



Capital Business Case

Potable and Raw Turbidity Analyzer Replacement

2023 Budget

Potable and Raw Turbidity Analyzer Replacements

Executive Summary

E/S proactively identifies and upgrades obsolete equipment to ensure the safe operation and delivery of potable drinking water. Three Golden Anderson Pump Directors and three filter turbidity analyzers have been upgraded over the last three years. Two aging ABB turbidity analyzers are in operation to monitor raw and potable water turbidity.

Business Need

The turbidity analyzers have been in service for approximately 19 years. Parts and serviceability are limited.

Options or Solutions Analysis

Option 1

Purchase and replace the potable and raw turbidity analyzers with the newest ABB model and sub contract Capital Controls to Install at an estimated total cost of \$15,650.

Option 2

Continue to operate aging equipment with the increased risk of failure.

Financial and/or Non Financial Benefits

Upgrading aging or obsolete equipment will reduce the likelihood of incurring unbudgeted expenses.

Risk Analysis

Failure to proactively replace aging equipment could lead to equipment failures that could disrupt the water treatment process, supply of potable drinking water and create compliance issues with the ministry.

Recommendation

Option 1: Purchase two turbidity analyzers and sub contract Capital Controls to install at an estimated cost of \$15,650

Implementation Plan

Purchase all required equipment in 2023 and schedule installation date.

Documentation

Attached are the most recent estimates received for the filter upgrade work.

Acceptance Sign-off

Lead Department

Prepared By: [Eric Wemerman, Chief Water/Sewer Operator] **Date:** 01-24-2023

Signature: *Eric Wemerman*

Approved By: Sean Nicholson, Treasurer **Date:** 01-30-2023

Signature: *Sean Nicholson*

Approved By: Dave Grant, CAO **Date:** 01-30-2023

Signature: *Dave Grant*