

Consulting Services for the inspection and refurbishment of Digester # 1 complex at Georgetown WWTP

The intent of this Request for Proposal (RFP) is to retain a consulting engineering firm to provide a structural inspection of digester #1, as well as provide preliminary and detailed design, contract administration for repairs to digester #1 identified in the structural inspection, replacement of digester #1's steel dome cover, and the decommissioning and demolition of the sludge holding tank at the Georgetown Wastewater Treatment Plant (WWTP) in the Town of Halton Hills.

Digester #1 originally constructed in 1959, is a 20.1 m diameter x 6.0 m side water depth reinforced concrete structure with a 2.51 m deep conical floor and a fixed, insulated steel dome cover. The existing steel dome cover was installed in 1985. The digester exterior is insulated and covered in metal cladding. The digester contains a gas mixing system with six mixing guns, and has the ability to operate as either a primary or secondary digester. Digester #1 has not been serviced since 1987, and it is anticipated that the steel roof structure requires replacement.

Connected to the West side of digester #1 is a 10.36 m x 10.36 m x 6.0 m side water depth reinforced concrete sludge holding tank (former secondary digester) with a conical bottom and brick exterior cladding. The sludge holding tank has not been serviced since 1987. The capital needs assessment performed by Earth Tech Inc. in 2007 identified that the concrete roof slab at the west end sludge holding tank is cracked and the metal rooftop access hatch is heavily rusted.

Both digester #1 and the sludge holding tank will be removed from service, cleaned out, and scaffolding will be erected inside digester #1 as part of the current digester upgrades contract.

The Consultant is to prepare a technical proposal addressing the project, including a work plan and fee estimate. The Consultant should identify project team members and demonstrate the ability to commit the necessary resources to complete the project.