

October 25, 2011

Project No. 08-1182-0085

Jeffrey Fletcher
Manager of Solid Waste and Environmental Initiatives
The Blue Mountains
Engineering and Public Works Department
32 Mill Street, P.O. Box 310
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**LANDFILL LEACHATE PUMP STATION AND FORCEMAIN COST ESTIMATE
THE BLUE MOUNTAINS LANDFILL
OTTAWA, ONTARIO**

Dear Mr. Fletcher:

Further to your site meeting with Mr. Dennis Martin and Mr. Chris Visser, this letter has been prepared to summarize the estimated costs associated with the installation of a new forcemain along the two possible routes discussed on site. The first route runs along the shoulder of Grey Road 13 and Grey Road 40, up to the existing sanitary sewer maintenance hole approximately 100 m beyond the intersection of 7th Line Road, near The Blue Mountains, Ontario. The second route runs directly East from the landfill, across the neighbouring vacant land, to Grey Road 2 and along the shoulder of Grey Road 2 and Grey Road 40, then East to the same maintenance hole above.

We understand that the potential scope of work would include the installation of a single 75 mm dia. forcemain, connection to the municipal infrastructure and the installation of a pumping station at the site.

A Class D cost estimate for the above work is attached. The estimate totals \$986,342.50 and \$800,800.00 for routes 1 and 2, respectively.

The following assumptions were made in the preparation of this cost estimate:

- The new forcemain will be installed by ploughing into the shoulder of the road or across vacant lands.
- All watercourse crossings and road crossings will be performed by directional drilling.
- No asphalt removal/reinstatement will be required, except at driveway crossings and for the section 550 m west of Indian Circle, where the road has an asphalt shoulder.
- The cost for the reinstatement of the granular shoulder is based on a road structure of 300 mm granular 'B' and 150 mm granular 'A'.
- Pump station will be a single wet well with a submersible duplex pump system and control panel sized in accordance with the estimated capacity of the forcemain. SCADA systems have not been included.
- Additional storage volume or back-up power has not been included.
- Rock removal has not been included.

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- Construction would not be performed during the winter months.
- Quantities of all major elements were assessed or measured from the information available.
- Costs shown have been priced at rates considered competitive for a project of this type and reflect probable construction costs obtainable in the Blue Mountains, Ontario area on the effective date of this letter.
- The costs assume that competitive pricing (a minimum of six general contractors and four sub-contractors for each trade) is received for all portions of the work.
- A 50% contingency has been applied to the cost estimate to cover unknown issues, as a detailed design of the works has not been completed.
- A 10% engineering fee estimate has been included in the cost estimate. This may vary depending on proposals received at the time of the design work.
- Permitting costs or required studies related to permitting have not been included.
- Hydro extension to pump station is not included.
- Costs associated with easements have not been included.

We trust that this information satisfies your current requirements. Please let us know if you have any questions.

Yours truly,

GOLDER ASSOCIATES LTD.



Scott Taylor, P.Eng.
Civil Engineer

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Attachment: Class D Cost Estimate

Route # 1

Item	Description	Qty	Unit	Unit Rate	Total
1	75 mm dia HDPE Forcemain	5,900	m	\$ 50.00	\$ 295,000.00
2	Reinstatement of Granular Shoulder	10,500	m ²	\$ 25.00	\$ 262,500.00
3	Reinstatement of Asphalt Shoulder	500	m ²	\$ 30.00	\$ 15,000.00
4	Reinstatement of Asphalt at Driveways	75	m ²	\$ 30.00	\$ 2,250.00
5	Watercourse Crossing	2	ea	\$ 10,000.00	\$ 20,000.00
6	Road Crossing	2	ea	\$ 5,000.00	\$ 10,000.00
7	Connection to Existing MH at Outlet	1	ea	\$ 5,000.00	\$ 5,000.00
8	Pumping Station	1	ea	\$ 80,000.00	\$ 80,000.00
Subtotal					\$ 689,750.00
50% Contingency					\$ 206,925.00
Subtotal					\$ 896,675.00
10% Engineering					\$ 89,667.50
Total					\$ 986,342.50

Route # 2

Item	Description	Qty	Unit	Unit Rate	Total
1	75 mm dia HDPE Forcemain	4,500	m	\$ 50.00	\$ 225,000.00
2	Reinstatement of Granular Shoulder	4,800	m ²	\$ 25.00	\$ 120,000.00
3	Reinstatement of Asphalt Shoulder	500	m ²	\$ 30.00	\$ 15,000.00
5	Watercourse Crossing	2	ea	\$ 10,000.00	\$ 20,000.00
6	Road Crossing	2	ea	\$ 5,000.00	\$ 10,000.00
7	Connection to Existing MH at Outlet	1	ea	\$ 5,000.00	\$ 5,000.00
8	Pumping Station	1	ea	\$ 80,000.00	\$ 80,000.00
9	Clearing and Grubbing	1,400	m	\$ 15.00	\$ 21,000.00
10	Temporary Road	1,600	m	\$ 40.00	\$ 64,000.00
Subtotal					\$ 560,000.00
50% Contingency					\$ 168,000.00
Subtotal					\$ 728,000.00
10% Engineering					\$ 72,800.00
Total					\$ 800,800.00