



CONSIDERATIONS

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



WEBER COUNTY

ENGINEERING DEPARTMENT

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DESCRIPTION:

A filter system containing fibric or hemic peat and consisting of a sedimentation chamber or pond, a surface vertical filter system, a grass cover crop, and alternating layers of peat and sand all underlain by collector pipes in a gravel bed.

APPLICATION:

- ▶ Development where insufficient space exists for a wet pond.
- ▶ Development where higher rates of pollutant removal are preferred.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Use only fibric or hemic peat. Sapric peat will result in system failure.
- ▶ Can be used in high water table areas.
- ▶ Peat will not remove pollutants if it becomes oxygen depleted.

LIMITATIONS:

- ▶ Suitable peat material may not always be available.
- ▶ System must be shut down during the winter months.
- ▶ Sites with little or no gradient may prevent sufficient gravity flow through the system.

MAINTENANCE:

- ▶ During dry seasons or periods of drought the cover crop may require irrigation.
- ▶ Remove silt when accumulation exceeds 6" (15.2 cm).
- ▶ Remove accumulated trash and debris every 6 months or as necessary.

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