



Effluent limits for PSNH Merrimack

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Sharon,

Recently, Region 1 requested technical assistance from EAD in calculating effluent limits for inclusion in the NPDES permit for PSNH Merrimack Station. In responding to this request, we analyzed long-term effluent data collected by two facilities operating FGD wastewater treatment systems that incorporate physical-chemical treatment (i.e., chemical precipitation/iron coprecipitation) followed by anoxic/anaerobic biological treatment. From the list of pollutants that Region 1 indicated interest in regulating, sufficient data were available for the following six parameters: arsenic, chromium, copper, mercury, selenium, and zinc.

The attached report describes the analyses performed on the data and methodology used to calculate effluent limits. In addition, I'm attaching two Excel spreadsheets containing the data we used to calculate the effluent limits. Note that these spreadsheets reflect modifications we made to the original datasets; namely, corrections to data entry errors and exclusion of certain observations (see the report for details on changes made to the datasets).

Please let me know if you have any questions about the report or the underlying analyses.

Ron

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FGD Effluent limits_Chem Precip plus Bio.pdf



BC WWTS Analytical Data since inception_ANALYSIS DATA.xlsx



Allen Biochem and PhyChem monitoring since inception_ANALYSIS_DATA.xlsx