

Schedule “B” to By-Law No. 2018-01

RIVERDALE MUNICIPALITY

Local Improvement Plan No. 01-18

For

Construction of a New Wastewater Treatment Lagoon
(Pursuant to Subsection 315 of the Municipal Act)

A. Description of Proposed Local Improvement

Riverdale Municipality intends to construct a new wastewater treatment lagoon.

The existing wastewater treatment lagoon was constructed in 1956 and presently receives wastewater by a gravity sewer system from the community of Rivers, and by truck haul from rural residences, and local cottages. The current truck hauling fee of \$2.22/100 gallons will continue to apply (PUB Order 100/17). The lagoon is located approximately 420 metres south of Rivers on SE ¼ of Section 23-12-21 WPM; and SW ¼ of Section 24-12-21 WPM. The lagoon consists of one primary cell and one secondary cell.

A biosolids cell was constructed in 1997 adjacent to the primary cell (west side) to receive solids cleaned out of the primary cell. The lagoon has a “seepage” discharge system, which ultimately discharges south to the Little Saskatchewan River via underground arteries, currently in contravention of the Provincial Waste Management Act.

In conjunction with current and anticipated future treated effluent regulations for municipal lagoons, the new treatment lagoon footprint will be significantly larger than the current lagoon, which continuously releases effluent into the subsoil. The existing lagoon will be decommissioned.

A conventional facultative lagoon design includes one primary cell and two storage cells that will treat and store a volume that has been estimated to meet a 2035 design load. The organic loading is 158 kg-BOD₅/d and 227 day storage is 100,000 m³. Twenty year life cycle costs have been estimated at \$6,172,500.

B. Local Improvement District To Be Levied

The Local Improvement District under this proposal will be all properties (taxable, grant-in-lieu and otherwise exempt) connected to the Rivers Utility system.

C. Potential Taxpayers:

Potential Taxpayers will be all property owners (taxable, grant-in-lieu and otherwise exempt) that are connected to the Rivers Utility system within Riverdale Municipality.

D. Method and Rate to Calculate Local Improvement Tax

The Municipality has received approval from the Public Utilities Board (PUB Order 75-15) to apply a sewer rate surcharge to recover debenture servicing with the specific rate surcharge requiring approval. The proposed rate of \$8.51/1,000 gallons is therefore subject to PUB approval

Proposed increases include a 475% increase on sewer per 1,000 gallons.

The current rate per 1,000 gallons of sewer is \$1.48.

The proposed rate per 1,000 gallons of sewer is \$8.51.

E. Estimated Costs of Local Improvement

The proposed Local Improvement has an estimated cost of \$6,000,000.00.

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|--------------------------------------|-------------|
| Construction subtotal | \$4,800,000 |
| Contingencies (15%) | \$ 720,000 |
| Engineering and Administration (10%) | \$ 480,000 |

Total **\$6,000,000**
F. Funding Sources

Riverdale Municipality proposes to pay for the project as follows:

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|----|-----------------------------------------------------------|-----------------------|
| 1. | Government of Canada (Clean Water & Wastewater Fund) | \$3,000,000.00 |
| 2. | Withdrawal from Municipality's Water & Sewer Reserve Fund | \$ 100,000.00 |
| 3. | Balance of proposed costs | <u>\$2,900,000.00</u> |
| | | \$6,000,000.00 |

G. Particulars of Borrowing

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|----------------|----------------|
| Amount: | \$2,900,000.00 |
| Rate: | 4.125% |
| Term: | 20 years |
| Annual Payment | \$ 215,755.65 |

The aforementioned Local Improvement Plan will be set out in the Financial Plan for the year 2018.

H. Operation and Maintenance of Local Improvement

Annual operation and maintenance of the Local Improvement will be funded by the Municipality's Utility Operating Fund.

Prepared By
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