

# BG-22 Automotive Service Facilities—Service Stations



Photo Credit: Geoff Brosseau

## Description

This category includes service stations that provide vehicle fueling services such as self-serve pumps and car washing facilities. Information specific to auto dismantling, body repair, and maintenance is provided in other guide sheets.

## Approach

Minimize exposure of fueling areas to rain and runoff by using cover and containment. In and around these areas, use good housekeeping measures to minimize the generation of pollutants. Make stormwater pollution prevention best management practices (BMPs) a part of standard operating procedures and the employee training program. Provide employee education materials in the first language of employees, as necessary.

### Coverage

These BMPs cover the following activities or areas:

- Fuel dispensing
- Underground storage tanks
- Air/Water supply
- Outdoor waste receptacles

## Pollutant Sources

- Fueling
- Spills
- Surface cleaning
- Air/water supply
- Dumpster and trash can areas

## Relevant Pollutants

- Heavy metals (copper, lead, nickel, and zinc)
- Hydrocarbons (oil and grease, polycyclic aromatic hydrocarbons PAHs)
- Toxic chemicals (benzene, toluene, xylene, methyl tertiary-butyl ether)
- Detergents
- Food waste and trash



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## ■ Car washing facilities

Retail gasoline outlets typically have these activities and areas on-site. Outdoor activities and areas are potentially exposed to stormwater runoff, and pollutants can be transported to the storm drain system via leaks or spills. The BMPs described in this guide sheet are intended to be implemented, monitored, and maintained on a year-round basis. Training of employees in good housekeeping measures and spill and leak prevention is critical in preventing discharge of pollutants in stormwater.

## Source Control BMPs

The BMPs are listed in this table by activity or area.

<b>Fuel Dispensing Areas</b>	<ul style="list-style-type: none"> <li>❑ Maintain fuel dispensing areas using dry cleanup methods such as sweeping to remove litter and debris or rags and absorbents for leaks and spills. Do not wash down fueling areas unless the wash water is collected and disposed of properly.</li> <li>❑ Fit fuel dispensing nozzles with “hold-open latches” (automatic shutoffs) except where prohibited by local fire departments.</li> <li>❑ Post signs at the fuel dispenser or fuel island warning vehicle owners and operators against topping off of vehicle fuel tanks.</li> <li>❑ Fit underground storage tanks with spill containment and overfill prevention systems meeting the requirements of section 2635(b) of Title 23 of the California Code of Regulations.</li> </ul>
<b>Under-ground Storage Tanks</b>	<ul style="list-style-type: none"> <li>❑ Train employees in implementing proper leak and spill prevention and cleanup practices. Major spills require specialized materials and emergency support personnel.</li> </ul>
<b>Facilities—General</b>	<ul style="list-style-type: none"> <li>❑ “Spot clean” leaks and drips routinely. Leaks are not cleaned up until the absorbent is picked up and disposed of properly.</li> <li>❑ Maintain and keep current, as required by other regulations, a spill response plan and ensure that employees are trained on the elements of the plan.</li> <li>❑ Manage materials and waste to reduce adverse impacts on stormwater quality.</li> <li>❑ Train all employees upon hiring and annually thereafter on proper methods for handling and disposing of waste. Make sure that all employees understand stormwater discharge prohibitions, wastewater discharge requirements, and these BMPs. Use a training log or similar method to document training.</li> <li>❑ Label/stencil drain inlets within the facility boundary to remind employees and customers whether they flow to an oil/water separator, directly to the sewer, or to a storm drain. Labels are not necessary for plumbing fixtures directly connected to the sanitary sewer.</li> <li>❑ Routinely inspect and clean if necessary storm drain inlets and catch basins within the facility boundary before the beginning of the rainy season (October 1) each year.</li> </ul>

