

2024 Annual Report

Final

Ross Landfill Site – ECA No. A413209
Township of Whitewater Region

March 27, 2025

Jp2g Project # 17-60471



DISTRIBUTION LIST

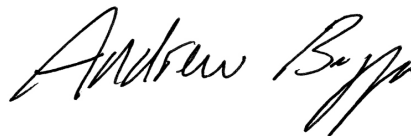
PDF	Association / Company
1	Township of Whitewater Region
1	Jp2g Consultants Inc.
1	Ministry of the Environment, Conservation and Parks (Ottawa District Office)

Jp2g Consultants Inc. Signatures



Report Prepared By:

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Manager | Environmental Services



Report Reviewed and
Approved By:

Andrew Buzza, P.Geo
Project Manager

EXECUTIVE SUMMARY

The completion of the 2024 Annual Report for the Ross Waste Disposal Site, which is located in Lot 10 Concession 5, in the geographic Township of Ross, is required to satisfy Condition 92 and 93 of Provisional Certificate of Approval (now referred to as Environmental Compliance Approval, ECA) No. A413209 dated December 23, 2005 last amended under Notice No. 2 dated July 21, 2014.

The requirements of ECA Condition 93 are included in the Annual Report and evaluated to determine the site's status of compliance.

Site Development and Operations

- Based on a comparison of waste mound surveys conducted in November 20, 2023 and February 5, 2025, it is estimated that the waste mound volume increased by approximately 6,915m³ in 2024.
- A comparison of the February 2025 survey to the approved design contours (excluding final cover) there is a remaining capacity of approximately 169,320m³. Assuming an average annual landfill rate of 7,500m³ provides 22 years life expectancy.
- The waste diversion facilities and operational procedures have been established for blue box materials scrap metal, refrigerants, propane tanks, waste electrical and electronic equipment (WEEE) and tires which were transferred from the site for market end use. In addition, brush, clean lumber, leaf and yard, and bulky waste was stockpiled and processed for use as daily cover material.
- A weigh scale was installed in December 2021 and new locations for waste and recyclable storage were established in 2023 which requires an amendment to the ECA to redesign the waste mound. To be filed in 2025.

Environmental Monitoring

A groundwater, surface water and landfill gas monitoring program was conducted in 2024 by Jp2g Consultants Inc. and the report is included as **Part 2** of this Annual Report.

- The 2024 monitoring has been conducted in accordance with the ECA and TSS review comments.
- In accordance with ECA Condition 81(a), the 2014 Annual Report proposed a Trigger Mechanism and Contingency Plans for District Manager approval and then submission to the Director for approval. Three (3) compliance wells were installed along the downgradient boundary in 2013 and are used in the Reasonable Use Assessment
- In accordance with ECA Condition 97 District Manager approval of a change to the monitoring program is required before Director approval. A request to review the current monitoring program in consideration of the operational changes was filed February 24, 2022. TSS review comments were received and will be considered in the future program developed for the application to amend the ECA.

Recommendations

- It is recommended the Township continues to maintain records for waste and recycling material quantities for 2025.



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PART 2 – 2024 MONITORING REPORT

Part 1
Site Development and Operations

1.0 INTRODUCTION

The Township of Whitewater Region retained Jp2g Consultants Inc. to complete the 2024 Annual Report for the Ross Waste Disposal Site. The completion of the report is required to satisfy Conditions 92 and 93 of the ECA No. A413209 dated December 23, 2005 as amended issued for the use and operation of a 5.4 ha Landfilling Area and Segregated Waste Storage and Processing Facilities within a 25 ha total site area. The site is located in the SW1/2 Lot 10, Concession 5, in the geographic Township of Ross, Township of Whitewater Region at 990 Kohlsmith Road.

1.1 Background

The Ross Waste Disposal Site originally served the residents in the former Township of Ross from the early 1970's under Provisional ECA No. A413209. On January 1, 2001, the Township of Ross amalgamated with the Township of Westmeath, Village of Beachburg and the Village of Cobden to form the Township of Whitewater Region. In 2003 all municipal waste was collected and landfilled at the Westmeath Waste Disposal Site (ECA No. A413602) as the MOE approval process to centralize future waste management operations to the Ross Site was under review.

In response to the August 30, 2001 application the MOE issued an Amendment to ECA No. A413209 Notice No. 1 dated August 26, 2002. The amendment acknowledged the sites service area as the Township of Whitewater Region and required the submission of a site development and operations plan for Director approval. The Township submitted an Application with the requested supporting documentation as Addendum No. 1 dated September 13, 2002. On December 23, 2005 the MOE issued an Amended ECA No. A413209 for the Ross Waste Disposal Site. On April 1, 2006 the Ross site opened and began receiving waste from the municipality in Stage 1 of the landfilling area.

In accordance with Conditions 79 and 80 of the ECA in 2006 the Township purchased a 12.25ha adjacent parcel for the purpose of a contaminant attenuation zone (CAZ). In 2009 another adjacent property (18.5ha) was purchased for a CAZ, although no significant impact on groundwater quality had been detected, it was determined that a CAZ would be required for future landfilling operations. Of the 18.5ha property purchased in 2009, a 4.52ha portion is proposed part of the site CAZ; the remaining is "municipal property". Total landholdings including the original 8.0ha site area is equal to 24.77ha as shown on Figure 1 and 2, Part 2 of this report.

Under the ECA Condition 39 Stage 2 operations as proposed in the 2001 application were to be considered under a new application once the municipality established the required CAZ. An application and all supporting documentation for Environmental Compliance Approval was submitted to the MOECC on February 12, 2013. As landfilling in the remaining capacity of the Stage 1 trench led to some waste disposal beyond the trench limits, and the Stage 1 capacity would be exceeded in Spring 2013, the Township filed an Interim Measures for Waste Acceptance Report in March 2013. On March 15, 2013 the Township obtained an amended ECA Notice No. 1 which permitted disposal in Stage 1 above the original ground elevation. The Township received the amended ECA Notice No. 2 dated July 21, 2014 which permitted landfilling in Stage 2.

An application to amend the ECA to redesign the waste mound to accommodate the weigh scales and the new storage area will be filed in 2025.

1.2 Scope

Condition 92 of the ECA for the Ross Waste Disposal Site requires an Annual Report be submitted to the District Manager by March 31, 2007 and on an annual basis thereafter. As required under Condition 93, the prescribed information found in this report is as follows:

- a) Calculations of waste volume, cover, and final cover deposited or placed at the Site, and calculation of total volume site capacity used – Part 1 Section 2.2.
- b) Site plan(s) showing existing contours, operations, existing facilities and planned site preparations and facilities – Part 1 Drawings.
- c) Calculation of remaining approved capacity and estimate of remaining site life – Part 1 Section 2.2.
- d) Summary of cover stockpiling activities including use, timing locations and erosion protection – Part 1 Section 3.1.
- e) Waste types and quantities of recyclable/reuseable waste received and transferred – Part 1 Section 3.2.
- f) Destinations of recyclable/reusables – Part 1 Section 3.2.
- g) Type of waste and quantity transferred from reuse area to landfilling – Part 1 Section 3.2.
- h) Summary of wood waste chipping activities – Part 1 Section 3.2.
- i) Summary of litter pick up and dust suppression activities – Part 1 Section 3.3.
- j) Summary of maintenance and repairs performed at the site – Part 1 Section 3.3.
- k) Summary of inspections – Part 1 Section 3.3.
- l) Summary of complaints and actions taken – Part 1 Section 3.4.
- m) Summary of emergency situations and actions taken – Part 1 Section 3.4.
- n) Any environmental and operational problems and mitigative measures taken – Part 1 Section 3.5.
- o) Any recommendations to minimize environmental impacts from the operations – Part 1 Section 3.6.
- p) The results of all leachate, groundwater and surface water monitoring and an assessment to amend the monitoring program – Part 2.
- q) An assessment of the operation of the site and a need to amend the design or operations, and the adequacy of and need to implement contingency plans – Part 1 Section 3.6.
- r) A report of the status of all monitoring wells and statement of compliance with O.Reg. 903 – Part 2.
- s) Any other information required by the District Manager – Part 1 Section 3.5 – Part 2.

The information compiled for site development and operations is provided in **Part 1** of this Report and is based on documentation provided by the Township's Environmental Services Superintendent and a waste mound survey and analysis undertaken by Jp2g Consultants Inc. The information required to address environmental quality monitoring is presented in the report entitled "2024 Monitoring Report, Ross Waste Disposal Site" prepared by Jp2g Consultants Inc., and forms **Part 2** of this Annual Report.

2.0 SITE DEVELOPMENT

The Ross Waste Disposal Site ECA No. A413209 dated December 23, 2005 as amended permits the establishment, use and operation of a 5.4ha landfilling area and segregated waste storage and processing facilities all within a 25-ha total site area. The landfilling area actually comprises the 5.033ha area within the 30 metre buffer on the site and a 3690m² (0.369ha) historical deposit of waste in the 30m buffer as shown on **Drawing No. 1**. The ECA acknowledges a theoretical approved waste disposal volume of 434,340m³ (Condition 37) assuming a landfilling area of 5.7ha. The current ECA as amended July 21, 2014 approves a total waste disposal capacity of 375,400m³ (Condition 38b).

During 2001 up to December 2002 the Township's landfilling operation was contained within the Stage 1 Phase 1 design limits. It was estimated that 10,066m³ of landfilling space was used. In April 2006, Ross Landfill reopened for operations and the entire trench length was excavated by 2008. Excess cover material was stockpiled along the southerly property limit within the 30m buffer to create a berm. Landfilling within the Stage 1 limits progressed east to west (Phase 3 to Phase 1). In December 2012 there was an estimated 1000m³ of landfilling capacity remaining in Stage 1.

The Township obtained approval to landfill above the ground elevation within the Stage 1 trench limits under amended ECA March 15, 2013. Upon receipt of the amended ECA July 21, 2014 the Township moved landfilling into Stage 2. As per the current ECA, development and operations in Stage 2 provides a total site capacity of 375,400m³ which includes 119,100m³ in place waste as of January 1, 2013.

Waste diversion activities at the site have been developed to address market demands, and various facilities were constructed on-site. The Design and Operations Report dated February 2013 listed as item 12 on Schedule "A" of the ECA provides a description of how various materials are to be managed. During the processing of the ECA the Township obtained clarification on a number of operations from the MOECC Ottawa District Office T. Rustad – processing wood waste and S. Burns – WEEE.

2.1 Waste Disposal

Development of the site to accommodate the Stage 1 approved waste disposal volume of 59,935m³ by trench and fill proceeded in accordance with the "Site Development and Operations Plan" dated June 2001 and drawings included with the correspondence dated September 11, 2003 to J. Hiraishi, EAAB.

The limits of Stage 1 disposal were maintained within the 3 phases of trench development to a typical depth of 5m (295m contour). During 2006 the Township excavated and stockpiled earth material from Phase 2 and 3 to improve access to the working face and for future waste disposal operations. By 2008 the Stage 1 trench was completely excavated, and landfilling was to complete the fill from Phase 3 to Phase 1 where the access road leading into the trench was established. By spring 2013 the Stage 1 trench capacity had been exhausted, and the Township obtained approval to landfill above the original ground elevation in the Stage 1 limits under ECA Notice No. 1 dated March 15, 2013.

Waste disposal operations proceeded in accordance with the "Design and Operations Report" dated February 2013 and the accompanying drawings under ECA Notice No. 2 dated July 21, 2014.

Drawing 1	Existing Conditions Plan 2012
Drawing 2	Cross Section A
Drawing 3	Proposed Final Contours
Drawing 4	Cross Sections B&C

These drawings were produced based on an assumed local benchmark elevation. Since 2016 the survey of the waste mound was completed based on a geodetic datum, which was established on the on-site benchmarks as Total Station Points (TPS) shown on the Existing Conditions Plan, 2023 attached as **Drawing 1**. There is a difference of 135.36m between the assumed and geodetic which is a lower elevation.

2.2 Landfill Capacity

A topographic survey of the waste mound was completed by Jp2g Consultants Inc. on February 5, 2025. The results of the survey were used to determine the landfilling rate for 2024 and to estimate the site's remaining capacity. **Drawing 1**, Existing Conditions Plan 2024, illustrates the area of disposal.

Based on comparison of the November 20, 2024 waste mound survey to the February 5, 2025 survey it is calculated that approximately 6,915m³ of landfilled space was utilized in 2024. The following summarizes the estimate of in place waste disposal capacity and annual survey results:

Period	Landfilled (m ³)
1970-2000	60,154
2000-2002	10,066
2002-2005	0
2006-2007	7292
2008	6000
2009	7486
2010	8272
2011	7140
2012 (1)	8622
2013 (2)	10627 (8527)
2014	9437
2015	8400
2016	8500
2017	8010
2018	9050
2019	8550
2020	8500
2021	10,760
2022	5,500
2023	7,000
2024	6,915
TOTAL	214,781

Notes:

- (1) ECA Condition 39 as of December 31, 2012 there was 119,100m³ landfilled
- (2) Assumed 2100m³ was stockpiled as alternative cover material.

Based on a total approved capacity of 375,400m³ there would be a remaining capacity of 160,619 if you consider the results of the above noted surveys and investigations.

For the purpose of estimating a more accurate remaining capacity, the February 5, 2025, survey was compared to the design contours (not including final cover and topsoil – 0.45m). From the 375,400m³ total approved capacity there is approximately 169,320m³ remaining capacity. Based on an average annual landfilling rate of 7,500m³ there is an estimated 22 years of life expectancy.

2.3 Waste Diversion Facilities

Under a COMRIF grant the Township completed a phased program of improving the existing waste diversion facilities on site. Under Condition 31 there is a requirement to obtain written consent from the District Manager to undertake changes to the recycling/storage facilities in a manner different than item 8(f) of Schedule “A” of the ECA. A copy of the plan entitled “Figure A Ross Waste Disposal Site” dated November 2005 was included in the 2006 Annual Report.

In 2009 through an agreement with Ontario Tire Stewardship the Municipality arranged for the removal of tires from the site. In the Fall of 2010 through an agreement with Ontario Electronics Stewardship the Township was approved to store waste electrical and electronic equipment (WEEE) for collection. A roll-off container was established on-site in the fall of 2010.

In May 2015, the Township established two (2) 40 yd³ roll-off containers to accept individual deliveries of blue box materials.

A request for Ottawa District Manager approval to rearrange the waste and recycling storage facilities was filed February 24, 2022. On August 19, 2022 approval was granted. In late 2022 and 2023 the Township erected retaining walls and bunkers to store waste and recyclables as shown on **Drawing No. 1**.

2.4 Site Improvements

In the Fall of 2006, the office building and a water supply well was constructed, hydro was also extended to the site. The well is not used for drinking water.

In accordance with Condition 64 a proposed visual screening was recommended along Kohlsmith Road and adjacent residents to the southwest. In the spring of 2009 500 Jack Pine and 500 Austrian Pine were planted along the southern road frontage of the site within the 30m buffer. In the spring of 2010, an additional 250 Jack Pine seedlings were planted randomly in an effort to introduce a visual barrier, and wind break, however due to extraordinary dry conditions they did not survive.

In December 2021 weigh scales were installed at the site. On February 24, 2022 Jp2g filed a proposal to MECP to relocate the site entrance and access road to the weigh scales and develop a waste management area to store waste and recyclable materials. The block retaining wall and bunkers were initiated in late 2022 and completed in 2023. The new waste management area was operational on October 14, 2023 complete with signage and storage bins for blue box materials, domestic waste and scrap metal.

Weighted blast mats have been used since April 3, 2024 to cover the active disposal area between cover applications. A Bomag BC473RB-5 landfill compactor was purchased and began operation on August 8, 2024.

3.0 SITE OPERATIONS

The following description of site operations is based on occasional site visits by Jp2g Consultants Inc. and Township records which are included in **Appendix A**.

3.1 Waste Disposal Activities

Based on the estimate contained in Section 2.2 of this report approximately 6,915m³ of space was landfilled in 2024. Millers Waste completed the curbside and landfill site collection of waste and blue box recyclables in 2024. Deliveries to the landfill site by individuals were directed to the waste bins and material storage facilities. Large waste loads by individuals are directed to the active working face.

Landfilled Waste

According to the weigh scale records 1,848.28 tonnes of waste (agri plastic, bags of garbage, mixed loads, un-sorted loads, flood debris and ground bulky waste) received at the site was landfilled. An additional 1,387.72 tonnes were collected at the curbside by Millers Waste for a total of 3,236 tonnes.

Dried Sludge

A recorded 463.75 tonnes of sludge produced at the Cobden Wastewater Treatment Plant was hauled by OCWA to the landfill site for disposal.

Landfill Phasing

In 2014 landfilling was completed in Stage 1 above the original ground elevation until the amended July 2014 ECA, then operations were initiated in Stage 2 as an Area Method of landfilling as shown on **Drawing No. 1**.

Cover Material

The Township uses stockpiled earth, contaminated soil and processed organic waste (brush, leaf and yard waste) and processed bulky and C&D waste as a source of cover material. Some material is being excavated from the CAZ.

- A recorded 1,451 tonnes of soil was used as cover.
- The stockpile of brush and wood (688 tonnes), leaf and yard waste (239 tonnes) was ground by Nad-Core in October 2024, the 927 tonnes of material was used as cover material.
- No concrete material was received in 2024 which is re-used within the landfilling area.

Intermediate Cover

The intermediate cover applied on Stage 1 is in good condition.

3.2 Summary of Recyclables and Other Materials Received and Transferred from the Site

Millers Waste completed curbside and landfill site collection of recyclables. Based on available records 21.57 tonnes of materials were collected at the site and diverted from landfilling to the Ottawa Valley Waste Recovery Centre (OVWRC).



The Township conducts additional waste diversion activities at the Site. The following summarizes the Township's records for other materials received and managed at the Ross Waste Disposal Site in 2024:

Scrap Metal & Steel

- The scrap metal included various metal materials, refrigerated appliances with the Freon removed and propane cylinders. Barron Disposal Ltd. and Cash For Trash provided roll off containers and when full they are hauled off site. A reported 91.89 tonnes were collected in 2024.

Propane Cylinders

- No record of propane cylinders received and removed from the site as part of the scrap metal pickup.

Refrigerants

- A total of 181 refrigerated appliances were tagged after refrigerants were removed on September 28, 2024 by Evan Hutley Environmental and then removed with scrap metal.

Tires

- Tires were accepted at the Site and stockpiled in a designated area and at the request of the Township eTracks Tire Management Systems organized their removal. A reported 29.92 tonnes were hauled by R&E Tire and Cash For Trash.

WEEE

- A recorded 8.6 tonnes of material were transferred off site by Advantage Boring and sent to Redi Recycling all organized by EPRA.

Batteries and Incidental Hazardous Waste

- No record of this waste received and transferred in 2024.

Municipal Household Special Waste (MHSW)

No MHSW collection event was held in the Township, as they are now part of the joint HHW depot operated at the Town of Renfrew Landfill Site.

Reuse Materials

- A reuse building/storage area has not yet been established on the site.

3.3 Site Maintenance and Inspections

The Township conducts regular maintenance and inspections as required under Conditions 69, 70, 88, 89 and 90 of the ECA. No significant operational issues were identified in 2024.

Litter Pick Up

Occurs daily Monday to Saturday on-site along the fence line and roads. Effort increased after each snow melt (February-April) and high wind events during the year.



Equipment Maintenance

Equipment includes a ½ ton truck, John Deere 655K tracked loader, Hitachi Excavator and the recently acquired Bombag Landfill Compactor. Standard maintenance requirements were done in 2024, none significantly impacted operations.

Nuisance Controls

On June 19, 2024, calcium chloride was applied on the access road between the entrance and the weigh scales to reduce dust. Daily placement of the blast mats to minimize bird access to the active disposal face between applications of cover material.

Staff Inspections

Conducted daily and weekly inspections and completed inspection forms. Main issues included birds digging up waste through the cover material, application of cover on exposed waste, rejected loads and extreme weather conditions.

3.4 Summary of Complaints and Emergency Situations

The Township of Whitewater Region received one complaint in 2024 as a resident was unaware, they could remove items with separate charges ie. furniture before weighing waste charged by the tonne. The resident was refunded the tipping fee for the items with an individual charge.

Five (5) waste deliveries were rejected as there was insufficient paperwork characterizing the demolition waste load.

3.5 Site Compliance with Terms and Conditions of the ECA

Under the Ministry Site Compliance Inspection program, the MECP filed a number of Site Inspection Reports expressing concern regarding site operations, monitoring the remaining capacity of the site before the 2014 ECA amendment. Copies of documentation on file are provided in **Appendix B**. The November 2011 Solid Non-Hazardous Waste Disposal Site Inspection Report requested that Environmental Compliance Approval to commence filling in Stage 2 be filed by January 15, 2012. The Site Inspection Reports were accompanied by a TSS surface water review, November 24, 2011 and a TSS groundwater review January 9, 2009. Jp2g filed a response to the Inspection Report dated March 8, 2012 responses to TSS reviews are detailed in **Part 2** of this report.

In order to prepare a comprehensive Application, the TSS reviews had to be addressed in the 2012 monitoring program. Furthermore, the Township initiated a public consultation program which included a Public Meeting held September 19, 2012. An application for an amended ECA was filed with the MOE in February 2013. Further consultation with MOECC was conducted in 2013, which included TSS groundwater and surface water reviews on the 2012 Annual Report and the supporting documentation for the Stage 2 application. Jp2g provided responses accordingly and directed copies to EAB to facilitate the review. A detailed response to the TSS review is provided in **Part 2** of this report.



Recognizing the approved capacity of Stage 1 would be exhausted prior to Stage 2 approvals, the Township obtained an amended ECA to approve continued site operations. The Ottawa District Office initially requested a contingency plan by April 2, 2013 and relocation of FBAL by June 1, 2013. The Township filed an Interim Measures Plan on March 7, 2013 and filed a request for an emergency ECA to permit the FBAL and landfilling above existing ground elevation in Stage 1. The ECA amendment was issued March 15, 2013. The Township requested approval to collect WEEE which was approved by the Ottawa District Manager November 24, 2014.

Upon receipt of the July 21, 2014 amended ECA the Township relocated waste disposal into Stage 2. An application of intermediate cover was applied to the above ground disposal area on Stage 1.

Under the MECP compliance monitoring program the November 2014 Solid Non-Hazardous Waste Disposal Site Inspection Report requested that the Township ensure:

1. WEEE is approved under the ECA.
2. All waste loads are inspected and the receipt, landfilling and removal of waste is supervised by a site attendant.
3. The District Manager has been notified, in writing, of load rejections at the site within one business day of the occurrence.
4. The brush, clean wood waste and leaf and yard waste storage areas are located a minimum of 30m from the trees, flammable materials buildings and the active waste disposal area.
5. The incidental hazardous waste storage container is clearly marked indicating the type and nature of the hazardous waste stored and a non-smoking sign must be posted.
6. At the end of the working day, the entire working face is covered with a minimum 150mm of cover material.

A March 2018 Site Inspection Report identified no concerns or action items for the Township.

On August 8, 2024 a site inspection was conducted by Thandeka Ponalo. Jp2g in association with Township staff filed a response dated September 17, 2024 which advised the requested information in Condition 93 of the ECA will be included in the Annual Report. In addition there was concern regarding the large number of birds and their digging to exposed waste.

The Ross Waste Disposal Site is operating in accordance with the terms and conditions of ECA No. A413209 dated December 23, 2005 as amended. A summary compliance table is included in **Appendix C**.

3.6 Recommendations

- Ensure adequate recording and reporting of waste, recyclables, and maintenance as per Conditions in the ECA.
- An application to amend the ECA will be filed in 2025.



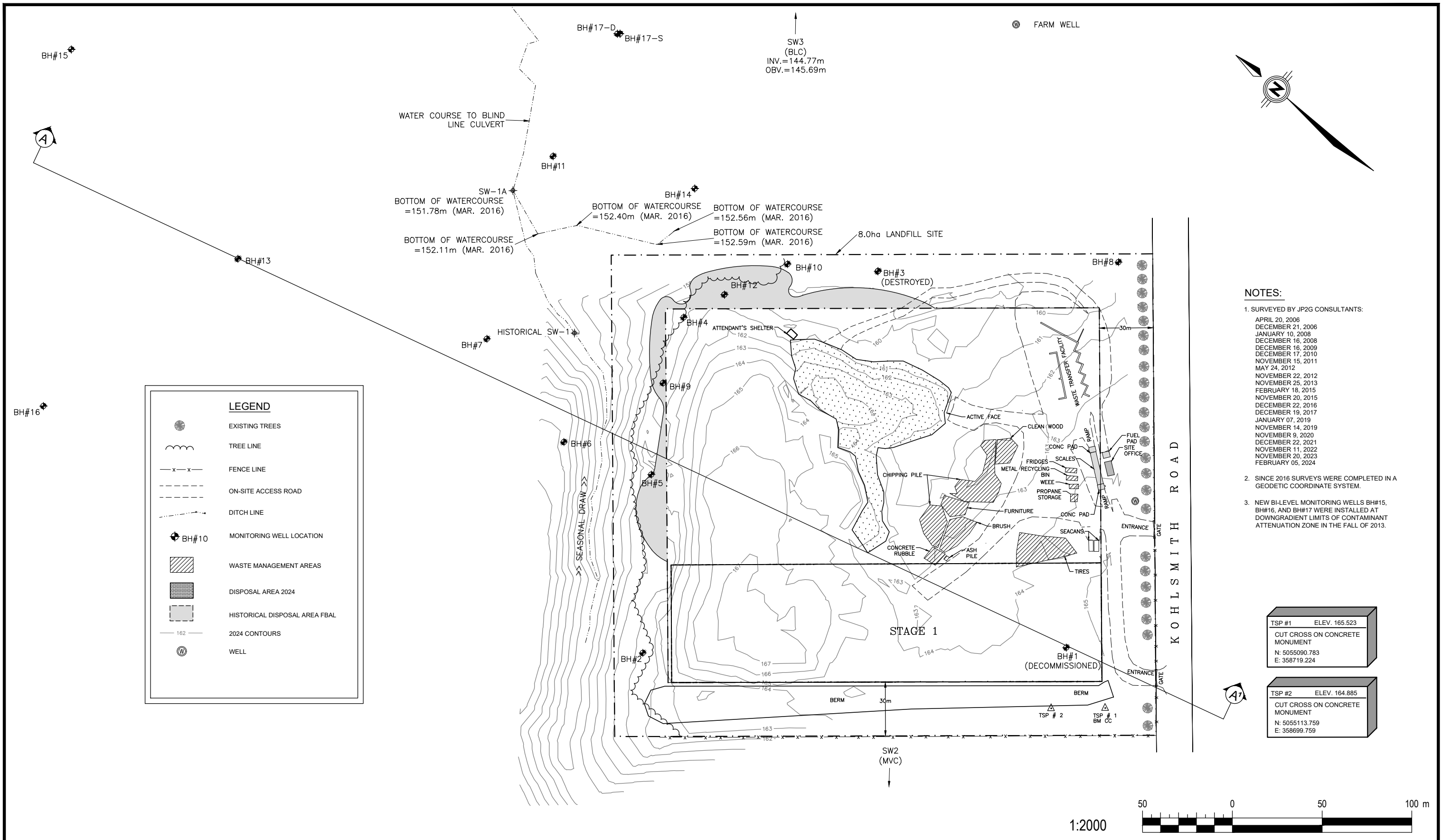
4.0 ENVIRONMENTAL MONITORING

As required under Conditions 72, 83 and 81 of the ECA the report entitled “2003, 2004 and 2005 Monitoring Programs, Ross Waste Disposal Site” prepared by Golder Associates Ltd. was submitted to the MOE District Manager on December 22, 2006. The report detailed the proposed surface water, groundwater monitoring programs and the trigger mechanism and contingency plans for the site.

