

Appendix A.3: Example Self-Monitoring and Reporting Requirements

(Example only - not to be construed as comprehensive or final permit requirements)

- 1) The Chesapeake Bay TMDL and the West Virginia Watershed Implementation plan provide individual total nitrogen and total phosphorous wasteload allocations of xxxxx lbs/yr and yyyyy lbs/yr, respectively.
- 2) Permit limitations for total nitrogen and total phosphorous are being implemented on an annual total load basis. The annual total load limitations shall be attained in accordance with the following:
 - a) The Division recognizes there is not an EPA approved method to directly test for total nitrogen. The total nitrogen value to be reported on the permittee’s Discharge Monitoring Reports (DMRs) shall be the sum of the following parameters: Total Kjeldahl Nitrogen, Nitrate and Nitrite.
 - i) If all three constituents of total nitrogen are not detected at their method detection limit (MDL), the permittee shall sum the actual MDLs for each constituent and report the result as less than the calculation.
 - ii) If analytical results for one or more constituents are greater than or equal to the MDL, the total nitrogen calculation shall include those actual results with zero values for any constituent(s) with results less than the MDL.
 - b) Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods and detection levels are recommended to be used unless the permittee desires to use an EPA-approved method with a lower detection level:

<u>Parameter</u>	<u>EPA Method No.</u>	<u>Method Detection Limit (mg/l)</u>
Total Kjeldahl Nitrogen	351.4	0.03
Nitrate Nitrogen	300.0	0.002
Nitrite Nitrogen	300.0	0.004
Total Phosphorous	365.4	0.01

Any “not detected” (ND) results must be reported as less than the MDL. (See also Section 2.a for Total Nitrogen) The permittee may not report zero or ND, or report the result as less than a minimum level (ML), reporting limit (RL) or practical quantification limit (PQL).

- c) The permittee shall collect (8-hour or 24-hour) hour composite samples for total phosphorous and for each constituent of total nitrogen. All sampling shall be collected concurrently and shall be representative of normal operations.
- d) The actual total (not the average) monthly flow shall be used in conjunction with the total nitrogen and total phosphorous concentration results to determine the total monthly mass results for DMR reporting purposes.

$$[\text{Total Flow Discharged in Month (Million Gallons per Month)}] * [\text{Nutrient Concentration (mg/l)}] * 8.34 = \text{Monthly Load (lbs/month)}$$

- e) The sum of total monthly mass results for total nitrogen and total phosphorous shall not exceed the following annual mass limitations for any calendar year:

<u>Parameter</u>	<u>Annual Total Load Limit</u>
Total Nitrogen	xxxxx lbs/yr
Total Phosphorous	xxxxx lbs/yr

(Effluent limitations and self-monitoring requirements will also be contained in Section A of the permit)

