

Stormwater Treatment Measures: Operation and Maintenance



Rain and irrigation water can collect pollutants as it flows over parking lots, roadways, roofs, sidewalks, and vegetation. Stormwater treatment systems such as bioretention areas, vegetated swales, and media filters capture and prevent pollutant from reaching stormwater drains, creeks, and the Bay. Property owners and/or site operators are responsible for proper maintenance and repair of systems per their Stormwater Treatment Measures Maintenance Agreement with the City of Hayward.

Maintaining Mechanical Stormwater Treatment Measures

Mechanical Stormwater Treatment Systems, such as media filters and vortex separators, remove pollutants by separating floatable debris and filtering stormwater runoff. Mechanical Stormwater Treatment Systems require regular inspections and maintenance by qualified personnel to ensure that they are functioning properly. The primary objective of maintenance is to prevent sediment build up and clogging. Therefore, maintenance activities often require the use of vacuum trucks to remove settled solids from the vault floor, as well as personnel that have OSHA confined space certification. This will typically require contracting the system manufacturer or another company that is qualified to inspect and make repairs to the system.



Devices should be inspected twice annually, before and after a rainy season.

Maintaining Landscape Based Treatment Measures

Landscape based treatment systems such as bioretention basins, vegetated swales, infiltration basins, tree wells, and flow through planters remove pollutants in stormwater by filtering runoff through vegetation and soil. Maintenance is required for these systems to function properly. Maintenance activities include but are not limited to:



- Removing trash/debris.
- Removing weeds/invasive species.
- Pruning when necessary.
- Replacing dead/deceased vegetation.
- Insuring adequate irrigation.
- Repairing erosion or damage.
- Avoid using herbicides, pesticides, or synthetic fertilizers.

Maintaining Permeable Pavement Systems

Permeable pavement systems consist of porous asphalt-like or concrete-like material or a series that is highly permeable or a series of pavers that allow water to flow through the joints between them. These systems allow stormwater to be filtered and stored in a rock layer before infiltrating into the soil below. Maintenance activities include, but are not limited to:

- Replacing and repairing broken pavers.
- Ensuring inlets and outlets are not blocked.
- Replenishing aggregate joints.
- Surface vacuuming or sweeping. Do not power wash.



FAQ

When should I conduct Maintenance and Inspections?

Maintenance should be conducted before each rainy season. For annual Operation and Maintenance Inspection Reports, inspections should be performed between August 1st-October 1st. Annual reports should be submitted by December 31st of each year to wpsc.staff@hayward-ca.gov, or mailed to 24499 Soto Rd., Hayward, CA 94544.

What do I need to submit?

Property owners or operators must submit Annual Reports annually by December 31st to wpsc.staff@hayward-ca.gov. Annual Reports must include a completed Stormwater Treatment Measures Operation and Maintenance Inspection Report and checklist(s).

What type of stormwater treatment system(s) do I have?

If you are unsure of the type of stormwater treatment system(s) you have please contact our staff at wpsc.staff@hayward-ca.gov.

Who can I call to conduct Maintenance and Inspections?

Inspections and maintenance can be completed by property owners or operators or may be completed by a third-party company. Companies that offer inspections and maintenance of the systems discussed above include, but are not limited to:

Company	Phone	Email
SWIMS	(866) 967-9467	info@swimsclean.com
Frog Environmental	(877) 376-4368	frogsales@frogenv.com
Revel Environmental Manufacturing, Inc.	(888) 526-4736	N/A
Pacific Stormwater Solutions	(707) 544-5012	N/A

Please visit our website for more information: <https://www.hayward-ca.gov/services/city-services/clean-water-program>.