

# Manufactured Treatment Technology

<u>Stormwater Management Goals Achieved</u>	<u>Acceptable Sizing Methodologies</u>
√ Pollution Reduction.....	PERF
Flow Control.....	NA
Destination.....	NA
These facilities may or may not be classified as Underground Injection Control structures (UICs), depending on specific manufacturer design.	
SIM=Simplified Approach, PRES= Presumptive Approach, PERF= Performance Approach	
<p><b>Notes: 1)</b> For a list of currently accepted stormwater treatment technologies, call Public Works at 541-682-8400 or refer to <b>Appendix B</b> of this manual. Manufactured stormwater treatment technologies can be used to provide pollution reduction for any impervious surface. They can be located on private property, and some are approved for use in public rights-of-way.</p>	

The City of Eugene currently has two levels of approval for pollution reducing proprietary stormwater treatment devices: Stand-Alone (Basic Treatment), and Pre-treatment.

Devices approved for **Stand-Alone Use** may be used to satisfy the pollution reduction requirements of the Stormwater Management Manual when sized per this document.

Devices approved for **Pre-treatment Use** may be used to satisfy the pollution reduction requirements of the Stormwater Management Manual when used in conjunction with low-profile elbows (catch basin traps) in all system inputs (catchbasins, curb inlets, etc.) and sized per this document.

For the list of approved devices see **Appendix B** of this manual.

Manufacturers wishing to submit technologies for approval shall submit those technologies to the Washington Department of Ecology (WashDOE). The City of Eugene does not test pollution reduction treatment technologies. Proprietary manufactured stormwater treatment devices are approved for use within the City of Eugene based on WashDOE use level designations.

In addition, to be approved for use as a publicly owned or city-maintained facility, the manufacturer must also submit detailed information about the facility’s design criteria, construction techniques, operation and maintenance procedures, reliability, and cost to City of Eugene Public Works. This information will be reviewed by Public Works, which will decide whether or not the facility can be used for public projects. Please note that use of filter technologies is conditionally approved within the public right-of-way and must receive specific Agency approval for each proposed location.

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Manufactured stormwater treatment technologies on the city's approved list must be designed and constructed in accordance with the manufacturer's recommendations. Eugene may also place special design conditions on the acceptance of the technology, such as sizing requirements that go beyond the manufacturer's recommendations, which must also be followed to obtain plan approval.

In addition to design calculations shown in the Report requirements of **Exhibit 2-2**, the following must be submitted with each manufactured stormwater treatment technology project:

- 1) Pollution reduction capacity of the facility
- 2) Flow-through conveyance capacity (i.e., how much flow can be passed through the facility without stirring up and releasing trapped pollutants)

An operations and maintenance manual must also be submitted for City review. See **Chapter 3.0** for O&M packet guidance.

Manufactured stormwater treatment technologies on City of Eugene's approved list for general use may not be capable of meeting specific TMDL requirements for certain watersheds. In that case, the treatment technology will not be accepted as a stand-alone pollution reduction facility. Rather, a pollution reduction facility that is presumed by DEQ to meet the TMDL requirement must be used.

## **Checklist of minimal information to be shown on the permit drawings:**

- 1) Facility dimensions and setbacks from property lines and structures
- 2) Profile view of facility, including typical cross-sections with dimensions
- 3) All stormwater piping associated with the facility, including pipe materials, sizes, slopes, and invert elevations at every bend or connection

**Inspection requirements and schedule:** The following table shall be used to determine which stormwater facility components require City inspection, and when the inspection shall be requested. Please note that, while not all facility components may require an inspection call, inspectors will inspect for all required components in the field.

<b>Facility Component</b>	<b>Inspection Requirement</b>
Vault excavation	
Piping	Call for inspection
Vault installation	Cal for inspection

**Operations and Maintenance requirements:** An operations and maintenance packet will be required, including information from the manufacturer, as per **Chapter 3.0**.