

## MAINTAINING STORMWATER CONTROL MEASURES *Guidance for Private Owners & Operators*

### STORMWATER CONTROL MEASURES

#### Oil-Water Separator

Oil-water separators are single or multi-chambered devices used to remove oil, sediment, and other pollutants from stormwater as it moves through the system. They are typically used in industrial and garage facilities to provide pretreatment of floor drain water. Oil-water separators allow oil and other substances lighter than water to either float to the top of the system or be intercepted and collected for disposal. Substances heavier than water (i.e., sediment and other solids) settle into sludge at the bottom of the system. Removal of pollutants from an oil-water separator according to the design levels and schedule is critical, since unmaintained devices nearly always export concentrated sediments and oils.

#### MAINTENANCE REQUIRED WHEN:

- Accumulated sediment and sludge at bottom of system has reached manufacturer's recommended volume to be removed.
- Floating oil layer or oil container has reached manufacturer's recommended volume to be removed.
- Spills or leaks are noticed in the system.
- Oil or other pollutants are discharging from the system outlet.
- Obstructions from trash or debris are visible at the inlet or outlet.

\* *Do not enter systems unless Occupational Safety & Health Administration (OSHA) regulations for confined space entry are followed.*

\* *Follow inspection and maintenance instructions and schedules provided by system manufacturer and installer.*

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### ROUTINE AND NON-ROUTINE MAINTENANCE

- **Inspection Port:** Inspect the monitoring well or inspection port to ensure access by qualified personnel to determine if accumulation of sediment and debris within detention chambers requires removal per manufacturer's specifications.

#### *Non-Routine Maintenance:*

- **System Component Repair:** Repair or replace damaged system components based on manufacturer's specifications.
- \* *Do not enter underground detention manholes to inspect system unless Occupational Safety & Health Administration (OSHA) regulations for confined space entry are followed.*
- \* *Follow inspection and maintenance instructions and schedules provided by system manufacturer and installer.*
- \* *Properly dispose of all wastes.*

### **Oil-Water Separator**

#### *Routine Maintenance:*

- **Oil and Sludge Removal:** Remove captured oils, grease and sludge from separation chambers and dispose of properly per manufacturer's specifications.
- **Oil Containment Chamber:** Remove floating oil layer or empty oil container once it has reached manufacturer's recommended volume to be removed. If system contains oil-absorbing pads, replace before completely saturated.
- **Sediment and Debris:** Inspect inlets and outlets to ensure they are free of sediment, debris and trash.
- **Sediment Collection Chamber:** Remove accumulated sediment and sludge at bottom of system when it has reached manufacturer's recommended volume to be removed.
- **Erosion and Scour:** Repair soil erosion or scouring at the outlet(s) of the oil-water separator system if overflow is discharged onto ground surfaces.

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### ROUTINE AND NON-ROUTINE MAINTENANCE

#### *Non-Routine Maintenance:*

- System Component Repair: Repair or replace damaged system components based on manufacturer's specifications.
- \* Do not enter systems unless Occupational Safety & Health Administration (OSHA) regulations for confined space entry are followed.*
- \* Follow inspection and maintenance instructions and schedules provided by system manufacturer and installer.*
- \* Properly dispose of all wastes.*

## Oil-Water Separator Inspection and Maintenance Checklist

<b>Facility:</b>			
<b>Location/Address:</b>			
<b>Date:</b>	<b>Time:</b>	<b>Weather Conditions:</b>	<b>Date of Last Inspection:</b>
<b>Inspector:</b>		<b>Title:</b>	
<b>Rain in Last 48 Hours</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>If yes, list amount and timing:</b>			
<b>Pretreatment:</b> <input type="checkbox"/> vegetated filter strip <input type="checkbox"/> swale <input type="checkbox"/> turf grass <input type="checkbox"/> forebay <input type="checkbox"/> other, specify: _____ <input type="checkbox"/> none			
<b>Site Plan or As-Built Plan Available:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No			

\*Do not enter underground detention chambers to inspect system unless Occupational Safety & Health Administration (OSHA) regulations for confined space entry are followed.

\*Follow inspection and maintenance instructions and schedules provided by system manufacturer and installer.

\* Properly dispose of all wastes.

Inspection Item	Comment	Action Needed
<b>1. PRETREATMENT</b>		
Sediment has accumulated.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Trash and debris have accumulated.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>2. INLETS</b>		
Inlets are in poor structural condition.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sediment, trash, or debris has accumulated and/or is blocking the inlets.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>3. OIL CONTAINMENT CHAMBER</b>		
Oil volume threshold has been reached.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Oil-absorbing pads are saturated.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>4. SEDIMENT COLLECTION CHAMBER</b>		
Sediment accumulation threshold has been reached.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sludge accumulation threshold at bottom of chamber has been reached.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>4. OTHER SYSTEM COMPONENTS</b>		
Structural deterioration is evident.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spills or leaks are evident.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<b>5. OUTLETS</b>		
Outlets in poor structural condition.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sediment, trash or debris is blocking outlets.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Erosion is occurring around outlets.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>6. OTHER</b>		
Evidence of ponding water on area draining to system.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
Evidence that water is not being conveyed through the system.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Additional Notes</b>		
<b>Wet weather inspection needed</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		

**Site Sketch:**