

# BayFilter<sup>®</sup> Inspection and Maintenance Manual

The BayFilter system requires periodic maintenance to continue operating at the design efficiency. The maintenance process is comprised of the removal and replacement of each BayFilter cartridge, vertical drain down module, and the cleaning of the vault or manhole with a vacuum truck.

The maintenance cycle of the BayFilter system will be driven mostly by the actual solids load on the filter. The system should be periodically monitored to be certain it is operating correctly. Since stormwater solids loads can be variable, it is possible that the maintenance cycle could be more or less than the projected duration.

BayFilter systems in volume-based applications are designed to treat the WQv in 24 to 48 hours initially. Late in the operational cycle of the BayFilter, the flow rate will diminish as a result of occlusion. When the drain down exceeds the regulated standard, maintenance should be performed.

When a BayFilter system is first installed, it is recommended that it be inspected every six (6) months. When the filter system exhibits flows below design levels the system should be maintained. Filter cartridge replacement should also be considered when sediment levels are at or above the level of the manifold system.



**BayFilter System Cleanout**



**Vactor Truck Maintenance**



**Jet Vactoring Through Access Hatch**

# Maintenance Procedures

1. Contact ADS for replacement filter cartridge pricing and availability.
2. Remove the manhole covers and open all access hatches.
3. Before entering the system make sure the air is safe per OSHA Standards or use a breathing apparatus. Use low O<sub>2</sub>, high CO, or other applicable warning devices per regulatory requirements.
4. Using a vacuum truck remove any liquid and sediments that can be removed prior to entry.
5. Remove the hold down bars. Using a chain hoist, lift or boom, lift the used cartridges out of the structure.
6. As needed, slide cartridges across the floor to position them under an access point for removal. The chain hoist (if provided) can also be used for this purpose.
7. When all the cartridges have been removed, it is now practical to remove the balance of the solids and water, using the vac truck. Loosen the stainless clamps on the Fernco couplings for the manifold and remove the drain pipes as well. Carefully cap the manifold and the Ferncos and rinse the floor, washing away the balance of any remaining collected solids.
8. Clean the manifold pipes, inspect, and reinstall.
9. Install the exchange cartridges, reinstall the hold down bars and close all covers.
10. Discard used cartridges at a local landfill or in accordance with applicable regulations.



**Manifold Tee View of a Clean System**



**Cartridge Hoist Point**

