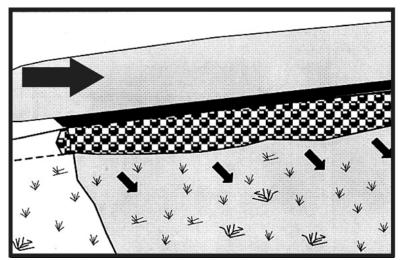
## Level Spreader



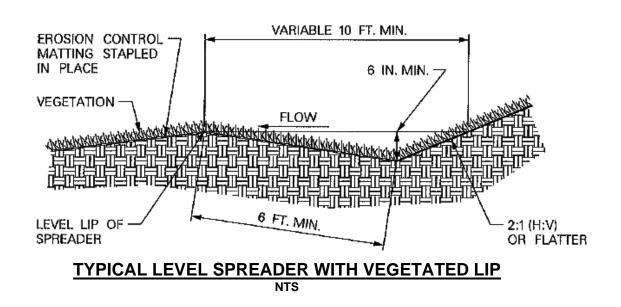
Source: Knoxville BMP Manual, 2003.

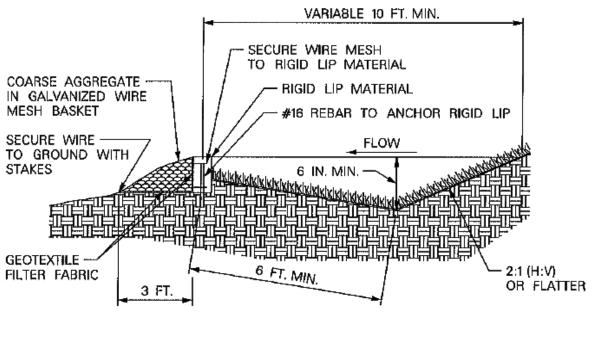
Description	A device used at outlets that converts concentrated flow to sheet flow preventing erosion of the receiving area. Tops of channels, earthen berms, or rigid weir-like structures may function as level spreaders.
Applications	<ul><li>Flat or gentle sloping areas.</li><li>Outlets for dikes and diversions.</li></ul>
Installation and Implementation Requirements	<ul> <li>Construct on undisturbed soil.</li> <li>Do not construct on fill material.</li> <li>Locate where re-concentration of water will not occur.</li> <li>A stabilized and well vegetated slope of less than 10% shall be located below the level spreader.</li> <li>Filter runoff containing high sediment loads through a sediment-trapping device prior to release to the level spreader.</li> <li>Incorporate a rigid outlet lip design for high discharge flows.</li> <li>Zero percent grade on the spreader lip is necessary for uniform sheetflow.</li> <li>Avoid operating vehicles and heavy equipment on the level spreader to maintain a smooth level surface for the overflow weir.</li> </ul>
Limitations	Not applicable to sediment laden runoff.
Inspections and Maintenance	<ul> <li>Conduct inspections of the level spreaders weekly during dry periods as well as within 24 hours of any rainfall of 0.5 inch or greater which occurs in a 24-hour period and daily during periods of prolonged rainfall.</li> <li>Inspect level spreader channel for accumulation of debris and</li> </ul>

## Inspections and Maintenance (Continued)

sediment regularly and remove debris and sediment.

- Verify a slope of zero percent along the spreader lip.
- Inspect the discharge area for signs of erosion or concentrated flow.







Source: HDOT Storm Water Management Plan, Oahu District, 2003.