
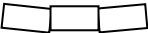


<b>Oak Park Conservancy District Stormwater Best Management Practices (BMPs) Sediment Management Practices (SMPs)</b>		<b>SMP-04</b>													
<b>Activity: Sand Bag Barrier</b>															
<b>PLANNING CONSIDERATIONS:</b>  <b>Design Life:</b> 3-6 months  <b>Acreage Needed:</b> None  <b>Estimated Unit Cost:</b> Avg: \$8/LF Range: \$6-\$10/LF  <b>Monthly Maintenance:</b> 0% of Capital Costs															
		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>SB</b> </div>													
		<b>Target Pollutants</b>													
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 33%;">Significant ◆</td> <td style="text-align: center; width: 33%;">Partial ◆</td> <td style="text-align: center; width: 33%;">Low or Unknown ◆</td> </tr> <tr> <td style="text-align: center;">Sediment ◆</td> <td style="text-align: center;">Heavy Metals ◆</td> <td style="text-align: center;">Nutrients ◆</td> </tr> <tr> <td style="text-align: center;">Oil &amp; Grease ◆</td> <td style="text-align: center;">Bacteria &amp; Viruses ◆</td> <td style="text-align: center;">Floatable Materials ◆</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Oxygen Demanding Substances ◆</td> <td style="text-align: center;">Toxic Materials ◆</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Construction Waste ◆</td> <td style="text-align: center;"></td> </tr> </table>	Significant ◆	Partial ◆	Low or Unknown ◆	Sediment ◆	Heavy Metals ◆	Nutrients ◆	Oil & Grease ◆	Bacteria & Viruses ◆	Floatable Materials ◆		Oxygen Demanding Substances ◆	Toxic Materials ◆	
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<b>Description</b>	<p>Sand barriers provide detainment from sedimentation and runoff by allowing barriers to be formed as a result of the bags being stacked. While stacking these bags does not filter runoff, it does slow it down enough for sediment to settle out of the water. A reduction to sediment is a result of this practice.</p>														
<b>Suitable Applications</b>	<p>Sand barriers should be used along the perimeters of the site, at check dams, along streams and channels, across swales, at division dikes, below the toe of a cleared slope, around temporary sediment trap and parallel to roadways</p>														
<b>Approach</b>	<ul style="list-style-type: none"> <li>➤ Utilized when construction of check dams or sumps in a stream is undesirable</li> <li>➤ Allows undisturbed vegetation and/or stream</li> <li>➤ Provide semi-permeable barrier in potentially wet areas</li> </ul>														
<b>Installation Procedures</b>	<ul style="list-style-type: none"> <li>➤ Berm height should be 18 inches minimum from ground to top of barrier. Width should be 48 inches minimum</li> <li>➤ Length of the sand bags should be 24 to 30 inches, width 16 to 18 inches, thickness 6 to 8 inches and weight 90 to 125 pound</li> <li>➤ Bag material must weigh a minimum of 4 ounces per square yard and should be polypropylene, polyethylene or polyamide.</li> <li>➤ Sand grade should be coarse or gravel</li> <li>➤ Sediment trap BMP should determine the area behind the sand bags</li> </ul>														

**Activity: Sand Bag Barrier**

- Maintenance**
- Damaged sand bags need to be replaced or reshaped immediately upon inspection after each rainfall or weekly throughout the rainy season.
  - When sediment reaches 1/3 the height of the barrier, sediment should be removed and disposed.
  - When barriers are no longer needed, sand bags should be properly disposed.
  - Barriers should be inspected and maintained regularly.

**Inspection Checklist**

- Barrier follows a contour.
- End of the barriers turn uphill for the last 6 feet.
- Barriers are cleaned as sediment exceeds 1/3 height of barrier.
- Barrier 100 feet serves 5 acres or less of exposed area.