Under the MECP environmental compliance abatement program, there have been several TSS surface and groundwater reviews on file, and in consideration of the Technical Guidance Document (November 2010) this has resulted in proposed changes to the monitoring program. Under the ECA Application for approval of Stage 2 landfilling, TSS conducted additional reviews in consideration of the establishment of the CAZ and installation of monitoring wells at the CAZ boundary. The monitoring program is to proceed as per the Environmental Monitoring Report dated February 2013, under ECA amendment July 24, 2013. ECA Condition 81(a) required establishment of a Trigger Mechanism and Contingency Plans to be included in the 2014 Annual Report.

Jp2g filed an Operations Change Feasibility Summary with MECP dated June 21, 2022 proposing the redesign of the waste mound to accommodate the weigh scales and new locations for waste and recycling storage facilities. TSS Groundwater review comments on the 2021 AMR were received dated July 26, 2022 and TSS Surface Water review comments on the 2020 and 2021 AMR were received September 7, 2022 and TSS Surface Water review comments on the 2023 AMR were received October 31, 2024. Further details are included in **Part 2**.

Drawings



LEGEND

- EXISTING TREES
- TREE LINE
- FENCE LINE
- ON-SITE ACCESS ROAD
- DITCH LINE
- MONITORING WELL LOCATION
- WASTE MANAGEMENT AREAS
- DISPOSAL AREA 2024
- HISTORICAL DISPOSAL AREA FBAL
- 2024 CONTOURS
- WELL

- NOTES:**
- SURVEYED BY JP2G CONSULTANTS:
APRIL 20, 2006
DECEMBER 21, 2006
JANUARY 10, 2008
DECEMBER 16, 2008
DECEMBER 16, 2009
DECEMBER 17, 2010
NOVEMBER 15, 2011
MAY 24, 2012
NOVEMBER 22, 2012
NOVEMBER 25, 2013
FEBRUARY 18, 2015
NOVEMBER 20, 2015
DECEMBER 22, 2016
DECEMBER 19, 2017
JANUARY 07, 2019
NOVEMBER 14, 2019
NOVEMBER 9, 2020
DECEMBER 22, 2021
NOVEMBER 11, 2022
NOVEMBER 20, 2023
FEBRUARY 05, 2024
 - SINCE 2016 SURVEYS WERE COMPLETED IN A GEODETIC COORDINATE SYSTEM.
 - NEW B-I-LEVEL MONITORING WELLS BH#15, BH#16, AND BH#17 WERE INSTALLED AT DOWNGRADE LIMITS OF CONTAMINANT ATTENUATION ZONE IN THE FALL OF 2013.

TSP #1 ELEV. 165.523
CUT CROSS ON CONCRETE MONUMENT
N: 5055090.783
E: 358719.224

TSP #2 ELEV. 164.885
CUT CROSS ON CONCRETE MONUMENT
N: 5055113.759
E: 358699.759



No.	DATE	BY		REVISIONS	

Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON K2H 8S9
PHONE: 613-828-7800 FAX: 613-828-2600

DESIGNED	RM
DRAWN	TN
CHECKED	KM
APPROVED	KM
SCALE	1:2000

TOWNSHIP OF WHITEWATER REGION
ROSS WASTE DISPOSAL SITE

EXISTING CONDITIONS PLAN 2024

PROJECT	17-60471
PLOTTED	18-FEB-2025
DRAWING	

Appendix A

Township Records



Township of Whitewater Region Public Works Department

Operational Particulars, Ross Landfill Site, 2024

- Soil used as cover material: 1,451 tonnes
- Wood and Leaf and Yard waste collected and ground: 926 tonnes
 - Grinding completed on October 11 – 15th, 2024
 - Completed by Nad-Core Environmental Shredding Ltd.
 - All ground material was stockpiled for beneficial re-use as landfill cover.
- Concrete re-used within landfill footprint: none
- Non-hazardous waste landfilled (includes agricultural plastic, ground bulky items (armchairs, couches, mattresses, boxsprings), shingles, curbside collected garbage, and sorted and unsorted garbage delivered directly to the landfill: 3,236 tonnes
- Sludge Landfilled: 463 tonnes
 - Hauled by OCWA from Cobden WWTP
 - EASR # 1000195957
- Plastic, glass and metal recyclables collected at landfill: 6.1 tonnes
 - Hauler: Miller Waste
 - Destination: Ottawa Valley Waste Recover Centre
- Fibre and cardboard recyclables collected at landfill: 15.47 tonnes
 - Hauler: Miller Waste
 - Destination: Ottawa Valley Waste Recover Centre
- Dates of MHSW Events: No collection events were held within Whitewater Region in 2024. Whitewater Region is now part of the joint municipal HHW depot hosted by the Town of Renfrew landfill.
- Tires collected and removed in 2024:
 - 1,937 Passenger Light Truck Tires
 - 78 Medium Truck Tires
 - 12 Agricultural Drive & Logger Skidder
 - 40 Small off the Road Tires
 - PRO: E-tracks
 - Haulers – Cash for Trash and R&E Tire
- Electronics removed: 8.6 tonnes
 - PRO: EPRA
 - Hauler: Advantage Boring Transport

- Scrap Metal Removed: 91.89 tonnes
 - Hauler: Cash for Trash
- Refrigerated Units Processed (De-Gassed): 181 Units (September 28, 2024)
 - Serviced by Evan Hutley Enterprises.
- Complaints Received: 1 customer complaint was received.
 - Customer was unaware that they could remove items with separate charges (such as couches) and then re-scale the remaining waste that is charged by the tonne (such as bagged household waste). The resident was provided a refund of the tonnage based tipping fee for the estimated weight of the items with an individual charge.
- August 8, 2024 - Open Landfill Site Inspection completed by MECP inspector Thandeka Ponalo.
- A Bomag BC473RB-5 landfill compactor was purchased and began operation on August 8, 2024.
- Dust Control: One application of calcium chloride was made to the landfill entrance road (between the entrance gate and scales) on June 19th.
- Gulls, crows, ravens and wild turkeys were present at the site in 2024. Control measures to reduce vermin spread litter include the use of weighted blast mats to deter digging, using sufficient cover material nightly and regularly collecting wind blow litter within and surrounding the site. The addition of the landfill compactor to Site operations in August significantly reduced the ability of vermin to uncover waste.
- Litter picking activities occur daily (on-site, along fence lines, and on surrounding roads) with increased focus litter picking occurring as required, typically after each snow melt event in February – April.
- Five loads were rejected in 2024. Loads were rejected due to insufficient paperwork related to building demolition and renovation wastes. The Township requires that building demolition and renovation waste be screened for hazardous building materials, such as asbestos, prior to attending the landfill site. Such loads require approval by the Environmental Services Superintendent prior to attendance at the Site and disposal. The Superintendent requires a clean designated substance survey report be provided prior to acceptance of demolition and renovation waste, if initial screening indicates that hazardous building materials could be present, based on building age and material types present. The rejected loads arrived at the landfill site without pre-screening or documentation that the waste was free of hazardous building materials.

Appendix B

MECP Correspondence



Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	The Corporation of the Township of Whitewater Region Mailing Address: 44 Main St, Post Office Box, 40, Cobden, Ontario, Canada, K0J 1K0 Physical Address: 44 Main St P.O. Box 40, Cobden, Whitewater Region, Township, County of Renfrew, Ontario, Canada, K0J 1K0 Telephone: (613)646-2282, FAX: (613)646-2283, email: dsauriol@whitewaterregion.ca Client #: 0415-4RYKP5, Client Type: Municipal Government, NAICS: 92119 Additional Address Info: P.O. Box 40, Cobden		
Inspection Site Address:	Ross Waste Disposal Site Address: 990 Kohlsmith Rd, Whitewater Region, Township, County of Renfrew, K0J 1K0 District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 358828, UTM Northing: 5055148, UTM Location Description: Entrance gate to site,		
Contact Name:	Steven Hodson	Title:	Landfill Operations Manager
Contact Telephone:	(613)638-4764 ext	Contact Fax:	
Last Inspection Date:	2006/12/21		
Inspection Start Date:	2010/06/23	Inspection Finish Date:	2010/06/23
Region:	Eastern		

1.0 INTRODUCTION

Provisional Certificate of Approval #A413209, dated October 28, 1980 with subsequent amendment dated December 23, 2005 provides authorization to the Corporation of the Township of Whitewater Region for the operation of the Ross Waste Disposal Site. The site is located at 990 Kohlsmith Rd (Lot 10, concession 5), Whitewater Region Township, County of Renfrew.

The Ross site re-opened in the Spring of 2006 and is the sole active waste disposal site in the Township.

The purpose of the inspection was to assess the site for compliance with CofA #A413209 and governing Ministry legislation. The inspection involved a site tour, discussions with Steven Hodson, landfill operations manager, review of on-site records, and a review of files located at the Ottawa District Office.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s):

A413209, dated October 28th, 1980, amended December 23rd, 2005

2.1 FINANCIAL ASSURANCE:

Financial Assurance is not required by the Ministry of the Environment for municipally operated waste disposal sites.

2.2 APPROVED AREA OF THE SITE:

CofA #A413209 allows for the establishment, use and operation of a 5.4 hectare landfilling area and segregated waste storage and processing facilities all within an 8 hectare total site area. The Township is approved to landfill inside Stage 1 of the Site. As per Condition 38 (b) the Certificate does not approve the remaining landfilling operations referred to as Stage 2.

Inspection Observations:

According to Steven, the berm around the active landfill trench delineates the area of Stage 1. Material from the berms is being used as daily cover. I saw no evidence of landfilling outside of this bermed area.

2.3 APPROVED CAPACITY:

Condition 37 of the Certificate of Approval allows for a maximum theoretical approved waste disposal volume of the Site as 434,340 cubic meters.

Condition 38 (a) of the certificate details the storage capacity for Stage 1. The Stage 1 capacity, from the date of issuance of the certificate of approval cannot exceed 45,869 cubic meters of waste, daily cover and intermediate cover.

The amount of landfill space consumed as outlined in the annual reports can be summarised as such:

2006: 4,035 cubic meters
2007: 7,292 cubic meters
2008: 6,000 cubic meters
2009: 7,486 cubic meters

Total: 24,813 cubic meters

Therefore it would be estimated that the Site is approved to have a remaining capacity of 21,056 cubic meters. Page 6 of the 2009 annual report indicates that the Site's remaining capacity for Stage 1 is 50,360 cubic meters. This discrepancy appears to have started in the 2008 annual report. Clarification is required, please see section 5.0 of this report.

2.4 ACCESS CONTROL:

The site was inspected on a day the landfill was open to the public. The gate was open and two attendants were working.

The gate has a lock on it and, according to Steven, is kept closed and locked when township staff are not present. The Site is open to the public on Wednesdays and Saturdays from 8 am to 2 pm. Municipal haulers and staff have keys to the gate and are able to access the site throughout the week.

There is a sign posted at the front entrance in accordance with Condition 55 of the Certificate of Approval. According to Steven, he had placed signs throughout the property (as per condition 56 of the approval) directing traffic and labelling areas but the signs got damaged and were never replaced. The only sign visible inside the site was a sign marking the propane cylinder bunker. See Section 5.0 of this report.

2.5 COVER MATERIAL:

Condition 44 (a) requires the Township to apply 150 mm of cover material to the entire working face at the end of each working day. At the time of inspection daily cover on the active face was not being done. According to Steven the excavator broke a couple of weeks ago. The Township ordered another excavator and it is supposed to arrive on June 24th, 2010. As a result, the township has been renting a bull dozer,

which has not been very successful at applying daily cover to the active face.

An email received by Steven on June 25th, 2010 confirmed that the hydraulic excavator has been received and exposed waste has been covered. See section 5.0 of this report.

According to Steven staff at the landfill work Tuesday to Saturday, therefore when municipal trucks dump on Monday the waste sits there until staff arrive on site on Tuesday, waste does not get covered on Mondays.

Final cover is required for historically landfilled buffer area. This issue has been brought up in the past. At the time of inspection, exposed waste could be seen in the wooded area north/ north- west of the Site. More effort needs to be done to pick up loose litter or cover exposed waste. See section 5.0 of this report..

2.6 WASTE BURNING:

At the time of inspection I saw no evidence of burning waste.

2.7 GROUNDWATER/SURFACEWATER IMPACT:

At the time of inspection I saw no evidence of groundwater or surface water impacts. There were no visible leachate seeps or pools.

Some of the monitoring wells were inspected. All appeared to be capped but some were not secured. New locks will need to replace any existing locks that no longer function. See section 5.0 of this report.

As per Condition 15 of the CofA the Township is required to submit to the Ottawa District Manager a copy of the Certificate of Requirement signed by the Director. I was not able to find a copy of the certificate during my file review. The piece to the north west was purchased back in 2006, the piece of property to the north east has just recently been purchased. Steven indicated that the two pieces of property have been purchased to complete the CAZ requirements. See section 5.0 of this report.

2.8 LEACHATE CONTROL SYSTEM:

A leachate control system is not present at the site

2.9 METHANE GAS CONTROL SYSTEM:

A methane gas control system is not present at the site. Condition 65 of the Certificate of Approval requires routine monitoring for explosive methane gas levels. See section 5.0 of this report.

2.10 OTHER WASTES:

At the time of inspection I did not notice any unapproved waste.

Waste currently being removed from the landfill includes, scrap metals, leaf and yard waste, white goods and refrigerant appliances, propane cylinders, batteries and tires.

Previously, the site operated a blue box material depot but the Township decided to stop the program as they were paying to have the materials collected curb side and sent to Beauman Industries in Renfrew.

The site used to also collect cardboard but the facility they would take the cardboard to has shut down.

The Township is registered with the Ontario Tire Stewardship as a collector (registration# 2012634).

Inspection observations:

Waste types were separated in piles or areas. No signs were posted with the exception of the bunker designated for the propane cylinders. Piles were distinct and organised and located in back of the landfill attendant office.

Conditions 69, 7-, 88 and 89 deal with inspection requirements and record keeping. Records are currently being kept in a log book on site but they do not include the level of detail required in the conditions of the certificate of approval. Further improvement will need to be made to record keeping as well as daily site inspections. See section 5.0 of this report.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

Non compliance noted on previous inspection report:

- no generator number for the propane tanks - compliance attained HWIN registration # ON3347319.
- completion of the final cover over historically landfilled buffer area - final cover has been added but litter and exposed waste was found on north - north-west bank of buffer area
- upgrade to the monitoring network. -
- submission of a completed Certificate of Requirement in accordance with Condition 14 c)
- establishment of daily operations reports
- establishment of weekly site inspection records

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate ?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Yes

Specifics:

- Non compliance with condition 56 of the certificate of approval - no signs on site directing traffic.
- Non compliance with condition 44 of the certificate of approval - waste was not being covered daily.
- Non compliance with condition 74 of the certificate of approval - monitoring wells were not secured.
- Non compliance with condition 15 of the certificate of approval - Certificate of Requirement has not been submitted to the District Manager.
- Non compliance with conditions 69,70,88, and 89 - Record keeping and inspections are inadequate.

5.0 ACTION(S) REQUIRED

- 1- Provide an explanation for the increase in available capacity noted in the 2008 and 2009 annual reports.
- 2- Take steps to ensure compliance with Condition 56 of Certificate of Approval.
- 3- Submit photograph(s) showing active face of landfill at the end of the day clearly showing that all the waste is covered.
- 4- Submit plan to ensure that routine pick up of litter and covering of exposed waste on the banks of the north/ north-west buffer zone of the landfill is conducted.
- 5- Take steps to ensure that all monitoring wells are kept locked as per condition 74 of CofA.
- 6- Submit a copy of the Certificate of Requirement signed by the Director for the land purchased as part of the Contaminant Attenuation Zone.
- 7- Supply any monitoring results done to ensure compliance with Condition 65 of the Certificate of Approval.
- 8- Improve record keeping and inspection schedule in accordance with condition 69, 70, 88, and 89.
- 9- Submit a report detailing how you have complied with action items 1-8 of this report.

Due date: August 31, 2010

Submit report to:

Tracy Hart

Ministry of the Environment

2430 Don Reid Dr

Ottawa, ON


K1H 1E1

tracy.hart@ontario.ca

fax: 613 521-5437

6.0 OTHER INSPECTION FINDINGS

7.0 INCIDENT REPORT

Applicable
2210-87JPAB 

8.0 ATTACHMENTS

DSC00433.JPG; DSC00434.JPG; DSC00436.JPG; DSC00438.JPG; DSC00441.JPG; DSC00442.JPG; DSC00443.JPG;
DSC00444.JPG; DSC00445.JPG; DSC00449.JPG

PREPARED BY:
Environmental Officer:

Name: Tracy Hart
District Office: Ottawa District Office
Date: 2010/07/20
Signature



REVIEWED BY:
District Supervisor:

Name: Paul Kehoe
District Office: Ottawa District Office
Date: 2010/07/22

Signature:



File Storage Number: SI RE RS C05 610

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"

Thursday, August 19th, 2010

Steven Hodson, Landfill Operations Manager
Township of Whitewater Region
P.O. Box 40 44 Main Street
Cobden, ON
K0J 1K0

Tracy Hart
Ministry of the Environment
2430 Don Reid Drive
Ottawa, Ontario
K1H 1E1

**Re: Compliance Report
Ross Landfill Site – June 23rd, 2010 Inspection**

Dear Tracy,

To address Section 5.0 Action(s) Required in your Solid Non-Hazardous Waste Disposal Site Inspection Report, I offer the included Compliance Report dated August 19th, 2010.

Although some of the listed Actions may not be expedited or completed at the time of this Report, I assure you they are recognized and will, in turn, be dealt with.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Steven Hodson, Landfill Operations Manager
Township of Whitewater Region



Township of Whitewater Region Waste Management Department

Compliance Report – Ross Landfill Site June 23rd, 2010 MOE Inspection

Prepared by:
Township of Whitewater Region
Waste Management Department
P.O. Box 40
44 Main Street
Cobden, ON
K0J 1K0

August 19, 2010

Compliance Report - Ross Landfill Site
June 23rd, 2010 MOE Inspection

Page 1

Compliance of Section 5.0 Action(s) Required

- 1) The explanation offered for the increase of available capacity noted in the 2008 and 2009 annual reports for the Ross landfill Site is one of assumption. As the individual who personally located as well as initiated the excavation of the approved Stage 1 Trench, I can only assume the increase in capacity is a result of the instability of the virgin sands which comprise the trench walls. As the steep trench walls continue to erode / wash down into the trench floor, the material is either utilized for cover within the trench or simply pushed back and up the slope with equipment. When utilized for cover, the excavating and removal of this material is then promoting / allowing for more material to fall to the trench floor.

This is a function of time, weather, frost and on-going excavating having an impact on steep trench walls which are comprised of fine – course sands. Initial excavating, back-filling with waste and maintaining the trench perimeter has been challenging when working with these overburden sands. The task has been performed over the last four years to the best of our ability, working with the equipment and resources at hand. The perimeter is by no means perfect.

- 2) Signage at the Ross Landfill Site was, at one time, quite adequate and perhaps a little excessive. Over the course of a few years, signage depicting location of the working face, specific waste item drop-off areas, etc. has suffered from vehicle collisions, equipment collision, snow and wind. The resulting lack of signage at the Ross Site has minimally affected operations. Infrequently does a routine or new customer place a waste item in the wrong area. All individuals not familiar with the Site are given detailed instructions and people do ask questions. That said, mistakes are made...sometimes witnessed, sometimes not.

The Waste Management Department will make arrangements to have the missing signs replaced and installed.

- 3) The Waste Management Department has purchased a digital camera to have on-site for this type of request. Photos will be taken of the working area on any given day and e-mailed directly to the Inspecting Officer.

Please take note that the area of uncovered waste during the time of Inspection was an isolated incident, resulting from equipment failure. The area in question was indeed covered the day following the Inspection when the repaired equipment arrived.

Any digital photo taken now will be of a working area at days-end which is in no way associated with the area depicted during the Inspection. This specific area is now beneath a stockpile of cover material.

4) Plan to routinely pick litter in the North, North-West Buffer

As the individual who personally “picks” litter at the Ross Landfill Site I wish to state my Plan as follows:

It has been added to list of specific areas on-site which need attention with respect to litter. Areas of priority are the adjacent farm lands as well as the entrance / gated area and the Southern perimeter fence. These areas consistently receive litter from the prevalent North West winds. In four years of operation, there has not been additional “litter picking time” to concentrate on any area other than the above listed (they require constant attention). I pick litter when time permits and often am assisted by my colleague and/or a volunteer individual.

I do not possess the time to concentrate efforts on an area which does not directly or indirectly affect adjacent properties. Historically, waste has been landfilled right to the fence line / neighboring property. This litter and exposed waste was present four (4) years ago when operations were re-introduced at the Ross Site. It is quite possible it has been present for the last decade. As this property is now owned by the Municipality and is heavily wooded, there is no direct effect on neighboring properties. I would suggest the “litter” issue here would be best dealt with as part-in-parcel of the following Plan to cover exposed waste in the area of interest.

Plan to Cover Exposed Waste in the North, North-West Buffer

Insufficient cover over the historical waste underlying the North, North – West buffer will be best handled by levelling the trees and overgrowth to the existing fence-line – property perimeter. Following this will be an introduction of soils to eradicate the problem of exposed waste and the litter in question. The introduced soils will be spread with the use of a dozer, as will the levelling of the trees and brush. As trees and overgrowth have essentially encroached into this area post landfilling, they are of a relatively small size and should be easily handled with machinery.

This undertaking has been expedited and is currently on-going. As it was not planned or represented in the 2010 Budget, the scope of the project may be limited for this season. Efforts are concentrated on the North West corner of the buffer. Terrain conditions do not allow for backing in trucks. Therefore, soils are being pushed to the back corner over already established vegetation and intermediate cover. This is being carried out with a D5 dozer.

- 5) The Waste Management Department will be purchasing new locks to replace malfunctioning ones, as well as non-evident ones. Thus ensuring the integrity of the Monitoring Network.
- 6) The Waste Management Department, with assistance from the Municipal Administrative Office and its held Legal Office, is currently carrying out the task of acquiring the Certificate of Requirement (signed by the Director) for each concurrent land purchase for the purpose of a Contaminant Attenuation Zone. Three (3) land purchases have been carried out over the last four (4) years for this purpose (the Rochon property, the Gutz property and the Hawthorne property).

Submission to the Ottawa MOE Branch will occur when Certificate(s) are acquired.

- 7) The Waste Management Department has acquired access to / usage of an explosive gas monitoring device. Monitoring will be carried out this summer and results will be directed to the Ottawa MOE Branch.
- 8) The Waste Management Department identifies the need for improvement of record keeping with respect to Ross Landfill Site Operations. Although a daily journal (not always utilized), a monthly departmental report and a day-book are maintained, the development of a Weekly Operational Checklist as well as a Daily Operational Checklist has been carried out and is/are currently in use. Files will be kept of these records.



Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	The Corporation of the Township of Whitewater Region Mailing Address: PO Box 40, Cobden, Ontario, Canada, K0J 1K0 Physical Address: 1 Astrolabe Rd, Whitewater Region, Township, County of Renfrew, Ontario, Canada Telephone: (613)646-2282, email: dsimmons@whitewaterregion.ca Client #: 1185-5UDMEF, Client Type: Municipal Government, NAICS: 92411		
Inspection Site Address:	Ross Waste Disposal Site Address: 990 Kohlsmith Rd, Whitewater Region, Township, County of Renfrew, K0J 1K0 District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 358828, UTM Northing: 5055148, UTM Location Description: Entrance gate to site,		
Contact Name:	Steven Hodson	Title:	Landfill Operations Manager
Contact Telephone:	(613)638-4764 ext	Contact Fax:	
Last Inspection Date:	2010/06/23		
Inspection Start Date:	2011/04/13	Inspection Finish Date:	2011/04/13
Region:	Eastern		

1.0 INTRODUCTION

Provisional Certificate of Approval #A413209, dated October 28, 1980 with subsequent amendment dated December 23, 2005 provides authorization to the Corporation of the Township of Whitewater Region for the operation of the Ross Waste Disposal Site.

The site is located at 990 Kohlsmith Rd (Lot 10, concession 5), Whitewater Region Township, County of Renfrew. The Ross site re-opened in the Spring of 2006 and is the sole active waste disposal site in the Township.

