COMMONWEALTH of VIRGINIA

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July 9, 2014

Mr. Derek Berg
71 US Route 1, Suite F
Scarborough, Maine 04074

Re: Assignment of Percent Removal Efficiencies for Total Phosphorus

Dear Mr. Berg,

Thank you for your submittal of the Manufactured Treatment Device (MTD) Registration Form and supporting documentation for the Vortechs® System. 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 Vortechs® System has a removal rate of 50% total suspended solids. Consistent with Guidance Memo Number 14-2009, Vortechs® System is receiving an event mean concentration percent TP removal efficiency of 20%. 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;

Fred K. Cunningham

Fred K. Cunningham
Director
Office of Water Permits