



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

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November 18, 2015

Ms. Joanna Ogintz, P.E.
Oldcastle Stormwater Solutions
7921 Southpark Plaza, Suite 200
Littleton, CO 80120

Re: Assignment of Percent Removal Efficiencies for Total Phosphorus

Dear Ms. Ogintz,

Thank you for your submittal of the Manufactured Treatment Device (MTD) Registration Form and supporting documentation for the Dual Vortex Separator. The MTD information provided was reviewed for the purpose of assigning a pollutant removal efficiency for total phosphorus (TP). This review was performed in accordance with the Guidance Memo Number 14-2009 titled "Interim Use of Stormwater Manufactured Treatment Devices (MTDs) to meet the new Virginia Stormwater Management Program (VSMP) Technical Criteria, Part IIB Water Quality Design Requirements". The review process included the analysis of the documents submitted and any other publically available reports.

In addition to the registration form, a performance study was also submitted for review. This study is in support of the approval letter from the State of New Jersey that certifies the Dual Vortex Separator has a removal rate of 50% total suspended solids. Consistent with Guidance Memo Number 14-2009, the Dual Vortex Separator is receiving an event mean concentration percent TP removal efficiency of 20%. If in the future, TP data is submitted, the Department will review and determine if an increase in the removal efficiency is justifiable to the maximum allowable removal efficiency of 50%. As stated in the guidance memo, this information will be posted on the Virginia Stormwater Clearinghouse website. This MTD and the assigned removal efficiency can be manually added into Virginia Runoff Reduction spreadsheet to demonstrate compliance with Runoff Reduction Method.

If you have any questions regarding this information, please contact Robert E. Cooper, P.E. at (804) 698-4033 or e-mail at Robert.Cooper@deq.virginia.gov.

Sincerely;

A handwritten signature in blue ink that reads "Fred K. Cunningham".

Fred K. Cunningham
Director
Office of Water Permits