APPLICATION FOR
WATER POLLUTION CONTROL
FACILITIES GENERAL PERMIT 1400
(WPCF-N)

A. REFERENCE INFORMATION

1. __________________________
   Legal Name of Applicant

2. __________________________
   Mailing Address
   City __________________________
   State __________________________
   Zip __________________________

3. __________________________
   Responsible Official
   Title __________________________
   Address or Location __________________________
   Phone __________________________

4. __________________________
   Alternate Responsible Official
   Title __________________________
   Address or Location __________________________
   Phone __________________________

5. Facility Location if different from Mailing Address:

6. Enter Site Location by Latitude and Longitude:

   LATITUDE LONGITUDE

B. GENERAL DESCRIPTION OF FACILITY

Briefly summarize the proposed facility and primary method of waste treatment and disposal.

C. REQUIRED EXHIBIT

As EXHIBIT A. attached two (2) copies of a Preliminary Engineering Report or Facility Plan Report which fully describes the proposed project, using written discussion, maps, diagrams, and any other necessary materials. Specific items contained in the report should include:

1. A description of the proposal.
2. Schedule for development.
3. The location of the project and adjacent facilities and waterways.

D. LAND USE APPROVAL

LAND USE COMPATIBILITY STATEMENT: is attached ☐ is coming ☐ N/A ☐

E. OTHER PERMITS

Attached a list of other permits issued or applied for.

F. FEES – MUST ACCOMPANY THIS APPLICATION

Filing Fee $ __________________________
Processing Fee __________________________
Compliance Determination Fee __________________________
TOTAL __________________________

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Signature of Legally Authorized Representative __________________________
Title __________________________
Date __________________________

DEQ-WQ-IW\WH5794.DOC (9/96)
INSTRUCTIONS FOR FILING FOR NEW WATER POLLUTION CONTROL FACILITIES GENERAL PERMIT 1400

BACKGROUND:

Pursuant to Oregon Revised Statutes (ORS) 468.740, a permit from the Department of Environmental Quality (DEQ) is required for all wastewater disposal systems. Wastewater disposal systems associated with wineries and other food processors are disposal systems under that statute and require a permit.

A winery or food processor which discharges all wastewater to a municipal sewerage system is not required to have a permit from DEQ. One may be required from the municipality.

A general permit has been issued in order to reduce the time and paperwork associated with the permit process. Those wineries and small food processors which may be eligible for the general permit are those whose majority of wastewater is seasonal, the maximum wastewater generated is less than 25,000 gallons per day, and all wastewater can be disposed on site without contamination of surface waters or groundwater.

Any proposed facility which does not qualify for the general permit because of its size or other factors, may be covered by an individual permit. Applications for individual permits are available from DEQ. These instructions are to assist in filling out the application to register for coverage by the general permit only.

A. REFERENCE INFORMATION:

1. Enter the applicant's official or legal name. Do not use a colloquial name. If a partnership, list each partner.
2. Enter the mailing address where the permit and related correspondence should go.
3. Give the name of the responsible official we should contact if we have questions about the application or the facility.
4. List an alternate to the official name in item ‘3’.
5. Enter the address of the proposed facility if different from the mailing address in item ‘2’.
6. Enter site location by latitude and longitude.

B. GENERAL DESCRIPTION OF FACILITY:

Please enter a general description of the proposed facility and the primary method of handling wastewaters.

Example: Wash and fresh pack strawberries and raspberries.

C. REQUIRED EXHIBIT:

NOTE:

Exhibit A is the most important part of the application. Failure to provide the required information will delay processing the application and final action on permit issuance.

1. Describe what type of wastewater treatment and disposal you are proposing.
2. Describe your proposed initial production capacity in relation to the ultimate planned capacity. If wastewater collection and disposal facilities will not be designed for the ultimate capacity, please indicate in No. 1 above the construction schedule for expanding the wastewater collection and disposal system.
3. Include a diagram, photo, or map that shows where the production facility, wastewater collection and treatment system, and the disposal site will be in relation to any streams, drainageways, property lines, roads, right-of-ways, or any other important landmarks which might create some limitations to the site.
4. A Wastewater Management Plan is required by the general permit and shall be submitted as a separate document. It will be attached to and made part of your permit. Your plan shall contain the following: (An example Plan is attached to these instructions for your reference.)
   a) A block flow diagram that should include all aspects of wastewater generation, collection, storage, treatment, and disposal. It should include the sanitary waste system as well as the process waste system.
   b) Measurements of the wastewater volumes from like facilities. If you do not have measurements, provide your best estimate. If there are times of the year that volumes will be large compared with the remainder of the year, you should provide that information. Give the average and maximum flows anticipated in gallons per day.
c) Give a range of wastewater pollutant concentrations for parameters listed. If no data from like facilities is available, you can make an estimate. The table below may be helpful in establishing these determinations for wineries:

