

Water Quality Device (WQD)

Third Party Testing Summary and Specifications

Fill out this form if a water quality unit/manufactured treatment device is proposed for the development. See page 51 of Appendix 3 in the Stormwater Standards Manual for more specific design specifications.

Manufacturer:
Unit and Model:

10 YR Peak Flow: _____ cfs

Water Quality Flow: _____ cfs

Proposed TTS Removal Efficiency*: _____ %

*Use same value as LGROW Design Spreadsheet

Third Party Testing Results of Proposed Unit

Flow Rate WQD is rated for: _____ cfs

Removal Efficiency at the flow rate: _____ %

Has the proposed WQD been tested for the proposed configuration?

_____ YES _____ NO

Scour Testing

Has scour testing been performed?

_____ YES _____ NO

Scour CFS Results: _____ cfs

Is the scour CFS greater than full flow pipe capacity into the WQD?

_____ YES _____ NO

If "NO" is checked above, is a bypass pipe provided to prevent scour?

_____ YES _____ NO

M. Water Quality Device

1. Summary

Description:	Stormwater treatment unit.
Application:	Practical for small sites and drainage areas.
Types:	Oil and grit separator; Hydrodynamic separator.
Pretreatment Required:	No. This BMP can provide pretreatment and spill containment
Maintenance Plan:	Yes.
Calculation Credits:	
Volume Reduction:	None.
Rate Reduction:	None.
Water Quality:	Count volume routed through BMP.

2. Sizing Calculations

- Select water quality device unit/model based on manufacturer's recommendations.
- When the device is used to provide spill containment, the minimum spill containment volume shall be provided between the normal water level and the entrance of the outlet pipe to capture a slug pollutant load from an accidental spill of toxic materials.

3. Design Requirements

- Configuration
 - The geometry of the water quality device shall promote the trapping of floatables and sediments.
 - The water quality device shall be designed to prevent surcharging in pipes upstream of the device.
- Emergency Overflow
 - A bypass overflow shall be designed to convey the 10-year peak discharge at a minimum without release of trapped sediments and pollutants.
 - The outlet from the overflow shall not be submerged under normal conditions.