management and Cleanup Division
 Solid Waste Program
 811 SW Sixth Ave.
 Portland, OR 97204
 (503) 229-5913



ENVIRONMENTAL MONITORING

9.0 ENVIRONMENTAL MONITORING

- 9.1 Storm water** The permittee must apply to the Water Quality Division of the Department for a storm water permit if there is a point source discharge of storm water from the facility. The goal of the requirements of the storm water permit is to minimize contact of feedstocks and compost with storm water.
- 9.2 Monitoring devices** When leachate is present, the permittee may need to install leachate monitoring devices, in accordance with rules of the Department. The permittee must protect, operate, and maintain installed leachate monitoring devices so that samples representative of actual conditions can be collected.
- 9.3 Damage reporting** Any damage to a required leachate monitoring device must be reported to the Department within ten days of the discovery and include a description of proposed repair or replacement measures and a time schedule for completion of this work.

10.0 SUMMARY

- 10.1 Required documents** The following documents must be completed by the Date Due listed in the table below, placed on file at the composting facility site and available for review by Department staff upon request. These documents must be updated regularly to reflect current conditions.

DOCUMENT	WHERE LOCATED IN THIS PERMIT	DATE DUE
1. Feasibility Study Report	See section 7.4	prior to assignment of this permit to a permittee
2. Compost Facility Design Plan	See section 7.3	prior to assignment of this permit to a permittee
3. Odor Minimization Plan	See section 7.3	within 90 days of permit assignment date
4. Operations and Maintenance Manual	See section 7.3	within 90 days of permit assignment date

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TOPIC	NOTIFICATION REQUIREMENTS	SECTION IN THIS PERMIT
Emergencies/Fires	Notify Department immediately	see section 4.4
Complaints	refer to section 4.4 (3) and 4.5 of this permit	see section 4.4 and 4.5

DOCUMENTS

11.0 AVAILABLE DOCUMENTS

11.1 Document listing

The following documents concerning composting facilities are available at DEQ and may be requested.

NUMBER	DESCRIPTION
1	Land Use Compatibility Statement form
2	Conversion Numbers for Feedstocks: Pounds per Cubic Yard
3	Fees for DEQ Solid Waste Permits
4	Composting Facility Guidance
5	Fact Sheet: Composting Facilities in Oregon
6	Instructions: Application for a Composting Facility Registration/Permit
7	Oregon Administrative Rules (OAR) Chapter 340, Divisions 93-97



DOCUMENT	WHERE LOCATED IN THIS PERMIT	DATE DUE
5. Facility Closure Plan	See section 7.3	within 90 days of permit assignment date
6 Record of compost processing parameters	See section 7.3	Ongoing
7. Record of volume/weight of incoming feedstocks	See section 8.5	Ongoing, summary due to DEQ on Jan. 31 of each year

10.2 When to notify Department staff

Note: Contact Department staff listed on the assignment letter accompanying this permit (under "Non-Compliance Reporting), or call the phone numbers listed at the top of the cover page of this permit.

TOPIC	NOTIFICATION REQUIREMENTS	SECTION IN THIS PERMIT
Facility not able to meet limitations of this permit (and may need to consider a different type of permit)	Contact Department for assessment	see section 4.2
Change in ownership of facility	Notify Department in writing within 10 days	see section 4.4
Change in name or address of facility, name or address of permittee or name or address of operator	Notify Department in writing within 10 days	see section 4.4
Prohibited waste discovered at facility	Notify Department within 10 days	see sections 6.2 and 7.6
Conditions of permit violated	Notify Department within 10 days	see section 8.2
Damage to leachate monitoring devices	Notify Department within 10 days of discovery	see section 9.2 and 9.3
Equipment break down affects facility operation	Notify Department immediately	see section 4.4
Leachate or significant odor released from facility	Notify Department immediately	see section 4.4

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