



Staff Report

To: Dan Best, Chief Administrative Officer

From: Don Giberson, Environmental Services Director

Date: May 15, 2017

Report: ESD.17.14

Subject: 2016 Annual Kirkton Landfill (Closed) Status Report

Recommendation:

That South Huron Council receive the report from Don Giberson, Environmental Services Director Re: 2016 Annual Kirkton Landfill (Closed) Status Report.

Background and Analysis:

The purpose of this report is to notify Council of regulatory compliance with respect to the Kirkton Landfill Site and to ensure all Members of Council are fully informed.

It is a condition of the Kirkton Landfill MOE Certificate of Approval that the Municipality prepare an annual status report and submit a copy to the Ministry of the Environment by March 31st of each year. A report was prepared by Spriet Associates Engineers and submitted to the Ministry of the Environment and Climate Change, Owen Sound District Office on March 21, 2017, prior to the regulatory deadline.

The Annual Kirkton Landfill Site report is a comprehensive document that includes a Description of the site; Site History; Post Closure Maintenance & Operations; Water Resource Monitoring; Control and Contingency Implementation; Conclusions; and Recommendations. A complete copy of

2016 Annual Kirkton Landfill (Closed) Status Report

the Report is available in the Environmental Services Department for viewing by any Member of Council.

The landfill site was closed in September 2006 and the final clay cover, topsoil/seed was placed in the fall of 2006. Post closure maintenance & operations is carried out in accordance with the MOE approved Closure Plan. There is currently no activity taking place at this site other than ground water monitoring and perpetual care maintenance.

Wilson Associates Limited Hydrogeologists summarized their findings in a Water Quality Monitoring Program Status Report and the following is a summary of their comments:

- 1) For 2016 the overall quality of groundwater at downgradient monitoring wells at the Kirkton Landfill remained relatively stable in comparison to historical trends.
- 2) Reasonable Use Criteria continued to be exceeded for a number of chemical parameters in the groundwater from most downgradient monitoring wells. However, there are no users of ground water within the leachate plume and no off-site users of ground water could conceivably be impacted by the landfill.
- 3) The overall water quality in Fish Creek in 2016 remained generally stable between the three monitoring stations. The phosphorus content of the Creek was the highest recorded since the start of monitoring in 1992, continuing to increase first in 2014; however this condition is not attributable to the landfill.
- 4) Based on the continuing relatively stable level of impact to the end of 2016, the once per year monitoring program should continue for 2017.

The Report contained the following recommendation:

"Surface water monitoring was undertaken on a once-yearly basis from 1999 to 2015 and twice-yearly prior to 1999. The 2010 Technical Guidance Document recommends that surface water monitoring occur three times yearly (Spring, Summer and Fall) and three samplings were undertaken in 2016 to establish conditions under the 2010 Technical Guidance Document. As noted the outcome of the three samplings in 2016 was consistent with all previous samplings since 1992 (ie. little to no measurable impact from the landfill) and it is recommended that the sampling for 2017 return to once per year."

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Operational Considerations:

As this report is being presented for information purposes only, no alternatives are presented.

South Huron's Strategic Plan:

Section 6.2.2 of the Municipality of South Huron 2015- 2019 Strategic Plan identifies key objectives that are reflective of the collective perspectives of the strategic planning process.

The recommendations and actions outlined in this report are reflective of the following strategic objectives:

Administrative Efficiency and Fiscal Responsibility

Informing Council of regulatory compliance, reduces liability and results in efficient use of time/resources.

Increased Communications and Municipal Leadership

Communicating information to Council related to the closed Kirkton Landfill Site and associated monitoring, keeps Council and the public informed.

Transparent, Accountable and Collaborative Governance

Public reporting of the 2016 Annual Kirkton Landfill (Closed) Status Report, demonstrates commitment to transparent, accountable and collaborative governance.

Dedicated Economic Development Effort

Informing Council of regulatory compliance, results in increased public confidence; retention/attraction of businesses and economic development opportunities.

Financial Impact:

There are no financial implications for the Corporation resulting from the proposed recommendation.

Legal Impact:

There are no legal implications for the Corporation resulting from the proposed recommendation.

Staffing Impact:

There are no staffing implications for the Corporation resulting from the proposed recommendation.

Policies/Legislation:

1. Environmental Protection Act, R.S.O. 1990, c. E.19
2. Ontario Regulation 347 – General Waste Management
3. Ontario Regulation 232/98 – Landfilling Sites
4. Kirkton Landfill Site MOE Certificate of Approval A162401
5. MOECC Technical Support for Ontario Drinking Water Standards, Objectives and Guidelines
6. MOECC Reasonable Use Concept into MOE Groundwater Management Activities
7. MOECC Water Management Policies, Guidelines, Provincial Water Quality Objectives

Consultation:

Chris Lierman, P.Eng. - Spriet Engineering London Limited, was consulted regarding the content of the Engineers Report. Ken Bettles, Director of Public Works for the Township of Perth South was consulted regarding report recommendations and filing with the Ministry, as there is a cost sharing Agreement with the Township of Perth South for the Kirkton Landfill.

File or Reference

E05

2016 Annual Kirkton Landfill (Closed) Status Report

Attachments:

None

Respectfully submitted,

A handwritten signature in black ink, consisting of a large, loopy 'D' followed by several vertical strokes and a long horizontal flourish at the bottom.

Don Giberson
Environmental Services Director

I concur with this report.

Dan Best MPA, BA
Chief Administrative Officer