**Attachment 1**

**Manufactured Treatment Device (MTD) Registration**

1. **Manufactured Treatment Device Name:**
2. **Company Name:**

Mailing Address:

City:

State:       Zip:

1. **Contact Name (**to whom questions should be addressed)**:**

Mailing Address:

City:

State:       Zip:

Phone number:

Fax number:

E-mail address:

Web address:

1. **Technology**

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

Range of drainage areas served by MTD (acres):

Include sizing chart or describe sizing criteria:

Intended application: on-line or offline:

Media used (if applicable):

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

               

1. **Treatment Type**

Hydrodynamic Structure

Filtering Structure

Manufactured Bioretention System

Provide Infiltration Rate (in/hr):

Other (describe):

1. **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):

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

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

Specific size/Capacity of MTD assessed:

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:

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

For lab tests:

1. Summarize the specific settings for each test run (flow rates, run times, loading rates) and performance for each run:
2. If a synthetic sediment product was used, include information about the particle size distribution of the test material:
3. If less than full-scale setup was tested, describe the ratio of that tested to the full-scale MTD:

For field tests:

1. Provide the address, average annual rainfall and characterized rainfall pattern, and the average annual number of storms for the field-test location:
2. 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):
3. Describe pretreatment, bypass conditions, or other special circumstances at the test site:
4. Provide the number of storms monitored and describe the monitored storm events (amount of precipitation, duration, etc.):
5. Describe whether or not monitoring examined seasonal variation in MTD performance:
6. If particle size distribution was determined for monitored runoff and/or sediment collected by the MTD, provide this information:
7. **MTD History:**

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

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:

1. **Maintenance:**

What is the generic inspection and maintenance plan/procedure? (attach necessary documents):

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?

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

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?

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)?

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:

Solids removal and disposal

Specify method:

Other noteworthy maintenance parameter (describe):

1. **Comments**

Include any additional explanations or comments:

1. **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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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.