Water Quality Permitting & Program Development

2300A Pesticide General Permit

Mar. 10, 2016
Corvallis
Today’s Presentation

2300A Pesticide General Permit
  • Types of Pest Control
  • Operator
  • Requirements
### Water Quality NPDES general permit

[www.deq.state.or.us/wq/wqpermit/genpermits.htm](http://www.deq.state.or.us/wq/wqpermit/genpermits.htm)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Permit Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>900-J</td>
<td>Seafood processing</td>
<td>NPDES</td>
<td>Permit Applications/Fees</td>
</tr>
<tr>
<td>1000</td>
<td>Gravel mining</td>
<td>WPCF</td>
<td>Permit Applications/Fees</td>
</tr>
<tr>
<td>1200-A</td>
<td>Stormwater permit for gravel mining</td>
<td>NPDES</td>
<td>Permit Applications/Fees</td>
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<tr>
<td>1200-C</td>
<td>Construction</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<tr>
<td>1200-CN</td>
<td>Construction - within certain jurisdictions</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>1200-COLS</td>
<td>Industrial stormwater discharging to Columbia Slough</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>1200-Z</td>
<td>Industrial stormwater, not discharging to Columbia Slough</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>1200-ZN</td>
<td>Industrial Stormwater for new facilities not discharging to Columbia Slough (10/11-6/30/12)</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<tr>
<td>1300-J</td>
<td>Oily stormwater runoff, oil/water separators</td>
<td>NPDES</td>
<td>Permit</td>
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<tr>
<td>1400-A</td>
<td>Wineries, fresh pack food processors</td>
<td>WPCF</td>
<td>Permit Applications/Fees</td>
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<tr>
<td>1400-B</td>
<td>Canners, food/animal processing, extracts</td>
<td>WPCF</td>
<td>Permit Applications/Fees</td>
</tr>
<tr>
<td>1500-A</td>
<td>Tanks cleanup and treatment of groundwater</td>
<td>NPDES</td>
<td>Permit Applications/Fees</td>
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<tr>
<td>1500-B</td>
<td>Tanks cleanup and treatment of groundwater</td>
<td>WPCF</td>
<td>Permit Applications/More Info</td>
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<td>1700-A</td>
<td>Washwater</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>Washwater</td>
<td>WPCF</td>
<td>Permit Applications/More Info</td>
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<td>1900-B</td>
<td>Geothermal exploration</td>
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<td>Permit</td>
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<td>1900-J</td>
<td>Non contact geothermal</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>2100-J</td>
<td>Lower Columbia/Youngs floating residence</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>2200-J</td>
<td>Clatsop County floating residence</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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<td>2300-A</td>
<td>Pesticide General Permit</td>
<td>NPDES</td>
<td>Permit Applications/More Info</td>
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[print version]
2300A Pesticide General Permit

Issued in 2011

Permit authorizes a pollutant discharge to water

Pollutant

• excess or residual chemical pesticide that remains after product use

• biological pesticide
2300A Types of Pest Control

Mosquito and other flying insect pest control
Weed and algae control
Nuisance animal control
Forest Canopy pest Control
Area-wide pest control
2300A FIVE Pest Control Categories

1. Mosquitoes and other flying insects
   - Public health
   - Nuisance
   - Develop or spend a portion of their life cycle in or above water
Pesticides for larvae and adults

NPIC http://npic.orst.edu/pest/mosquito/control.html
2300A FIVE Pest Control Categories

2. Weed and Algae control
   • Weeds, algae, fungi and bacteria
   • In or at the water’s edge

3. Nuisance Animal Control
   • Pathogens, mussels, fish
   • In or at the water’s edge
In Water

Lakes
Riparian areas
Wetlands and other seasonally wet areas
Creeks
Rivers
Water’s Edge - within 3 feet of waters of the state and conveyances/ditches with water at the time of the pesticide application
Pesticide application within 3 feet requires a permit
2300A FIVE Pest Control Categories

In order to target the pest, a portion of the pesticide will unavoidably be applied over and deposited into water.

4. Forest Canopy Pest Control
5. Area-Wide Pest Control
Operator

**Operator** – means any owner or entity with operational control over the decision to perform a pesticide application that is covered under this permit or has the day-to-day operational control of activities that are necessary to ensure compliance with the permit.

