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The City of Winnipeg
510 Main St
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To whom it may concern,

Over the course of bid opportunity no. 203-2018 2018 Sewer Inspections, Wessuc used advanced flushing technology. Wessuc used **two Bucher recycler flushers**, which were instrumental in not only production, but also savings to the City. These savings are outlined below

Here are the facts

Work Days: Wessuc was on site from June 18 - November 14. Taking into account rain days and holidays, Wessuc was operational for **100 days**.

Hours: Wessuc crews worked on average 12 hour days. Some days were cut short due to equipment failure, but the majority of operational days were 14+ hour days. With an average of 1 hour travel, Wessuc crews were operational on average **11 hours per day**.

Pumps: The pumps on the flushing trucks operate at a maximum of 120 US gallons/min. Within the re-inspection portion of the contract, Wessuc operated the pumps at 60-70 US gallons/min. With the higher pressure in the LDS and the lower pressure used in the re-inspection, our trucks ran at an average of 95 US gallons/min. With two trucks, Wessuc was pumping **190 US gallons/min**.

Water Usage: Each morning the flushing crews would fill their trucks to full capacity with clean water from the hydrant to start the day. Each truck can hold 9 m³. Wessuc used a total of **18 m³/day**. 18m³ x 100 operational days = **1,800 m³ total**

City of Winnipeg Water Rate: **\$1.82/m³**

City of Winnipeg Sewer Disposal Rate: **\$2.80/m³**

11 hours/day x 60 minutes in an hour = **660 minutes/day**

660 minutes x 190 US gallons/minute = **125,400 gallons/day** pumped of of water to flush the sewers

125,400 US gallons = **475 m³/day** used to flush the sewers

475 m³/day x 100 days operational = **47,500 m³** used to flush the sewers over the entire contract by Wessuc alone

Wessuc only took 1,800 m³ from the hydrant over the 100 days. The rest was recycled. 47,500 - 1,800 = **45,700 m³ recycled**



Water Cost Saved: $45,700 \times 1.82 = \$83,174.00$

Sewer Disposal Cost Saved = $45,700 \times 2.80 = \$127,960.00$

$\$127,960 + \$83,174.00 = \mathbf{\$211,134.00}$

In total, by Wessuc using the Bucher recycling technology, the City of Winnipeg saved a total of \$211,134.00 in water costs and disposal of the water into the sewers. On top of this, Wessuc only added 1,800 m³ of water to the City of Winnipeg's wastewater system, recycling 45,700 m³, water that was already in the system, headed for the Wastewater treatment plant.

Wessuc Inc.