



TO: Committee of the Whole

FROM: Alyshia Neuman, Manager of Works and Operations

DATE: January 26, 2021

RE: **Lagoon and Main Lift Station Update**

ISSUE:

Councillor Kolach has requested that the committee be briefed on lagoon and main lift station issues.

BACKGROUND:

In November 2019, the main lift station flooded due to the lagoon effluent breaking off within the berm as a result of a frost heave. The lagoon effluent is a pipe that should be submerged in cell one that allows for the main lift station to empty its contents within the lagoon for facultative treatment before spring and fall dispersal. This flood resulted in removing the old manual gas generator and replacing it with an automatic gen set. We are obtaining on quotes to upgrade the electrical panel to fulfill the remaining portion of the insurance claim. This flood resulted in a weeklong process with two vac trucks working constantly. TSL Mechanical was contracted to repair the lagoon effluent pipe. The four floats were changed and a new motor for the north pump was ordered and installed. Since then, we still experience North pump high pressures which we monitor daily.

Prior to the 2019 flood, there was a break in the lagoon line in the field between our service ports. This is still believed to be an issue and may be resulting in a partial blockage contributing to some higher-than-normal pressures at the main lift station. Additional service ports were proposed to council during 2020 budget discussions but was moved to 2021 in the 5-year capital plan.

It is also believed that our north check at the main lift station is not functioning, also contributing to high pressures on the North pump. On July 8, 2020, a local contractor was called to check the lift checks and stated that they were fine, but a quote was provided. In preparation for the 2021 budget, TSL Mechanical came out to provide a quote on fixing the checks, the tri-valve, and some pipework, in addition to quotes coming in from electricians for the electrical panel replacement. We are working within our purchasing policy to obtain the specified number of quotes from local and non-local contractors. We wish to complete these issues at the main lift station at one time instead of having multiple shutdowns. Our plan, unless council states otherwise, is to replace the electrical panel and hook SCADA up, and replace checks and tri-valve in 2021 then in 2022 install a service port in the field west of Wadena Steel where the original break prior to 2019 happened.

ADMINISTRATIVE RECOMMENDATION(S):

That Committee of the Whole utilize this information to budget accordingly for necessary repairs.