Owner means landowner, facility owner, property owner. When the owner makes the pesticide application or hires a pesticide applicator, then the owner is making a decision and paying to perform a pesticide application on their property.

Where pesticides are applied on an owner’s land by another entity and the owner does not have the legal authority to control the application and is not directly financing the application, the owner is not an operator for purposes of this permit. (This would include, for example, when a governmental entity is spraying for mosquitoes over a person’s property.)

Examples of entities are mosquito control districts, homeowners associations, local and state governments that have the responsibility to perform pesticide applications to maintain properties for safety, health, invasive species and nuisance pest control.
Who has to register for permit coverage

Federal or State agency with pest control responsibility **must** apply for a permit

Mosquito Control Districts and Weed Control Districts **must** apply for a permit
Who has to register for permit coverage

Applies to “operator”

• Cities, counties, landowners, land managers, and others

Must register if total treatment area in a calendar year is large scale

• Exceeds 20 acres
• Exceeds 20 linear miles
• Exceeds 6400 acres
Overview of registrations

- Federal land management
  - USFS
  - BLM

- Private
  - homeowners association
  - lake association
  - irrigation
  - land trust

- State
  - transportation
  - agriculture
  - fish and wildlife

Local
- county
- city
- district
Total Treatment Area is Small Scale

Operators

• Must keep a copy of the permit
• Must satisfy basic permit requirements
• Must keep track of total treatment area in a calendar year
Total treatment area in a calendar year

Acres of surface area
  • For example in ponds, lakes

Linear miles
  • In water, along water’s edge or conveyance

Aerial application over land and water
In, Over and Water’s edge
Aerial application includes land and water

http://fyi.uwex.edu/gypsy moth in wisconsin/
Aerial application includes land and water
Linear miles and acres
In, Over, Water’s Edge
In, Over, Water’s Edge
In, Over and Water’s Edge
In, Over and Water’s Edge
In, Over and Water’s edge
Total Treatment Area in a Calendar Year

20 acres or
20 linear miles or
6400 acres

Registration; fees; added requirements

Keep a copy of the permit; follow basic requirements
Permit Requirements
Meet WQ standards
Minimize the discharge of pesticides
Take corrective action
Notification to drinking water suppliers
Visual assessment
  During pesticide application, consider safety
  During any post application check
Reporting to OERS follow up reports to DEQ
Adverse Incident
  Spills
Recordkeeping – Keep for 3 years
Permit Requirements

Meet WQ standards

No discharge to water that is impaired for that pesticide or degradates

www.deq.state.or.us/wq/assessment/rpt2010/search.asp
Computer Search for Impaired Water Bodies

### Review the 2010 Integrated Report Database

Select search criteria and then click the Search button to begin searching the database.

#### Subbasin (USGS 4th Field HUC):
- All Subbasins
- Alsea
- Alsea; Siuslaw
- Alford Lake
- Applegate

#### Water body (Stream/Leke):
- All Waterbodies
- 1018 Glotch
- Abbott Creek
- Abbott Creek
- Abernethy Creek

#### Stream or Lake LLID value:

#### Pollutant:
- Hexazinone
- Iron
- Isophorone
- Lead
- Malathion
- Manganese
- Mercury
- Methoxychlor
- Methylene chloride
- Metolachlor

#### Listing Status:
- All Statuses
- Attaining (Category 2)
- Insufficient Data (Category 3)
- Potential Concern (Category 3b)
- Impairing pollutant unknown (Category 3c)
- Water Quality Limited - All (Categories 4 and 5)
  - Water Quality Limited TMDL needed - 303(d) (Category 5)
  - Water Quality Limited TMDL not needed (Category 4)
  - Water Quality Limited - TMDL Approved (Category 4a)
  - Criteria Change or Use Clarification
  - Inactive

#### Water bodies de-listed in 2010:

#### Create a Spreadsheet (.csv) File:
- Select this option if you want to create a .csv (Comma Separated Values) file. Microsoft Excel can be used to view this file.
<table>
<thead>
<tr>
<th>Basin Name</th>
<th>Watershed</th>
<th>Water Body</th>
<th>River Miles</th>
<th>Parameter</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle Columbia</td>
<td>Middle Columbia-Hood</td>
<td>Mill Creek</td>
<td>0 to 7.7</td>
<td>Malathion</td>
<td>Cat 5: Water quality limited, 303(d) list, TMDL needed</td>
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</tbody>
</table>
## Search Results: Water Quality Limited Water

