

Information Report

Title: Water Testing Program

Report Number: Environmental Services-2023-42

Director: Infrastructure & Development

Manager: Environmental Services

Meeting Date:
Wednesday, November 8, 2023

Executive Summary:

A request was made through motion at Council's October 11th, 2023, meeting pertaining to water sampling from surface water areas. The Municipality contacted the Saugeen Valley Conservation Authority (SVCA) to collect data from their Public Water Quality Sites. The data provided is attached and encompasses from April 2021 through May 2023. SVCA collects samples from four points within the Municipality of Kincardine. These sites are identified as Q2 Penetangore River, S4 Andrew's Creek, S5 Little Sauble River, S6 Underwood Creek. With respect to the specific request in the previous meeting, the S4 Andrew's Creek results may provide information to address the inquiry.

Context and Background Information:

A request was made through motion at Council's October 11th, 2023, meeting pertaining to water sampling from surface water areas, drainage pipes, and possible municipal drains. A specific identification point of Pine Street in Inverhuron was identified as a possible location. Upon review of the lab analysis provided through the work of the SVCA, the Q2 Penetangore River area would be of importance to the Municipality as that source water could impact the Kincardine Water Treatment Plant. SVCA samples for many criteria, but those that would be of most interest the Municipality would include Total Suspended Solids (TSS) E.Coli (CFU) Ammonia, and Phosphorus. Of the results provided through SVCA, and the above-mentioned criteria, I believe the sample results to be good. The higher E-Coli numbers are often well explained with issues pertaining to flow and aquatic growth. The remaining parameters are quite low, and don't provide any significant concern for the drinking water systems. Pertaining to cost, the Municipality works with SGS Lab Services located in London and Lakefield. To collect, ship and cover lab expenses for four sample criteria mentioned above, the total cost would likely be about \$150 per visit. The Municipality does not typically collect additional samples from sources such as drainage ditches, municipal drains, or surface water areas. Under the new Consolidated Linear Infrastructure for storm

waterworks there are considerations being reviewed to collect from storm water management ponds, and based on evaluation and design criteria, other sources may be required for sampling in the future.

Consultation Overview:

The Municipality obtained data through the Saugeen Valley Conservation Authority Public Water Quality Sites.

Origin:

Council Request

Attachments: Saugeen Valley Conservation Authority Public Water Quality Sites Mapping and Sample Results.

Prepared by: Mark O’Leary

Submitted by: Mark O’Leary