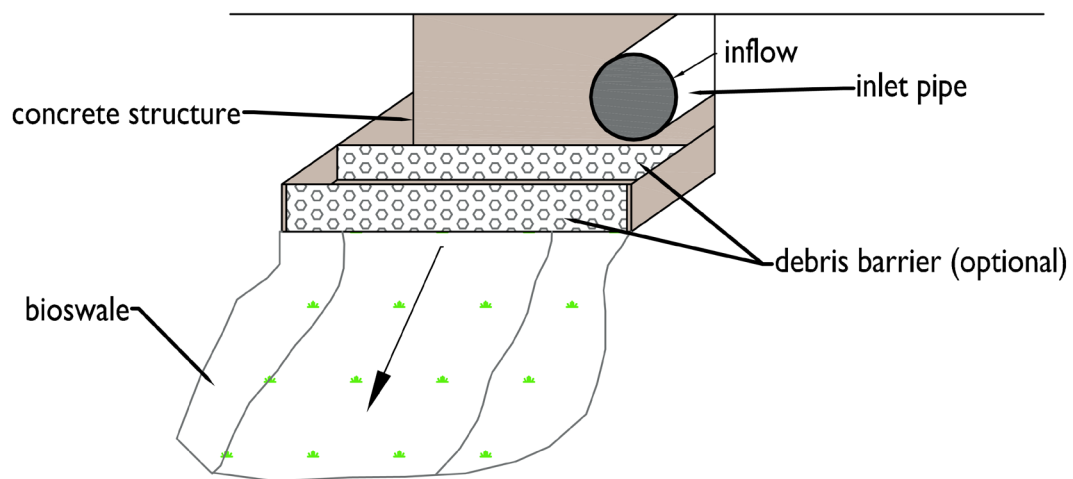


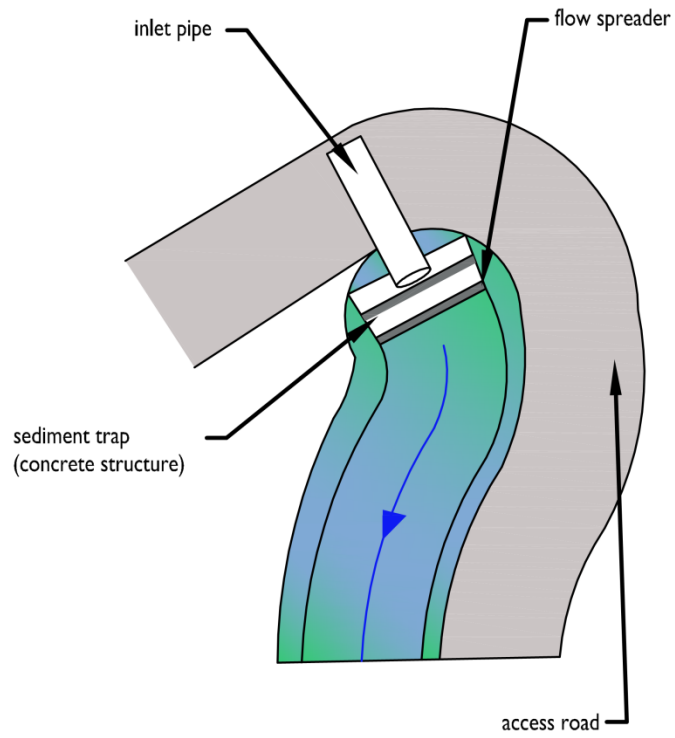
## Sediment Trap

A sediment trap is a concrete structure typically fitted with a slotted grate or multiple slotted grates (debris barriers). The concrete structure provides a storage volume (sump) below the outlet pipe to allow sediments and debris to settle out of the stormwater runoff. Some sediment traps are fitted with a spill control device (elbow on outlet pipe) intended to help direct and dissipate flow. The slotted grate (debris barrier) prevents larger debris from exiting the level spreader.

Facility objects that are often associated with a sediment trap include:

- access road or easement
- fence, gate, and water quality sign
- typical bioswale
- wet bioswale





**Sediment Trap with Accumulated Sediment**

## Key Operations and Maintenance Considerations

- The most common tool for cleaning sediment traps is a truck with a tank and vacuum hose (Vactor® truck) to remove sediment and debris from the sump area. Hand tools (e.g. rake, broom, square shovel) are also commonly used for cleaning.

| Sediment Trap                     |  |   |   |
|-----------------------------------|--|---|---|
| Drainage System Feature           | Potential Defect                           | Conditions When Maintenance is Needed   | Minimum Performance Standard  |
| Note: table spans multiple pages. |  |   |   |
| General                           | Trash and Debris                           | Trash or debris which is located immediately in front of the sediment trap opening or is blocking inletting capacity of the basin by more than 10%.   | No trash or debris located immediately in front of sediment trap or on grate opening. |
|                                   |  | Trash or debris (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin.                          | No trash or debris in the sediment trap.  |
|                                   |  | Trash or debris in any inlet or outlet pipe blocking more than 1/3 of its height.   | Inlet and outlet pipes free of trash or debris.                                       |
|                                   |  | Dead animals or vegetation that could generate odors that could cause complaints or dangerous gases (e.g., methane).  | No dead animals or vegetation present within the sediment trap.                       |
|                                   | Sediment                                   | Sediment (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin .                                | No sediment in the sediment trap.   |
|                                   | Structure Damage to Frame and/or Top Slab  | Slab has holes larger than 2 square inches or cracks wider than 1/4 inch. (Intent is to make sure no material is running into basin.)   | Structure is free of holes and cracks.  |
|                                   | Fractures or Cracks in Basin Walls/ Bottom | Maintenance person judges that structure is unsound.  | Sediment trap replaced or repaired to meet design specifications.                     |
|                                   |  | Grout fillet has separated or cracked wider than 1/2 inch and longer than 1 foot at the joint of any inlet/outlet pipe or any evidence of soil particles entering catch basin through cracks. | Pipe is regouted and secure at basin wall.  |
|                                   | Settlement/ Misalignment                   | If failure of basin has created a safety, function, or design problem.  | Sediment trap replaced or repaired to design specifications.                          |

| Sediment Trap                     |                            |   |  |
|-----------------------------------|----------------------------|---|--|
| Drainage System Feature           | Potential Defect           | Conditions When Maintenance is Needed   | Minimum Performance Standard                     |
| Note: table spans multiple pages. |                            |   |  |
|                                   | Vegetation                 | Vegetation growing across and blocking more than 10% of the basin opening.  | No vegetation blocking opening to sediment trap. |
|                                   | Contaminants and Pollution | Any evidence of oil, gasoline, contaminants or other pollutants. (Coordinate removal/cleanup with local water quality response agency.) | No contaminants or pollutants present.           |
| Debris Barrier (optional)         | Trash and Debris           | Trash and debris that is blocking more than 20% of grate surface inletting capacity.  | Grate free of trash and debris.                  |
|                                   | Damaged or Missing         | Grate missing or broken member(s) of the grate.   | Grate is in place and meets design standards.    |