

WD-DWGB-22-10

2015

Wastewater Discharges from Vehicle Washing

Water used in washing cars, trucks, and other vehicles may contain a wide range of contaminants. These contaminants can include oil, fuels and other hydrocarbons, metals, detergents, road salt and grit. Discharged into surface waters, these contaminants can degrade water quality and harm aquatic life. Discharged into groundwater, they can make water unfit for drinking. To avoid these problems and the legal consequences that may result, the following guidelines apply to facilities where vehicles are washed on a regular basis and the wash water is collected by a conveyance such as a drain, catch basin, ditch or swale and infiltrated to the ground or groundwater*. Owners of facilities that conduct washing activities have four options for their wastewater discharges:

1. Operate a closed system with wastewater recycling (no discharge of wastewater).
2. Discharge to a municipal sanitary sewer.
3. Obtain a groundwater discharge permit.
4. Obtain registration to wash fewer than 30 vehicles per week and discharge to the ground *surface only*.

1. Closed System with No Discharge

This does not require a permit. However, it may require a “Holding Tank Registration” if the treatment system has a grit and oil tank that is pumped out. The water and sludge that are pumped from the tank must be collected and disposed of at an approved disposal facility, i.e., a wastewater treatment plant or hazardous waste disposal facility, depending on the nature of the material.

2. Discharge to Municipal Sanitary Sewer

Connections to your municipal sanitary sewer are controlled by the local sewer authority. Contact the local authority regarding restrictions. Some local sewer authorities do not allow connection of floor drains, while others allow connection only with adequate pretreatment, e.g., an oil/grit separator, or other controls. If you connect an existing floor drain to a municipal sanitary sewer, you still need to notify NHDES.

* These restrictions do not apply to occasional vehicle washing, such as at residences or occasional events such as fundraising car washes. For more information on community car washes and water quality see fact sheet WD-WMB-14 “Community Car Washes and Water Quality” at <http://des.nh.gov/organization/commissioner/pip/factsheets/wmb/documents/wmb-14.pdf>.

3. Obtain a Groundwater Discharge Permit

You may discharge vehicle wash water directly to the ground if both of the following are true:

- a. A groundwater discharge permit is obtained in accordance with Env-Wq 402.11; and
- b. The wash water is treated to ambient groundwater quality standards (Env-Or 600, Table 600-1) using best available technology (typically granular activated carbon).

4. Wash Fewer than 30 Vehicles per Week

If you wash fewer than 30 vehicles per week, you may be able to discharge indirectly to groundwater without obtaining a groundwater discharge permit. However, you need to follow Env-Wq, 401 Best Management Practices for Groundwater Protection to avoid contamination of your wash water with regulated substances. You also need to register your discharge and floor drain, if any. To avoid having to obtain a groundwater discharge permit, you must meet *all* of the following conditions:

- a. Best Management Practices for Groundwater Protection are followed.
- b. The floor drain is *not* in an area where regulated contaminants are used or stored.
- c. The wastewater:
 - Is *not* from power washing, steam cleaning, engine cleaning or undercarriage cleaning.
 - Is *not* from a chemical or acid wash.
 - Does *not* contain soaps or other products that contain regulated contaminants.
 - Does *not* result in a surface water discharge.
 - Discharges to the ground surface.
 - Contains only approved detergents.
 - Leads to an oil/water separator or other pretreatment method prior to infiltration.
 - Is registered with NHDES in accordance with Env-Wq 402.33.

Owners of facilities with these discharges are responsible for ensuring that regulated contaminants are not discharged and that groundwater is suitable for drinking without treatment. NHDES reserves the right to verify compliance by requiring the collection and analysis of soil samples from the discharge area(s) under Env-Wq 402.33.

Surface Water Discharges

In order to adequately protect the quality of surface water in New Hampshire, direct discharges of wastewater derived from car washing into surface water is **prohibited**. For more information about permitting of discharges to surface water, contact the NHDES Wastewater Engineering Bureau at (603) 271-3908.

For Additional Information

For more information about groundwater discharges, holding tank registration, floor drain registrations, and rules, please call (603) 271-2858 or visit NHDES' Groundwater Discharge Permitting & Registration webpage at: http://des.nh.gov/organization/divisions/water/dwgb/dwspp/gw_discharge/index.htm.

For additional information, please contact the Drinking Water and Groundwater Bureau at (603) 271-2513 or dwgbinfo@des.nh.gov, or visit <http://des.nh.gov/organization/divisions/water/dwgb/index.htm>.

Note: This fact sheet is accurate as of January 2015. Statutory or regulatory changes or the availability of additional information after this date may render this information inaccurate or incomplete.