The purpose of the inspection was to assess the site for compliance with CofA #A413209 and governing Ministry legislation. The inspection involved a site tour, discussions with Steven Hodson, landfill operations manager, review of on-site records, and a review of files located at the Ottawa District Office.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s):

A413209, dated October 28th, 1980, amended December 23rd, 2005

2.1 FINANCIAL ASSURANCE:

Specifics:

N/A

2.2 APPROVED AREA OF THE SITE:

Specifics:

CofA #A413209 allows for the establishment, use and operation of a 5.4 hectare landfilling area

and segregated waste storage and processing facilities all within an 8 hectare total site area. The Township is approved to landfill inside Stage 1 of the Site. As per Condition 38 (b) the Certificate does not approve the remaining landfilling operations referred to as Stage 2.

2.3 **APPROVED CAPACITY:**

Specifics:

As per Condition 37 the maximum theoretical approved waste disposal volume of the Site, consisting of the waste, daily cover and intermediate cover, but excluding the final cover is 434,340 cubic metres.

As per Condition 38. (a) Notwithstanding Condition 37, the Certificate approves only the following:

(i) waste landfilled at the Site to-date, including 10,066 cubic metres of waste, daily cover and intermediate cover already landfilled in the area designated as Stage 1 in Item 2 of Schedule "A", shown on Item 5(c) of Schedule "A";

(ii) future landfilling operations referred to as Stage 1 in Item 2 of Schedule "A", shown on Item 5(c) of Schedule "A" and having a total capacity of 45,869 cubic metres of waste, daily cover and intermediate cover.

As per Condition 38. (b) the Certificate does not approve the remaining landfilling operations referred to as Stage 2 in Item 2 of Schedule "A" and shown on Item 5 (d) of Schedule "A".

As per Condition 39. prior to proceeding with the design of Stage 2, the Municipality shall determine the total amount of waste landfilled at the Site.

The previous inspection identified a discrepancy with the remaining capacity in Stage 1. The 2009 Annual report noted that the remaining capacity for Stage 1 was 50,360 cubic metres.

Based on Schedule "A" noted above, the total capacity of Stage 1 is 45,869 cubic metres. In the 2010 Annual Operations Report, the landfill operations manager reports that the remaining capacity is now 43,655 cubic metres.

Since the capacity assessment appears inconsistent, the ministry is requiring the town to retain the services of a Professional Engineer to prepare a compliance report in order to verify compliance with Conditions 37 to 39. The report must include but not be limited to a detailed landfill capacity assessment. Please refer to Section 5.0 below.

2.4 **ACCESS CONTROL:**

Specifics:

Site equipped with a locked gate and fencing. The site is supervised.

2.5 **COVER MATERIAL:**

Specifics:

Cover appeared adequate. There was sufficient cover material on-site. Windblown litter is still a problem at the site due. Housekeeping activities must be improved.

2.6 **WASTE BURNING:**

Specifics:

As per Condition 42, the burning of waste, including woodwaste and brush at the Site is prohibited. No evidence of burning was observed.

2.7 GROUNDWATER/SURFACEWATER IMPACT:

Specifics:

No leachate springs or leachate ponding was observed.

A ministry Technical Support surface water review was requested on May 4, 2011 (Ref. No. 7427-8GJKMU).

A ministry Technical Support groundwater review was requested on May 4, 2011 (Ref. No. 1333-8GJKWE).

Once the above ministry technical reviews will be completed the Township will have to address any concerns raised

2.8 LEACHATE CONTROL SYSTEM:

Specifics:

There is no leachate control system in place.

2.9 METHANE GAS CONTROL SYSTEM:

Specifics:

There is no methane gas control system in place.

2.10 OTHER WASTES:

Specifics:

The Township is registered with the Ontario Tire Stewardship as a collector (registration# 2012634).

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

-Non compliance with condition 56 of the certificate of approval - no signs on site directing traffic.

The township's response discussed under the June 23, 2010 compliance report is satisfactory, at this time.

- Non compliance with condition 44 of the certificate of approval - waste was not being covered daily.

The township's response discussed under the June 23, 2010 compliance report is satisfactory, at this time.

- Non compliance with condition 74 of the certificate of approval - monitoring wells were not secured.

The township should pay particular attention to section 5.0 below.

- Non compliance with condition 15 of the certificate of approval - Certificate of Requirement has not been submitted to the District Manager.

The township should pay particular attention to section 5.0 below.

- Non compliance with conditions 69,70,88, and 89 - Record keeping and inspections are inadequate.

The township should pay particular attention to section 5.0 below.

Incident Report No. related to the previous inspection report: 2210-87JPAB.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Yes

Specifics:

The Township has not demonstrated compliance with Condition 65 in regards to landfill gas concerns.

5.0 ACTION(S) REQUIRED

Pursuant to Conditions 16 and 17 of the Certificate and pursuant to sections 156 and 157 of the Environmental Protection Act, I am requiring the township to demonstrate compliance with Condition 65 of the Certificate in the following manner.

1. By May 31, 2011, have a qualified consultant prepare and submit a detailed report on how each building and structure at the site contains adequate ventilation pursuant to Condition 65.
2. By June 1, 2011, submit a detailed report to the undersigned demonstrating compliance with Conditions 15, 69, 70, 88, 74, 89.
3. By July 1, 2011, have a professional engineer prepare and submit a detailed compliance report regarding Conditions 37 to 39 to the undersigned.


6.0 OTHER INSPECTION FINDINGS

All residents within the Township of Whitewater Region receive weekly curb-side collection of waste when placed within special Township "W" bags that are yellow (user pay collection system). 49,467 yellow bags were picked up at curb-side by the Contractor and deposited at the Ross Landfill Site during 2010.

An inspection of waste management system, Kevin Collins' Express Ltd. was conducted when monitoring incoming waste at the site. Kevin Collin's company was recently retained by the municipality to service its residents. No non-compliance issues were noted.

7.0 INCIDENT REPORT

Applicable

5242-8GHHYM 

8.0 ATTACHMENTS

PREPARED BY:
Environmental Officer:
Name:
District Office:
Date:
Signature

Lance Larkin
Ottawa District Office
2011/05/04



REVIEWED BY:
District Supervisor:
Name:
District Office:
Date:

Jason Ryan
Cornwall Area Office
2011/05/04

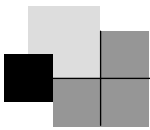
Signature:



File Storage Number: SI RE RS C05 610

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



May 27, 2011

Ministry of Environment
2430 Don Reid Drive
Ottawa, ON K1H 1E1

Attention: Lance Larkin
Sr. Environmental Officer

**Re: Ross Landfill Site
Certificate No. A413209
Our Project No. 2006047L**

Dear Sir:

We acknowledge receipt of the Waste Disposal Site Inspection Report dated May 4, 2011 and in consultation with the Township of Whitewater Region we provide the following to address the Actions Required in the order in which they appear in Section 5 (reproduced in italics).

1. *By May 31, 2011 have a qualified consultant prepare and submit a detailed report on how each building and structure at the site contains adequate ventilation pursuant to Condition 65 (reproduced for convenience).*

Condition 65 The Municipality shall ensure that any buildings or structure at the site contain adequate ventilation systems to relieve any possible landfill gas accumulation. Routine monitoring for explosive gas levels shall be conducted in all buildings or structures at the site, especially enclosed structures which at times are occupied by people.

I would advise that there are two (2) buildings on site periodically occupied by persons, the site office and attendant shelter. Jp2g Consultants Inc. provided the design for the office and electrical building, a letter report is attached. The attendant shelter is located above ground with no permanent foundation.

In response to the June 23, 2010 Site Inspection Report it was suggested by S. Hodson that the use of the Township explosive monitoring device would be used. This was not carried out, future gas monitoring will be conducted by Jp2g as part of the regular water quality monitoring program to include both buildings and all monitoring wells. The results will be presented in the Annual Report.

2. *By June 1, 2011 submit a detailed report to the undersigned demonstrating compliance with Conditions 15, 69, 70, 74, 88 and 89 (some conditions reproduced for reference).*

Condition 15 The Municipality shall:

- a) within sixty (60) calendar days of the date of the purchase or the easement agreement being signed with the property owner(s) of the land required for the Additional Buffer and the Contaminant Attenuation Zone, submit to the Director for the Director's signature two (2) copies of a completed Certificate of Requirement containing a registerable description of the land required for the Additional Buffer and the Contaminant Attenuation Zone, in accordance with the forms attached to the Certificate cover letter;

- b) within ten (10) calendar days of receiving the Certificate of Requirement signed by the Director, the Certificate of Requirement is registered in the appropriate Land Registry Office on title to the property containing the Additional Buffer and the Contaminant Attenuation Zone and submit to the Director immediately following registration the duplicate registered copy;
- c) within ten (10) calendar days of receiving the Certificate of Requirement signed by the Director, submit a copy of the Certificate of Requirement to the District Manager.

The adjacent lands downgradient of the Ross Landfill Site were purchased from the Rochon's in 2006, involving more lands than originally proposed by Golder Associates Ltd. Conditions (a) and (b) were satisfied during the fall/summer of 2006. It is understood your office has a copy as per (c).

As reported in the 2010 Annual Report the municipality has purchased additional adjacent lands from the Hawthorne's in 2009. Based on current monitoring results there is no detectable leachate migration onto this property, so the establishment of a CAZ is not required. However the limits of the CAZ to support Stage 2 landfilling will be defined in the application to amend the Certificate and is assumed will include a portion of these lands upon which a Certificate of Requirement will be filed.

Condition 69 Weekly inspections of the Operations are conducted by municipal staff.

Condition 70 To ensure compliance with this condition the Township has developed the attached Weekly Inspection Checklist which addresses items (a) to (k).

Condition 74 As part of the annual monitoring program Jp2g will inspect all groundwater monitoring wells which form part of the monitoring program to ensure they are properly capped, locked and protected from damage. The results and recommendations will be presented in the Annual Report

Condition 88 To ensure compliance with this condition the Township has developed the attached reporting format to record daily operations of the landfill and waste diversion operations to address items (a) to (q).

Condition 89 The municipality shall retain the written record of the weekly site inspections as per Conditions 69 and 70 to ensure compliance with this condition.

3. *By July 1, 2011 have a professional engineer prepare and submit a detailed compliance report regarding Conditions 37 to 39 (reproduced for convenience).*

Condition 37 The maximum theoretical approved waste disposal volume of the site, consisting of the waste, daily cover and intermediate cover, but excluding the final cover is 434,340 cubic metres.

Condition 38

- (a) Notwithstanding Condition 37, this Certificate approves only the following:
- (i) Waste landfilled at the site to-date, including 10,066 cubic metres of waste, daily cover and intermediate cover already landfilled in the area designed as Stage 1 in Item 2 of Schedule "A", shown on Item 5(c) of Schedule "A";
 - (ii) Future landfilling operations referred to as Stage 1 in Item 2 of Schedule "A", shown on Item 5(c) of Schedule "A" and having a total capacity of 45,869 cubic metres of waste, daily cover and intermediate cover.
- (b) This Certificate does not approve the remaining landfilling operations referred to as Stage 2 in Item 2 of Schedule "A" as shown on Item 5(d) of Schedule "A".

Condition 39 Prior to proceeding with the design of Stage 2, the municipality shall determine the total amount of waste landfilled at the site.

This writer was involved in the coordination of the application to amend the Certificate of Approval during the landfill design and assessment of CAZ requirements conducted by Golder Associates Ltd. During review of the draft Certificate which resulted in the 3 Conditions in consultation with EAAB it was acknowledged that approval was limited to the Stage 1 capacity, however upon securing CAZ lands the Stage 2 application would follow.

The approved capacity of Stage 1 is 59,935m³ (Site Development and Operations Plan, June 2001) and up to 2002 10,066m³ of space was used for disposal. Based on comparative field surveys completed since 2006 it indicates that 33,085m³ of waste and daily cover has been landfilled in Stage 1 and as of December 2010 there is a remaining capacity of 16,784m³ as follows:

<u>Date</u>	<u>Landfilled</u>	<u>Remaining Capacity</u>
Up to 2002	10,066m ³	49,869m ³
2006	4035	45,834
2007	7292	38,542
2008	6000	32,542
2009	7486	25,056
2010	8272	16,784

- * Note Condition 38(a)(ii) incorrectly cited 45,869m³ as the remaining capacity in Stage 1.

Under the direction of this writer, senior field surveyors and experienced AutoCAD technicians have calculated the annual landfilling rates using a total station data recorder and 3D modeling computer software. In the recent operations component of the Annual Reports prepared by the Township and response to the June 2010 Site Inspection Report prepared by the Township it was acknowledged that the vertical and horizontal design limits of the Stage 1 trench have increased, (due to erosion of the trench walls

and cover material borrow from the trench floor). Regardless of whether the trench is not full when the 59,935m³ is reached, the municipality acknowledges this figure as the Stage 1 capacity.

The remaining landfill operations Stage 2 will also consider the additional capacity achieved during the trenching operation. Trusting a site compliance report is deemed unnecessary, but if required please contact this writer to discuss the report requirements and it will be filed before July 1, 2011.

Since April 2006 the Ross Landfill Site has operated as the centralized waste facility under the amended Certificate and an Annual Report has been filed as required under Condition 93. Recognizing that the approved site capacity in Stage 1 was being exhausted the municipality requested Jp2g to investigate the feasibility of obtaining approval for landfilling in Stage 2. To date we have not received any formal written reply to our enquires which were initiated June 9, 2009 regarding the applicability of the E.A. Act. The last related correspondence on file was an e-mail from you to Alida Mitton dated October 28, 2010. Pending confirmation of the EA approval requirements with your assistance Jp2g will finalize a work plan to make an application for approval for Stage 2. We wish to work closely with you and the MOE technical reviewers to ensure a comprehensive application is filed with the Ministry to avoid any processing delays.

Trusting this is satisfactory.

Yours very truly,

Jp2g Consultants Inc.
Engineers • Planners • Project Managers



Kevin Mooder, MCIP RPP
Sr. Project Manager

KJM/jlp

c.c. Steven Hodson
Dean Sauriol, CAO

Encl.: Methane Gas Ventilation Report
Weekly Inspection Checklist
Daily Operations Records

May 26, 2011

Jp2g Consultants Inc.
1150 Morrison Drive
Suite 410
Ottawa, Ontario
K2H 8S9

Attention: K. J. Mooder

**RE: Methane Accumulation in Ross Landfill Site
Office Building and Electrical Building
Project No. 2006047L CON**

Kevin:

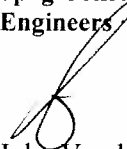
I looked at the drawings provided by Ed Schulz for the above noted buildings and, assuming that source of methane is from under the floor slab, I note the following:

1. There is a moisture barrier (presumably a sheet of 6 mil poly) which will retard/stop methane depending on the details at the walls, drains etc.
2. A continuous exhaust may be required if the above barrier is not gas tight (most likely), i.e. hard wire the main bathroom exhaust fan or add a small HRV (preferred).
3. The electrical hut should be ventilated with a louver near bottom of a wall, and one of the square chimney type roof vents near the ridge.

If there is a concern about methane accumulation, the client should regularly check the spaces with a 3 or 4 gas monitor, the type used for confined space entry tests.

Trusting this is satisfactory.

Yours very truly,
Jp2g Consultants Inc.
Engineers • Planners • Project Managers



John Vandergeest, P. Eng.
Project Engineer

Kevin Mooder

From: Kevin Mooder <kmooder@jp2g.com>
Sent: Friday, March 08, 2013 10:41 AM
To: Kevin Mooder
Subject: FW: Ross Waste Disposal Site Compliance
Attachments: image001.jpg

Importance: High

Kevin Mooder, MCIP, RPP
Jp2g Consultants Inc.
Engineers - Planners - Project Managers
1150 Morrison Drive, Suite 410
Ottawa, ON K2H 8S9
Tel: (613) 828-7800
Fax: (613) 828-2600

From: Larkin, Lance (ENE)
Sent: Thursday, November 10, 2011 3:41 PM
To: shodson@whitewaterregion.ca
Subject: Ross Waste Disposal Site Compliance

Dear Steven,

I trust Stage 1 at the Ross Waste Disposal Site is likely over capacity at this time. In a letter dated May 27, 2011, your consultant noted that Condition 38(a)(i) incorrectly cited 45,869 cubic metres as the remaining capacity in Stage 1. The consultant stated that 59,935 cubic metres was previously approved under the June 2001 Site Development and Operations Plan.

Until the Certificate of Approval is amended, the capacity specified in the approval still stands. The Town must submit an application for an approval of Stage II. Please call me next week to discuss.

Also an FYI that our surface water specialist is in the process of reviewing the 2010 annual report and noticed that no surface water samples were being obtained. This has prompted a follow inspection to be conducted in the near future following a rain event.

Regards,



Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	The Corporation of the Township of Whitewater Region Mailing Address: PO Box 40, Cobden, Ontario, Canada, K0J 1K0 Physical Address: 1 Astrolabe Rd, Whitewater Region, Township, County of Renfrew, Ontario, Canada Telephone: (613)646-2282, email: dsimmons@whitewaterregion.ca Client #: 1185-5UDMEF, Client Type: Municipal Government, NAICS: 92411		
Inspection Site Address:	Ross Waste Disposal Site Address: 990 Kohlsmith Rd, Whitewater Region, Township, County of Renfrew, K0J 1K0 District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 358828, UTM Northing: 5055148, UTM Location Description: Entrance gate to site, LIO GeoReference: Zone: 18, UTM Easting: 355842.06, UTM Northing: 5059915.5, Latitude: 45.677795, Longitude: -76.85102		
Contact Name:	Steven Hodson	Title:	Landfill Operations Manager
Contact Telephone:	(613)638-4764 ext	Contact Fax:	
Last Inspection Date:	2011/04/13		
Inspection Start Date:	2011/11/18	Inspection Finish Date:	2011/11/18
Region:	Eastern		

1.0 INTRODUCTION

An inspection was conducted to assess the Surface Water monitoring program. Officer Dagg-Foster from Kingston Technical Support was present during the inspection. Detailed results of the surface water assessment is provided under section 8.0 below. Administrative non-compliance issues related to record keeping and site capacity were identified. The Township should pay particular attention to section 3.0 and section 5.0.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s):

A413209, dated October 28th, 1980, amended December 23rd, 2005

The Site operator was present and was working to maintain the berms adjacent to the active fill area. At the time, the Site was closed to the public. Adequate cover was applied to the active fill area.

2.1 FINANCIAL ASSURANCE:

Specifics:

No Financial Assurance required for municipal run landfill sites.

2.2 APPROVED AREA OF THE SITE:

Specifics:

CofA #A413209 allows for the establishment, use and operation of a 5.4 hectare landfilling area and

segregated waste storage and processing facilities all within an 8 hectare total site area. The Township is approved to landfill inside Stage 1 of the Site. As per Condition 38 (b) the Certificate does not approve the remaining landfilling operations referred to as Stage 2.

2.3 APPROVED CAPACITY:

Specifics:

Estimates show that the capacity has been exceeded.

2.4 ACCESS CONTROL:

Specifics:

Site equipped with a locked gate and fencing. The site is supervised.

2.5 COVER MATERIAL:

Specifics:

Adequate sand material was placed in the active fill area. Wood brush was being grinded and may be used as cover material.

2.6 WASTE BURNING:

Specifics:

No evidence of waste burning observed.

2.7 GROUNDWATER/SURFACEWATER IMPACT:

Specifics:

GROUNDWATER:

Ministry review of groundwater aspects has been deferred until the receipt of the 2011 annual monitoring report.

SURFACEWATER:

No leachate springs or leachate ponding was observed during the inspection.

The following is excerpted from Technical Support Memorandum dated November 24, 2011, attached under section 8.0 of this report:

- The site plan must be amended to include the surface watercourse in the vicinity of the site, and to show locations of all surface water sampling stations. UTM coordinates of sampling locations should be provided.
- All attempts should be made to collect both upstream and downstream samples, during the spring freshet (late March to April), and again during wet weather in the late fall.
- Potentially toxic levels of un-ionized ammonia have been observed at SW-1.
- Since both field pH and temperature are essential for determining the un-ionized component of the total ammonia, for comparison to the PWQO, subsequent sampling events must include pH and temperature. Field-measured conductivity and DO should be included as well.
- Elevated concentrations of ammonia, phenols, iron, and copper at SW-1 could be a result of landfill leachate, however without knowledge of background concentrations in the watercourse, no conclusions can be made about impact.
- Surface water monitoring should not be removed from the monitoring program at the Ross WDS.
- All parameters listed in Column 3 (Comprehensive list) of Schedule 5 should be included. A VOC scan should be included on an annual basis for a minimum of three years.\

- Once background surface water quality has been adequately characterized, trigger mechanisms and contingency plans should be developed for the site and provided to the Ministry for review.

2.8 LEACHATE CONTROL SYSTEM:

Specifics:

Site not designed with an engineered leachate control system.

2.9 METHANE GAS CONTROL SYSTEM:

Specifics:

Site not designed with an engineered methane gas control system.

2.10 OTHER WASTES:

Specifics:

The Township is registered with the Ontario Tire Stewardship as a collector (registration# 2012634).

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

The last inspection report noted the following in italics:

- *The Township has not demonstrated compliance with Condition 65 in regards to landfill gas concerns.*

As per the response dated May 27, 2011 from Jp2g, results of monitoring will be presented in the 2011 monitoring report.

- *Non compliance with condition 74 of the certificate of approval - monitoring wells were not secure.*

Response dated May 27, 2011 received. The results will be presented in the Annual Report.

- *Non compliance with condition 15 of the certificate of approval - Certificate of Requirement has not been submitted to the District Manager.*

Response dated May 27, 2011 received. The consultant informs that the Town purchased downgradient land from the Rochon's in 2006, involving more lands than originally proposed by Golder. Consultant informs that Conditions (a) and (b) were satisfied during the fall/summer of 2006. The consultant informs that the District office has a copy as per (c). In addition, the municipality has purchased additional adjacent lands from the Hawthorne's in 2009. The consultant informs that based on the current monitoring results there is no detectable leachate migration onto the property, so the establishment of a CAZ is not required in the opinion of Jp2g. Limits of the CAZ to support Stage 2 landfilling will be defined in the application to amend the Certificate and is assumed will include a portion of the Hawthorne purchased lands upon which a Certificate of Requirement will be filled.

- *Non compliance with conditions 69,70,88, and 89 - Record keeping and inspections are inadequate.*

Response dated May 27, 2011 received. With respect to Condition 69 regarding weekly inspections, response did not demonstrate compliance. With respect to Condition 70, the weekly inspection checklist was not attached to the May 27, 2011 letter. With respect to Condition 88, the reporting format was not attached. With respect to Condition 89 a statement was provided which stated, "The municipality shall retain the written record of the weekly site inspections as per Conditions 69 and 70 to ensure compliance with this condition.

- *By July 1, 2011, have a professional engineer prepare and submit a detailed compliance report regarding Conditions 37 to 39 to the undersigned.*

Response dated May 27, 2011 received. Response was not prepared by a professional engineer. Based on the statistics provided the Township by November 2011, the Township has likely exceeded the Stage I capacity and as such, must apply to amend Approval No. A413209 to for waste filling of Stage II. See section 5.0 below.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Yes

Specifics:

Site capacity for Stage I has been exceeded and must be addressed.

5.0 ACTION(S) REQUIRED

1. By January 15, 2012, apply for an Environmental Compliance Approval to commence filling of Stage II.

6.0 OTHER INSPECTION FINDINGS

At the time of the inspection National Grinding was processing the wood brush and tree stump pile at the Site. Inspections for National Grinding's operations were conducted under separate cover. No adverse effects were noticed during the inspection. National Grinding operates under Approval No. A861038 for a Waste Management System, A420017 for a Waste Disposal Site (Processing), and 8-4115-98-996 for Air (and Noise) discharges.

7.0 INCIDENT REPORT

Applicable

5242-8GHHYM 

8.0 ATTACHMENTS

fgdf-II-Ross WDS SWR- 2010 MR.pdf

PREPARED BY:

Environmental Officer:

Name:

Lance Larkin

District Office:

Ottawa District Office

Date:

2011/11/28

Signature



REVIEWED BY:

District Supervisor:

Name:

Tara MacDonald

District Office:

Ottawa District Office

Date:

2011/12/05

Signature:



File Storage Number:

SI RE RS C05 610

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



Non-Hazardous Waste Transfer Processing Inspection Report

Client:	The Corporation of the Township of Whitewater Region Mailing Address: PO Box 40, Cobden, Ontario, Canada, K0J 1K0 Physical Address: 1 Astrolabe Rd, Whitewater Region, Township, County of Renfrew, Ontario, Canada Telephone: (613)646-2282, email: dsimmons@whitewaterregion.ca Client #: 1185-5UDMEF, Client Type: Municipal Government, NAICS: 92411		
Inspection Site Address:	Ross Waste Disposal Site Address: 990 Kohlsmith Rd, Whitewater Region, Township, County of Renfrew, K0J 1K0 District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 358828, UTM Northing: 5055148, UTM Location Description: Entrance gate to site, LIO GeoReference: Zone: 18, UTM Easting: 355842.06, UTM Northing: 5059915.5, Latitude: 45.677795, Longitude: -76.85102		
Contact Name:	Steve Hodson	Title:	Landfill Operations Manager
Contact Telephone:	(613)638-4764 ext	Contact Fax:	
Last Inspection Date:			
Inspection Start Date:	2011/11/18	Inspection Finish Date:	2011/11/18
Region:	Eastern		

1.0 INTRODUCTION

Waste disposal transfer operations were inspected. The Site was closed to the public at the time of the inspection. The Township should pay particular attention to section 5.0 below. An open waste disposal site inspection was prepared under separate cover. This report does not cover hydrogeological or surface water aspects.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s): ☒ Yes ☐ No
C of A Number(s): A413209

2.1 SITE OPERATION:

Specifics:

Transfer stations aspects of the site include, receipt and temporary storage of the following materials:

Clean Wood Waste and Leaf & Yard Waste
 Blue Box Recycling Waste
 Used/Empty BBQ Propane cylinders
 Electronic Waste
 White goods
 Metal scrap

All materials were properly stored in metal lugger boxes and contained trailers.

Under Condition 21(a)(vii), the Township is approved to accept incidental hazardous waste recovered from the landfill active face. The Site is supervised by a site attendant who visually screens incoming waste.

When the next opportunity to amend the approval for the site arises, the Township should ensure that all operational aspects, including collection and storage of electronic waste should be approved under Approval No. A413209.

