



# MARYLAND DEPARTMENT OF THE ENVIRONMENT

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## MEMORANDUM

**To:** Bay Restoration Fund Best Available Technology Manufacturers and Vendors  
**From:** Jay Prager, Deputy Program Manager, Wastewater Permits Program  
**Re:** Sampling Protocol for Field Verification  
**Date:** **January 3, 2012**

Effective the date of this Memorandum, the Best Available Technology Review Committee will analyze technologies to be considered as a best available technology (BAT) for removal of nitrogen using the arithmetic mean of the field sampling effluent values. All technologies will be required to complete the Maryland Department of the Environment's Bay Restoration Fund field verification sampling requirements. Sampling of the technology is to be performed on twelve (12) sites that are either the first twelve installations or chosen by MDE in conjunction with the technology representative and sampled in four (4) consecutive quarters to include at least one quarter of winter sampling for a total of forty eight (48) samples, no more or less will be used in the analysis. The analysis will be performed using the effluent samples collected and submitted to MDE. The analysis will consist of the Arithmetic Mean Effluent Total Nitrogen (TN) concentration reported in mg/L as well as the Arithmetic Mean Percent Reduction of TN. Influent field sample values will not be accepted as part of the Field Verification analysis. A standard of an assumed 60mg/L TN will be used as the influent value. The Arithmetic Mean Effluent Concentration must be 30mg/L TN or less to be classified as a Field Verified Technology. If the technology does not meet this requirement, that technology will not be classified as a Field Verified Technology.