



MEMO

To: Public Liaison Committee
Municipal Solid Waste Management Strategic Plan

From: Tyler Peters, P.Eng.,
Project Manager

Date: June 28, 2010

Re: **Project Update**
PLC Update – June 22, 2010 Meeting
Municipal Solid Waste Management Strategic Plan
Township of Killaloe, Hagarty and Richards, County of Renfrew
Greenview File: 107.10.005

This memorandum has been prepared as an informational summary of the update provided by Greenview Environmental Management Limited (Greenview) to the Township of Killaloe, Hagarty and Richards (Township) and the Township's Public Liaison Committee (PLC) for the Municipal Solid Waste Management Strategic Plan (MSWMSP) project.

This information has been provided for the purposes of initial discussion, and is based on the preliminary findings of the General Work Plan (GWP) studies to date. As such, the results presented should be considered preliminary, as no final decisions have been made regarding the alternatives or options.

Background

The Township hosts regular meetings with Greenview and the PLC to collect input and feedback on public comment and opinion related to the MSWMSP.

From the scope of the GWP from 2009, the current waste management alternatives being considered are:

- Diversion – maximize waste diverted to the most feasible extent.
- Landfill – utilization and/or expansion of the Township's Killaloe and/or Round Lake waste disposal sites.
- Incineration – various technologies by which waste could be thermally-treated within the municipality.
- Export – the transfer of waste out of the municipality for management at an approved waste management site.

Background technical work being undertaken by Greenview as part of the GWP studies in evaluating the above alternatives are reported on at these meetings for review and comment. The Township's webpage link (<http://www.killaloe-hagarty-richards.ca/waste-plan.html>) has all the current information in the project.

GWP Results to Date

At the June 22, 2010 meeting the following key points were presented by Greenview to the PLC for review and comment, on the various alternatives being considered.

Diversion

1. The Township should make every feasible effort to divert as much waste as possible, before considering the management of residuals (non-recyclable waste).
2. The Township should work within the guidelines of available provincial programs (i.e. Waste Diversion Ontario, Continuous Improvement Fund, etc.) and with other area/regional municipalities in an effort to maximize diversion and minimize diversion-related costs for programs.
3. The Township should develop a waste recycling strategy and communications plan to effectively coordinate how the Township can work towards maximized diversion for the municipality.

Landfill

1. The Township requires up to 90,000 cubic metres (m³) of landfill capacity for a 25-year planning horizon for the MSWMSP project.
2. All of the Township's waste sites are "natural attenuation" sites, meaning that they do not have engineered liner systems to contain leachate. These sites utilize natural processes such as oxidation, adsorption, etc. to filter contaminants from leachate in the groundwater. All of the Township's waste management sites are operating within Ministry of the Environment (MOE) regulations.
3. The Township's Killaloe waste site may support 35,000 m³ of additional waste via a site expansion laterally to the west and/or south, and vertically, and operate within MOE regulations. This volume equates to approximately 12 years of waste disposal operations.
4. The Township's Round Lake waste site may support 35,000 m³ of waste disposal without a site expansion, by utilizing capacity currently approved at the site, and operate within MOE regulations. This volume equates to approximately 12 years of waste disposal operations.
5. Consideration of reclaiming or mining of the Township's Killaloe site is also under review to potentially reclaim expected available waste capacity.
6. Preliminary archaeological and biological studies are underway at the Killaloe and Round Lake sites for background purposes.

Waste Export

1. The Township currently has two (2) locations identified, to which it could export its residual waste:
 - a. Ottawa Valley Waste Recovery Centre (OVWRC), in Pembroke, Ontario.
 - b. LaFleche Environmental (LaFleche), in Moose Creek, Ontario.

Transfer service is expected to be provided by a private contractor or municipal resources.

2. The OVWRC has a partnership “buy-in” cost in the range of \$1M, with additional cost for tipping fees, etc. at a reduced “partner” rate. Within the partnership, the Township would have proportional ownership of the assets and liabilities in the facility. The OVWRC is a 130 kilometre round-trip from Killaloe.
3. At the LaFleche facility, long-term agreements are available with established tipping fees. LaFleche is a 500 kilometre round-trip from Killaloe.
4. Receivers of the Township’s residual waste must be MOE-approved, and be able to provide long-term security with their service to the Township.
5. It is anticipated that the Township would need to construct a centralized transfer facility to consolidate materials before efficiently exporting to a selected location(s).

Incineration

1. The major capital cost (estimated greater than \$50M) and operational (i.e. feedstock, etc.) needs associated with a waste incineration facility within the Township are significant barriers to the municipality considering this alternative independently.
2. There has been no further interest communicated to the Township by private enterprises in considering the development of a waste incineration facility in the municipality.
3. No further work is planned for this alternative at this time.

Economic Assessment

1. Costs associated with all the alternatives and their respective options are being considered as part of the GWP. The economics of any alternative and/or related option will be considered in the evaluation of the alternatives.
2. Cost considerations include both capital and operating costs, projected over the prescribed 25-year planning period, utilizing industry-accepted information with site-specific assumptions.

Summary

The above summarizes, in a general sense, the preliminary results of the work completed to date for the GWP of the MSWMSP project. Additional information and review is anticipated for the next PLC meeting on July 19, 2010, in preparation for presentation at the public consultation event on August 14, 2010.

Any questions or comments on this update or other aspects of the project can be provided, in writing, to Greenview at tyler.peters@greenview-environmental.ca.

Thank you.

c.c. Ms. Lorna Hudder, CMO, CAO/Clerk-Treasurer, Township of Killaloe, Hagarty and Richards