Burning of waste including wood is prohibited. At the time of the inspection the wood pile was being processed with a mobile grinding unit operated by National Grinding. Should the wood waste be used as cover material on the landfill, an amendment to the approval would be required. The Certificate currently only allows the use of clean permeable soil as landfill cover.

2.2 FINANCIAL ASSURANCE:

Specifics:

Not required for municipal sites.

2.3 SITE SERVICE AREA:

Specifics:

As per Condition (19) only waste generated in the Township of Whitewater Region may be accepted at the Site.

2.4 APPROVED SITE CAPACITY:

Specifics:

Capacity for the storage areas are not explicit in the Certificate of Approval. The brush pile was being processed at the time of the inspection.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

See open waste disposal site inspection report for the November 18, 2011 inspection.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Yes

Specifics:

The same administrative issues discussed under the open waste disposal site inspection report prepared for November 18, 2011 also applies. See section 5.0 below.


5.0 ACTION(S) REQUIRED

1. By December 15, 2011, submit a compliance report that demonstrates compliance with Condition 70 regarding weekly inspections.

6.0 OTHER INSPECTION FINDINGS

At the time of the inspection National Grinding was processing the wood brush and tree stump pile at the Site. Inspections for National Grinding's operations were conducted under separate cover. No adverse effects were noticed during the inspection. National Grinding operates under Approval No. A861038 for a Waste Management System, A420017 for a Waste Disposal Site (Processing), and 8-4115-98-996 for Air (and Noise) discharges.

7.0 INCIDENT REPORT

Applicable
5242-8GHHYM 

8.0 ATTACHMENTS

PREPARED BY:

Environmental Officer:

Name:

Lance Larkin

District Office:

Ottawa District Office

Date:

2011/11/28

Signature



REVIEWED BY:

District Supervisor:

Name:

Tara MacDonald

District Office:

Ottawa District Office

Date:

2011/12/05

Signature:



File Storage Number:

SI RE RS C05 610

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"

Thank you Kevin,

Please find attached the memorandum regarding surface water.

I support the preparation of a completed application. The town should prepare an application as soon as possible since landfilling beyond Stage I has likely commenced.

Considering the steps noted below, please provide me with a status update on the preparation of application for Phase II no later than by January 15, 2012.

I've also extended s.5 under the Non-Hazardous Waster Transfer Station Inspection Report to January 15, 2012.

Regards,

Lance Larkin

Senior Environmental Officer
Ministry of the Environment, Ottawa District Office
2430 Don Reid Drive, Ottawa, ON K1H 1E1
tel: 613-521-3450 ext. 229, fax: 613-521-5437
toll free: 1 800-860-219

Agent principal de l'environnement
Ministère de l'Environnement, District d'Ottawa
2430. promenade Don Reid, Ottawa (Ontario) K1H 1E1
tél. : 613-521-3450 poste 229, téléc. : 613-521-5437
sans frais. : 1-800-860-2195

From: Kevin Mooder [<mailto:kmooder@jp2g.com>]
Sent: December 14, 2011 12:30 PM
To: Larkin, Lance (ENE); shodson@whitewaterregion.ca
Subject: RE: Ross WDS Inspections

Lance please note that the surface water review comments are not attached to the landfill site inspection report

I realize that the Stage 1 capacity limits are close to being exceeded and we have been working with Steven to develop the documentation to support the Stage 2 application, and as you are aware we only recently received confirmation from Vicki Mitchell that the approvals would not be subject to an ESP. I respectively submit that an application could not be filed by January 15, 2012 as it would need an updated D&O Report and Compiled Hydrogeological Report.

- We could have a draft D&O Report prepared for January 15th, as this was our initial proposal to the Township however the design should be based on the recent (Nov 2011) capacity survey, and the plan preparation has not as yet been initiated, as typically the results are filed in the Annual Report due March 31 of the following year
- The Hydrogeological Report would be the 2011 Annual Report to be filed by March 31, 2012 (compiled and presented generally in accordance with the recent Technical Guidance Document, Nov 2010) which will require significant reformatting of our former report style, and requires assessment of not only the recent sampling results but a projection of the future CAZ limit requirements.
- Lastly you have to realize that Township Council would have to review and approve the budget to complete the documentation and the MOE application fee
-

Based on my recent experience with EAAB Operation Division who screen the applications, I suggest that they would not consider the application complete without both documents. Therefore I suggest that a

March 31, 2012 date is more realistic to file the application. Your thoughts or comments would be appreciated.

Kevin J. Mooder, MCIP, RPP
Senior Planner, Vice-President
Environmental Services

Jp2g Consultants Inc.
1150 Morrison Drive, Suite 410
Ottawa, ON K2H 8S9
Tel: (613) 828-7800
Fax: (613) 828-2600
E-mail: kmooder@jp2g.com

From: Larkin, Lance (ENE) [<mailto:Lance.Larkin@ontario.ca>]
Sent: Wednesday, December 14, 2011 11:35 AM
To: shodson@whitewaterregion.ca
Cc: Kevin Mooder
Subject: Ross WDS Inspections

Dear Steven,

Please review the attached inspections reports. There are action items noted under s.5.0.

Please call me if you have any questions or concerns.

Regards,

Lance Larkin

Senior Environmental Officer
Ministry of the Environment, Ottawa District Office
2430 Don Reid Drive, Ottawa, ON K1H 1E1
tel: 613-521-3450 ext. 229, fax: 613-521-5437
toll free: 1 800-860-219

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Ministère de l'Environnement, District d'Ottawa
2430. promenade Don Reid, Ottawa (Ontario) K1H 1E1
tél. : 613-521-3450 poste 229, téléc. : 613-521-5437
sans frais. : 1-800-860-2195

Patrick Judge

From: Steven - Environmental Services <shodson@whitewaterregion.ca>
Sent: Thursday, December 29, 2011 9:25 AM
To: Lance.Larkin@ontario.ca
Cc: Kevin Mooder
Subject: Inspection Report - Ross Waste Site
Attachments: Weekly Inspection Checklist, Ross Landfill, 2010.doc

Hi Lance,

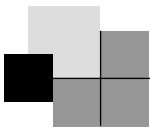
Sorry for the slow response. I have been on holidays for the last two weeks.

Attached is the weekly checklist used at the Ross Waste Site for some time now. I was sure I had forwarded this to Tracy Hart at the time but perhaps I did not.

Let me know if there are any issues.

Cheers,

Steven Hodson, Environmental Services Manager Township of Whitewater Region



March 8, 2012

Ministry of the Environment
2430 Don Reid Drive
Ottawa, ON K1H 1E1

Attention: Lance Larkin
Sr. Environmental Officer

Re: Ross Landfill Site
Certificate No. A413209
Township of Whitewater Region
Our Project No. 2006047M

Dear Lance:

In response to the Solid Non-Hazardous Waste Disposal Site Inspection Report dated November 28, 2011 received by e-mail December 14, 2011 we wish to provide the following in response to two (2) issues reproduced in italics for reference.

1. Section 3.0 Review of Previous Non-Compliance Issues

By July 1, 2011, have a professional engineer prepare and submit a detailed compliance report regarding Conditions 37 and 39 to the undersigned.

Response dated May 27, 2011 received. Response was not prepared by a professional engineer. Based on the statistics provided the Township by November 2011, the Township has likely exceeded the Stage 1 Capacity and as such, first must apply to amend Approval No. A413209 for the waste filling of Stage II.

Jp2g Consultants Inc. engineers completed the design and prepared the Site Development and Operations Plan, June 2001 to support an application to amend the Certificate. The design capacity of Stage 1 is cited in the report as 59,935m³ as per Drawings 3 and 5. When MOE was reviewing the application to amend the Certificate in 2005 we acknowledged that landfilling had occurred in Stage 1 (see attached letter to EAAB dated November 9, 2005 regarding draft Condition 36). Therefore upon receipt of the amended Certificate the Stage 1 remaining capacity was to be 49,869m³. Condition 38(b) cited a figure of 45,869m³ on the Certificate dated December 23, 2005. Also please note that the amended Certificate did not include a Schedule "A" list of plans and documents which are cited in the Certificate.

In the 2006 Annual Report we noted that Condition 38(a)(ii) incorrectly cited the 45,869m³ as the remaining capacity.

In preparation of the May 27, 2011 response we compiled the figures from the annual surveys

to 2002	10066 m ³	Note in some of the Annual Reports the remaining capacity referenced the incorrect design capacity
2006	4035m ³	
2007	7292m ³	
2008	6000m ³	
2009	7486m ³	
2010	8272m ³	
	<hr/> 43151m ³	

Therefore as of the end of December 2010 $59,935\text{m}^3 - 43,151\text{m}^3 = 16,784\text{m}^3$ was the remaining capacity. As noted the Township has acknowledged that in some cases the trench exceeded a 5m depth and the side slopes have exceeded the 65m width, however the total landfilled volume based on survey does not exceed the Stage 1 capacity.

2. Section 5.0 Action(s) Required

By January 15, 2012 apply for an Environmental Compliance Approval to commence filling of Stage II.

By e-mail December 14, 2011 (attached) we suggested that a March 31, 2012 timeline to compile the documentation would be more appropriate. On February 17, 2012 you filed a request for an update to obtain approval for Stage II filling by January 29, 2012 – correction February 29, 2012. Later that day we discussed the preliminary results of our 2011 survey and remaining capacity analysis. Enclosed find a 2011 Existing Conditions Plan and by comparison of the 2010 survey to the 2011 survey approximately 7140m^3 was landfilled. Therefore the remaining capacity from the $59,935\text{m}^3$ Stage 1 trench is $16,784\text{m}^3 - 7140\text{m}^3 = 9644\text{m}^3$.

As required under the Certificate the Annual Reports have provided an estimate of remaining capacity within Stage 1 limits. This is calculated by comparing the existing contours within the trench to the original ground elevation prior to excavation and landfilling.

Based in our comparison there is an estimated $15,055\text{m}^3$ remaining. The reason for the difference between the cumulative landfill survey figures which results in a 9644m^3 remaining capacity, and this figure is landfilling has occurred beyond the Stage 1 design limits. This has occurred in depth and in width, however the 30m buffer has never been encroached.

As per Condition 39 the total amount of waste landfilled at the site will account for this operation involving FBAL of the Stage 1 design, as part of the Stage 2 design.

Summary

As you are aware the Township of Whitewater Region initially asked our Firm to determine the scope of work required to obtain approval for Stage II landfilling in June 2009. Our initial task was to confirm the applicability of the EA Act, which we received from Vicki Mitchell July 4, 2011.

Through the ongoing MOE environmental compliance abatement program, the Township has received and responded to a number of Site Inspection Reports and TSS reviews in the past 2 to 3 years. We wish to fully address all operational and environmental monitoring comments to ensure they are included in the Environmental Compliance Application.

From an operations perspective we wish to conduct a field survey of the entire landfilling area to ensure it accurately establishes the base for Stage II landfilling and records the improvements completed within the 30m buffer area. The site hasn't been surveyed beyond the active Stage 1 landfilling area and the waste storage area since 2008. Furthermore we acknowledge receipt of the recent surface water review comments, and as you have indicated the groundwater review is anticipated March/April.

In this regard we tentatively have scheduled completion of the supporting documentation including the Design and Operations (D&O) Report and a Comprehensive Physical Characteristics (Hydrogeological and Monitoring) Report by May 2012.

Please advise if you wish to review a draft of the D&O Report and/or Monitoring Report before we submit the Application to EAAB.

Yours truly,
Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

A handwritten signature in black ink, appearing to read 'K. Mooder', written in a cursive style.

Kevin Mooder, MCIP RPP
Sr. Project Manager

KM/jlp

c.c. S. Hodson

November 9, 2005

Ministry of the Environment
EAAB
Floor 12A
2 St. Clair Avenue West
Toronto, ON
M4V 1L5

Attention: Margaret Wojcik, P. Eng.
Senior Waste Engineer

Re: **Ross Landfill Site**
Township of Whitewater Region
MOE Reference No. 9564-5E9QRQ
Our Project No. 2006047F - P&D

Dear Margaret:

Further to your e-mail submission dated October 12, 2005 I offer the following observations and suggestions in reference to the specific attachments. Your information request dated October 4, 2005 has been addressed by Mr. Steve Hodson under separate cover.

Ross Schedule C - Registration on Title

S I have no comments on these documents, however I understand that a Certificate of Requirement (formerly known as a Certificate of Prohibition?) must be registered on title.

Ross C of A - Version 3

The following comments relate to specific issues or conditions as noted:

Site Description

\$ A 5.03 ha landfilling area (not 5.3 ha) is created by establishing a 30 metre buffer within the limits of the 8.0 ha total site area

Buffer

15. "additional buffer" we trust our last response dated June 16, 2005 adequately addresses any concern that additional lands for a buffer are not necessary. If the area is closed and final cover applied (re: Conditions 76 and 77), could reference to additional buffer be deleted in 15(a) and 15(b)?

Approved Waste Types

21. Please note that the site will accept batteries, and the blue box list should not exclude film plastic. As proposed by Mr. Hodson the Township intends to establish a limited-storage HHW building.

Waste Diversion

24. The Township has filed a Figure A dated November 3, 2005 which updates and replaces Drawing #3 contained in the Site Development and Operations Plan dated June 2001, which was amended September 9, 2003.
27. Add an 's' to white good in the first sentence.
30. Refer to Figure A dated November 3, 2005.
31. The re-use area may also include a building/trailer.
- 32(b). Removal of scrap metal at least twice a year is satisfactory.
- 32(c). The used tire designated stockpile area of 10m x 10m will not exceed the capacity for 5,000 tire units or 300m³.

Capacity

34. The maximum theoretical capacity based on the assumptions presented in the 'Site Capacity Assessment' dated August 17, 2000 was 434,340m³, the figure cited in this draft condition. The capacity assessment used the information contained in the Application for a Certificate of Approval dated November 17, 1972 which described the total area of the site as 'possible 14 acres'. In actual fact the municipality had purchased and operated the landfill site on a 20 acre (8.0 ha) parcel.

The 'total waste disposal volume' as defined in O. Reg. 232/98, excluding final cover (450mm) is 432,249m³ as per the Site Development and Operations Plan dated June, 2001 (Section 5.3 and 5.4). This condition should be revised to state the capacity figure based on the actual available landfill space.

- 35(a). The Township acknowledges that landfilling capacity approval is limited to Stage 1.
- 35(b). For the purpose of clarification, as this condition states that an amendment is required for Stage 2, under O. Reg. 363, would the application be received by the Ministry as a Category 100?

36. A determination of the waste landfilled at the site has been provided on two (2) occasions:

- 1) Site Development and Operations Plan June 2001, Section 5.4, stated that as of May 2000 an estimated 60,154m³ was landfilled. This figure was determined based on a backhoe test pit program, field survey and review of historical records and included the FBAL within the proposed 30m buffer. The landfilling of waste has historically occurred in the former aggregate extraction pit area (north corner) involving an area method of disposal, and as shown on Drawing 5 it is assumed that there is no occurrence of any waste deposited to a thickness greater than 7.62 metres.
- 2) Jp2g Consultants Inc., September 11, 2003 noted that landfilling had been initiated in Stage 1 (trenching operation) and ceased when all waste was diverted to the Westmeath Site. An estimated 10,066m³ of landfilled space was used from the 59,935m³ Stage 1 capacity as of December 31, 2002.

In this regard is this condition necessary or should it be re-worded to the effect that the total amount of waste landfilled must be determined prior to start of Stage 2?

Surface Water Monitoring Program

69. Attempts will be made over the course of a year to observe any occurrences of an accumulation of surface water suitable to sample and obtain flow measurements.

Groundwater Monitoring Program

70. Included as Appendix C to the Site Development and Operations Plan, June 2001 was the '2000 Hydrogeological Investigation and Monitoring Program' report prepared by Golder Associates Ltd. Furthermore, according to our records a copy of the '2001 Hydrogeological Investigation and 2001 and 2002 Monitoring Programs' report prepared by Golder Associates Ltd. was forwarded to MOE in 2003. A proposed monitoring program was summarized in these reports, see description under Schedule B.

71. Condition 70(b) is proposing 2 sampling events, and 71(b) is suggesting analysis "at least once annually in all groundwater samples"; is the Ministry suggesting that one of the sampling events would not include all monitoring wells and/or the complete list of parameters listed in Schedule "B"?

We would be pleased to discuss the requirements of the surface and groundwater monitoring program and have it included in this amended Certificate. This would reduce the likelihood of any requirements for significant changes in the future, which are to be obtained in writing from the District Manager.

Buffer / Contaminant Attenuation Zone

- 77. The Township acknowledges the requirement to place final cover on the area landfilled within the 30 metre buffer within one (1) year of the Certificate.
- 78. The Township acknowledges the one (1) year time frame to establish the CAZ. Reference to additional buffer should be deleted.
- 79. Additional buffer reference to be deleted.

Trigger Mechanism and Contingency Plans

- 80. & The Township acknowledges the requirement to submit this documentation to the
- 81. District Manager within one (1) year of the Certificate issue.

The remaining recording and reporting requirements as Conditions 82 to 91 inclusive are standard procedures acceptable to the municipality; and the Closure Plan Conditions 93 and 94 are acceptable.

Ross - Reasons

These look satisfactory, but may be subject to change if the numbering of conditions change.

Ross - Schedule B

The list of parameters should reflect the Golder Associates Ltd. proposal. Attached is Table 5. If after 12 months the Township wishes to modify the program as per Condition 70(c) they will request same through a submission to the District Manager.

Trusting this is satisfactory, and given the number of proposed changes to the draft C of A we request an opportunity to review prior to finalization.

Yours truly,
Jp2g Consultants Inc.
Engineers \$ Planners \$ Project Managers



Kevin J. Mooder
Sr. Project Planner

KJM/dr

c.c.: - Steve Hodson, Landfill Operations Manager, Township of Whitewater Region
- Andrew Polley, MOE Ottawa

Kevin Mooder

From: Kevin Mooder <kmooder@jp2g.com>
Sent: Wednesday, December 14, 2011 12:30 PM
To: 'Larkin, Lance (ENE)'; shodson@whitewaterregion.ca
Subject: RE: Ross WDS Inspections

Lance please note that the surface water review comments are not attached to the landfill site inspection report

I realize that the Stage 1 capacity limits are close to being exceeded and we have been working with Steven to develop the documentation to support the Stage 2 application, and as you are aware we only recently received confirmation from Vicki Mitchell that the approvals would not be subject to an ESP. I respectfully submit that an application could not be filed by January 15, 2012 as it would need an updated D&O Report and Compiled Hydrogeological Report.

- We could have a draft D&O Report prepared for January 15th, as this was our initial proposal to the Township however the design should be based on the recent (Nov 2011) capacity survey, and the plan preparation has not as yet been initiated, as typically the results are filed in the Annual Report due March 31 of the following year
- The Hydrogeological Report would be the 2011 Annual Report to be filed by March 31, 2012 (compiled and presented generally in accordance with the recent Technical Guidance Document, Nov 2010) which will require significant reformatting of our former report style, and requires assessment of not only the recent sampling results but a projection of the future CAZ limit requirements.
- Lastly you have to realize that Township Council would have to review and approve the budget to complete the documentation and the MOE application fee

Based on my recent experience with EAAB Operation Division who screen the applications, I suggest that they would not consider the application complete without both documents. Therefore I suggest that a March 31, 2012 date is more realistic to file the application. Your thoughts or comments would be appreciated.

Kevin J. Mooder, MCIP, RPP
Senior Planner, Vice-President
Environmental Services

Jp2g Consultants Inc.
1150 Morrison Drive, Suite 410
Ottawa, ON K2H 8S9
Tel: (613) 828-7800
Fax: (613) 828-2600
E-mail: kmooder@jp2g.com

From: Larkin, Lance (ENE) [<mailto:Lance.Larkin@ontario.ca>]
Sent: Wednesday, December 14, 2011 11:35 AM
To: shodson@whitewaterregion.ca
Cc: Kevin Mooder
Subject: Ross WDS Inspections

Dear Steven,

Please review the attached inspections reports. There are action items noted under s.5.0.

Please call me if you have any questions or concerns.

Regards,



Township of Whitewater Region
Environmental Services Department
P.O. Box 40 44 Main Street
Cobden, ON K0J 1K0

Mr. Tor Rustad, Senior Environmental Officer
Ontario Ministry of the Environment
Ottawa District Office
2430 Don Reid Drive
Ottawa, ON
K1H 1E1

**Re: Stockpile & Processing of Clean Woodwastes
Ross Landfill Site, ECA #A413209**

Dear Tor,

On behalf of the Township of Whitewater Region I am seeking some clarification, and perhaps consent, on a condition found in our ECA for the Ross Landfill Site. Specifically...*Amended Provisional Certificate of Approval Waste Disposal Site Number A413209 (December 23, 2005) Condition 21. (a) (iv) clean woodwaste and leaf & yard waste.*

The Township of Whitewater Region Environmental Services Department continues to be overwhelmed by the monumental amount of landfill space that construction & demolition (C&D) debris is occupying in the Ross Landfill Site. I speak explicitly of demolitions. Whitewater Region is plagued with older farmhouses, barns, commercial buildings, etc. that frequently find their way into the Ross Landfill Sites in-fill area. Development/improvement of these properties typically entails a demolition and the then inherent need to dispose of this material.

Currently our ECA allows us to receive, store and process "clean woodwaste and leaf and yard waste". I am inquiring as to whether the term "clean woodwaste" means strictly tree waste/brush or could this perhaps mean "clean lumber" as well. I do acknowledge that during a demolition and as it arrives at the Waste Site, it is typically challenging to keep lumber, fiberboard, plywood, chipboard, particleboard, etc. free of drywall (gypsum board), insulation, asphalt shingles, bricks, concrete, etc.. That being said, if loads of "clean lumber" do arrive at the Ross Landfill, the Department would be most interested in stockpiling it in proximity to our brush, leaf and yard waste until the grinder arrives in the Fall.

As our Environmental Compliance Approval is currently under review with MOE Approvals Branch in Toronto (support for Stage II, Ross Landfill Site) I would like to take this opportunity to formerly begin the process of seeking approval from the District Manager to stockpile specific C&D wastes (in separated, managed piles) for processing prior to landfilling, recycling or re-use. These C&D wastes would include:

- **Clean lumber (sawed), particleboard, chipboard, fiberboard, pallets, plywood** (if not recognized under the term “clean woodwastes” (condition 21. (a) (iv))). These wastes would be maintained in a stockpile adjacent to the brush, tree, leaf & yard waste pile. Currently grinding occurs each Fall but if required could occur more frequently. The grindings/mulched materials could then to be utilized as alternative daily cover or simply landfilled.
- **Concrete, brick and rock.** These wastes would be maintained in a stockpile adjacent to the brush, tree, leaf & yard waste pile for a determined period of time in wait of recycling, on-site road and low-lying area development or perhaps other clean fill / re-use opportunities.
- **Asphalt Shingles.** These wastes would be maintained in a stockpile also adjacent to our brush, tree, leaf & yard waste pile for a determined period of time in wait of grinding. The grindings could then to be utilized as alternative daily cover or simply landfilled.

In an effort to aid in particle size reduction prior to compaction I would ask that that Ministry of the Environment Ottawa District Office please consider this request as well as offer some direction / input into the designation of the term “woodwaste” as stated in our ECA.

Furthermore, if or when the Ross Landfill Site can indeed stockpile “clean woodwaste” aside from trees, brush, leaf and yard waste, what degree of contamination is acceptable? For instance, if the lumber had smaller pieces of drywall still screwed and intact or perhaps asphalt, is that unacceptable? If lumber demonstrated minimal amounts of tar paper of house wrap still stapled to it...is that deemed unactable?

I look forward to your feedback and thoughts on this matter and welcome any further questions or concerns you may have.

Regards,

Steve Hodson, Environmental Services Manager
Township of Whitewater Region
Phone (613) 646-2282
Cell: (613) 635-1517
Fax: (613) 646-2283



Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	The Corporation of the Township of Whitewater Region Mailing Address: Post Office Box, 40, Cobden, Ontario, Canada, K0J 1K0 Physical Address: 1 Astrolabe Rd, Whitewater Region, Township, County of Renfrew, Ontario, Canada, K0J 1K0 Telephone: (613)646-7971, email: shodson@whitewaterregion.ca Client #: 1185-5UDMEF, Client Type: Municipal Government, NAICS: 913910		
Inspection Site Address:	Ross Waste Disposal Site Address: 990 Kohlsmith Rd, Whitewater Region, Township, County of Renfrew, K0J 1K0 District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 358828, UTM Northing: 5055148, UTM Location Description: Entrance gate to site, LIO GeoReference: Zone: 18, UTM Easting: 355842.06, UTM Northing: 5059915.5, Latitude: 45.677795, Longitude: -76.85102		
Contact Name:	Steve Hodson	Title:	Landfill Operations Manager
Contact Telephone:	(613)646-2282 ext	Contact Fax:	(613)646-2283
Last Inspection Date:	2011/11/18		
Inspection Start Date:	2014/10/29	Inspection Finish Date:	2014/10/29
Region:	Eastern		

1.0 INTRODUCTION

The Ross Waste Disposal Site (Site) is owned by the Corporation of the Township of Whitewater Region and operates under the authority of the Amended Provisional Certificate of Approval for a Waste Disposal Site Number A413209. Please note that Certificates of Approval are now referred to as Environmental Compliance Approvals (ECA) and will be referenced as such in this inspection report.

The purpose of this inspection was to assess the Site for compliance with specific operational conditions in the ECA. This inspection involved a tour of the Site, discussions with staff, and a cursory review of pertinent files at the Ottawa District Office. This inspection report reflects the observations made by the undersigned Environmental Officer during the October 29, 2014 inspection and file review. The landfill was open at the time of the inspection.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s):

A413209 issued December 23, 2005 and amended on March 15, 2013 and July 21, 2014.

2.1 FINANCIAL ASSURANCE:

Specifics:

Financial assurance is not required for municipally owned waste disposal/transfer sites.

2.2 APPROVED AREA OF THE SITE:

Specifics:

The Site is approved for the use and operation of a 5.4 hectare landfilling area and segregated waste storage and processing facilities all within a 25 hectare total site area.

