



Water and Waste Department • Service des eaux et des déchets

**Notice to Bidders of the City of Winnipeg's Intent to Issue a Future Bid Solicitation  
for the South End Sewage Treatment Plant Upgrade - Information Only**

**SOUTH END SEWAGE TREATMENT PLANT UPGRADE [SEWPCC] UPGRADING/EXPANSION  
PROJECT- CONTRACT 4; SITEWIDE MECHANICAL, ELECTRICAL, CONCRETE AND SITE WORKS.**

The South End Sewage Treatment Plant (SEWPCC) is the City of Winnipeg's second largest treatment plant (59 MLD) providing approximately 20% of the City's sewage treatment. The City is upgrading and expanding this plant to meet enhanced regulatory requirements and forecasted increased system flows. The project is comprised of four (4) major construction contracts. Three (3) of the construction contracts have been awarded. These contracts were related to foundation excavation/piling and major concrete structures. Details of these contracts can be found on the City of Winnipeg Materials Management Website under Closed Bid Opportunity Information at:

<http://winnipeg.ca/finance/findata/matmgt/bidres/Past/2016.asp>

Reference Bid Opportunities 333-2014, 601-2015 and 899-2015.

This final remaining construction contract includes the major mechanical, electrical, instrumentation and automation scope of the project and remaining foundation/building scope. In general, the scope includes the supply of equipment/materials and installation. Significant components of the plant upgrade include;

- Upgrades to raw sewage pumping and wet well modifications.
- New screening/grit building with associated process systems.
- New primary Vortex grit removal system and upgrades to the existing grit system.
- Modifications to the existing headworks configuration, upgrade screens.
- New Actiflo high rate clarifier system (HRC). (City of Winnipeg to supply certain equipment)
- New Biological Nutrient Removal (BNR) reactors. (City of Winnipeg to supply certain equipment)
- BNR Aeration Blower Building with associated process systems.
- Two new secondary clarifiers, upgrades to existing clarifiers.
- New chemical / electrical building and associated process systems.
- New centralized diesel standby generators.
- Upgrades to the existing ultraviolet disinfection system.
- New 66kV substation.
- Upgrade electrical service and distribution system.
- Upgrade existing distributed control system (DCS) to PLC based system.

- Upgrade plant control/administration fibre network.
- Upgrade existing Human Machine Interface (HMI) systems.
- Control system integration.
- Modifications to existing Administration Building including reconfiguring Control Room/Server Rooms.
- Reconfigure existing High Purity Oxygen (HPO) reactors as fermenter/biofilter.
- Reconfigure existing Pressure Swing Absorption (PSA) area to sludge thickening.

Anticipated issuance of Bid Opportunity 976-2016 on the City of Winnipeg Materials Management Bid Opportunities website is:

- Q1 2017