



DESCRIPTION:

An adaptation of the surface sand filter system. The trench sand filter system has two variations. One variation consists of a trench sand filter system with a stone reservoir. The other variation consists of a trench sand filter system with a small sedimentation pond.

APPLICATION:

- ▶ Townhouse developments or small commercial redevelopments

INSTALLATION/APPLICATION CRITERIA:

- ▶ Topography should offer sufficient relief to allow the system to function by gravity flow.
- ▶ Design for easy maintenance accessibility.
- ▶ Design for safety barriers which prevent children from entering the sedimentation pond.

LIMITATIONS:

- ▶ Sites with little or no gradient may prevent sufficient gravity flow through the systems.
- ▶ Not recommended for parking lots.

MAINTENANCE:

- ▶ Stone reservoirs will require periodic replacement of the upper filter cloth and gravel layer.
- ▶ Sedimentation ponds will require periodic removal of accumulated sediment.

CONSIDERATIONS

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



WEBER COUNTY

ENGINEERING DEPARTMENT

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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