2.3 APPROVED CAPACITY:

Specifics:

Conditions 37 through 39 of the ECA approve the capacity of the Site. The maximum theoretical approved waste disposal volume of the Site, consisting of the waste, daily cover and intermediate cover, but excluding the final cover is 434,340 cubic metres.

Notice No. 2 of the ECA, issued July 21, 2014, approved the development and operation of Stage 2 for the development of 375,400 cubic meters which includes 119,100 cubic meters of existing waste.

The service area from which the Site can receive waste shall be limited to the Township of Whitewater Region (Condition 19).

APPROVED WASTE TYPES

Conditions 20 through 23 approve the waste types that are permitted to be received at the Site. Only solid non-hazardous waste limited to municipal waste shall be accepted at the Site for landfilling.

Condition 21(a) states that the following types of waste are approved to be received, stored and processed at the Site for the purpose of recycling and/or landfill diversion to be transferred off-site for further re-use or processing:

- (i) tires;
- (ii) scrap metal;
- (iii) White Goods and Refrigerant Appliances;
- (iv) clean woodwaste and leaf and yard waste;
- (v) propane cylinders;
- (vi) batteries;
- (vi) Blue Box recycling wastes, limited to newspaper, clear and coloured glass, aluminum/tin cans and plastic containers, fabrics and fibers, and
- (vii) incidental hazardous waste recovered from the active face of the landfill.

Additional wastes related to recycling and waste diversion from the landfill can be accepted and handled at the Site following written approval from the District Manager (Condition 21(b)).

No liquid industrial waste or hazardous wastes as defined under O.Reg. 347, other than specified in Condition 21, shall be received at the Site.

The Municipality shall develop and implement a program to inspect waste to ensure that the waste received at the Site is of a type approved for acceptance under this Certificate (Condition 23(a)).

The Municipality shall ensure that all loads of waste are properly inspected by trained Site personnel prior to acceptance at the Site and that the waste vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Municipality shall notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence (Condition 23(b)).

At the time of the inspection, only approved waste types were observed at the Site, except for waste electronics. Waste electronics are being diverted from landfilling and should be included as a waste type in Condition 21(a). Condition 21(b) allows additional wastes related to recycling and waste diversion from the landfill to be accepted at the Site; however, it requires written approval from the District Manager.

When present, staff inspect the incoming waste to ensure it is an approved waste type and direct the vehicles to the appropriate areas for disposal or transfer of the waste; however, staff indicated that the site supervisor and attendant are only at the site full-time on Wednesdays and Saturdays when the Site is open to the public. Curbside collection occurs Monday through Thursday and on Fridays when the previous Monday is a statutory holiday. The County of Renfrew also has a key to the Site and can enter Site any day of the week to landfill waste that has been picked up along County roads. Therefore, any waste that is brought to the Site on Monday, Tuesday, Thursday, Friday and Sunday is not inspected by a site supervisor or attendant unless they happen to be on-Site at the same time. Therefore, not all waste loads are inspected, as required by Condition 23(b) of the ECA.

Condition 23(b) of the ECA also requires the Municipality to notify the District Manager, in writing, of load rejections at

the Site within one (1) business day from their occurrence. At the time of the inspection, staff indicated that waste was refused at the Site this past summer because it did not originate from within the Township of Whitewater Region. Based on a review of the file, there was no record of the District Manager being notified about this waste refusal.

Appendix B of the 2013 Annual Report includes the Compliance Summary Table which states that Condition 23(b) is "understood" and that there is an attendant on duty; however, based on the above inspection findings, the Site is not in compliance with Condition 23(b) of the ECA.

Municipal waste is currently being landfilled in the low area on western side of the Site (Stage 2), from the south to the north direction down a slope. Staff indicated they began landfilling in this area after receiving approval in July 2014.

See Section 5.0 of this Report.

2.4 ACCESS CONTROL:

Specifics:

Conditions 49 through 57 of the ECA state the approved site access, site security and signs that are required to be installed and maintained at the Site.

SITE ACCESS

Condition 49 of the ECA state that the normal operating hours of the Site shall be as follows:

Public drop-off

- Wednesday - 8:00 am - 2:00 pm
- Saturday - 8:00 am - 2:00 pm

Municipal drop-off

- Monday through Saturday 7:00 am - 6:00 pm

Access to and exit from the Site for the transportation of waste shall only be permitted from Kohlsmith Road. The access road and on-site roads shall be provided and maintained so that vehicles hauling waste to and on the Site may travel readily and safely on any operating day (Condition 51).

The Municipality shall post visible signs along the traffic route providing clear directions to the Site (Condition 52).

At the time of the inspection, a sign was posted on the gate to the Site displaying the hours of operation, as indicated in Condition 49 of the ECA. There is a sign posted on the site attendant's office that displays an arrow that directs vehicles to approach the site attendant on the right side of the building.

SITE SECURITY

No waste shall be received, landfilled or removed from the Site unless a site supervisor or attendant is present and supervises the operations during the approved operating hours. The Site shall be closed when a site attendant is not present to supervise waste handling operations (Condition 53).

The Site shall be operated and maintained in a secure manner. During non-operating hours, the Site entrance/exit gate shall be locked and the Site shall be secured against access by unauthorized persons (Condition 54).

At the time of the inspection, staff confirmed the gate is locked during non-operating hours. With respect to ensuring a site supervisor or attendant is present when waste is being received, landfilled or removed from the Site, as stated above in Section 2.3, staff indicated that staff is only at the site full-time on Wednesdays and Saturdays when the Site is open to the public. Curbside collection occurs Monday through Thursday and on Fridays when the previous Monday is a statutory holiday. The County of Renfrew also has a key to the Site and can enter Site any day of the week to landfill waste that has been picked up along County roads. Therefore, any waste that is brought to the Site on Monday, Tuesday, Thursday, Friday or Sunday is not supervised by a site supervisor or attendant unless they happen to be on-Site at the same time. Condition 53 states that the Site shall be closed when a site attendant is not present to supervise waste handling operations.

Appendix B of the 2013 Annual Report includes the Compliance Summary Table which states that Condition 53 is "understood" however, based on the above inspection findings, the Site is not in compliance with Condition 53 of the ECA.

See Section 5.0 of this Report.

SIGNS

Condition 55 of the ECA requires a sign shall be installed and maintained at the main entrance/exit to the Site on which is legibly displayed the following up-to date information:

- (a) the name of the Site and the Municipality;
- (b) the number of the Certificate;
- (c) the normal hours of operation;
- (d) the allowable and prohibited waste types;
- (e) the telephone number to which complaints may be directed;
- (f) a twenty-four (24) hour emergency telephone number (if different from above); and
- (g) a warning against dumping outside the Site.

The Municipality shall install and maintain signs at the Site to direct vehicles to the working face, the recycling bins and the other disposal or storage areas designated for wastes requiring special handling procedures.

At the time of the inspection, signs were posted displaying the required information, except there was no sign warning against dumping outside the Site.

See Section 5.0 of this Report.

ADVERSE EFFECT

Conditions 58 through 64 of the ECA outline the requirements for litter, dust, noise, vermin and visual screening at the Site.

The Site shall be operated and maintained so that the operational impacts, including but not be limited to dust, litter, odour, contaminant emissions to the atmosphere, noise, vermin, vectors, animals and traffic, do not create an adverse effect.

Litter Control

The Municipality shall take all practical steps to prevent the escape of litter from the Site. If necessary, litter fencing shall be erected around the working area of the landfill and the storage of recyclable materials.

Litter shall be picked-up at the Site and along the access road in the vicinity of the Site once per week as described in Item 6 of Schedule "A".

Dust Control

The Municipality shall control fugitive dust emissions from the on-site sources including, but not be limited to the on-site roads, stockpiled cover material and closed landfill areas. If necessary, the major sources of dust shall be treated with water and/or dust suppression materials to minimize the overall dust emissions from the Site.

Noise

Noise from or related to the operation of the Site shall be kept to a minimum and in any event, the Municipality shall comply with the criteria set out in the Ministry's guideline entitled "Noise Guidelines for Landfill Sites".

Vermin

Vermin related to waste handling activities are to be adequately controlled at the Site. Should vermin become a problem, a licensed exterminator shall be engaged at a frequency necessary to bring the problem under control.

Visual Screening

The Municipality shall provide visual screening of the waste disposal activities undertaken at the Site from the traffic on Kohlsmith Road and from the residences that are located in the vicinity of the Site, in accordance with Item 2 of Schedule "A".

Condition 67 of the ECA states that scavenging at the Site is prohibited, except at the designated re-use area under the supervision of the Site attendant.

At the time of the inspection, staff indicated that litter is picked up regularly and dust suppressants are applied when needed but there have been no problems with off-site dust impacts. There have also been no problems with noise or vermin; however, staff did observe bear tracks on the Site for the first time this past summer. As for visual screening, staff planted 500 Austrian Pine along the western property boundary and Jack Pine along the southern property

boundary (along Kohlsmith Road).

Staff created a berm, using sand, along the northern side of the Site to identify the 30m buffer. Staff indicated however that the berm is more than 30m from the property line.

EMPLOYEES AND TRAINING

Condition 68 of the ECA outlines the requirement for a training plan developed and implemented by the Municipality for all employees that operate any aspect of the Site. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Certificate.

Staff indicated that a master list of training taken by staff is maintained at the office. The site attendant has taken the Landfill Operators Basics course offered at the Ottawa Valley Waste Recovery Centre and he has reviewed the ECA for the Site.

WEEKLY INSPECTIONS OF THE OPERATIONS

Conditions 69 and 70 of the ECA outline the inspection requirements for the Site.

Condition 69 states that an inspection of the entire Site and all equipment at the Site shall be conducted each week to ensure that: the Site is secure, that the operation of the Site is not causing any adverse effects on the environment and that the Site is being operated in compliance with this Certificate. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site, if needed.

The inspection day shall be determined prior to the commencement of the operations at the Site and may be changed following a written consent from the District Manager.

Condition 70 states that the areas to be inspected shall include, but not be limited to the following:

- (a) the condition of the active disposal areas, the recyclable bins, the wood waste pile, the scrap metal pile, the tire pile, the Refrigerant Appliances bunker, the propane tank bunker, the batteries bunker, the re-use area trailer and the incidental hazardous waste container;
- (b) condition of the surface water drainage works;
- (c) presence of any ponded water at the Site;
- (d) condition of the on-site roads for evidence of excessive erosion, mud and/or waste and fugitive dust emissions;
- (e) condition of any soil stock piles for evidence of excessive erosion;
- (f) presence of litter at the Site's perimeter and litter fences;
- (g) condition of the intermediate cover and of the final cover;
- (h) presence of vector, vermin, scavenging birds and animals;
- (i) condition of the on-site facilities, the gate and its lock and the signs required by this Certificate;
- (j) condition of the groundwater monitoring wells required for the groundwater monitoring program approved by this Certificate; and
- (k) amount of the cover material to ensure that sufficient daily cover is available at all times that the Site is in operation.

At the time of the inspection, staff confirmed that inspections, as required, are completed.

COMPLAINTS PROCEDURE

Condition 83 of the ECA states that if at any time, the Municipality receives complaints regarding the operation of the Site, the Municipality shall respond to these complaints according to the following procedure:

- (a) The Municipality shall record and number each complaint, either electronically or in a log book, and shall include the following information: the nature of the complaint, the name, address and the telephone number of the complainant if the complainant will provide this information and the time and date of the complaint;
- (b) The Municipality, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint and forward a formal reply to the complainant; and
- (c) The Municipality shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents.

(d) A summary of the complaints and their resolutions shall be provided in the Annual Report.

The 2013 Annual Report states that no complaints or emergency situations were reported in 2013 and no significant operational issues were identified in 2013. At the time of the inspection, staff indicated that the Township has received no complaints about the Site.

RECORDS KEEPING

Daily Operations Records

Condition 88 of the ECA requires the Municipality to establish a daily operating report of the landfilling and waste diversion operations, in the form of a log or a dedicated electronic file and it shall include, as a minimum, the following information:

- (a) type and estimated amount of waste received at the Site for landfilling;
- (b) area of the Site in which landfilling operations are taking place;
- (c) type, source and amount of daily or intermediate cover used;
- (d) waste types and quantities recyclable/reusable wastes received at the Site;
- (e) source of their generation;
- (f) waste types and quantities of recyclable/reusable wastes transferred off the Site;
- (g) destination of recyclable/reusable wastes transferred off the Site, including manifesting information required for movement of hazardous waste;
- (h) Refrigerant Appliances' tag numbers from Condition 27 tagged at the Site;
- (i) types of waste and quantity transferred from the re-use area into the landfilling area;
- (j) summary of the wood waste chipping activities undertaken at the Site;
- (k) records of litter pick-up activities and any dust suppression activities undertaken at the Site as required by Conditions 59 and 60;
- (l) maintenance and repairs performed on the equipment used at the Site;
- (m) records of complaints received and actions taken to resolve them as required by Condition 83;
- (n) summary of emergency situations and actions taken to address them;
- (o) any environmental and operational problems and the mitigative actions taken;
- (p) any recommendations to minimize environmental impacts from the operation of the waste diversion areas to improve such operations in this regard; and
- (q) any other information required by the District Manager.

At the time of the inspection, staff presented a daily checklist that is completed by the site attendant each day. This checklist includes what waste types are received and removed from the Site, whether waste was compacted and covered, if any litter was collected, or any complaints or emergencies that occurred that day. Staff also indicated that invoices and journal entries would document other events that occurred at the Site, for example, refrigerant appliance's tag numbers, summary of woodwaste chipping activities, and any maintenance and repairs performed. However, there is not a log or dedicated electronic file that includes everything listed in Condition 88. An estimate amount of waste received at the Site are not recorded is are the amount of cover material used. The specific source of waste generation is also not recorded; however, the Site does not accept waste from outside the Township of Whitewater Region.

Staff indicated that there was a fire this past summer on the slope of waste at the landfill; the site attendant smothered it with sand. It is unknown what caused it but staff assume it was ashes. The event is documented in a journal.

Staff indicated that a log or dedicated electronic file will be established to document the information required in Condition 88 of the ECA.

See Section 5.0 of this Report.

Inspections Records

Condition 89 of the ECA requires the Municipality to establish and maintain a written record of the weekly Site inspections as required by Conditions 69 and 70. This record shall be in the form of a log or a dedicated electronic file and it shall include, as a minimum, the following information:

- (a) date and time of inspection;
- (b) name, title and signature of trained personnel conducting the inspection;
- (c) a listing of all the areas inspected and any deficiencies observed; and
- (d) recommendations for remedial action and the completion date of such action.

At the time of the inspection, a copy of an inspection record, as required by Condition 89 of the ECA for the weekly

inspections, was reviewed. The record included all the information required under Condition 89 of the ECA.

Waste Refusal Records

Condition 90 of the ECA requires that a record be kept in the daily operating log book of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

At the time of the inspection, staff indicated, as stated above in Section 2.3, that waste was refused at the Site this past summer because it did not originate from within the Township of Whitewater Region. The record is documented in a staff journal.

ANNUAL REPORT

Condition 92 of the ECA requires a written report on the development, operation and monitoring of the Site, be completed annually (the "Annual Report"). The Annual Report shall be submitted to the District Manager no later than March 31st of the year following the period being reported upon.

Condition 93 of the ECA states that the Annual Report shall include the following:

- (a) calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the Site and a calculation of the total volume of Site capacity used during the reporting period;
- (b) site plan(s) showing the existing contours of the Site, areas of landfilling operations during the reporting period, areas of intended operation during the next reporting period, areas of excavation during the reporting period, the progress of final cover, vegetative cover, and any intermediate cover application, previously existing site facilities, facilities installed during the reporting period and site preparations and facilities planned for installation during the next reporting period;
- (c) a calculation of the remaining approved capacity of the Site and an estimate of the remaining Site life;
- (d) summary of cover stock piling activities including use, timing, locations and erosion protection;
- (e) waste types and quantities recyclable/reusable wastes received and transferred off the Site;
- (f) destinations of recyclable/reusable wastes transferred off the Site;
- (g) types of waste and quantity transferred from the re-use area into the landfilling area;
- (h) summary of the woodwaste chipping activities undertaken at the Site;
- (i) summary of litter pick-up and any dust suppression activities undertaken at the Site;
- (j) summary of maintenance and repairs performed on the equipment used at the Site;
- (k) summary of inspections undertaken at the Site;
- (l) summary of complaints received and actions taken to resolve them;
- (m) summary emergency situations and actions taken to address them; and
- (n) any environmental and operational problems and the mitigative actions taken;
- (o) any recommendations to minimize environmental impacts from the operation of the landfill and waste diversion areas to improve such operations in this regard;
- (p) the results and an interpretive analysis of the results of all leachate, groundwater and surface water monitoring, including an assessment of the need to amend the monitoring programs;
- (q) an assessment of the operation of the Site, the need to amend the design or operation of the Site, and the adequacy of and need to implement the contingency plans;
- (r) a report on the status of all monitoring wells and a statement as to compliance with O.Reg. 903; and
- (s) any other information required by the District Manager.

The 2013 Annual Report was received by the Ottawa District Office on March 21, 2014. Upon review of the 2013 Annual Report, it was determined that Condition 93 of the ECA is being met.

2.5 COVER MATERIAL:

Specifics:

COVERS

Conditions 43 through 48 of the ECA outline the requirements for daily, intermediate and final cover at the Site.

Waste shall be deposited in a manner that minimizes the exposure area at the landfill working face and it shall be compacted before the cover material is applied according to the procedure described in Item 6 of Schedule "A" (Condition 43).

Condition 44 states that cover material shall be applied over waste as follows:

Daily Cover:

- (i) At the end of each working day, the entire working face shall be covered with a minimum thickness of 150 mm of cover material.
- (ii) Clean permeable soil, wood chips, compost, contaminated soil and ground C&D waste may be used as proposed in Item 12 of Schedule "A".

Intermediate Cover:

- (i) In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 mm of cover material shall be placed.
- (ii) Only clean permeable soil shall be used for intermediate cover.

Final Cover:

- (i) If the landfilling operations at the Site do not proceed into Stage 2, the Municipality shall place 600 mm of soil final cover and 150 mm of top soil over waste landfilled in Stage 1.
- (ii) Fill areas shall be progressively completed and covered as landfill development reaches contours approved in this Certificate.
- (iii) Only clean permeable soil shall be used for final cover.
- (iv) Seeding of the final cover shall be undertaken in the next growing season following the placement of the final cover.
- (iv) Slopes of the final cover shall not be less than 5% or more than 25% to promote effective surface water run-off.

The 2013 Annual Report stated that the Township used stockpiled earth, contaminated soil and chipped organic waste (leaf and yard waste) as a source of cover material. Intermediate cover has been applied to Stage 1.

At the time of the inspection, staff indicated that chipped woodwaste (lumber and leaf and yard waste) and sand is used as daily cover material; wood chips are used more frequently during the winter months compared to sand. The sand originates from on-site. Contaminated soil is also sometimes used as daily cover. Staff indicated that the pile of sand located to the east of the active face (northern corner) will be excavated and moved to the south of the Stage 1 trench, an area that will be one of the last areas to be landfilled. This sand originated from when the Stage 1 trench was excavated. Staff indicated there are approximately 5000 railway ties buried under the sand which will remain in place.

At the time of the inspection, staff indicated that daily cover is not applied to the municipal waste that is received on Mondays (curbside pick-up) since the site supervisor and site attendant do not work on Mondays. Condition 44 of the ECA requires daily cover be applied at the end of each working day.

Appendix B of the 2013 Annual Report includes the Compliance Summary Table which states that Condition 44 is "understood" however, based on the above inspection findings, the Site is not in compliance with Condition 44 of the ECA.

See Section 5.0 of this Report.

2.6 WASTE BURNING:

Specifics:

Condition 42 of the ECA prohibits burning of waste at the Site, including woodwaste and brush. At the time of the inspection, staff indicated that no burning takes place at the Site. There was no evidence of burning observed.

2.7 GROUNDWATER/SURFACEWATER IMPACT:

Specifics:

Condition 71 of the ECA states that the Site shall be operated in such a way as to ensure compliance with the following:

- (a) Reasonable Use Guideline B-7 for the protection of the groundwater at the Site;
- (b) Provincial Water Quality Objectives included in the July 1994 publication entitled *Water Management Policies, Guidelines, Provincial Water Quality Objectives*, as amended from time to time or limits set by the Regional Director, for the protection of the surface water at and off the Site.

Conditions 72 through 76 of the ECA outline the groundwater and surface water requirements.

Groundwater Impacts

The groundwater review of the 2013 Annual Monitoring Report by the ministry's Technical Support Section is currently underway; comments will be forwarded to the Township once the review is complete.

Surface Water Impacts

The surface water review of the 2013 Annual Monitoring Report by the ministry's Technical Support Section is currently underway; comments will be forwarded to the Township once the review is complete.

At the time of the inspection there were no leachate seeps observed.

CONTAMINANT ATTENUATION ZONE

Notice No. 2 of the ECA, dated July 21, 2014, revoked and replace Condition 79(a) by adding seventeen hectares of Contaminant Attenuation Zone to the total Site area of 8 hectares.

The Municipality must continue to own the property rights to the Additional Buffer and the Contaminant Attenuation Zone for all of the contaminating life span of the Site.

Condition 80 of the ECA states that the Municipality shall ensure that the lands to be used as the Additional Buffer and Contaminant Attenuation Zones are registered on title with a Certificate of Requirement.

At the time of the inspection, staff indicated that this is currently underway.

TRIGGER MECHANISM AND CONTINGENCY PLANS

Condition 81 of the ECA states that notwithstanding the establishment of the Contaminant Attenuation Zone as approved in Condition 79(a), by **March 31, 2015**, the Municipality shall establish and submit to the *Director* for approval, the site-specific trigger mechanism program for the groundwater at the Site. Alternatively the Municipality may propose Trigger Mechanism and Contingency Plans in the Annual Report and use the procedure in Condition 97 to obtain approval from the *Director*.

At the time of the inspection, the trigger mechanism program had not yet been submitted to the Director for approval.

2.8 LEACHATE CONTROL SYSTEM:

Specifics:

There is no leachate control system in place at the Site. The Site functions as a naturally attenuating site.

2.9 METHANE GAS CONTROL SYSTEM:

Specifics:

There is no methane gas control system in place. Condition 65 of the ECA states that the Municipality shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible landfill gas accumulation. Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the Site, especially enclosed structures which at times are occupied by people.

At the time of the inspection, staff indicated that landfill gas monitoring is conducted in the on-Site buildings.

2.10 OTHER WASTES:

Specifics:

WASTE DIVERSION

Conditions 24 through 36 of the ECA outline the approved waste diversion activities at the Site.

Condition 24 states that the segregated wastes approved to be received and stored on Site for the purpose of recycling and/or landfill diversion shall be stored as follows:

- (a) Blue Box recycling wastes shall be stored in bins;
- (b) scrap metal, including White Goods shall be stored in a managed stockpile;
- (c) brush, clean waste wood and leaf and yard waste shall be stored in a managed stockpile;
- (d) tires shall be stored in a managed stockpile;

- (e) propane tanks shall be stored in a storage bunker;
- (f) Refrigerant Appliances shall be stored in a storage bunker;
- (g) batteries shall be stored in a storage bunker;
- (h) incidental hazardous waste shall be stored in a contained pre-fabricated steel shipping container;
- (i) re-use wastes shall be stored within a contained trailer.

Condition 25 of the ECA states that the Municipality shall ensure that:

- (a) all bins and waste storage areas are clearly labelled;
- (b) all lids or doors on bins shall be kept closed during non-operating hours and during the high wind events; and
- (c) if necessary to prevent litter, waste storage areas shall be covered during the high winds events.

The Municipality shall ensure that brush, clean woodwaste and leaf and yard waste storage area is located with a minimum of 30-metre separation distance to the tree area, flammable materials, buildings and the waste footprint (Condition 26).

Condition 27 states that the Municipality shall provide a segregated area for the storage of Refrigerant Appliances so that the following are ensured:

- (a) all Refrigerant Appliances have been tagged to indicate that the refrigerant has been removed by a licensed technician. The tag number shall be recorded in the log book required by Condition 88 and shall remain affixed to the appliance until transferred from the Site; or
- (b) all Refrigerant Appliances accepted at the Site, which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, are stored segregated, in a clearly marked area, in an upright position and in a manner which allows for the safe handling at the Site; and
- (c) all Refrigerant Appliances received at the Site shall either have the refrigerant removed prior to being transferred from the Site or shall be shipped off-site only to facilities where the refrigerants can be removed by a licensed technician in accordance with O.Reg. 189.

The Municipality shall ensure that propane cylinders are stored in a single layer (i.e. no stacking), in a manner which prevents the cylinders from being knocked over or cylinder valves from breaking (Condition 28).

The Municipality shall ensure that batteries are stored in secure area apart from the other wastes and are stored in a single layer (i.e. no stacking), under a roof or cover and in a manner which provides for secondary containment in the event of leakage (Condition 29).

Storage of Incidental Hazardous Waste

Condition 30 of the ECA states that the Municipality shall ensure that the incidental hazardous waste is stored in a safe and secure manner, so that the storage does not interfere with any other activities undertaken at the Site and that the waste is properly handled, packaged or contained so as not to pose any threat to the general public, Site personnel and the environment.

No storage facilities other than those approved under this Certificate shall be used and fixed storage facilities shall not be moved, replaced or altered.

The incidental hazardous waste storage container shall be clearly marked indicating the type and nature of the hazardous waste stored. Smoking restrictions shall be adhered to and non-smoking signs shall be posted.

The incidental hazardous waste storage container shall be properly ventilated and shall be used and maintained in compliance with fire regulations, municipal by-laws and approvals and in accordance with Ministry of Labour guidelines.

The incidental hazardous waste storage container shall be maintained under lock and key with its access limited to trained Site personnel.

