



## SUBJECT: PHOSPHORUS REMOVAL

This document pertains to the potential phosphorus removals by the SNOUT Stormwater Quality System installed per manufacturers recommendations.

The SNOUT system may have a positive impact on reduction of phosphorus. While dissolved phosphorus will not be significantly impacted, the portion of the phosphorus molecules that are adsorbed onto sediment particles will be removed according to the overall efficiency of the system.

The total efficiency of removal will vary depending on the solubility of and amount of phosphorus contained within the sediment, and the particle size distribution of the sediment itself. The largest particles will be most easily removed and the smaller particles are more likely to stay suspended. Without a detailed analysis of the suspended solids entrained in the storm flows, and the exact parameters of any given installation, the total percent removal is difficult to estimate. However, according to generally accepted engineering practices, the ranges of non-soluble phosphorus reductions will vary widely but up to 70 percent removals could be possible given favorable site conditions and a multiple structure treatment train.

Please contact us if you have further questions.