



# MARYLAND WINERY, BREWERY AND DISTILLERY DISCHARGE PERMIT GUIDANCE

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## OPERATION OVERVIEW AND POTENTIAL POLLUTANTS

Wineries, breweries and distilleries are a vibrant and growing industry in Maryland. These businesses create opportunities for local communities including entertainment, drawing in customers, providing employment, and making use of our fertile lands. MDE wants to draw attention to which types of wastewater permits may be required so that this expanding opportunity is successful. These businesses take raw materials, including grapes and yeast for wine; apples, water and yeast for cider; and yeast, hops, water and grains for beer. Beverage production also generates several types of waste products which may require permits:

- a) **Settled materials or waste from the process.** This includes grape vines, bad apples, settled yeast, etc (organic waste material). These materials may have beneficial uses including land application on vegetation, composting or transporting offsite by a third party for beneficial reuse as livestock feed or as a soil conditioner product.
- b) **Wastewater from processing.** These include concentrated wash water from containers which are heated and may be rich in organic nitrogen or phosphorus. They also have miscellaneous wash waters. These include wash waters from floors and work areas that must be cleaned. This water may be chlorinated and may contain spilled raw materials or finished product. These have the potential to reduce oxygen in a receiving stream and contaminate groundwater. Potential beneficial reuse by land application is possible.
- c) **Exposure of materials to stormwater.** Stormwater has the potential to wash pollutants offsite.

## Overview of Permits that May be Required:

1. **Maryland Department of the Environment (MDE) issued General Industrial Stormwater Discharge Permit** (*info. on page 6 of this guidance*) is required for any facility whose **PRIMARY ACTIVITY** is Standard Industrial Classification Code (SIC Code):

### **2084 Wines, Brandy, and Brandy Spirits**

Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. This industry also includes bonded wine cellars which are engaged in blending wines.

- Brandy
- Ciders (alcoholic)
- Wine coolers (beverages)
- Brandy Spirits
- Wines
- Wine cellars, bonded: engaged in blending wines

### **2082 Malt Beverages**

Establishments primarily engaged in manufacturing malt beverages.

- Ale
- Breweries
- Near beer
- Porter (alcoholic beverage)
- Beer (alcoholic beverage)
- Brewers' grain
- Liquors, malt
- Stout (alcoholic beverage)

### **2085 Distilled and Blended Liquors**

Establishments primarily engaged in manufacturing alcoholic liquors by distillation, and in manufacturing cordials and alcoholic cocktails by blending processes or by mixing liquors and other ingredients.

- Applejack
- Eggnog, alcoholic
- Rum
- Cocktails, alcoholic
- Ethyl alcohol for medicinal and beverage purposes
- Spirits, neutral, except fruit-for beverage purposes
- Cordials, alcoholic
- Grain alcohol for medicinal and beverage purposes
- Vodka
- Distillers' dried grains and soluble
- Gin
- Whiskey: bourbon, rye, scotch type, and corn
- Liquors: distilled and blended-except brandy

2. **MDE Issued General Groundwater Discharge Permit** (*info. on pages 3-5 of this guidance*) for any facility for reusing process wastewater for beneficial land application or storing process wastewater for offsite transport.
3. **MDE Issued Composting Permit** (*info. on pages 3-4 of this guidance*) for any non-farm composting operations over 5000 sq ft.
4. **MDE Issued Individual Surface Waters Discharge Permit** (*info. on page 6 of this guidance*) for any facility discharging process wastewater discharge to a stormwater sewer, ditches or other conveyance to surface waters will require an individual surface water discharge permit.