At the time of the inspection, the following waste types were observed being diverted from the landfill:

- tires (stockpiled)
- scrap metal (stored in two roll-off bins)
- white goods and refrigerant appliances (stored in one roll-off bin)
- clean woodwaste and leaf and yard waste (stockpiled)
- chipped woodwaste and leaf and yard waste (stockpiled)

- propane cylinders (segregated in an area)
- waste electronics (stored one roll-off bin)

Waste electronics are not currently included in the list of approved waste types that are permitted to be received and stored on the Site for recycling and/or landfill diversion under Conditions 21 and 24 of the ECA. As previously stated in Section 2.3 above, Condition 21(b) of the ECA allows additional wastes related to recycling and waste diversion from the landfill to be accepted at the Site; however, it requires written approval from the District Manager. Appendix B of the 2013 Annual Report includes the Compliance Summary Table which states next to Condition 21(b) that a WEEE program has been established; however, based on the above inspection findings, the Township never received written approval to do this. On October 31, 2014, the Township submitted a request to the District Manager, in a letter attached to an email, to allow the acceptance, storage and transfer off-Site of waste electrical and electronic equipment at the Site under Condition 21(a) of the ECA. The email indicated that the Township is a Registered Collector of Waste Electronics under the Ontario Electronics Stewardship Program.

Staff indicated that blue box recyclables are not accepted at the Site at this time and a re-use centre has not yet been established at the Site.

All diverted material was segregated and stored in different areas on the Site. Signs were posted to indicate what type of waste should be deposited where. The pile of chipped woodwaste was within the 30m separation distance from the site attendant building, required by Condition 26 of the ECA. Staff indicated that the pile is larger than normal and some of the material will soon be moved closer to the active face to be used as daily cover this winter.

At the time of the inspection, staff indicated that the refrigerant had recently been removed from all refrigerant appliances and tagged by a licensed technician on October 25, 2014. Before this is completed, the appliances are stored next to the blue bin. Once the refrigerant has been removed, the appliances are considered scrap metal and stored inside the blue bin. On October 30, 2014, staff emailed the undersigned a copy of the receipts for the two degassing (ozone depletion) events that occurred at the Site in 2014 (July 12 and October 25). The tag numbers are documented on the receipts.

At the time of the inspection, propane cylinders were observed stored in a single layer in an area surrounded on three sides with concrete.

At the time of the inspection there were no batteries observed at the Site. Staff indicated that batteries are stored next to the propane cylinders and are typically gone by the end of the operating day.

There are two shipping containers located at the Site; one stores the yellow bags and recycling bins that are sold to residents and the other stores the gas and oil needed for the equipment on-site. Incidental hazardous waste, when received, is also stored in this container. The shipping container is well ventilated and kept under lock and key, as required by Conditions 30(d) and 30(e) of the ECA; however, the container is not clearly marked indicating the type and nature of the hazardous waste stored nor is there a non-smoking sign posted, as required by Condition 30(c) of the ECA. Appendix B of the 2013 Annual Report includes the Compliance Summary Table which states that Condition 30(c) is "in compliance" however, based on the above inspection findings, the Site is not in compliance with Condition 30(c) of the ECA.

Staff indicated the diverted waste materials are currently in the process of being transferred off-site to clean up the Site before winter (i.e. tires were collected the week prior to the inspection, waste electronics were collected the morning of the inspection, refrigerant was removed and appliances tagged by a licensed technician the weekend prior to the inspection, and lumber and leaf and yard waste was chipped a couple weeks prior to the inspection).

The 2013 Annual Report states that a total of 446.35 tonnes of materials were diverted from landfilling in 2013.

See Sections 5.0 and 6.0 of this Report.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

There are no remaining non-compliance issues related to this inspection.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

N/A

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

N/A

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

Yes

Specifics:

- Not all loads of waste are inspected prior to acceptance at the Site (Condition 23(b))
- Chipped woodwaste was stockpiled within the 30m separation distance to the site attendant building (Condition 26)
- Daily cover is not applied to waste that is landfilled on Mondays (Condition 44)
- Receipt and landfilling of waste is not always under supervision of the site supervisor or attendant (Condition 53)

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

N/A

Was there any indication of minor administrative non-compliance?

Yes

Specifics:

- Waste Electrical and Electronic Equipment is not approved as a waste type that can be received and stored on the Site for the purpose of recycling and/or landfill diversion (Conditions 21(a) and 24)
- The District Manager has not been notified about load rejections at the Site (Condition 23(b))
- The incidental hazardous waste storage container is not clearly marked indicating the type and nature of the hazardous waste stored nor is there a non-smoking sign posted (Condition 30(c))
- A sign warning against dumping outside the Site is not posted at the main entrance/exit to the Site (Condition 55)
- A log or dedicated electronic file documenting the daily operating reports of the landfilling and waste diversion operations has not been established (Condition 88)

5.0 ACTION(S) REQUIRED

Based on the above inspection findings, the Township of Whitewater Region must ensure:

1. Waste electrical and electronic equipment (WEEE) is approved under the ECA as a waste type that can be received and stored on the Site for the purpose of recycling.
2. All waste loads are inspected and the receipt, landfilling or removal of waste is supervised by a site supervisor or attendant. The Site must be closed when a site attendant is not present to supervise waste handling procedures.
3. The District Manager has been notified, in writing, of load rejections at the Site within one (1) business day from their occurrence.
4. The brush, clean woodwaste and leaf and yard waste storage area is located with a minimum of 30m separation distance to the tree area, flammable materials, buildings and the waste footprint.
5. The incidental hazardous waste storage container is clearly marked indicating the type and nature of the hazardous waste stored and a non-smoking sign must be posted.
6. At the end of each working day, the entire working face is covered with a minimum thickness of 150mm of cover material.

7. A sign warning against dumping outside the Site is posted at the main entrance/exit to the Site.
8. Daily operating reports of the landfilling and waste diversion operations, in the form of a log or a dedicated electronic file, is established that includes the information stated in Condition 88 of the ECA.


Please provide the undersigned, **by no later than February 28, 2015**, with a written action plan outlining how the Township of Whitewater Region will address the above action items.

6.0 OTHER INSPECTION FINDINGS

The Township must ensure that the waste processing service provider hired to process the woodwaste, brush and leaf and yard waste has a mobile Air and Noise ECA to operate the equipment used to process the waste. This ECA must identify woodwaste, brush and leaf and yard waste as approved waste types for processing. The service provider must operate in compliance with all the conditions outlined in the ECA, including the requirements for Relocation Notification, setback distances and the ministry's Noise Guideline NPC-300. The waste processing service provider cannot conduct this type of activity prior to obtaining an ECA.

It is in the Township's best interest to ensure all operations conducted at the Site are in compliance with Section 9 of the *Environmental Protection Act* given that the Township has care and control of the Site.

7.0 INCIDENT REPORT

Applicable
6652-9QHN6V 



8.0 ATTACHMENTS

PREPARED BY:

Environmental Officer:

Name:

District Office:

Date:

Signature

Emily Tieu

Ottawa District Office

2014/11/03



REVIEWED BY:

District Supervisor:

Name:

District Office:

Date:

Signature:

Jena Leavoy

Ottawa District Office

2014/11/03



File Storage Number:

SI RE RS KO 610

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



Friday, October 31st, 2014

Steven Hodson, Environmental Services Manager
Township of Whitewater Region
Environmental Services Department
P.O. Box 40 44 Main Street
Cobden, ON
K0J 1K0

Ontario Ministry of the Environment and Climate Change
Ottawa District Office
2430 Don Reid Drive Suite 103
Ottawa, Ontario
K1H 1E1

Attention: Steven Burns, Ottawa District Manager

Re: Condition 21 (b)
Environmental Compliance Approval # A413209

Dear Mr. Burns,

It has recently been identified that Environmental Compliance Approval #A413209 for the Ross Waste Site, located at 990 Kohlsmith Road, Township of Whitewater Region, does not identify the acceptance, stockpile and off-site disposal/recycling of waste electronics under Condition 21. (a).

Therefore, subject to Condition 21. (b), The Township of Whitewater Region Environmental Services Department wishes to request that the acceptance, stockpile and off-site disposal/recycling of waste electronics is approved and identified as such under Condition 21. (a), ECA #A413209.

Please let me know if there are any further requirements for the Environmental Services Department to enact to ensure the said approval. Do not hesitate to contact me at your convenience.

Sincerely,

Steven Hodson, Environmental Services Manager
Township of Whitewater Region
Phone: (613) 646-2282
Cell: (613) 635-1517
Fax: (613) 646-2283

Ministry of the Environment

Ottawa District Office

2430 Don Reid Drive
Ottawa ON K1H 1E1

Tel: (613) 521-3450
Fax: (613) 521-5437

Ministère de l'Environnement

Ottawa District Office

2430, rue Don Reid
Ottawa ON K1H 1E1

Tél.: (613) 521-3450
Télééc.: (613) 521-5437



November 24, 2014

BY E-MAIL

Steven Hodson
Environmental Services Manager
Township of Whitewater Region
P.O. Box 40
44 Main Street
Cobden ON K0J 1K0

Dear Mr. Hodson:

**Re: Ross Waste Disposal Site
Condition 12(b) Environmental Compliance Approval (ECA) No. A413209**

This letter is in response to your letter, dated Friday, October 31, 2014, requesting the approval to receive and store waste electrical and electronic equipment (WEEE) at the Ross Waste Disposal Site ("Site") for the purpose of recycling and/or landfill diversion to be transferred off-site for further re-use or processing, required under the ECA.

In accordance with Condition 21(b) of the ECA, I approve the acceptance and handling of WEEE at the Site for the purpose of recycling and/or landfill diversion to be transferred off-site for further re-use or processing.

Please note that the WEEE received at the Site are subject to the inspection and reporting requirements outlined in Conditions 23, 70, 88 and 93 of the ECA

If you have any questions, please contact me at 613-521-3450 extension 224 or Emily Tieu at extension 235.

Yours truly,

Steve Burns
Ottawa District Manager

**Ministry of the Environment and
Climate Change**

Eastern Region
2430 Don Reid Drive, Suite 103
Ottawa ON K1H 1E1
Fax: (613) 521-5437
Toll Free 1-800-860-2195
Tel: (613) 521-3450

**Ministère de l'Environnement et de
l'Action en matière de changement
climatique**

Direction régionale de l'Est
2430 Promenade Don Reid, Unité 103
Ottawa ON K1H 1E1
Télécopieur: (613)521-5437
Sans Frais 1-800-860-2195
Tél:(613) 521-3450



April 17, 2018

Mr. Hodson

Dear Sir:

RE: Open Waste Disposal Site Inspection Report

The Corporation of the Township of Whitewater Region
990 Kohlsmith Rd, Township of Whitewater Region, County of
Renfrew
Reference Number 4122-AWUGYT

On March 07, 2018, the Ontario Ministry of the Environment and Climate Change (the Ministry) completed an Open Waste Disposal Site Inspection at 990 Kohlsmith Rd, Township of Whitewater Region, ON. The enclosed inspection report documents the inspection results.

The purpose of this inspection was to assess the open waste disposal site for compliance with the associated environmental compliance approval and other applicable Ministry legislation.

There are no actions required at this time; however, please note the recommended actions in Section 6.0 of the inspection report.

The co-operation extended to the Ministry during your facility inspection was appreciated.
Yours truly,

Alexander J Baker
Junior Environmental Officer
Ottawa District Office

File Storage Number: SI RE RS KO 610



Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	The Corporation of the Township of Whitewater Region Mailing Address: Post Office Box, 40, Cobden, Ontario, Canada, K0J 1K0 Physical Address: 1 Astrolabe Rd, Whitewater Region, Township, County of Renfrew, Ontario, Canada, K0J 1K0 Telephone: (613)646-7971, email: shodson@whitewaterregion.ca Client #: 1185-5UDMEF, Client Type: Municipal Government, NAICS: 913910		
Inspection Site Address:	Ross Waste Disposal Site Address: 990 Kohlsmith Rd, Whitewater Region, Township, County of Renfrew, K0J 1K0 District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: GPS, UTM Easting: 358828, UTM Northing: 5055148, UTM Location Description: Entrance gate to site, LIO GeoReference: Zone: 18, UTM Easting: 355842.06, UTM Northing: 5059915.5, Latitude: 45.677795, Longitude: -76.85102 Site #: 2045-52CK7A		
Contact Name:	Steven Hodson	Title:	Supervisor of Solid Waste and Safety
Contact Telephone:	(613)646-2282 ext	Contact Fax:	(613)646-2283
Last Inspection Date:	2014/10/29		
Inspection Start Date:	2018/03/07	Inspection Finish Date:	2018/03/07
Region:	Eastern		

1.0 INTRODUCTION

On March 07, 2018, Junior Environmental Officer Alex Baker and Senior Environmental Officer Emily Tieu conducted a solid non-hazardous waste disposal site inspection at the Ross Waste Disposal Site (the Site).

The Site is owned by the Corporation of the Township of Whitewater Region and operates under the authority of the Amended Provisional Certificate of Approval for a Waste Disposal Site Number A413209. Please note that a Certificate of Approval is now referred to as an Environmental Compliance Approval (ECA) and ECA A413209 will be referenced as "the ECA" in this inspection report.

The purpose of this inspection was to assess the Site for compliance with specific operational conditions in the ECA. This inspection involved a tour of the Site with Mr. Hodson, and a review of pertinent files at the Ottawa District Office.

This inspection report reflects the observations made by the undersigned Environmental Officer during the March 07, 2018 inspection and file review. The landfill was open at the time of the inspection.

2.0 INSPECTION OBSERVATIONS

Certificate of Approval Number(s):

A413209 issued December 23, 2005 and amended on March 15, 2013 and July 21, 2014.

2.1 FINANCIAL ASSURANCE:

Specifics:

Financial assurance is not required for municipally owned waste disposal/transfer sites.

2.2 APPROVED AREA OF THE SITE:

Specifics:

The Site is approved for the use and operation of a 5.4 hectare landfilling area and segregated waste storage and processing facilities all within a 25 hectare total site area.

2.3 APPROVED CAPACITY:

Specifics:

Conditions 37 through 39 of the ECA approve the capacity of the Site. The maximum theoretical approved waste disposal volume of the Site, consisting of the waste, daily cover and intermediate cover, but excluding the final cover is 434,340 cubic metres.

Notice No. 2 of the ECA, issued July 21, 2014, approved the development and operation of Stage 2 for the development of 375,400 cubic meters which includes 119,100 cubic meters of existing waste.

ECA APPROVED WASTE TYPES

- Conditions 20 through 23 approve the waste types that are permitted to be received at the Site. Only solid non-hazardous waste limited to municipal waste shall be accepted at the Site for landfilling.
- Condition 21(a) states that the following types of waste are approved to be received, stored and processed at the Site for the purpose of recycling and/or landfill diversion to be transferred off-site for further re-use or processing:
 - i. (i) tires;
 - ii. (ii) scrap metal;
 - iii. (iii) White Goods and Refrigerant Appliances;
 - iv. (iv) clean woodwaste and leaf and yard waste;
 - v. (v) propane cylinders;
 - vi. (vi) batteries;
 - vii. (vi) Blue Box recycling wastes, limited to newspaper, clear and coloured glass, aluminum/tin cans and plastic containers, fabrics and fibers, and
 - viii. (vii) incidental hazardous waste recovered from the active face of the landfill.
- Additional wastes related to recycling and waste diversion from the landfill can be accepted and handled at the Site following written approval from the District Manager (Condition 21(b)).
- No liquid industrial waste or hazardous wastes as defined under O.Reg. 347, other than specified in Condition 21, shall be received at the Site (Condition 23).
 - a. The Municipality shall develop and implement a program to inspect waste to ensure that the waste received at the Site is of a type approved for acceptance under this Certificate (Condition 23(a)).
 - b. The Municipality shall ensure that all loads of waste are properly inspected by trained Site personnel prior to acceptance at the Site and that the waste vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Municipality shall notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence (Condition 23(b)).

At the time of the inspection, only solid non-hazardous waste was observed at the Site for landfilling. Only approved waste types were observed to be collected at the Site for the purpose of landfill diversion, and they were properly managed in accordance with the conditions of the ECA. Incidental hazardous waste received at the Site is stored in accordance with the ECA. This incidental hazardous waste is collected twice per year.

Staff at the Site inspect the incoming waste to ensure it is an approved waste type and direct the vehicles to the appropriate areas for disposal or transfer of the waste.

Condition 23(b) of the ECA also requires the Municipality to notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence. Mr. Hodson indicated that he acknowledged this requirement.

Municipal solid non-hazardous waste is currently being landfilled in stage 2 at the Site in a west to east direction. Staff indicated that this is covered at the end of each operating day using predominantly mulch, and sometimes sand. The

west corner of stage 2 still requires some more cover. Mr. Hodson indicated that this would be applied in the summer of 2018.

2.4 ACCESS CONTROL:

Specifics:

Conditions 49 through 57 of the ECA state the approved site access, site security and signs that are required to be installed and maintained at the Site.

SITE ACCESS

Condition 49 of the ECA states that the normal operating hours of the Site shall be as follows:

Public drop-off

- Wednesday - 8:00 am - 2:00 pm
- Saturday - 8:00 am - 2:00 pm

Municipal drop-off

- Monday through Saturday 7:00 am - 6:00 pm

Access to and exit from the Site for the transportation of waste shall only be permitted from Kohlsmith Road. The access road and on-site roads shall be provided and maintained so that vehicles hauling waste to and on the Site may travel readily and safely on any operating day (Condition 51).

The Municipality shall post visible signs along the traffic route providing clear directions to the Site (Condition 52).

At the time of the inspection, a sign was posted on the gate to the Site displaying the hours of operation, as indicated in Condition 49 of the ECA. There is a sign posted on the site attendant's office that displays an arrow that directs vehicles to approach the site attendant on the right side of the building.

SITE SECURITY

No waste shall be received, landfilled or removed from the Site unless a site supervisor or attendant is present and supervises the operations during the approved operating hours. The Site shall be closed when a site attendant is not present to supervise waste handling operations (Condition 53).

The Site shall be operated and maintained in a secure manner. During non-operating hours, the Site entrance/exit gate shall be locked and the Site shall be secured against access by unauthorized persons (Condition 54).

At the time of the inspection, staff confirmed that they are in compliance with these conditions of the ECA.

SIGNS

Condition 55 of the ECA requires a sign shall be installed and maintained at the main entrance/exit to the Site on which is legibly displayed the following up-to date information:

- (a) the name of the Site and the Municipality;
- (b) the number of the Certificate;
- (c) the normal hours of operation;
- (d) the allowable and prohibited waste types;
- (e) the telephone number to which complaints may be directed;
- (f) a twenty-four (24) hour emergency telephone number (if different from above); and
- (g) a warning against dumping outside the Site.

The Municipality shall install and maintain signs at the Site to direct vehicles to the working face, the recycling bins and the other disposal or storage areas designated for wastes requiring special handling procedures.

At the time of the inspection, signs were posted displaying the required information.

ADVERSE EFFECT

Conditions 58 through 64 of the ECA outline the requirements for litter, dust, noise, vermin and visual screening at the Site.

The Site shall be operated and maintained so that the operational impacts, including but not be limited to dust, litter, odour, contaminant emissions to the atmosphere, noise, vermin, vectors, animals and traffic, do not create an adverse effect.

Litter Control

The Municipality shall take all practical steps to prevent the escape of litter from the Site. If necessary, litter fencing shall be erected around the working area of the landfill and the storage of recyclable materials.

Litter shall be picked-up at the Site and along the access road in the vicinity of the Site once per week as described in Item 6 of Schedule "A".

Dust Control

The Municipality shall control fugitive dust emissions from the on-site sources including, but not be limited to the on-site roads, stockpiled cover material and closed landfill areas. If necessary, the major sources of dust shall be treated with water and/or dust suppression materials to minimize the overall dust emissions from the Site.

Noise

Noise from or related to the operation of the Site shall be kept to a minimum and in any event, the Municipality shall comply with the criteria set out in the Ministry's guideline entitled "Noise Guidelines for Landfill Sites".

Vermin

Vermin related to waste handling activities are to be adequately controlled at the Site. Should vermin become a problem, a licensed exterminator shall be engaged at a frequency necessary to bring the problem under control.

Visual Screening

The Municipality shall provide visual screening of the waste disposal activities undertaken at the Site from the traffic on Kohlsmith Road and from the residences that are located in the vicinity of the Site, in accordance with Item 2 of Schedule "A".

Condition 67 of the ECA states that scavenging at the Site is prohibited, except at the designated re-use area under the supervision of the Site attendant.

At the time of the inspection, staff indicated that litter is picked up regularly and dust suppressants are applied when needed, but there have been no problems with off-site dust impacts. There have also been no problems with noise or vermin; however, it was indicated that birds are occasionally a nuisance.

Staff created a berm, using sand, along the northern side of the Site to identify the 30m buffer. Staff indicated that the berm is more than 30m from the property line.

EMPLOYEES AND TRAINING

Condition 68 of the ECA outlines the requirement for a training plan to be developed and implemented by the Municipality for all employees that operate any aspect of the Site. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Certificate.

Mr. Hodson provided staff training records that satisfied this condition.

WEEKLY INSPECTIONS OF THE OPERATIONS

Conditions 69 and 70 of the ECA outline the inspection requirements for the Site.

Condition 69 states that an inspection of the entire Site and all equipment at the Site shall be conducted each week to ensure that: the Site is secure, that the operation of the Site is not causing any adverse effects on the environment and that the Site is being operated in compliance with this Certificate. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site, if needed.

The inspection day shall be determined prior to the commencement of the operations at the Site and may be changed following a written consent from the District Manager.

Condition 70 states the areas that need to be inspected.

At the time of the inspection, staff confirmed that inspections, as required, are completed. Proof of this was also provided via historical inspection checklists that staff have filled out.

COMPLAINTS PROCEDURE

Condition 83 of the ECA states that if at any time, the Municipality receives complaints regarding the operation of the Site, the Municipality shall respond to these complaints according to the following procedure:

- (a) The Municipality shall record and number each complaint, either electronically or in a log book, and shall include the following information: the nature of the complaint, the name, address and the telephone number of the complainant if the complainant will provide this information and the time and date of the complaint;
- (b) The Municipality, upon notification of the complaint, shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint and forward a formal reply to the complainant; and
- (c) The Municipality shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents.
- (d) A summary of the complaints and their resolutions shall be provided in the Annual Report.

The 2016 Annual Report states that no complaints or emergency situations were reported in 2016 and no significant operational issues were identified in 2016. At the time of the inspection, staff indicated that the Township has received no complaints about the Site.

RECORDS KEEPING

Daily Operations Records

Condition 88 of the ECA requires the Municipality to establish a daily operating report of the landfilling and waste diversion operations, in the form of a log or a dedicated electronic file.

At the time of the inspection, staff presented a daily checklist that is completed by the site attendant each day. This checklist includes the appropriate information as required in condition 88 of the ECA.

Inspections Records

Condition 89 of the ECA requires the Municipality to establish and maintain a written record of the weekly Site inspections as required by Conditions 69 and 70. This record shall be in the form of a log or a dedicated electronic file and it shall include, as a minimum, the following information:

- (a) date and time of inspection;
- (b) name, title and signature of trained personnel conducting the inspection;
- (c) a listing of all the areas inspected and any deficiencies observed; and
- (d) recommendations for remedial action and the completion date of such action.

At the time of the inspection, a copy of an inspection record, as required by Condition 89 of the ECA for the weekly inspections, was reviewed. The record included all the information required under Condition 89 of the ECA.

ANNUAL REPORT

Condition 92 of the ECA requires a written report on the development, operation and monitoring of the Site be completed annually (the "Annual Report"). The Annual Report shall be submitted to the District Manager no later than March 31st of the year following the period being reported upon.

Condition 93 of the ECA states that the Annual Report shall include the following:

- (a) calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the Site and a calculation of the total volume of Site capacity used during the reporting period;
- (b) site plan(s) showing the existing contours of the Site, areas of landfilling operations during the reporting period, areas of intended operation during the next reporting period, areas of excavation during the reporting period, the progress of final cover, vegetative cover, and any intermediate cover application, previously existing site facilities, facilities installed during the reporting period and site preparations and facilities planned for installation during the next

reporting period;

- (c) a calculation of the remaining approved capacity of the Site and an estimate of the remaining Site life;
- (d) summary of cover stock piling activities including use, timing, locations and erosion protection;
- (e) waste types and quantities recyclable/reusable wastes received and transferred off the Site;
- (f) destinations of recyclable/reusable wastes transferred off the Site;
- (g) types of waste and quantity transferred from the re-use area into the landfilling area;
- (h) summary of the woodwaste chipping activities undertaken at the Site
- (i) summary of litter pick-up and any dust suppression activities undertaken at the Site;
- (j) summary of maintenance and repairs performed on the equipment used at the Site;
- (k) summary of inspections undertaken at the Site;
- (l) summary of complaints received and actions taken to resolve them;
- (m) summary emergency situations and actions taken to address them; and
- (n) any environmental and operational problems and the mitigative actions taken;
- (o) any recommendations to minimize environmental impacts from the operation of the landfill and waste diversion areas to improve such operations in this regard;
- (p) the results and an interpretive analysis of the results of all leachate, groundwater and surface water monitoring, including an assessment of the need to amend the monitoring programs;
- (q) an assessment of the operation of the Site, the need to amend the design or operation of the Site, and the adequacy of and need to implement the contingency plans;
- (r) a report on the status of all monitoring wells and a statement as to compliance with O.Reg. 903; and
- (s) any other information required by the District Manager.

The 2016 Annual Report was received by the Ottawa District Office on March 31, 2017. Upon review of the 2016 Annual Report, it was determined that Condition 93 of the ECA is satisfied.

2.5 COVER MATERIAL:

Specifics:

COVERS

Conditions 43 through 48 of the ECA outline the requirements for daily, intermediate and final cover at the Site.

Waste shall be deposited in a manner that minimizes the exposure area at the landfill working face and it shall be compacted before the cover material is applied according to the procedure described in Item 6 of Schedule "A" (Condition 43).

Condition 44 states that cover material shall be applied over waste as follows:

Daily Cover:

- (i) At the end of each working day, the entire working face shall be covered with a minimum thickness of 150 mm of cover material.
- (ii) Clean permeable soil, wood chips, compost, contaminated soil and ground C&D waste may be used as proposed in Item 12 of Schedule "A".

Intermediate Cover:

- (i) In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 mm of cover material shall be placed.
- (ii) Only clean permeable soil shall be used for intermediate cover.

