

S453 BMPs for Washing Light Rail Elevated Guideways

Description of Pollutant Sources: Pollutant sources are from the light rail electrical and mechanical components which may include metals, dust, and hydrocarbons. The pollutants have the ability to fall and collect on the elevated guideways.

Pollutant Control Approach: The preferred approach is for washing activities to remove accumulated pollutants from the elevated guideways. Under this preferred approach, pollutants accumulated on the elevated guideways are removed, resulting in reduced contributions to the area surrounding the elevated guideways.

Applicable Operational BMPs:

Conduct elevated guideway washing with a dedicated vector truck that collects and contains water sprayed onto the elevated guideway. All elevated guideway washing activities shall only take place during track downtimes.

Elevated guideway washing BMP components include:

- **Frequency:** Due to limited service down time, frequency is determined by light rail operational performance needs to clean the elevated guideway. With this BMP, pollutants accumulated on the elevated guideway are removed, which provides stormwater benefit by reducing contributions to the environment.
- **Areas of Focus:** The entire elevated guideway area shall be washed with additional emphasis placed on the rail and rail seat.
- **Vector Truck:** A vector truck shall be used for all elevated guideway washing activities. The truck shall be designed to vacuum up water sprayed during the cleaning process. The water will be properly discharged to the wastewater collection system, with approval from the owner, when the truck returns to the maintenance facility (see [Appendix IV-B: Management of Street Waste Solids and Liquids](#)).

Upon return to the maintenance facility, discharge timing shall be determined in coordination with washing and rinsing flushing intervals for compliance with all permits.

- **Elevated guideway Drains:** All runoff from elevated guideway washing will be contained, collected, and disposed of with the vector truck water.