

Attachment 1

Proprietary Best Management Practice (BMP) Registration Statement

Complete this form and submit it along with supporting documents to the Virginia Department of Environmental Quality (Department) at BMPClearinghouse@deq.virginia.gov. If approved by the Department, the device will be assigned a total phosphorus (TP) removal efficiency and listed on the Virginia Stormwater BMP Clearinghouse.

1. Proprietary BMP / Manufactured Treatment Device (MTD) Name (as it is to appear on the Virginia Stormwater BMP Clearinghouse):

First Defense® Optimum

2. Company Name: Hydro International

Mailing Address: 94 Hutchins Drive

City: Portland

State: Maine Zip: 04102

3. Contact Name (of person to be listed on the Virginia Stormwater BMP Clearinghouse):

Phillip Taylor

Mailing Address: 94 Hutchins Dr

City: Portland

State: ME Zip: 04102

Phone number: 608-358-1194

Fax number: 207-756-6212

E-mail address: ptaylor@hydro-int.com

Web address: www.hydro-int.com

4. Treatment Type

Hydrodynamic Structure

Filtering Structure

Manufactured Bioretention System

Provide Infiltration Rate (in/hr):

Other (describe):

5. Certification (check all that apply and submit all certification letters from TAPE, NJDEP, etc.):

TAPE

TP (include Technical Evaluation Report if applying for greater than 50% TP removal efficiency)

TSS

NJDEP (TSS)

Other (specify)

6. Proprietary BMP History:

How long has this specific model/design been on the market? Greater than 5 years

7. Maintenance:

What is the generic inspection and maintenance plan/procedure? (Attach necessary documents):
Standard vacuum truck clean from the surface, remove sediment and floating debris, high pressure water to clean off surfaces if required. No confined entry, no moving or removal of parts for access, no replacement parts required. Refer to attached O&M Manual for details.

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

- Yes, proprietary
 No, not proprietary

8. Comments

Include any additional explanations or comments:

9. 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: *P. Taylor* -

Name: Phillip Taylor, CPSWQ
Title: Technical Product Manager
Date: Jan 20th 2022

NOTE: All information submitted to the Department will be made publicly accessible to all interested parties. If the device is approved by the Department, this Proprietary BMP registration form will be posted on the Virginia Stormwater BMP Clearinghouse.