

STAFF REPORT: Engineering and Public Works – Solid Waste Division



REPORT TO: Infrastructure and Recreation Committee
MEETING DATE: April 14, 2009
REPORT NO.: EPW.09.037
SUBJECT: Solid Waste Receiving Area Use of
 Federal Gas Tax
PREPARED BY: Jeffery Fletcher, Manager of Solid Waste
 and Environmental Initiatives

A. Recommendations

THAT Council approve the use of \$90,131.00 of Federal Gas Tax funding for the Solid Waste Disposal Site's Receiving Area as presented in Report EPW.09.37, "Solid Waste Receiving Area – Use of Federal Gas Tax"; and

THAT Council approve a budget increase of \$15,131.00 over the 2009 Budget amount of \$395,352.00 for a total project budget of \$410,483.00.

B. Background

In a previous report in October of 2008 EPW.08.107 "Solid Waste Disposal Site Receiving Area – Consultant Selection", C.C. Tatham was selected to provide engineering services for the design and construction monitoring of a new waste receiving area. The preliminary design and opinion of cost for construction (\$291,934.50) for this project is complete and can be viewed in Attachment 1 and 2 respectively.

The design has incorporated the basic required features for safety and functionality of the receiving area, while controlling costs. Design elements such as using precast block versus cast in place concrete have kept the cost estimate low. A number of different options for site design and alteration were proposed by C.C. Tatham, however the overall final preliminary design includes options that are viewed as required to execute a functional receiving area.

The design includes:

- grade alteration to assist with drainage flow;
- addition of granular materials to improve driving surfaces;
- installation of an elevated platform to accommodate traffic and waste sorting areas;
- installation of a precast block saw tooth retaining wall for waste bins and bunker areas;
- culvert, swale and retention pond work to manage storm drainage; and

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- bollard, curb and guard installations for the protection of patrons, staff and equipment.

An overview of the site plan is available for viewing in Attachment 1 of this report.

C. The Blue Mountains' Strategic Plan

Town's Strategic Plan Goal # 2 "Addressing the Town's Municipal Infrastructure needs" is in part satisfied by the recommended action.

D. Environmental Impacts

The provincial policy for municipal waste diversion is 60% by 2008. This new infrastructure will assist the Town in realizing that diversion target. The Town has developed a Waste Diversion Plan (July 2008) and 60% has been developed as a waste diversion goal. An increased focus on waste sorting which will be achieved by the new receiving area will move the Town closer to the 60% goal.

E. Budget Impact

The 2009 Budget for this capital project was established at \$370,352 with \$25,000 in expenditures in 2008 for a total project budget of \$395,352.

Table 1 details the project costs including the estimate of cost by C.C Tatham. The total estimated project is \$15,131 more than the original budget. To fulfill the necessary elements of the receiving area a \$15,131 increase to the budget will be required.

Table 1- Project Expenses

Item	Cost
Engineering	
Preliminary Design	\$17,605
Final Design & Tender	\$16,933
Construction	\$24,910
Engineering Contingency	\$5,000
Sub-total	\$64,448
Construction Estimate	
Earthworks	\$24,000
Site Works	\$6,745
Elevated Pad	\$174,050
Storm Drainage	\$60,600
Contingency	\$26,540
Sub-total	\$291,935
Geotech. Sub-Consultant	\$10,000
Equipment (waste bins)	\$44,100
Total	\$410,483

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The Municipal Infrastructure Investment Initiative (MIII) grant waste allocated to the municipality for two projects the Hazardous Waste Depot and the Receiving Area the total grant was \$399,000. The construction of the Hazardous waste Depot in 2008 used \$78,648 of the MIII grant. Between the remaining MIII grant of \$320,352 and the addition of Federal Gas Tax funding, this project can be fully funded. The Town's Capital Accountant concurs with the funding allocation as outlined in Table 2.

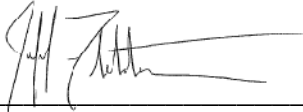
Table 2 - Funding

Source	Amount Available	Notes
MIII Grant	\$320,352	(\$399,000 - \$78,648 for Hazardous Waste Depot)
Federal Gas Tax	\$90,131	
Total Funding	\$410,483	

F. Attached

1. Preliminary Site Plan
2. Estimate of Costs

Respectfully submitted,



Jeffery Fletcher
 Manager of Solid Waste and Environmental Initiatives

Reg Russwurm
 Director of Engineering and Public Works

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**THE BLUE MOUNTAINS
SOLID WASTE DISPOSAL SITE RECEIVING AREA
PRELIMINARY COST ESTIMATE
(DRAFT)**

OPTION 2B**DRAINAGE WORKS, ELEVATED PAD AND CONCRETE BLOCK RETAINING WALL**

No.	Description	Unit	Est. Quant.	Unit Price	Amount
1.0	<u>Earthworks</u>				
1.1	Import, Placement and Compaction of Subgrade For Elevated Pad	m ³	2400	\$10.00	\$24,000.00
1.2	Re-grade and shape bank north of entrance lane	~ This work to be included as part of item 4.3			
					\$24,000.00
2.0	<u>Site Works</u>				
2.1	Silt Fence	m	160	\$12.00	\$1,920.00
2.2	Straw Bale Check Dam	ea.	3	\$150.00	\$450.00
2.3	Fine grade banks, relocate on-site topsoil and hydro seed (including entrance and detention pond)	m ²	1,750	\$2.50	\$4,375.00
					\$6,745.00
3.0	<u>Road Works(Receiving Area including Elevated Pad)</u>				
3.1	150 mm Granular 'A' (Elevated Pad)	m ²	1500	\$8.00	\$12,000.00
3.2	300 mm Granular 'B' (Elevated Pad)	m ²	1500	\$9.00	\$13,500.00
3.3	300 mm Granular 'B' (Receiving Area)	m ²	4250	\$9.00	\$38,250.00
3.4	1.55m high Concrete Block Retaining Wall including Bumper	m	155	\$660.00	\$102,300.00
3.5	Steel Bollards	ea	17	\$250.00	\$4,250.00
3.6	Concrete Barriers	ea	15	\$250.00	\$3,750.00
					\$174,050.00
4.0	<u>Storm Drainage Works</u>				
4.1	Storm Sewer Manhole Tee and Grate	ea	1	\$500.00	\$500.00
4.2	375 dia.CSP Culvert	m	35	\$150.00	\$5,250.00
4.3	450 dia.CSP Culvert (including earthworks)	m	115	\$350.00	\$40,250.00
4.4	600 dia.CSP Culvert	m	17	\$300.00	\$5,100.00
4.5	Stormwater Detention Pond including Outlet Structure	LS			\$9,500.00
					\$60,600.00
				Sub-total	\$265,395.00
				Contingency Allowance (10%)	\$26,539.50
				Total Estimated Construction Cost	\$291,934.50

March 2009 (Rev. 2)