

Appendix B

Approved Proprietary Stormwater Treatment Technologies



Approved Proprietary Stormwater Treatment Technologies

City of Eugene

List Currently Approved as of January 14, 2008



OVERVIEW

This document is a list of proprietary stormwater treatment technologies (devices) approved for use to meet the pollution reduction requirements of the City of Eugene Stormwater Management Manual.

LEVELS OF APPROVAL

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

Technologies (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. **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.**

Technologies (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.

SUBMISSION OF ALTERNATE TECHNOLOGIES

Manufacturers or designers wishing to submit technologies (devices) for approval shall submit those technologies to WashDOE. The City of Eugene does not test pollution reduction treatment technologies. Proprietary manufactured stormwater treatment technologies are approved for use within the City of Eugene based on Washington Department of Ecology (WashDOE) use level designations. Please see the Washington Department of Ecology website for more information on submission guidelines for new technologies:

<http://www.ecy.wa.gov/programs/wq/stormwater/newtech/index.html>

APPROVED TECHNOLOGIES FOR USE ON PRIVATE PROPERTY (Privately Maintained Systems)

1. **Contech Stormwater Solutions Stormfilter-Approved for Stand-Alone Use¹**
 - a. Units shall be sized based on a maximum treatment flow rate of 7.5 gpm (0.017 cfs) per cartridge.
2. **Contech Media Filter System (MFS)-Approved for Stand-Alone Use¹**
 - a. Units shall be sized based on a maximum treatment flow rate of 9 gpm (0.020 cfs) per cartridge.
3. **Contech CDS System-Approved for Pre-treatment Use²**

Contech Stormwater Solutions CDS System Sizing		
CDS System	Footprint Diameter	Maximum Treatment Flow Rate
Model ID	ft	cfs
PMIU20-15	4.8	0.7
PMIU20-15-4	4.8	0.7
PMSU20-15	6	0.7
PMSU20-20	6	1.1
PMSU20-25	6	1.6
PMSU30-20	7.2	2.0
PMSU30-30	7.2	3.0
PMSU40-30	9.5	4.5
PMSU40-40	9.5	6.0
PSWC30-20	7.2	2.0
PSW30-30	6	3.0
PSWC30-30	7.2	3.0
PSWC40-30	8.3	4.5
PSWC40-40	8.3	6.0
PSW50-42	9.5	9.0
PSWC56-40	9.5	9.0
PSW50-50	9.5	11.0
PSWC56-53	9.5	14.0
PSWC56-68	9.5	19.0
PSWC56-78	9.5	25.0
PSW70-70	12.5	26.0
PSW100-60	18	30.0
PSW100-80	18	50.0
PSW100-100	18	64.0

¹ Use of different configurations of filters such as in vaults, manholes, or catchbasins shall be reviewed for appropriateness.

² Pre-treatment technologies (devices) must be used in conjunction with low-profile elbows (catch basin traps) in all system inputs (catchbasins, curb inlets, etc.) to meet pollution reduction requirements. For installations in the Public Right-Of-Way Zymark Compact Catchbasin Elbows (www.streamsaver.net) or an approved equal must be used.

4. **Contech Stormwater Solutions Vortechs System-Approved for Pre-treatment Use²**

Contech Stormwater Solutions Vortechs System Sizing		
Vortechs System	Grit Chamber Diameter	Maximum Treatment Flow Rate
Model ID	ft	cfs
1000	3	0.55
2000	4	0.98
3000	5	1.53
4000	6	2.20
5000	7	3.00
7000	8	3.92
9000	9	4.96
11000	10	6.12
16000	12	8.82

5. **Hydrointernational Downstream Defender- Approved for Pre-treatment Use²**

Hydrointernational Downstream Defender		
Downstream Defender	Diameter	Maximum Treatment Flow Rate
Model ID	ft	cfs
4-FT	4	1.30
6-FT	6	4.1
8-FT	8	9.4
10-FT	10	17.1

6. **Imbrium Systems Stormceptor System- Approved for Pre-treatment Use²**

Imbrium Systems Stormceptor System Sizing		
Stormceptor System	Diameter	Maximum Treatment Flow Rate
Model ID	ft	cfs
STC 450i	4	0.32
STC 900	6	0.63
STC 1200	6	0.63
STC 1800	6	0.63
STC 2400	8	1.06
STC 3600	8	1.06
STC 4800	10	1.77
STC 6000	10	1.77
STC 7200	12	2.47
STC 11000	2x10	3.53
STC 13000	2x10	3.53
STC 16000	2x12	4.95

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7. Aquashield Aqua-Swirl Concentrator- Approved for Pre-treatment Use²

AquaShield Aqua-Swirl Concentrator System Sizing		
Aqua-Swirl Concentrator	Diameter	Maximum Treatment Flow Rate
Model ID	ft	cfs
AS-2	2.5	0.25
AS-3	3.25	0.43
AS-4	4.25	0.73
AS-5	5	1.01
AS-6	6	1.45
AS-7	7	1.97
AS-8	8	2.58
AS-9	9	3.26
AS-10	10	4.02
AS-12	12	5.80

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**APPROVED TECHNOLOGIES FOR USE IN THE PUBLIC RIGHT-OF-WAY
(Publicly Maintained Systems)**

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