Environmental Services

Pollution Prevention Services

Source Control Requirements at Plan Review

Source Control requirements protect city sewer systems and the community's watersheds. They are based on the following goals and objectives:

- Emphasize structural controls over operational procedures
- Control pollutants at source rather than treat at discharge
- Prevent stormwater pollution
- Protect soil, groundwater, and surface water
- Segregate stormwater and wastewater flows
- Direct wastewater discharges to the sanitary or combined sewer system
- Direct stormwater from areas that have the potential for acute releases or accidental spills to an approved method of containment or disposal
- Safely contain spills onsite

What is Source Control?

Source Control administers various programs that protect storm, sanitary, and natural systems. These programs include:

- Stormwater Management Manual (SWMM) Plan Review
- Stormwater discharge permits (NPDES permits)
- Pretreatment discharge permits
- Alternative Discharge Control Mechanism Authorizations
- Extra Strength Sewer Discharge billing program
- Fats, oils, and grease (FOG)
- Submeter program (credit and charge meters)
- Pollution Prevention Certification programs (Landscape and Automotive certifications)

What Triggers a Source Control Plan Review? (not limited to this list)

Building Permit Actions:

- New development
- Redevelopment
- Tenant improvements
- Violation cases
- New activity areas
- Existing sites proposing new offsite discharges
- Outdoor storage area changes/revisions
- Plumbing changes/revisions

Business Types/Activities:

- Industrial sites (e.g. mfg)
- Industrial properties using large quantities of water
- Breweries
- Grocery stores
- Large restaurants
- Commercial kitchens
- Laundries
- Delis
- Bakeries
- Changes in process areas
- Increased industrial water usage

ENVIRONMENTAL SERVICES
CITY OF PORTLAND
working for clean rivers

Dan Saltzman, Commissioner
Dean Marriott, Director

For more information
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Stormwater Management Manual (SWMM)
Outline of Source Control Requirements

Section 1.33 Additional pollution reduction for vehicle and equipment areas:

- Coalescing oil/water separator installed upstream of stormwater management facilities
- Operation and Maintenance (O&M) plan for the oil/water separator
- Paved storage area

Section 4.4 Dewatering:

- Waterproofed structure required
- Onsite infiltration and private systems are required and proposals are evaluated on a case-by-case basis. Additional requirements apply when discharge to a city system cannot be avoided.
- Meter volume fees are assessed for all dewatering
- Form 4 in appendix D of the SWMM required

Section 4.5 Recycling and solid waste areas

- Permanent structural cover sized to the activity area
- Pavement beneath activity area
- Isolation from stormwater run-on (e.g. asphalt berms)
- Drainage beneath the cover to an approved sanitary system

Section 4.6 Material transfer areas/loading docks:

- Pavement beneath activity area
- 3 foot isolation from dock face (e.g. drains or asphalt berms)
- Isolated dock area drained to an approved sanitary system
- Shut-off valves - on case-by-case basis
- Spill signage
- Possible additional wellhead protection requirements

Section 4.7 Fuel dispensing facilities and surrounding traffic areas:

- Permanent structural cover sized to the activity area
- Pavement beneath structural cover
- Drainage to an approved sanitary system
- Spill control manhole or oil/water separator on sanitary discharge
- Spill signage
- Possible additional discharge permitting requirements
- Shut-off valves for both sanitary system and adjacent stormwater system

Section 4.8 Liquid material storage (above ground):

- Secondary containment
- Permanent structural cover sized to the activity area (except tank farms)
- Pavement beneath activity area with sealed (e.g. epoxy) floor
- Drainage to an approved sanitary system
- Shut-off valves - on case-by-case basis
- Spill signage
- Possible additional wellhead and discharge permitting requirements

Section 4.9 Washing areas:

- Permanent structural cover over the activity area
- Paved wash pad area
- Drainage to an approved sanitary system
- Oil/water separator on sanitary discharge

Section 4.10 Exterior storage of bulk materials:

- Permanent cover sized to the activity area
- Pavement beneath activity area
- Drainage to an approved sanitary system
- Spill signage
- Possible additional regulations and wellhead protection requirements

Section 4.11 Soil and stormwater management for development on contaminated sites:

- Soil management - covered with liner beneath soil pile
- Environmental site assessment required
- Stormwater infiltration may not be allowed
- Laboratory analysis reports required
- Dewatering requirements in 4.4 apply
- Post-construction water reclaim or reuse systems
- New connections must follow policy

Section 4.12 Vehicle parking areas:

- Depending on design, there are sanitary and storm drainage requirements for both covered and uncovered parking structures

Section 4.13 Water reclaim and reuse systems:

- Groundwater or stormwater reclaim and reuse that is used as non-potable water must be metered for sewer billing charges. Reuse for irrigation water is exempt from this requirement.

The Source Control requirements are in addition to the applicable pollution reduction, flow control, and infiltration/discharge requirements identified in Chapter 1 of the SWMM.
Refer to the SWMM online at www.portlandonline.com/bes/swmm.

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