

Attachment 1

Manufactured Treatment Device (MTD) Registration

1. Manufactured Treatment Device Name: Stormceptor OSR

2. Company Name: Rinker Stormceptor

Mailing Address: 1360 Old Bridge Road

City: Woodbridge

State: Virginia Zip:22192

3. Contact Name (to whom questions should be addressed): Aimee Connerton

Mailing Address: PO Box 106

City: Dowell

State: Maryland Zip: 20629

Phone number: 301-357-0324

Fax number: 410-326-2569

E-mail address: aimeej.connerton@cemex.com

Web address: www.rinkerstormceptor.com

4. Technology

Specific size/capacity of MTD assessed (include units):

Stormceptor OSR Models		
Model	Hydraulic Capacity (cfs)	Sedimentation Chamber Diameter (ft)
Inlet OSR	65	4
Inline OSR	140	6
	250	8
	390	10
	560	12
Series OSR	780*	10
	1125*	12

* The Series OSR units, 780 and 1125 consist of two adjacent models that function in parallel.

Range of drainage areas served by MTD (acres): 0 to 20 acres

Include sizing chart or describe sizing criteria:

Intended application: on-line or offline: Online or Offline

Media used (if applicable): N/A

5. Warranty Information (describe, or provide web address):

LIMITED WARRANTY AND LIABILITY DISCLAIMER. Seller warrants that the Materials sold under this Agreement meet solely the description and specifications for the same set forth in this Quotation, if any, and shall be free from defects in material and workmanship for a period of one (1) year from the date of delivery thereof. No other express warranties are made with respect to said Materials. Acceptance by Buyer of the Materials shall constitute confirmation by Buyer that the Materials meet the description and specifications, if any, set forth in this Quotation. The foregoing warranty is subject to standard manufacturing and color variations, efflorescence, tolerances and classifications. Seller is not responsible for installation or defective conditions caused by installation. Buyer's exclusive remedy for breach of this warranty shall be to require Seller, at Seller's option, to refund the purchase price for the Materials sold hereunder, to repair or replace any nonconforming Materials. Seller shall not be responsible for any removal or installation costs. THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WRITTEN OR ORAL WARRANTIES OR CONTRACTUAL AGREEMENTS, WHETHER EXPRESS OR IMPLIED BY LAW OR OTHERWISE, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR HABITABILITY. Seller warrants that the use or sale of the Materials will not infringe on the claims of any United States patent covering the Materials, but Seller does not warrant against infringement by reason of the use of the Materials in combination with other materials, goods, or manufacturing processes.

6. Treatment Type

- Hydrodynamic Structure
- Filtering Structure
- Manufactured Bioretention System
- Provide Infiltration Rate (in/hr):
- Other (describe):

7. Water Quality Treatment Mechanisms (check all that apply)

- Sedimentation/settling
- Infiltration
- Filtration (specify filter media)
- Adsorption/cation exchange
- Chelating/precipitation
- Chemical treatment
- Biological uptake
- Other (describe):

8. Performance Testing and Certification (check all that apply):

Performance Claim (include removal efficiencies for treated pollutants, flow criteria, drainage area

Patented design is optimized for fine sand removal and increased hydraulic capacity

Typically designed for T P for removal of 50 micron particles and greater

Units are easily and flexibly sized to meet your site's needs

Hydrocarbon spill protection in wet and dry weather conditions

Specific size/Capacity of MTD assessed: OSR Model 250

Has the MTD been "approved" by an established granting agency, e.g. New Jersey Department of Environmental Protection (NJDEP) , Washington State Department of Ecology, etc.

No

Yes; For each approval, indicate (1) the granting agency, (2) use level if awarded (3) the protocol version under which performance testing occurred (if applicable), and (4) the date of award, and attach award letter.

Was an established testing protocol followed?

No

Yes, (1) Provide name of testing protocol followed, (2) list any protocol deviations:
NJCAT

Provide the information below and provide a performance report (attach report):

For lab tests:

- i. Summarize the specific settings for each test run (flow rates, run times, loading rates) and performance for each run:
 1. OSR Model 250
 2. Flow Rate 2.50 cfs
 3. OK 110 average influent rate 202 mg/L
 4. Average particle size 100 microns
 5. 69% TSS Removal Efficiency
- ii. If a synthetic sediment product was used, include information about the particle size distribution of the test material: NA
- iii. If less than full-scale setup was tested, describe the ratio of that tested to the full-scale MTD: NA

For field tests:

- i. Provide the address, average annual rainfall and characterized rainfall pattern, and the average annual number of storms for the field-test location:
- ii. Provide the total contributing drainage area for the test site, percent of impervious area in the drainage area, and percentages of land uses within the drainage area (acres):
- iii. Describe pretreatment, bypass conditions, or other special circumstances at the test site:
- iv. Provide the number of storms monitored and describe the monitored storm events (amount of precipitation, duration, etc.):
- v. Describe whether or not monitoring examined seasonal variation in MTD performance:
- vi. If particle size distribution was determined for monitored runoff and/or sediment collected by the MTD, provide this information:

9. MTD History:

How long has this specific model/design been on the market? 8 years

List no more than three locations where the assessed model size(s) has/have been installed in Virginia. If applicable, provide permitting authority. If known, provide latitude & longitude:

List no more than three locations where the assessed model size(s) has/have been installed outside of Virginia. If applicable, provide permitting authority. If known, provide latitude & longitude:

10. Maintenance: What is the generic inspection and maintenance plan/procedure? (attach necessary documents): See Attached

Is there a maintenance track record/history that can be documented?

No, no track record.

Yes, track record exists; (provide maintenance track record, location, and sizing of three to five MTDs installed in Virginia [preferred] or elsewhere):

Recognizing that maintenance is an integral function of the MTD, provide the following: amount of runoff treated, the water quality of the runoff, and what is the expected maintenance frequency for this MTD in Virginia, per year? Maintenance frequency 1 year or more.

Total life expectancy of MTD when properly operated in Virginia and, if relevant, life expectancy of media: NA

For media or amendments functioning based on cation exchange or adsorption, how long will the media last before breakthrough (indicator capacity is nearly reached) occurs? NA

For media or amendments functioning based on cation exchange or adsorption, how has the longevity of the media or amendments been quantified prior to breakthrough (attach necessary performance data or documents)? NA

Is the maintenance procedure and/or are materials/components proprietary?

Yes, proprietary

No, not proprietary

Maintenance complexity (check all that apply):

Confined space training required for maintenance

Liquid pumping and transportation

Specify method: Vactor truck

Solids removal and disposal

Specify method: Vactor truck

Other noteworthy maintenance parameter (describe): NA


11. Comments

Include any additional explanations or comments: NA

12. Certification

Signed by the company president or responsible officer of the organization:

“I certify that all information submitted is to the best of my knowledge and belief true, accurate, and complete.”

Signature: 

Name: Aimee Connerton

Title: Technical Promotions Engineers

Date: 5/30/2014

NOTE: All information submitted to the department will be made publically accessible to all interested parties. This MTD registration form will be posted on the Virginia Stormwater BMP Clearinghouse website.