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**To:** Mayor and Council  
**Submitted by:** Jon Eppell, Director Engineering & Public Works  
**Date:** January 18, 2024  
**Subject:** Sackville Water Well Pump No. 1 Replacement

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**PROPOSAL**

Present recommendation for well pump replacement.

**BACKGROUND**

There are three wells in the Sackville Water wellfield. Well No. 1 and 2 were established in the early 1980s and Well No. 3 in 2015. Water is drawn from the wells on rotation to avoid drawing excessive volumes of water from one well and to ensure some redundancy in the instance that the one of the well supplies is not functional (pump, quality or yield issue). Well No. 1 continues to perform well, however the pump failed on January 4, 2024.

Well pump No.1 was last replaced in 2010. The pump was pulled on January 15, 2024 and it was determined that it requires more than just a simple repair. The temporary rented pump was installed and will be put into service January 17, 2024.

Well No. 2 pump was replaced in 2016 (Berkeley Model 7TMH30-500 with Franklin 30 hp 575/3/60 motor) and Well No. 3 pump was new in 2015.

**DISCUSSION**

Veolia was authorized to pull the pump and install a temporary rented pump at a cost of \$6,875.00 plus HST, to ensure that Well No.1 is brought online in the short term and not be out of service for months.

Given the age of the pump it is considered preferable to replace the pump and assess whether the existing pump can be repaired/refurbished. If it is practical to repair/refurbish then the repaired pump would be kept in stock as a back-up should another well pump fail.

**LEGISLATION/POLICY**

N/A

**FINANCIAL CONSIDERATIONS**

The estimated cost to replace the pump is \$35,536.60 plus HST. The installation of the new pump is planned to occur in summer 2024 when pumphouse buildings at well No. 1 and 2 are replaced. This should reduce the install cost by as much as \$4,675 plus HST due to other work involving the pumps at that time.

The overall cost of the temporary pump install and installation of a new pump is estimated at \$42,411.60 plus HST.

The pump replacement is capital and would come out of the \$125,000 Utility Capital budget for 2024.

**COMMUNICATIONS/PUBLIC ENGAGEMENT**

N/A

**COMMUNITY IMPACT**

N/A

**CLIMATE LENS**

Climate Lens	Towards	Away	No change
Emissions reduction			x
Stormwater management			x
Thriving natural assets			x
Sustainable processes			x
Climate change adaptation			x
Climate leadership			x

It is recommended that Council approve the temporary pump install and supply/install of a new pump at an overall cost of up to \$42,411.60 plus HST.

A motion will be forwarded to the Regular Council Meeting of February 13, 2024.

**.ATTACHMENTS**

N/A