

Description of Maintenance Facility Activities

The Facility serves multiple functions for the Public Works Department. Table 2-1 lists the activities conducted in areas that can drain to the stormwater system. The table also lists the types of pollutants that could be associated with each activity.

Table 2-1 General Facility Activities and their <i>Potential</i> Effects on Stormwater										
Facility activity	Description of Facility activity (Figure 2-2 location)	Potential pollutants in stormwater runoff								
		Sediment/ suspended solids	Nutrients	Metals	Bacteria	Hydrocarbons	Other organics	Dissolved solids	Oxygen demanding substances	Abnormal pH
Storage of liquid materials in stationary tanks ^a	A 500-gallon aboveground storage tank containing diesel to fuel a backup generator is also located in this area (Area 1).					✓	✓		✓	
Storage of liquid materials in portable containers ^a	Containers of unknown materials are stored in a shed and on an adjacent pallet located at the eastern edge of the site (Area 2).	?	?	?		?	?	?	?	?
Fueling operations ^a	Fueling is conducted at the fuel island supplied by underground storage tanks (Area 3).					✓	✓			
Outside storage of non-containerized materials, by-products, or finished products ^b	Several areas are used for outdoor storage of any of the following: metals, building materials, including galvanized pipe, and concrete products; or erodible materials, including sand and gravel. The sand and gravel piles are contained in bays (Area 4).	✓	✓	✓		✓		✓	✓	✓
Vehicle rinsing ^c	Vehicles are rinsed off at the vehicle wash area located to the south of the mechanics building (Area 5).	✓	✓	✓		✓	✓	✓		
Storage of solid waste ^a	A dumpster with a mesh lid is located south of the mechanics building (Area 6).	✓	✓	✓	✓	✓	✓		✓	✓
	Street-sweeping waste is stored in the street-sweeping waste dumpster located at the eastern edge of the site (Area 7).	✓	✓	✓	✓	✓	✓		✓	
Loading and unloading area for liquid or solid material ^c	City trucks decant waste from storm sewer cleaning. Roof does not cover entire pad (Area 8).	✓	✓	✓	✓	✓	✓		✓	
	De-icing brine is pumped from inside the materials storage shed into a large tank located outside of the building and then subsequently loaded onto Public Works vehicles for transport (Area 9).	✓						✓		✓
Vehicle and equipment parking and storage ^b	Parking of City cars, eductor trucks, dump trucks, and other equipment occurs throughout the site.	✓		✓		✓	✓			

BMP Activity Sheets were adopted from the following sources and are included in Appendix B:

a. King County Stormwater Pollution Prevention Manual

b. City of Seattle Source Control Technical Requirements Manual

c. Stormwater Management Manual for Western Washington, Volume IV: Source Control BMPs

Inventory of Significant Materials and Chemicals

Table 2-2 lists the materials and chemicals stored in areas that could drain to the storm drainage system and pose a potential threat to stormwater. It should be noted that materials are moved around frequently; therefore, quantities are constantly changing.

Table 2-2. Materials Exposed or Potentially Exposed to Rainfall/Runoff				
List of exposed significant materials	Period of exposure	Quantity	Map location(s)	Method of storage, handling, and disposal
Diesel fuel	Continuous	500 gallons	Area 1	Diesel is stored in a double-walled AST. It is transferred according to manufacturer safety protocols.
Liquid materials: unknown type and quantity	Continuous	Approximately 15 five gallon containers, plus several larger containers; volume in containers is unknown	Area 2	Containers of unknown materials are stored on pallets within and outside of shed (note: City plans to hire a contractor to characterize and properly dispose of these materials in accordance with applicable regulations).
Miscellaneous drainage & utility equipment (e.g., pipes, signs, meters)	Continuous	NA	Area 4	Stored on ground, used when needed.
Gravel, sand, and other material stockpiles	Continuous	Approximately 3,000 yd ²	Area 4	Stored in contained areas.
Garbage dumpster with mesh cover	Continuous	1 dumpster	Area 6	Dumpster emptied as necessary.
Street-sweeping dumpster	Continuous	1 dumpster	Area 7	Dumpster emptied as necessary.
Miscellaneous maintenance vehicles	Continuous	Up to 12	Areas 6 & 1	Most vehicles are stored under cover.