Final Cover:

- (i) If the landfilling operations at the Site do not proceed into Stage 2, the Municipality shall place 600 mm of soil final cover and 150 mm of top soil over waste landfilled in Stage 1.
- (ii) Fill areas shall be progressively completed and covered as landfill development reaches contours approved in this Certificate.
- (iii) Only clean permeable soil shall be used for final cover.
- (iv) Seeding of the final cover shall be undertaken in the next growing season following the placement of the final cover.
- (iv) Slopes of the final cover shall not be less than 5% or more than 25% to promote effective surface water run-off.

At the time of the inspection, staff indicated that chipped woodwaste (lumber and leaf and yard waste) and sand is used as daily cover material; wood chips are used more frequently during the winter months compared to sand. The sand originates from on-site.

2.6 WASTE BURNING:

Specifics:

Condition 42 of the ECA prohibits burning of waste at the Site, including woodwaste and brush. At the time of the inspection, staff indicated that no burning takes place at the Site. There was no evidence of burning observed.

2.7 GROUNDWATER/SURFACEWATER IMPACT:

Specifics:

Condition 71 of the ECA states that the Site shall be operated in such a way as to ensure compliance with the following

(a) Reasonable Use Guideline B-7 for the protection of the groundwater at the Site;

(b) Provincial Water Quality Objectives included in the July 1994 publication entitled *Water Management Policies, Guidelines, Provincial Water Quality Objectives*, as amended from time to time or limits set by the Regional Director, for the protection of the surface water at and off the Site.

Conditions 72 through 76 of the ECA outline the groundwater and surface water requirements.

Groundwater Impacts

The groundwater review of the 2016 Annual Monitoring Report by the ministry's Technical Support Section is currently underway; comments will be forwarded to the Township once the review is complete.

Surface Water Impacts

The surface water review of the 2016 Annual Monitoring Report by the ministry's Technical Support Section is currently underway; comments will be forwarded to the Township once the review is complete.

At the time of the inspection there were no leachate seeps observed.

CONTAMINANT ATTENUATION ZONE

Notice No. 2 of the ECA, dated July 21, 2014, revoked and replaced Condition 79(a) by adding seventeen hectares of Contaminant Attenuation Zone to the total Site area of 8 hectares.

The Municipality must continue to own the property rights to the Additional Buffer and the Contaminant Attenuation Zone for all of the contaminating life span of the Site.

Condition 80 of the ECA states that the Municipality shall ensure that the lands to be used as the Additional Buffer and Contaminant Attenuation Zones are registered on title with a Certificate of Requirement.

At the time of the inspection, staff indicated that this is accurate.

2.8 LEACHATE CONTROL SYSTEM:

Specifics:

There is no leachate control system in place at the Site. The Site functions as a naturally attenuating site.

2.9 METHANE GAS CONTROL SYSTEM:

Specifics:

There is no methane gas control system in place. Condition 65 of the ECA states that the Municipality shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible landfill gas accumulation. Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the Site, especially enclosed structures which at times are occupied by people.

At the time of the inspection, staff indicated that landfill gas monitoring is conducted in the on-Site buildings.

2.10 OTHER WASTES:

Specifics:

WASTE DIVERSION

Conditions 24 through 36 of the ECA outline the approved waste diversion activities at the Site.

Condition 24 states that the segregated wastes approved to be received and stored on Site for the purpose of recycling and/or landfill diversion shall be stored as follows:

(a) Blue Box recycling wastes shall be stored in bins;

- (b) scrap metal, including White Goods shall be stored in a managed stockpile;
- (c) brush, clean waste wood and leaf and yard waste shall be stored in a managed stockpile;
- (d) tires shall be stored in a managed stockpile;
- (e) propane tanks shall be stored in a storage bunker;
- (f) Refrigerant Appliances shall be stored in a storage bunker;
- (g) batteries shall be stored in a storage bunker;
- (h) incidental hazardous waste shall be stored in a contained pre-fabricated steel shipping container;
- (i) re-use wastes shall be stored within a contained trailer.

Condition 25 of the ECA states that the Municipality shall ensure that:

- (a) all bins and waste storage areas are clearly labelled;
- (b) all lids or doors on bins shall be kept closed during non-operating hours and during the high wind events; and
- (c) if necessary to prevent litter, waste storage areas shall be covered during the high winds events.

The Municipality shall ensure that brush, clean woodwaste and leaf and yard waste storage area is located with a minimum of 30-metre separation distance to the tree area, flammable materials, buildings and the waste footprint (Condition 26).

Condition 27 states that the Municipality shall provide a segregated area for the storage of Refrigerant Appliances so that the following are ensured:

- (a) all Refrigerant Appliances have been tagged to indicate that the refrigerant has been removed by a licensed technician. The tag number shall be recorded in the log book required by Condition 88 and shall remain affixed to the appliance until transferred from the Site; or
- (b) all Refrigerant Appliances accepted at the Site, which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, are stored segregated, in a clearly marked area, in an upright position and in a manner which allows for the safe handling at the Site; and
- (c) all Refrigerant Appliances received at the Site shall either have the refrigerant removed prior to being transferred from the Site or shall be shipped off-site only to facilities where the refrigerants can be removed by a licensed technician in accordance with O.Reg. 189.

The Municipality shall ensure that propane cylinders are stored in a single layer (i.e. no stacking), in a manner which prevents the cylinders from being knocked over or cylinder valves from breaking (Condition 28).

The Municipality shall ensure that batteries are stored in secure area apart from the other wastes and are stored in a single layer (i.e. no stacking), under a roof or cover and in a manner which provides for secondary containment in the event of leakage (Condition 29).

Storage of Incidental Hazardous Waste

Condition 30 of the ECA states that the Municipality shall ensure that the incidental hazardous waste is stored in a safe and secure manner, so that the storage does not interfere with any other activities undertaken at the Site and that the waste is properly handled, packaged or contained so as not to pose any threat to the general public, Site personnel and the environment.

No storage facilities other than those approved under this Certificate shall be used and fixed storage facilities shall not be moved, replaced or altered.

The incidental hazardous waste storage container shall be clearly marked indicating the type and nature of the hazardous waste stored. Smoking restrictions shall be adhered to and non-smoking signs shall be posted.

The incidental hazardous waste storage container shall be properly ventilated and shall be used and maintained in compliance with fire regulations, municipal by-laws and approvals and in accordance with Ministry of Labour guidelines.

The incidental hazardous waste storage container shall be maintained under lock and key with its access limited to trained Site personnel.

Observations:

At the time of the inspection, the following waste types were observed being diverted from the landfill

- tires (stockpiled)
- scrap metal (stored in roll-off containers that are collected by Barron Disposal Ltd.)

- white goods and refrigerant appliances (stored in one roll-off container)
- clean woodwaste and leaf and yard waste (stockpiled)
- chipped woodwaste and leaf and yard waste (stockpiled)
- propane cylinders (segregated in an area)
- waste electronics (hauled from the Site by Advantage Boring)
- Blue box recyclables (stored in roll-off containers)

All diverted material was segregated and stored in different areas on the Site. Signs were posted to indicate what type of waste should be deposited where.

At the time of the inspection, there were several refrigerant appliances being stored in a separated area awaiting refrigerant removal. Staff indicated that Mr. Evan Hutley (#052130) of Evan Hutley Environmental removes refrigerants when 100-150 units are stockpiled on-site.

At the time of the inspection, propane cylinders were observed stored in a single layer in an area surrounded on three sides with concrete.

There are two shipping containers located at the Site; one stores the yellow bags and recycling bins that are sold to residents and the other stores the gas and oil needed for the equipment on-site. Incidental hazardous waste, when received, is also stored in this container. The shipping container is clearly marked, well ventilated and kept under lock and key, as required by Condition 30 of the ECA.

The 2016 Annual Report states that a total of 461.48 tonnes of materials were diverted from landfilling in 2016.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

There are no remaining non-compliance issues related to this inspection.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

No

Specifics:

5.0 ACTION(S) REQUIRED

There are no actions required at this time.

6.0 OTHER INSPECTION FINDINGS

It is recommended that the Site install additional signs to more effectively direct traffic entering the site.

7.0 INCIDENT REPORT

Not Applicable

8.0 ATTACHMENTS

PREPARED BY:

Environmental Officer:

Name:

Alexander J Baker

District Office:

Ottawa District Office

Date:

2018/03/15

Signature

REVIEWED BY:

District Supervisor:

Name:

Tara MacDonald

District Office:

Ottawa District Office

Date:

2018/04/11

Signature:



File Storage Number:

SI RE RS KO 610

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



ROSS WASTE DISPOSAL SITE

Physical Address: 990 KOHLSMITH RD, ,
WHITEWATER REGION, ON K0J
1K0

INSPECTION REPORT

Entity: THE CORPORATION OF THE
TOWNSHIP OF WHITEWATER
REGION

Inspection Start Date: August 08, 2024

Site Inspection Date: August 08, 2024

Inspection End Date: September 03, 2024

Inspected By: Thandeka Ponalo

Badge #: 1943

Thandeka Ponalo

(signature)

INTRODUCTION

Purpose

On August 8, 2024, Environmental Compliance Officer Thandeka Ponalo, accompanied by Environmental Assistants Chloe Sy and Tram Nguyen, conducted an Open Landfill Site inspection at Ross Waste Disposal Site (site), located at 990 Kohlsmith Rd in the Township of Whitewater Region. The purpose of the Ministry's Open Landfill site inspection program is to ensure compliance with Ministry legislation, control documents and conformance with policy and guidelines pertinent to active landfill sites.

Specifically, this includes compliance and/or conformance with:

- The *Environmental Protection Act* (EPA);
- Ontario Regulation 232, Landfilling Sites (O. Reg. 232);
- Regulation 347 - General Waste Management;
- Ontario Regulation 101/94, Recycling and Composting of Municipal Waste;
- Environmental Compliance Approvals (ECA); and
- Orders (Provincial Officer's Orders and/or Director's Orders).

At time of the inspection, a site tour was conducted of the landfill and recycling area. A cursory review of pertinent files at the Ottawa District Office was conducted. The findings collected at time of the inspection and office file review have resulted in the writing of this inspection report.

NON-COMPLIANCE

The following item(s) have been identified as non-compliance, based on a "No" response captured for a legislative question(s). For additional information on each question see the Inspection Details section of the report.

Ministry Program: WASTE | **Regulated Activity:** Landfills

Item	Question	Compliance Response/Corrective Action(s)
NC-1	<p>Question ID: 949100</p> <p>Were the inspection questions sufficient to address other identified non-compliance items?</p>	<p>The following instances of non-compliance were also noted during the inspection:</p> <p>A review of the Annual Report showed that the Annual Report did not contain all the information required in Condition 93 of the ECA.</p> <p>ACTION</p> <p>1. The Annual Report shall include all the information required in Condition 93 of the ECA.</p> <p>Review this report for further details.</p>

RECOMMENDATIONS

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: WASTE | **Regulated Activity:** Landfills

Question ID	NOL 1	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the Open landfill site have an Environmental Compliance Approval (ECA)?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes ECA Number A413209 was issued on December 23, 2005, and amended on March 15, 2013, and July 21, 2014. The Township are proposing a redesign of the waste mound to accommodate a new access road, weigh scales and waste/recycling material storage facilities. The Annual Report states that the Township intends on filing an application to amend the ECA in 2024.			

Question ID	NOL 3	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA O. Reg. 232/98 3;			
Question: Does the holder of the landfill ECA own the entire site?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes The site is owned by the Township of Whitewater Region. It is approved for the establishment, use, and operation of a 5.4 ha landfilling site and waste transfer station within a 25 ha total site area.			

Question ID	NOL 4	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Does the landfill have a Contaminant Attenuation Zone (CAZ)?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

In 2007, the Township purchased the adjacent Rochon property (12.25 ha) for use as a CAZ. In 2009, the Township also purchased the Hawthorne farm (18.5 ha) located immediately east of the site, 4.52 ha of which is used as a part of the site's CAZ.

Question ID	NOL 9	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA O. Reg. 232/98 4 (1);			
Question: Does the holder of the landfill ECA own the property rights for the CAZ?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 12	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the landfill have a large enough Buffer Area as specified in the ECA or Regulation 232/98?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes The Buffer Zone requirements are outlined in Condition 77 of the ECA. The Township shall not landfill any more additional waste within the area considered the 30 m buffer between the 5.03 ha footprint and the property line as shown in Schedule A of the ECA.			

Question ID	NOL 13	Question Type	Information
Legislative Requirement(s): EPA 27 (1);			
Question: Are access roads and on-site roads provided so that vehicles hauling waste to and on the site may travel readily on any day under all normal weather conditions?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 51 of the ECA states that access to and exit from the site for the transportation of waste shall only be permitted from Kohlsmith Road. The access road and on-site roads shall be provided and maintained so that vehicles hauling waste to and from the site may travel readily and safely on any operating day.			

At time of the inspection, roads were observed to be in good condition. Township staff stated that calcium chloride flakes are used in the summer to control dust as needed. In the winter they utilize road salt and sand mixture.

Question ID	NOL 14	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is site access limited to times when an attendant is on duty?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 53 of the ECA states that no waste shall be received, landfilled or removed from the site unless a site supervisor or attendant is present and supervises the operations during the approved operating hours. The site shall be closed when a site attendant is not present to supervise waste handling operations. The site is open to the public on Wednesday and Saturday from 8 AM to 2 PM. When the site is open to the public, there are three site attendants present to supervisor activities at the site. On other operational days, a sign is posted at the gate notifying the public that the site is closed, and a site attendant is present to receive waste from curbside collection activities. Miller Waste Systems is contracted to complete curbside collection for the Township.			

Question ID	NOL 15	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the site only receive waste from within its approved service area?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 19 of the ECA states that only waste generated in the Township of Whitewater Region shall be accepted at the site. At time of the inspection, Township staff stated that residents are required to provide their driver's license to confirm residency in the Township. Cottagers provide tax documents to confirm residency. Contractors are required to fill out a form before waste can be received.			

Question ID	NOL 16	Question Type	Information
Legislative Requirement(s): Not Applicable			

Question:

Is the site required to have a ground water monitoring program by the ECA?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Yes

The requirements for the groundwater monitoring program are outlined in Conditions 71 and 73 to 76 of the ECA.

Question ID	NOL 17	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the site implementing the groundwater monitoring program as required by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes The Township is required to conduct two monitoring events in the spring and fall. The Annual Report states that two groundwater quality monitoring events were completed in June and October in 2023. The spring and fall monitoring consisted of the collection of static water levels and groundwater samples from twenty-eight monitoring points. It was noted that all wells are reported to be in working order except for BH-6B Shallow which was inaccessible (casing stuck shut) in 2023. The inaccessibility of this well should be addressed in 2024. Wells that are impacted by the landfill site include: BH-2 Shallow, BH-4 Shallow and Deep, BH-5, BH-6 Shallow, BH-7 Shallow and Deep, BH-9 Shallow and Deep, BH-12, and BH-13 Deep.			

Question ID	NOL 18	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA O. Reg. 232/98 25;			
Question: Are monitoring well samples taken and tested to determine the quality of the ground water?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 19	Question Type	Information
Legislative Requirement(s): Not Applicable			

Question:

Is the ministry concerned with the results of the samples that have been tested?

Compliance Response(s)/Corrective Action(s)/Observation(s):

No

The Annual Report states that the analytical results showed a diffuse plume present to the north that is characterized by decreasing chemical concentrations with separation distance from the fill area; however, elevated concentrations of selected parameters are present at wells BH-15 and BH-16. It was concluded that it appeared that other factors are affecting elevated levels at these outlying wells. Monitoring wells BH-15, BH-16, and BH-17 are used as RUC compliance wells.

The report states that values in 2023 were said to be low and did not reveal any significant increasing trends in concentration. The report also states that elevated parameters at monitoring station BH-16 appear to be either a result of the natural mineralization of the groundwater at this location or a result of impacts from external sources other than the landfill site.

The Annual Report has been submitted to the Technical Support Section for review.

Question ID	NOL 21	Question Type	Information
Legislative Requirement(s):			
Not Applicable			
Question:			
Is the site required to manage leachate by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s):			
No			
The site functions as a naturally attenuating site.			

Question ID	NOL 26	Question Type	Information
Legislative Requirement(s):			
Not Applicable			
Question:			
Is the site required to manage landfill gas by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s):			
Yes			
There is no methane gas control system in place. Condition 65 of the ECA states that the Township shall ensure that any buildings or structures at the site shall contain adequate ventilation systems to relieve any possible landfill gas accumulation. Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the site,			

especially enclosed structures which at times are occupied by people.

In 2011, a landfill gas monitoring program was established at the site. The Annual Report states that landfill gas measurements are collected from all wells and the on-site buildings. Results from sampling showed that all wells were non-detect except for BH-4 Shallow. The report states that the wells that showed the highest signs of leachate impact in groundwater samples also appear to show the presence of methane, CH₃ - an indicator of landfill gas. None of the on-site structures such as the office building or attendant's shelter were found to contain detectable quantities of methane at the time of sampling. The recommendation was to continue monitoring landfill gas at the site.

Question ID	NOL 31	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Is the site required to have a surface water monitoring program by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes The requirements for the surface water monitoring program are outlined in Conditions 71 and 72 of the ECA.			

Question ID	NOL 32	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the site implementing the surface water monitoring program as required by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes The site has three surface water stations: MVC (SW-2), SW-1, and BLC (SW-3). Samples are collected twice a year in the spring and fall following two (2) storm events. Samples are analyzed for the comprehensive list (Schedule 5, Column 3) of parameters for all four sampling events. A Volatile Organic Carbon (VOC) scan is completed once per year at SW-1. The Annual Report states that two regular surface water monitoring events were undertaken, and two additional surface water sampling events were undertaken following storm events. An additional surface water sampling event was completed in August 2023. The five (5) surface water monitoring events were completed in May, June, August, September, and October of 2023. The report states that the surface water samples were collected from sampling locations			

MVC, SW-1A, and BLC during all monitoring events with the exception of MVC, which could not be sampled in the spring, summer, fall, and the September storm event due to insufficient water. The spring and fall monitoring consisted of the collection of surface water samples from three (3) locations. Surface water samples were collected in 2023 from sampling locations SW-2 (MVC), SW-1A, and SW-3 (BLC). Water quality was assessed in relation to the Trigger Mechanism at monitoring location SW-1A.

Question ID	NOL 34	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Are there water quality concerns with the results of the samples that have been tested?			
Compliance Response(s)/Corrective Action(s)/Observation(s): No The Annual Report states that all parameters reveal concentrations less than PWQOs, CWQGs, and APVs with the exception of the following: <ul style="list-style-type: none"> - Surface Water Monitoring Station SW-1A: <ul style="list-style-type: none"> • Nitrate (3.97 mg/L, 5.52 mg/L, 7.21 mg/L, 7.5 mg/L, and 6.38 mg/L) –May (storm), June, August, September (Storm), and October • Total phosphorus (0.058 mg/L) – June - SW-2 (MVC): No flow in 2023 <ul style="list-style-type: none"> • No exceedances - Surface Water Monitoring Station SW-3 (BLC): <ul style="list-style-type: none"> • Nitrate (5.02 mg/L, 5.75 mg/L, and 4.09 mg/L) – June, August, and October • Unionized Ammonia (0.01917 mg/L and 0.02000 mg/L) – June and August The Annual Report concluded that although some elevated parameters have been noted, the data does not indicate any impact on the nearby surface water as a result of the landfilling activities. The Annual Report has been submitted to the Technical Support Section for review.			

Question ID	NOL 36	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is proper equipment available for the compaction of waste and applying cover material?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

The Township recently purchased a waste compactor for use at the site.

Question ID	NOL 37	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the landfill able to accurately determine the amount of waste received?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes The site has weigh scales adjacent to the site attendant's building and, they use topographical surveys to determine waste quantities received. The Annual Report states that based on a comparison of site surveys from November 2022 to November 2023, approximately 7,000 cubic metres of material was landfilled in 2023. An estimated 175,000 cubic metres of landfilling capacity, excluding final cover, remains from the approved design capacity of 375,400 cubic metres. The report concludes that with an assumed waste disposal rate of 8,500 cubic metres per year, the site life is approximately 20 (twenty) years.			

Question ID	NOL 38	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Are all disposal operations at the site adequately and continually supervised?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes In accordance with Condition 53 of the ECA, no waste is received, landfilled, or removed from the site unless a site attendant is present to supervise the operations.			

Question ID	NOL 39	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Does the landfill operator have a site inspection program as required by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Conditions 69, 70, 88 and 89 of the ECA outline the daily and weekly inspection requirements at the site. At time of the inspection, records were requested and provided. The inspection logs are stored on site as paper copies. However, Township staff stated that in the future they			

will begin scanning the inspection logs and storing them as digital records.

Question ID	NOL 40	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the landfill operator have a procedure in place to address issues identified by staff during the site inspection?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 41	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the waste being compacted adequately?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 42	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA O. Reg. 232/98 7;			
Question: Is Daily cover applied to the waste at the end of each working day or as otherwise specified in the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 44 of the ECA requires that at the end of each working day, the entire working face shall be covered with a minimum thickness of 150 mm of cover material. The site is approved to use clean permeable soil, wood chips, compost, contaminated soil, and ground construction and demolition (C&D) waste. The Annual Report states that clean permeable soil, wood chips, compost, contaminated soil and ground C&D waste are utilized as cover material. At time of the inspection, daily cover had been applied on the active face. It was observed that the area had litter because birds were digging up waste. This is discussed later in the report.			

Question ID	NOL 43	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Are procedures implemented to control rodents or other animals and insects at the site?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 58 of the ECA requires that the site shall be operated and maintained so that the operational impacts such as vermin, vectors and animals do not create an adverse effect. The site has issues with wild turkeys and seagulls digging up waste. The Township had previously used bang guns to scare them away, however, they no longer found them effective. At time of the inspection, the Township was evaluating the effectiveness of using blast mats on the active face to prevent the birds from digging up the waste. The effectiveness of the blast mats should be discussed in the subsequent annual monitoring reports.			

Question ID	NOL 44	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is site access restricted by use of a gate, fence, or physical barrier when the site is not operating?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes In accordance with Condition 54 of the ECA, the site entrance/exit has a gate that is locked when not operating. At time of the inspection, Township staff stated they were exploring extending the gate after a dumping incident.			

Question ID	NOL 45	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the waste disposal area adequately screened from public view?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes For visual screening, Austrian Pines were planted along the western property boundary and			

Jack Pine was planted along the southern property boundary (along Kohlsmith Road).

Question ID	NOL 46	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA O. Reg. 232/98 21;			
Question: Are daily records of site operations available at the site for at least the past 2 years or as otherwise required by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes At time of the inspection, daily records were requested and provided.			

Question ID	NOL 47	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Has the annual operations report been submitted to MECP or available on site as required by the ECA?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes In accordance with Condition 92 of the ECA, the 2023 Annual Report was submitted to the District Manager.			

Question ID	NOL 48	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1); EPA O. Reg. 232/98 23;			
Question: Is scavenging being prevented?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 51	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			

Question:

Is the landfill only accepting the types of waste that they are approved to receive?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Yes

Under Condition 20 of the ECA, the site is approved for the acceptance of solid non-hazardous waste limited to municipal waste for landfilling. Condition 21 of the ECA approves the following waste types for recycling and/or landfill diversion to be transferred off-site for further re-use or processing: tires; scrap metal; white goods and refrigerant appliances; clean woodwaste and leaf and yard waste; propane cylinders; batteries; blue box recycling wastes; and incidental hazardous waste recovered from the active face of the landfill.

The Annual Report states that the following types of wastes were received in 2023:

- Scrap Metal & Steel – 118.54 tonnes were collected and transferred to Barron Disposal Ltd. and Cash For Trash
- No record of propane cylinders received and removed from the site
- Refrigerants – a total of 141 refrigerated appliances were transferred offsite as scrap metal. The units were first drained and tagged by Evan Hutley Environmental prior to removal.
- Tires – 90.12 tonnes of tires were transferred to Trillium Tire and Cash For Trash
- WEEE – 8.02 tonnes of material were transferred offsite by Advantage Boring and sent to Redi Recycling all organized by EPRA
- No batteries or Incidental Hazardous Waste were received or transferred in 2023

A Household Hazardous Waste (HHW) collection event was held for Township residents on October 21, 2023, under supervision of Veolia.

At time of the inspection, Township staff stated that scrap metal, white goods and tires are now only been transferred to Cash For Trash. The Township will no longer accept propane tanks and will no longer hold HHW Days. Residents are directed to take their hazardous waste to Renfrew Landfill. Residents are also directed to take farm waste to M&R Feeds and Macewen Agricentre.

Question ID	NOL 52	Question Type	Information
Legislative Requirement(s):			
Not Applicable			
Question:			
Does the landfill have a waste refusal procedure in place to manage waste that arrives at the site that the site is not approved the accept?			
Compliance Response(s)/Corrective Action(s)/Observation(s):			
Yes			
In accordance with Condition 90 of the ECA, a record is kept in the daily operating logbook of			

all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

Question ID	NOL 53	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: is the waste refusal procedure being followed?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 54	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the landfill have a procedure in place to address and document spills and fires?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 84 states that any spills, fires, or other emergency situations shall be forthwith reported directly to the Ministry's Spills Action Centre (1-800-268-6060) and shall be cleaned up immediately. The ECA also requires that the Municipality shall submit to the District Manager a written report within three (3) business days of the emergency, outlining the nature of the incident, remedial measures taken, handling of waste generated as a result of the emergency and the measures taken to prevent future occurrences at the site. The Annual Report states that a small fire occurred on December 6, 2023, at the active waste disposal area that was reported as required by the ECA. No other accidents or incidents occurred in 2023 and 2024.			

Question ID	NOL 56	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Is there an ECA condition requiring financial assurance?			
Compliance Response(s)/Corrective Action(s)/Observation(s): No			

Financial assurance is not required for municipally operated waste disposal/transfer sites.

Question ID	NOL 59	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the landfill have a procedure in place to address complaints?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 83 of the ECA outlines the complaint procedure. The Annual Report states that no complaints were received in 2023. At time of the inspection, staff stated that no complaints have been received in 2024.			

