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Abstract

Total Suspended Solids (TSS) and nutrient loads are indicators of nonpoint source pollution from natural and human-induced causes. High amounts of TSS inhibit photosynthesis to submergent vegetation while phosphorus and nitrogen overload can produce toxic algal blooms. ISCO portable samplers were installed at four stream sites within the Winooski watershed. An Independent t-test compared TSS and an analysis of variance compared nutrient data to find potential differences between hand grab samples and ISCO grab samples. The difference of TSS and nutrient loads between sample methodologies at all four sites was found to be statistically insignificant.