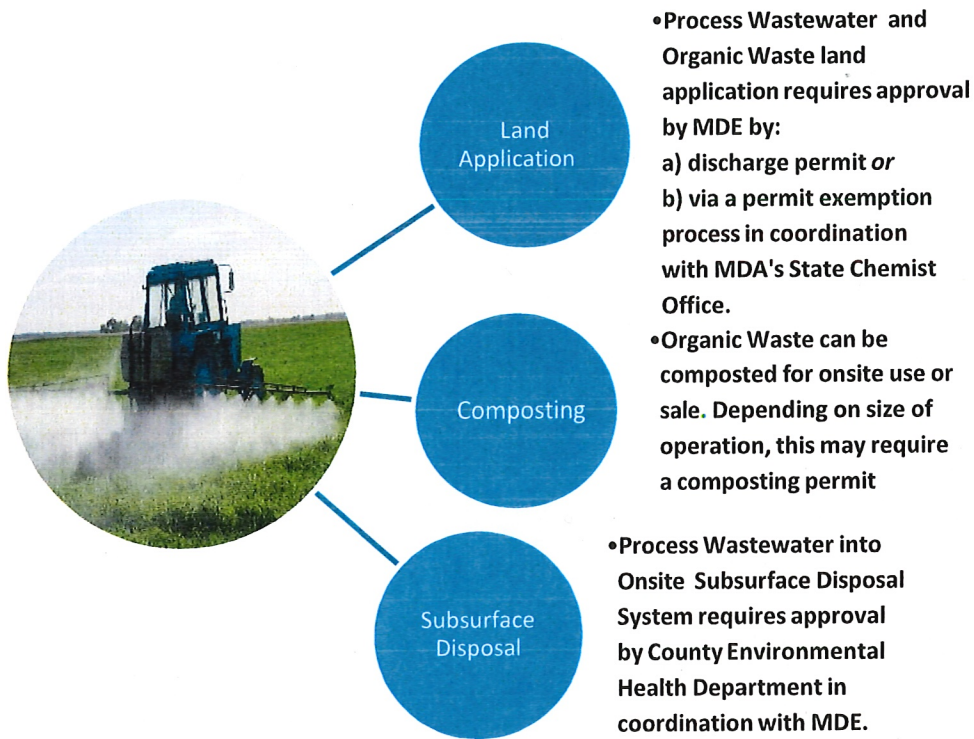
### **Contacts:**

**MDE - Industrial and General Permits Program for industrial stormwater or surface water permits. 410.537.3323.**

**MDE - Groundwater Permits Program for both onsite and offsite management options for process wastewater. 410.537.3778.**

**MDE - Resource Management Program for composting. 410.537. 3314.**

## Onsite Management Options for Process Wastewater / Waste Material:



1. **Onsite beneficial reuse of process wastewater or organic waste material via land application requires approval.** This approval may either be by a MDE issued Groundwater Discharge Permit - or with MDE Groundwater Permitting approval, via a discharge permit exemption process. *This exemption process is in coordination with MDA's State Chemist Office.* Core requirements for land application include compliance with a Nutrient Management Plan, and storage during times when wastewater or organic waste material cannot be applied, such as when soils are saturated and during winter. MDA regulations define 'winter' as between December 16 and February 28 of the following year.
2. **Non-farm composting operations over 5000 square feet are subject to MDE Composting Permit.** Non-farming composting operations that use organic materials from other sources are subject to the MDE permit if over 5000 square feet. Farm composting operations that compost only organic waste materials generated on site, or at another farm controlled by the same operator, and use the compost onsite or at another farm controlled by the same operator *are exempted from obtaining a composting permit.* All composting operations, permitted

or non-permitted, must comply with the General Restrictions and Specifically Prohibited Acts provided in COMAR 26.04.11.04. For details on Maryland's composting regulations, contact 410-537-3314.

- 3. Discharge onsite into a subsurface disposal system:** Advanced nitrogen treatment may be required. Approval is obtained through your local county **environmental health department** in coordination with **MDE**.