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<b>Outdoor Waste Receptacle Area</b>	<ul style="list-style-type: none"> <li>□ “Spot clean” leaks and drips routinely to prevent runoff of spillage.</li> <li>□ Minimize the possibility of stormwater pollution from outside waste receptacles by implementing at least one of the following:               <ul style="list-style-type: none"> <li>✓ Use only watertight waste receptacles and keep the lids closed,</li> <li>✓ Grade and pave the waste receptacle area to prevent run-on of stormwater,</li> <li>✓ Install a roof over the waste receptacle area,</li> <li>✓ Install a low containment berm around the waste receptacle area, or</li> <li>✓ Use and maintain drip pans under waste receptacles.</li> </ul> </li> </ul>
<b>Air/ Water Supply Area</b>	<ul style="list-style-type: none"> <li>□ Minimize the possibility of stormwater pollution from air/water supply areas by implementing at least one of the following:               <ul style="list-style-type: none"> <li>✓ “Spot clean” leaks and drips routinely to prevent runoff of spillage,</li> <li>✓ Grade and pave the air/water supply area to prevent run-on of stormwater,</li> <li>✓ Install a roof over the air/water supply area, or</li> <li>✓ Install a low containment berm around the air/water supply area.</li> </ul> </li> </ul>
<b>Car Washing Facility</b>	<ul style="list-style-type: none"> <li>□ Install a wash water treatment system; do not discharge wash water directly to the storm drain.</li> <li>□ Minimize the possibility of stormwater pollution from car washing facilities by implementing the following:               <ul style="list-style-type: none"> <li>✓ Grade and pave the car wash area to prevent run-on of stormwater,</li> <li>✓ Install a roof over the car wash area,</li> <li>✓ Slope the car wash area toward the wash water treatment system, not the storm drain, and</li> <li>✓ Train employees in implementing proper leak and spill prevention and cleanup practices.</li> </ul> </li> </ul> <p>(See fact sheet SC-21 – Vehicle and Equipment Washing and Stream Cleaning for other information)</p>

## Treatment Control BMPs

If treatment controls are installed at the facility, see section 4 of this Handbook for information on inspecting and maintaining the BMPs.

For information on designing treatment controls, see section 5 of the *Development Planning Handbook*.

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## More Information

### Booklets, Checklists, Fact Sheets, and Pamphlets

Alameda County Clean Water Program. 2012. *Tips for a Cleaner Bay: How Your Vehicle Service Facility Can Prevent Stormwater Pollution*. Available online at [http://www.cleanwaterprogram.org/uploads/IIDC\\_Vehicle\\_2012.pdf](http://www.cleanwaterprogram.org/uploads/IIDC_Vehicle_2012.pdf).

California Department of Toxic Substances Control. 2010. *California Green Station Program, Vehicle Service and Repair (VSR)*. Webpage includes fact sheets, training modules, and other resources. Available online at <https://dtsc.ca.gov/vehicle-service-and-repair-vsr/>.

California Department of Toxic Substances Control. 2001. *Case Studies in Aqueous Parts Cleaning*. Available online at <https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/01/CasestudiesAuto02.pdf>.

Sacramento Stormwater Management Program. n.d. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at <http://www.waterresources.sacounty.net/stormwater/documents/industrial-BMP-manual.pdf>.

San Bernardino County Stormwater Program. n.d. *Gas Station—Illegal Discharge*. (Pamphlet). Available online at <http://sbcountystormwater.org/PDF/SBC-Gas-Station-Handout.pdf>.

San Bernardino County Stormwater Program. n.d. *Stormwater Pollution Prevention Auto Maintenance*. (Pamphlet). Available online at [http://sbcountystormwater.org/PDF/fact\\_sheets/Fact\\_sheet\\_Auto.pdf](http://sbcountystormwater.org/PDF/fact_sheets/Fact_sheet_Auto.pdf).

U.S. Environmental Protection Agency. 1999. *Best Environmental Practices for Auto Repair: Aqueous Part Cleaning*. Available online at <https://www.epa.gov/sites/production/files/2016-02/documents/autoclean.pdf>.

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U.S. Environmental Protection Agency. 1999. *Profit through Prevention, Best Environmental Practices for Fleet Maintenance*. Available online at <https://www.epa.gov/sites/production/files/2016-02/documents/profit.pdf>.

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Alameda County Clean Water Program, 2012, *Tips for a Cleaner Bay: How Your Vehicle Service Facility Can Prevent Stormwater Pollution*. Available online at [http://www.cleanwaterprogram.org/uploads/IIDC\\_Vehicle\\_2012.pdf](http://www.cleanwaterprogram.org/uploads/IIDC_Vehicle_2012.pdf).

California Coastal Commission, 2002, *Model Urban Runoff Program Appendix 4W BMPs for Vehicle Service Facilities*. Available online at <http://www.montereysea.org/docs/program/MURP.pdf>.

City of Santa Cruz. Revised 2010. *Vehicle Service Facilities: Best Management Practices – Chapter 1 of Best Management Practices Manual for the Storm Water Program*. Available online at <http://www.cityofsantacruz.com/home/showdocument?id=6038>.

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U.S. Environmental Protection Agency. 2017. *Auto Repair and Fleet Maintenance Pollution Prevention*. Includes fact sheets and videos. Available online at <https://www3.epa.gov/region9/waste/p2/autofleet/index.html>.