



## CONSIDERATIONS

- Soils
- Area Required
- Slope
- Water Availability
- Aesthetics
- Hydraulic Head
- Environmental Side Effects



# WEBER COUNTY

## ENGINEERING DEPARTMENT

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## DESCRIPTION:

The double trench sand filter (aka Delaware sand filter) is a BMP consisting of parallel sedimentation and sand filter trenches connected by a series of level weir notches to assure sheet flow onto the filter. Filtered runoff is conveyed to a storm sewer by gravity flow or by pumping.

## APPLICATIONS:

- ▶ Commercial and institutional parking lots, small shopping centers, and infill developments.
- ▶ Smaller redevelopment sites where the use of conventional BMPs is not practical.

## INSTALLATION/APPLICATION CRITERIA:

- ▶ Requires very little hydraulic head.
- ▶ Need to consider structural design with traffic load.

## LIMITATIONS:

- ▶ Will not prevent small floatable debris from entering through the grate openings.
- ▶ Disposing of petroleum-contaminated sand may require expertise in hazardous waste disposal.
- ▶ Sand filter may clog sooner than other BMPs requiring more frequent maintenance.

## MAINTENANCE:

- ▶ System should be inspected yearly and after storm events to assess the filtration capacity of the filter.
- ▶ Filter sand should be replaced every few years to maintain pollutant removal efficiency.

## TARGETED POLLUTANTS

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oxygen Demanding Substance
- Oil & Grease
- Floatable Materials
- Bacteria & Viruses
- High Impact
- Medium Impact
- Low or Unknown Impact

## IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training
- High
- Medium
- Low