Question ID	NOL 61	Question Type	Information
Legislative Requirement(s): EPA 27 (1);			
Question: Has the landfill operator developed a Design and Operations Manual?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 62	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Is the Design and Operations Manual up to date?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 63	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Does the landfill operator have training procedures for site personnel?			

Compliance Response(s)/Corrective Action(s)/Observation(s):

Yes

In accordance with Condition 68 of the ECA, a training plan has been developed and implemented by the Township for all employees that operate any aspect of the site. Regular training is undertaken and training records are stored. The Township will be updating their record retention to store training records in a digital database.

Question ID	NOL 64	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Is the landfill operator following the established training procedures?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes			

Question ID	NOL 65	Question Type	Legislative
Legislative Requirement(s): EPA 27 (1);			
Question: Has the Certificate of Requirement been registered on Title?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Yes Condition 80 of the ECA states that the Township shall ensure that the lands to be used as the Additional Buffer and Contaminant Attenuation Zones are registered on title with a Certificate of Requirement.			

Question ID	949100	Question Type	Legislative
Legislative Requirement(s): Not Applicable			
Question: Were the inspection questions sufficient to address other identified non-compliance items?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The following instances of non-compliance were also noted during the inspection: A review of the Annual Report showed that the Annual Report did not contain all the information required in Condition 93 of the ECA.			

ACTION

1. The Annual Report shall include all the information required in Condition 93 of the ECA.

Review this report for further details.

Condition 93 of the ECA requires that the Annual Report shall include the following:

- (h) summary of the woodwaste chipping activities undertaken;
- (i) summary of litter pick-up and any dust suppression activities undertaken;
- (j) summary of maintenance and repairs performed on the equipment used; and
- (k) summary of inspections undertaken at the site.

A review of the Annual Report showed that the report did not contain all the information required in Condition 93 of the ECA. The report did not contain information on the dust management, litter collection and woodwaste chipping activities at the site. The Annual Report states that there had been no problems with vermin, however, during the inspection it was found that the site had documented issues with wild turkeys and seagulls digging up waste, and that the Township was taking steps to address this.

Jp2g No. 17-6047H

September 17, 2024

Ministry of the Environment, Conservation and Parks
 2430 Don Reid Drive, Unit #103
 Ottawa, ON K1H 1E1

Attention: Thandeka Ponalo
 Environmental Compliance Officer

Re **Ross Landfill Site**
ECA No. A7091303
Township of Whitewater Region

Dear Thandeka,

We acknowledge receipt of the Site Inspection Report (SIR) dated September 3, 2024 and received by email September 4, 2024. The site inspection was conducted on August 8, 2024. In consultation with Township staff, we provide the following response to a comment identified as non-compliance/non-conformance which requires Action (reproduced for convenience).

SIR Question and Scope of Work	Response
<p>Item 949100 – Were the site inspection questions sufficient to address other identified non-compliance issues.</p> <p>A review of the Annual Report showed that the Annual Report did not contain all information in Condition 93 of the ECA.</p> <p>Action</p> <ol style="list-style-type: none"> The Annual Report shall include all the information required in Condition 93 of the ECA. <p>Condition 93 of the ECA requires that the Annual Report shall include the following:</p> <ul style="list-style-type: none"> (h) summary of the woodwaste chipping activities undertaken; (i) summary of litter pick-up and any dust suppression activities undertaken; (j) summary of maintenance and repairs performed on the equipment used; and (k) summary of inspections undertaken at the site. 	<ul style="list-style-type: none"> h) The 2023 Annual Report Section 3.1 indicated that the brush, leaf and yard waste, bulky and C&D waste was ground by Nad-Core August 2023. In future the Annual Report will include in the text the quantity of wood waste received from the Township weigh scale summary. i) Future Annual Reports will report on the litter pick up and dust control in Section 3.3. j) Maintenance and equipment repairs detail will be added to Section 3.3. k) Additional details to summarize the inspections completed by municipal staff will be included in Section 3.3.

A review of the Annual Report showed that the report did not contain all the information required in Condition 93 of the ECA. The report did not contain information on the dust management, litter collection and wood waste chipping activities at the site. The Annual Report states that there had been no problems with vermin, however, during the inspection it was found that the site had documented issues with wild turkeys and seagulls digging up waste, and the Township was taken steps to address this.

Future Annual Reports will discuss any problems with vector, vermin and bird control. The Township has implemented the use of mats to cover waste between application of cover material to address the birds.

Trusting this is satisfactory.

Yours truly,

Jp2g Consultants Inc.



Kevin Mooder, MCIP, RPP
Manager | Environmental Services

c.c. Deanna Nicholson, Environmental Services Superintendent

Appendix C

Compliance Summary Table

Ross Landfill Site ECA No. A413209
Dated December 23, 2005
Amended March 15, 2013 and July 21, 2014

No.	Condition	Statement of Compliance
1. - 10.	General terms and conditions.	Understood
11.	The municipality shall notify the Director and District Manager within 30 days of a change in ownership.	Understood
12.	No portion of the Site shall be transferred or encumbered unless the Director is notified in advance.	Understood
13.	Pursuant to Section 197 EPA, the Municipality shall ensure a copy of the Certificate is provided to each person acquiring interest in the site.	Understood
14.	The municipality shall: (a) Within 60 days submit 2 copies of a Certificate of Requirement to the Director for signature. (b) Within 10 days of receiving the signed Certificate of Requirement register and submitting it to the Director. (c) Within 10 days of receiving the signed Certificate of Requirement submit a copy to the District Manager.	Completed for the 12.25 ha Rochon CAZ, registered March 25, 2008 Hawthorne property filed with EAB
15.	The Municipality shall within 60 days of purchase or the easement agreement submit 2 copies of a Certificate of Requirement to the Director for signature. Same as 14(b) and (c).	Completed concurrently with above noted
16.	No person shall hinder or obstruct a Provincial Officer from carrying out inspections.	Understood
17.	Any information requested by MOE concerning the operation of the site shall be provided in a timely manner. Records shall be kept for the contaminating life of the site unless otherwise authorized in writing by the Director.	Understood
18.	The receipt of information or the future to prosecute in relation to the information shall not be construed as: (a) approval, waiver or justification by the Ministry for any act; (b) acceptance by the MOE	Understood
19.	Only waste that is generated in the Township of Whitewater Region shall be accepted at the Site.	Understood
20.	Only solid non-hazardous waste limited to municipal waste shall be accepted at the Site for landfilling.	Understood
21.(a)	The following types of waste are approved to be received: - tires; scrap metal; white goods and refrigerant appliances; clean wood waste and leaf and yard waste; propane cylinders; batteries; Blue Box recycling waste; incidental hazardous waste recovered from the active face of the landfill.	Understood

No.	Condition	Statement of Compliance
21.(b)	Additional wastes related to recycling and waste diversion from the landfill can be accepted and handled at the Site following a written approval from the District Manager.	Understood
22.	No liquid industrial waste or hazardous waste, other than specified in 21, shall be received at the Site.	Understood
23.(a)	The Municipality shall develop and implement a program to inspect waste to ensure that the waste received at the Site is of a type approved for acceptance;	Understood
23.(b)	The Municipality shall ensure the waste loads are inspected and vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Municipality shall notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence.	Attendant inspects at the scales Understood
24.	The segregated wastes approved to be received and stored on Site for the purpose of recycling and/or landfill diversion shall be stored as shown on Figure A, listed as Item #8 (f) on Schedule "A".	Included in revised D&O Report 2013, to be amended in 2025
25.	The Municipality shall ensure that all bins and waste storage areas are clearly labeled; lids and doors closed during non-operating hours.	Understood
26.	The Municipality shall ensure that brush, clean wood waste and leaf and yard waste storage area is located with a minimum of 30-metre separation distance to the tree area, flammable materials, buildings and the waste footprint.	Understood
27.	The Municipality shall provide a segregated area for the storage of Refrigerant Appliances so that the following are ensured:	In compliance
27.(a)	All Refrigerant Appliances have been tagged to indicate that the refrigerant has been removed by a licensed technician. The tag number shall be recorded in the logbook required by Condition 88 and shall remain affixed to the appliance until transferred from the Site; or	In compliance
27.(b)	All Refrigerant Appliances accepted at the Site, which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, are stored segregated, in a clearly marked area, in an upright position and in a manner which allows for safe handling at the Site; and	In compliance
27.(c)	All Refrigerant Appliances received at the Site shall either have the refrigerant removed prior to being transferred from the Site or shall be shipped off-site only to facilities where the refrigerants can be removed by a licensed technician in accordance with O.Reg. 189.	EH Environmental
28.	The Municipality shall ensure that propane cylinders are stored in a single layer (i.e. no stacking), in a manner which prevents the cylinders from being knocked over or cylinder valves from breaking.	In compliance

No.	Condition	Statement of Compliance
29.	The Municipality shall ensure that batteries are stored in a secure area apart from the other wastes and are stored in a single layer (i.e. no stacking), under a roof or cover and in a manner which provides for secondary containment in the event of leakage.	In compliance
30.(a)	The Municipality shall ensure that the incidental hazardous waste is stored in a safe and secure manner, so that the storage does not interfere with any other activities undertaken at the Site and that the waste is properly handled, packaged or contained so as not to pose any threat to the general public, Site personnel and the environment.	In compliance
30.(b)	No hazardous waste storage facilities other than those approved under this Certificate shall be used and fixed storage facilities shall not be moved, replaced or altered.	Understood
30.(c)	The incidental hazardous waste storage container shall be clearly marked indicating the type and nature of the hazardous waste stored. Smoking restrictions shall be adhered to and nonsmoking signs shall be posted.	Understood
30.(d)	The incidental hazardous waste storage container shall be properly ventilated and shall be used and maintained in compliance with fire regulations, municipal by-laws and approvals and in accordance with Ministry of Labour guidelines.	In compliance
30.(e)	The incidental hazardous waste storage container shall be maintained under lock and key with its access limited to trained Site personnel.	Understood
31.	The Municipality shall not undertake any changes to the waste storage facilities, without prior written consent from the District Manager.	Understood the recent changes approved
32.	Chipping of clean wood waste, brush and leaf and yard waste shall be undertaken in the location shown on Figure A, listed as Item #8 (f) on Schedule "A".	Revised in D&O Report 2013 to be amended in 2025
33.	Once per month, the waste collected in the re-use area shall be landfilled or moved to the wood waste, metal or Refrigerant Appliances storage areas.	Not in service
34.	<p>The Municipality shall transfer waste from the Site in accordance with the following:</p> <ul style="list-style-type: none"> (a) Blue Box recyclable waste shall be transferred off-site when their storage bins are full; (b) scrap metal, including the White Goods and Refrigerant Appliances from which the refrigerant has been removed, shall be transferred off-site at least twice per year; (c) tires shall be transferred off-site as soon as a load has accumulated; (d) propane cylinders shall be transferred off-site as soon as a load has accumulated; (e) transfer of all hazardous waste received at the Site shall be manifested in accordance with O. Reg. 347; and 	<p>In compliance</p> <p>Hazardous wastes directed to Town of Renfrew HHW depot</p>

No.	Condition	Statement of Compliance
	(f) immediately, in the event that waste is creating an odour, dust, vector or another adverse effect.	Understood
35.	The Municipality shall notify the appropriate contractors that waste and recyclable waste are to be transferred off the Site and are ready for removal. Appropriate notice time, as determined by the contract, shall be accommodated in the notification procedure.	Understood
36.	All waste collected shall be transported from the Site by an approved waste management system and disposed of at site certified to accept these types of wastes.	Understood
37.	The maximum theoretical approved waste disposal volume of the Site, consisting of the waste, daily cover and intermediate cover, but excluding the final cover is 434,340 cubic metres.	Understood
38.(a)	Notwithstanding Condition 37, this Certificate approves only the following: (i) waste landfilled at the Site to-date, including 10,066 cubic metres of waste, daily cover and intermediate cover already landfilled in the area designated as Stage 1 in Item 2 of Schedule "A", shown on Item 5(c) of Schedule "A"; (ii) future landfilling operations referred to as Stage 1 in Item 2 of Schedule "A", shown on Item 5(c) of Schedule "A" and having a total capacity of 45,869 cubic metres of waste, daily cover and intermediate cover.	Understood Stage 1 capacity was 49,869m ³ as per supporting documentation
38.(b)	Development and operation of Stage 2 is hereby approved in accordance with the Item 12 of Schedule "A". This amendment approves the development of 375,400 cubic meters which includes 119,100 cubic meters of existing waste.	Amended July 21, 2014
39.	Total amount of waste deposited at the Site as of January 1, 2013, is 119,100 cubic meters.	Amended July 21, 2014 Understood
40.	Waste shall be placed in accordance with the Item 12 of Schedule "A".	Amended July 21, 2014 Understood
41.	No waste shall be placed below Drawing No. 2 entitled "Cross Section A" dated January 28, 2013, or above the final contours for Stage 2 shown on Drawing No. 3 entitled "Proposed Final Contours" dated January 28, 2013 in the Design and Operations Report, Item 12 of Schedule "A".	Amended July 21, 2014 Understood
42.	Burning waste, including wood waste and brush at the Site is prohibited.	Understood
43.	Waste shall be deposited in a manner that minimizes the exposure area at the landfill working face and it shall be compacted before the cover material is applied according to the procedure described in Item 6 of Schedule "A".	Understood

No.	Condition	Statement of Compliance
44.	Cover material shall be applied over waste as follows:	44(a) (ii) Amended July 24, 2014
44.(a)	<p>Daily Cover</p> <p>(i) At the end of each working day, the entire working face shall be covered with a minimum thickness of 150mm of cover material.</p> <p>(ii) Clean permeable soil, wood chips, compost, contaminated soil and ground C&D waste may be used as proposed in Item 12 of Schedule "A".</p>	Understood proposing to use blast mats between cover applications
44.(b)	<p>Intermediate Cover</p> <p>(i) In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300mm of cover material shall be placed.</p> <p>(ii) Only clean permeable soil shall be used for intermediate cover.</p>	Understood
44.(c)	<p>Final Cover</p> <p>(i) If the landfilling operations at the Site do not proceed into Stage 2, the Municipality shall place 600mm of soil final cover and 150mm of topsoil over waste landfilled in Stage 1.</p> <p>(ii) Fill areas shall be progressively completed and covered as landfill development reached contours approved in this Certificate.</p> <p>(iii) Only clean permeable soil shall be used for final cover.</p> <p>(iv) Seeding of the final cover shall be undertaken in the next growing season following the placement of the final cover.</p> <p>(v) Slopes of the final cover shall be less than 5% or more than 25% to promote effective surface water run-off.</p>	Understood
45.	Where the existing intermediate cover material has eroded such that waste is exposed, the cover material shall be promptly replaced.	Understood
46.	The Municipality shall ensure that sufficient amount of cover material is available for use during the winter season.	In compliance
47.	Use of snow as daily cover is prohibited.	Understood
48.	Use of strontium residue waste from Timminco Metals as an alternative daily cover is prohibited.	Understood
49.(a)	<p>The normal operating hours of the Site shall be as follows:</p> <p>(i) <u>Public drop-off</u></p> <ul style="list-style-type: none"> - Wednesday - 8:00 a.m. - 2:00 p.m. - Saturday - 8:00 a.m. - 2:00 p.m. <p>(ii) <u>Municipal drop-off</u></p> <ul style="list-style-type: none"> - Monday through Saturday 7:00 a.m. - 6:00 p.m. 	Understood
49.(b)	The Municipality may provide alternative hours of operation providing that they are correctly posted at the Site gate, that suitable public notice is given of any change and that there are no objections or complaints from the public regarding the hours of operation.	Understood

No.	Condition	Statement of Compliance
49.(c)	The Municipality shall notify the District Manager of the new proposed operating hours fourteen (14) business days prior to their implementation. The notification shall include the details on the public notification undertaken by the Municipality and the public's response to the proposal.	Understood
50.	During non-operating hours, the Municipality may conduct equipment maintenance and on-site activities, as required, provided that these activities take place during the daylight hours.	Understood
51.(a)	Access to and exit from the Site for the transportation of waste shall only be permitted from Kohlsmith Road.	Understood
51.(b)	The access road and on-site roads shall be provided and maintained so that vehicles hauling waste to and on the Site may travel readily and safely on any operating day.	Understood
52.	The Municipality shall post visible signs along the traffic route providing clear directions to the Site.	Understood
53.	No waste shall be received, landfilled or removed from the Site unless a site supervisor or attendant is present and supervises the operations during the approved operating hours. The Site shall be closed when a site attendant is not present to supervise waste handling operations.	Understood
54.	The Site shall be operated and maintained in a secure manner. During non-operating hours, the Site entrance/exit gate shall be locked, and the Site shall be secured against access by unauthorized persons.	Understood
55.	A sign shall be installed and maintained at the main entrance/ exit to the Site.	In compliance
56.	The Municipality shall install and maintain signs at the Site to direct vehicles to the working face, the recycling bins and the other disposal or storage areas.	In compliance
57.	The Municipality shall regularly update the signs required by this Certificate.	Understood
58.	The Site shall be operated and maintained so that the operational impacts do not create an adverse effect.	Understood
59.(a)	The Municipality shall take all practical steps to prevent the escape of litter from the Site. If necessary, litter fencing shall be erected around the working area of the landfill and the storage of recyclable materials.	Understood
59.(b)	Litter shall be picked up at the Site and along the access road in the vicinity of the Site once per week as described in Item 6 of Schedule "A".	Understood
60.	The Municipality shall control fugitive dust emissions from the on-site sources.	Understood
61.	The Municipality shall ensure that reasonable efforts are made to keep the access road used by vehicles to leave the Site, free of mud, dirt and waste.	Understood

No.	Condition	Statement of Compliance
62.	Noise from or related to the operation of the Site shall be kept to a minimum and in any event, the Municipality shall comply with the criteria set out in the Ministry's guideline entitled " <u>Noise Guidelines for Landfill Sites</u> ".	Understood
63.	Vermin related to waste handling activities are to be adequately controlled at the Site. Should vermin become a problem, a licensed exterminator should be engaged at a frequency necessary to bring the problem under control.	Understood
64.	The Municipality shall provide visual screening of the waste disposal activities undertaken at the Site, in accordance with Item 2 of Schedule "A".	Tree planting enhancement in 2009 and 2010
65.	The Municipality shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible landfill gas accumulation. Routine monitoring for explosive methane gas levels shall be conducted.	Understood – Report filed May 27, 2011 Results in Annual Reports
66.	The Municipality shall construct berms and/or ditches that may be necessary to prevent extraneous surface water from contacting waste in the active working face or waste storage areas, which may create contaminated surface water run-off.	Understood
67.	Scavenging at the Site is prohibited, except at the designated re-use area and under the supervision of the Site attendant.	Understood
68.	A training plan for all employees that operate any aspect of the Site shall be developed and implemented by the Municipality. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Certificate.	WMIS and standard training by Township
69.(a)	An inspection of the entire Site and all equipment at the Site shall be conducted each week to ensure that: the Site is secure, that the operation of the Site is not causing any adverse effects on the environment and that the Site is being operated in compliance with this Certificate.	Understood
69.(b)	The inspection day shall be determined prior to the commencement of the operations at the Site and may be changed following a written consent from the District Manager.	Understood
70.	The areas to be inspected shall include the features listed in this Condition.	Understood
71.	The Site shall be operated in such a way as to ensure compliance with the Reasonable Use Guideline B-7 and Provincial Water Quality Objectives.	Understood
72.	Surface water monitoring program shall be in accordance with the documents in Schedule "A".	Amended July 21, 2014
73.	Groundwater monitoring program shall be in accordance with the documents in Schedule "A".	Amended July 21, 2014

No.	Condition	Statement of Compliance
74.	The Municipality shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.	In compliance
75.	Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.	BH-1 extensions
76.	Any groundwater monitoring wells included in the on-going monitoring program that is damaged shall be assessed, repaired, replaced, or decommissioned by the Municipality, as required.	BH-1 was decommissioned
76.(a)	The Municipality shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling such that no more than one regular sampling event is missed.	Understood
76.(b)	All monitoring wells which are no longer required as part of the groundwater monitoring program and have been approved by the District Manager for abandonment, shall be decommissioned by the Municipality. A report on the decommissioning of the well shall be included in the Annual Report.	Understood
77.	The Municipality shall not landfill any more additional waste within the area considered the 30-metre buffer between the 5.03 ha footprint and the property line shown on Drawing 3, entitled "Waste Disposal Site, Stage 1" listed as Item 5(c) of Schedule "A".	Understood
78.(a)	Within twelve (12) months from the date of this Certificate, the Municipality shall undertake closure of the area containing waste historically landfilled within the 30-metre buffer area.	Completed by Township in 2006 and 2010
78.(b)	The area to be closed shall be covered with the final cover as described in Condition 44(c).	Understood
79.(a)	Seventeen hectares of CAZ is hereby added to the total Site area of 8 hectares.	Amended July 21, 2014
79.(b)	The Municipality must continue to own the property rights to the CAZ for all of the contaminating life span of the Site.	Understood
79.(c)	The ownership of the property rights must include the right to discharge contaminants and access for purposes of testing, monitoring, intercepting contaminants and carrying out remedial work; and prevent the owner(s) of the land(s) in which the CAZ is located from development which would interfere with the function of the CAZ.	Understood
80.	The Municipality shall ensure that the written easement agreement, specified in Condition 79 includes an agreement of the property owner(s) of the land(s) required for the CAZ to register a Certificate of Requirement on title to the land(s).	The properties were purchased. Certificate of Requirement 12.25 ha done in March 2008

No.	Condition	Statement of Compliance
81.	Notwithstanding the establishment of the CAZ as approved by Condition 79(a), by March 31, 2015, the Municipality shall establish and submit to the Director for approval, the site-specific trigger mechanism program for the groundwater at the Site. Alternatively, the Municipality may propose Trigger Mechanism and Contingency Plans in the Annual Report and use the procedure in Condition 97 to obtain approval from the Director.	Amended July 21, 2014 Included in the 2014 Annual Report for District Manager approval before filing to the Director
82.	If monitoring results, investigative activities and application of the trigger criteria indicate the need to implement contingency measures, the Municipality shall ensure that appropriate steps are taken:	Understood
82.(a)	The District Manager shall be notified of the need to implement contingency measures in the next Annual Report that is to be submitted to the Ministry.	Understood
82.(b)	Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures and the implementation schedule shall be prepared and submitted to the Director for approval no later than six (6) months following the date that the contingency measures were judged necessary.	Understood
82.(c)	The contingency measures shall be implemented upon approval by the Director.	Understood
84.(a)	Any spills, fires or other emergency situations shall be reported directly to the Ministry's Spills Action Centre (1-800-268-6060) and shall be cleaned up immediately.	Understood
84.(b)	In addition, the Municipality shall submit to the District Manager a written report within three (3) business days of the emergency situation, outlining the nature of the incident, remedial measures taken, handling of waste generated as a result of the emergency situation and the measures taken to prevent future occurrence at the Site.	Understood
85.	All waste resulting from an emergency situation shall be managed and disposed of in accordance with O. Reg. 347.	Understood
86.	All equipment and materials required to handle the emergency situations shall be: (a) kept on hand at all times that waste landfilling and/or handling is undertaken at the Site; and (b) be adequately maintained and kept in good repair.	Understood
87.	The Municipality shall ensure that the emergency response personnel are familiar with the use of such equipment and its location(s).	Understood
88.	The Municipality shall establish daily operating reports of the landfilling and waste diversion operations, in the form of a log or a dedicated electronic file and it shall include, as a minimum, the information listed in this Condition.	In compliance

No.	Condition	Statement of Compliance
89.	The Municipality shall establish and maintain a written record of the weekly Site inspections as required by Condition 69 and 70. This record shall be in the form of a log or a dedicated electronic file and it shall include, as a minimum, the information listed in this Condition.	In compliance
90.	A record shall be kept in the daily operating logbook of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.	Understood
91.(a)	The Municipality shall retain all documentation listed in Schedule "A" for as long as this Certificate is valid.	Understood
91.(b)	The Municipality shall retain at the Site all records required by this Certificate for a minimum of two (2) years from the date of their creation.	Understood
91.(c)	As a minimum, the Municipality shall retain the employee training records for as long as the employee is working at the Site.	Understood
91.(d)	The Municipality shall make all of the above documents and records available for inspection upon request by the staff of the Ministry.	Understood
92.	A written report on the development, operation and monitoring of the Site shall be completed annually and submitted to the District Manager no later than March 31 st of the year following the period being reported upon.	Understood
93.	The Annual report shall include the information listed in this Condition.	Understood
94.	At least two (2) years prior to the anticipated date of closure of this Site, the Municipality shall submit to the Director for approval, with copies to the District Manager, a detailed site closure plan pertaining to the termination of landfilling operations at this Site, post-closure inspection, maintenance and monitoring and end use.	Understood
95.	The Site shall be closed in accordance with the closure plan as approved by the Director.	Understood
96.	Notwithstanding Condition 41, approval is hereby granted to deposit waste in Stage 1 until December 31, 2013.	Added March 15, 2013 Notice No. 1
97.(a)	The Owner may request to make changes to the monitoring program(s) to the District Manager in accordance with the recommendations of the annual report. The Owner shall make clear reference to the proposed changes in a separate letter that shall accompany the annual report.	Added July 21, 2014 Notice No. 2

No.	Condition	Statement of Compliance
97.(b)	Within fourteen (14) days of receiving the written correspondence from the District Manager confirming that the District Manager is in agreement with the proposed changes to the environmental monitoring program, the Owner shall forward a letter identifying the proposed changes and a copy of the correspondences from the District Manager and all other correspondences and responses related to the changes to the monitoring program, to the Director requesting the Approval be amended to approve the proposed changes to the environmental monitoring plan to implementation.	Added July 21, 2014 Notice No. 2
97.(c)	In the event any other changes to the environmental monitoring program and proposed outside of the recommendation of the annual report, the Owner shall follow current Ministry procedures for seeking approval for amending the Approval.	Added July 21, 2014 Notice No. 2 Ongoing discussion with TSS

This table should be read in conjunction with the entire Certificate as amended for details. The table has been prepared for the 2024 Annual Report and represents the best available information at the time of writing.

Part 2

2024 Monitoring Report