*Please contact MDE's Groundwater Permits Program for more information on both onsite and offsite management options for process wastewater. 410.537.3778.*

*Please contact MDE's Resource Management Program for information on composting. 410.537. 3314.*

## Offsite Management Options for Process Wastewater / Waste Material:



Transport  
Offsite

Sanitary  
Sewer

- Offsite land application of wastewater or organic waste material requires MDA State Chemist Registration.
- Storage will be required. Approval is by MDE.
- Offsite transportation of organic waste to a permitted composting facility or disposal at a solid waste facility requires no approval or permit.
- Requires Wastewater Treatment Plant Approval

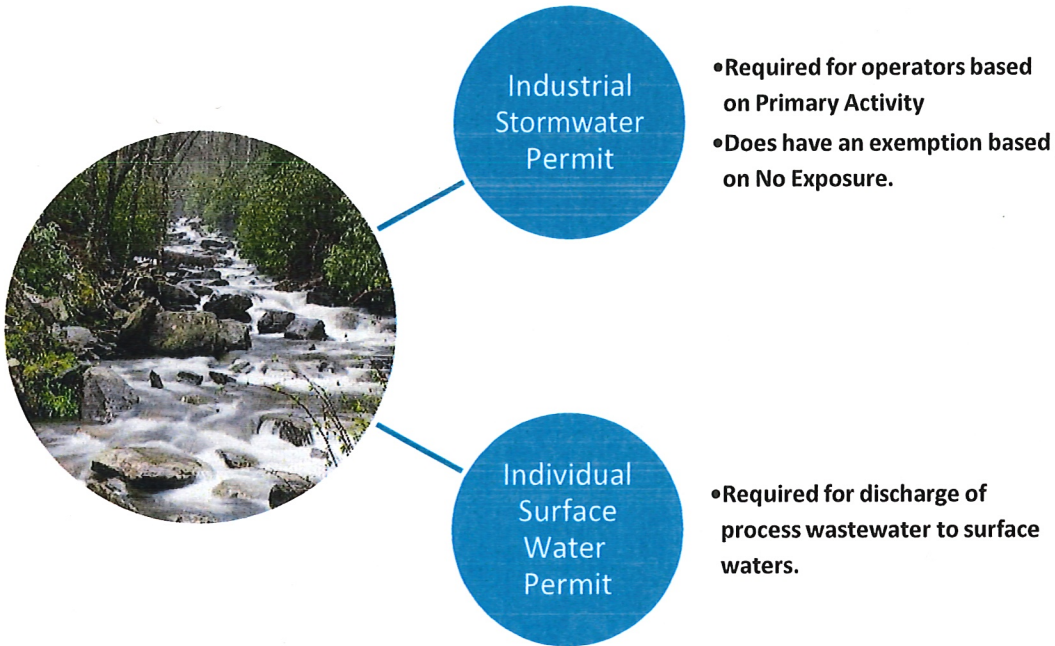
### 1. Transporting offsite options include:

- **Offsite land application** requires soil conditioner registration with MDA's State Chemist Office.
- **Storage of wastewater** for later offsite transport to an approved treatment or disposal facility, or for offsite beneficial use. **MDE approval by Groundwater Permitting** of the storage tank is required.
- **Use of organic waste material** at an approved composting facility or disposal at a solid waste facility doesn't require additional approvals, as long as the receiving facility is authorized to accept the organic waste material.

2. If located in an area serviced by a sanitary sewer treatment system, then **discharge to the wastewater treatment facility may be possible.** Approval by the wastewater treatment plant is required.

*Please contact Groundwater Permits Program for more information on both onsite and offsite management options for process wastewater. 410.537.3778.*

## Surface Water Discharges of Stormwater and Waste Water / Waste Material



- 1. Based on federal regulations of Stormwater Associated with Industrial Activity, businesses whose ‘primary activity’ is making wine, beer or other distilled spirits are required to obtain coverage under an Industrial Stormwater Permit with associated Stormwater Pollution Prevention Plan (SWPPP). The filing of a No Exposure Exemption may also be an option.**

*Note: Discharges of industrial stormwater and pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed) are allowed under this permit.*

- 2. Process wastewater discharge to a stormwater sewer, ditches or other conveyance to surface waters will require an individual surface water discharge permit. Organic waste material cannot be deposited in wetlands.**

***Please contact Industrial and General Permits Program for more information on industrial stormwater or surface water permits. 410.537.3323.***