**TYPICAL WASTEWATER CHARACTERISTICS FROM WINERIES**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>UNITS</th>
<th>CRUSHING SEASON</th>
<th>NON-CRUSHING SEASON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RANGE</td>
<td>MEAN</td>
<td>RANGE</td>
</tr>
<tr>
<td></td>
<td>RANGE</td>
<td>MEAN</td>
<td>RANGE</td>
</tr>
<tr>
<td>BOD-5</td>
<td>mg/L</td>
<td>2000 – 5000</td>
<td>2500</td>
</tr>
<tr>
<td>COD</td>
<td>mg/L</td>
<td>4000 – 10000</td>
<td>5000</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>mg/L</td>
<td>5 – 10</td>
<td>10</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>mg/L</td>
<td>5 – 40</td>
<td>20</td>
</tr>
<tr>
<td>Chloride</td>
<td>mg/L</td>
<td>100 – 250</td>
<td>150</td>
</tr>
<tr>
<td>Sodium</td>
<td>mg/L</td>
<td>100 – 200</td>
<td>140</td>
</tr>
<tr>
<td>TDS</td>
<td>mg/L</td>
<td>80 – 1600</td>
<td>800</td>
</tr>
<tr>
<td>pH</td>
<td>mg/L</td>
<td>3.5 – 5.5</td>
<td>4.1</td>
</tr>
</tbody>
</table>

d) (Indicate which months of the year wastewater will be disposed. For each of the months, indicate the source and relative quantity of the wastewater to be disposed. If different disposal systems are used for different times of the year, please explain.

e) (The information required by this section should be as complete as possible. Describe the crops grown on the irrigation site and the slope of the land as well as the general soil type. Include the acreage irrigated.

f) How will solids be removed from the wastewater or other production processes? What will the solids consist of and how will they be disposed?

g) If any chemical additives will be used, please list what they are, why they will be used, quantity used, and any characteristics of these additives that would be of concern to the disposal system.

h) How will the irrigation be managed so that irrigation runoff does not occur or groundwater is not polluted? If the wastewater contains nitrogen, other chemicals or metals which would limit the amount which would safely be put on the soil for agronomic purposes, explain how the irrigation will be handled to assure that agronomic rates are not exceeded.

D. LAND USE APPROVAL:

The Department will not process a permit application without evidence provided that the proposal is approved by local land use planning agencies and meets statewide planning goals. The attached compatibility statement may be used for that evidence.

E. OTHER PERMITS:

In order for the Department to coordinate with other agencies and other Divisions within the agency, it is important to provide information regarding the status of other applications or permits.

F. FEES:

Appropriate fees must accompany every application. Please see attached fee schedule.

DEFINITION:

Signature Line – “Legally Authorized Representative”

- Corporation – By a principal executive officer of at least the level of vice president;
- Partnership or Sole Proprietorship – By a general partner or the proprietor (owner), respectively; or
- Municipality, State, Federal, or other Public Facility – By either a principal executive officer or ranking
EXAMPLE
WASTEWATER MANAGEMENT PLAN

a) Block flow diagram:
b) Approximate wastewater volume:

- Harvest (September through November) ................. 1,000 g/d max. ....................................... 500 g/d average.
- Winter (December through April) .......................... .............. 500 g/d max. ....................................... 100 g/d average.
- Spring-Summer (May–August) ............................................ 200 g/d max. ......................................... 25 g/d average

c) Wastewater Pollutant concentration:

- Crushing Season ................ BOD-5 2,500 mg/L Nitrogen 20 mg/L
  TDS 800 mg/L; COD 5,000 mg/L
  Chloride 50 mg/L pH 4.1;
  Phosphorus 10 mg/L Sodium 150 mg/L.

- Non-Crushing Season .......... BOD-5 2,400 mg/L Nitrogen 40 mg/L
  TDS 700 mg/L; COD 4,000 mg/L
  Chloride 150 mg/L pH 4.8;
  Phosphorus 25 mg/L Sodium 140 mg/L.

d) Monthly wastewater distribution:

- January–April Tank/barrel/floor/equipment cleaning 25% of yearly total.
- May–August Floor cleaning 5% of yearly total.
- September–November Harvest equipment/tank/floor/barrel 60% of yearly total.
- December Tanks/floors/barrel cleaning 10% of yearly total. 100%

e) Land/Crop description of wastewater drainage area:

- 150 acres of permanently grassed (native grasses) orchard (fruits & nuts, etc.).
- 12' deep sandy loam topsoil over river rock (river bottom) 0.5% slope.

f) Solids removal from wastewater — solids consist of:

- Yeast following fermentation of wine. Disposed by on-site composting together with grape pomace, followed by broadcast application by manure spreader.

- Tartrates formed by reaction of tartaric acid and potassium, both naturally-occurring in juice; a.k.a. cream of tartar. The settled solids are removed prior to the discharge of wastewater to the effluent disposal system.

- Grape pomace — 100% organic residue. Composed and broadcast spread into orchard as top-dressing via manure spreader.

g) Chemical additives:

Less than 25 lbs per year of caustic soda (NaOH) with less than 2 lbs per year of Tri-sodium Phosphate (TSP) used for tank cleaning. These additives serve to raise pH of wastewater. When applied via irrigation to orchard, they counterbalance soil acidification caused by low pH wastewater. At rates applied to orchard, these chemical additives will show no adverse effects on soil. Sulfur dioxide is added only to Wine-100.

h) Irrigation Management:

The soil absorption potential is great enough that all winery effluent can be absorbed and decomposed by soil. All organic matter applied to the soil, including but not limited to pomace, tartrates, and composted yeast, enters the soil humus cycle and serves to maintain the fertility of the soil. The chemical additives present in effluent consist of sodium and phosphorus. Both are naturally occurring and in the amounts added fall within the standard range added during a well-balanced soil fertilization program. The addition of these cations and anions are considered when developing the mineral fertilization program.