<table>
<thead>
<tr>
<th>Basin Name</th>
<th>Watershed</th>
<th>Water Body</th>
<th>River Miles</th>
<th>Parameter</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Oregon</td>
<td>North Umpqua</td>
<td>Sutherlin Creek</td>
<td>4.6 to 10</td>
<td>Copper</td>
<td>Cat 5: Water quality limited, 303(d) list, TMDL needed</td>
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<tr>
<td>Coastal</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Southern Oregon</td>
<td>South Umpqua</td>
<td>Middle Creek</td>
<td>0 to 12.8</td>
<td>Copper</td>
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<tr>
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<tr>
<td>Southern Oregon</td>
<td>South Umpqua</td>
<td>South Fork Middle</td>
<td>0 to 4.4</td>
<td>Copper</td>
<td>Cat 5: Water quality limited, 303(d) list, TMDL needed</td>
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<tr>
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<td>Creek</td>
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<td></td>
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<tr>
<td>Southern Oregon</td>
<td>Umpqua</td>
<td>Cook Creek</td>
<td>0 to 2.9</td>
<td>Copper</td>
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<tr>
<td>Coastal</td>
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<tr>
<td>Willamette</td>
<td>Middle Willamette</td>
<td>Pringle Creek</td>
<td>0 to 6.2</td>
<td>Copper</td>
<td>303(d)</td>
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<tr>
<td>Willamette</td>
<td>Tualatin</td>
<td>Koll Wetland</td>
<td>0 to 0</td>
<td>Copper</td>
<td>303(d)</td>
</tr>
</tbody>
</table>
Minimize the discharge

- Identify the Problem
  - Life cycle
  - Number of pests
  - Current information
  - monitor for pest
Minimize the discharge

Alternatives

No Action

Prevention

Physical, Mechanical

Biological
Minimize the discharge

Optimal amount of pesticide

Wind, water temp., other conditions

Minimize the discharge

Calibrate and maintain equipment

Reduce spills and leaks even when mixing and loading
Notify Drinking Water Supplier
Computer Search for Drinking Water Supplier

Oregon DEQ Facility Profiler 2.0

Search for DEQ regulated or permitted facilities and sites

Search by

Address - Use an address and radius.
(example: Find all permitted air dischargers within 3 miles of 123 S Main st in Sherwood)

Go

Latitude/Longitude - Use a latitude/longitude and radius.
(example: Find all permitted and regulated sites within 1 mile of lat 41.64/long -121.13)

Go

Geographic/Facility - Use geographic boundaries and facility information.
(example: Find all Cleanup sites in Clackamas county)

Go

Start searching on a map

Place - Go to a place on the map.
(county, road, stream, town, watershed, ZIP, township)

Go

State Map - Go to a state map.

Go

Saved Map Views - See saved map views.

Go

The following types of regulated facilities/sites can be found in this system:

- Permitted air (excluding Lane county) and water dischargers;
- Hazardous and solid waste sites;
- Cleanup sites; and
- Leaking and underground storage tanks (LUST/UST).

This site contains information on closed facilities, completed cleanups, and past operations as well as data on current operations and activities.

Display of a facility by the profiler does not necessarily indicate any current or past problem, violation, or hazardous condition. This site will present information in all sites stored in DEQ's databases. To find out more about a specific activity or location, contact DEQ, using the permit or identifier provided by the profiler.
Computer Search for Drinking Water Supplier
DEQ Facility Profiler
Permit Requirements

Meet WQ standards
Minimize the discharge of pesticides
Take corrective action
Notification to drinking water suppliers
Visual assessment
  • During pesticide application, consider safety
  • During any post application check
Call Oregon Emergency Response System follow up reports to DEQ
  • Adverse Incident
  • Spills
Recordkeeping – Keep for 3 years
Additional Requirements For Registrants

Pest Management Measures

- Identify the problem
- Options (no action, prevent, other methods, biological control agents, pesticides)
- Pesticide Use practices

Pesticide Discharge Management Plan

- Not Submitted

Annual Report
Fees and Expiration

Registration Fees = $1,100
  • Initial application fee- $543
  • First Annual Fee - $557

Annual Fee $557

Permit Expiration Date Sept. 30, 2016
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