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2020 Annual Monitoring Report Escott Waste Disposal Site (A441703)

Prepared for The Corporation of the
Township of Leeds and thousand Islands



March 29, 2021



Appendix D-Monitoring and Screening Checklist General Information and Instructions

General Information: The checklist is to be completed, and submitted with the Monitoring Report.

Instructions: A complete checklist consists of:

- (a) a completed and signed checklist, including any additional pages of information which can be attached as needed to provide further details where indicated.
- (b) completed contact information for the Competent Environmental Practitioner (CEP)
- (c) self-declaration that CEP(s) meet(s) the qualifications as set out below and in Section 1.2 of the Technical Guidance Document.

Definition of Groundwater CEP:

For groundwater, the CEP must have expertise in hydrogeology and meet one of the following:

- (a) the person holds a licence, limited licence or temporary licence under the *Professional Engineers Act*; or
- (b) the person holds a certificate of registration under the *Professional Geoscientists Act, 2000* and is a practicing member, temporary, member or limited member of the Association of Professional Geoscientists of Ontario. O. Reg. 66/08, s. 2..

Definition of Surface water CEP:

A CEP for surface water assessments is a scientist, professional engineer or professional geoscientist as described in (a) and (b) above with demonstrated experience and post-secondary education, either a diploma or degree, in hydrology, aquatic ecology, limnology, aquatic biology, physical geography with specialization in surface water, and/or water resource management.

The type of scientific work that a CEP performs must be consistent with that person's education and experience. If an individual has appropriate training and credentials in both groundwater and surface water and is responsible for both areas of expertise, the CEP may then complete and validate both sections of the checklist.

Monitoring Report and Site Information	
Waste Disposal Site Name	Escott Waste Disposal Site
Location (e.g. street address, lot, concession)	Lot 8, 9, and 10, Broken front Concession in the Township of Leeds and the Thousand Islands
GPS Location (taken within the property boundary at front gate/ front entry)	442424.05 N, 755638.79 N
Municipality	Township of Leeds and Thousand Islands
Client and/or Site Owner	The Corporation of the Township of Leeds and Thousand Islands
Monitoring Period (Year)	2020
This Monitoring Report is being submitted under the following:	
Environmental Compliance Approval Number:	A441703
Director's Order No.:	N/A
Provincial Officer's Order No.:	N/A
Other:	N/A

Report Submission Frequency	<input checked="" type="radio"/> Annual <input type="radio"/> Other	Specify: March 31, 2021	
The site is: (Operation Status)	<input checked="" type="radio"/> Open <input type="radio"/> Inactive <input type="radio"/> Closed		
Does your Site have a Total Approved Capacity?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
If yes, please specify Total Approved Capacity	40,000	Units	Cubic Metres
Does your Site have a Maximum Approved Fill Rate?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
If yes, please specify Maximum Approved Fill Rate	N/A	Units	
Total Waste Received within Monitoring Period (Year)	649	Units	Cubic Metres
Total Waste Received within Monitoring Period (Year) Methodology	surveyed using a total station, compared to final contours		
Estimated Remaining Capacity	1804	Units	Cubic Metres
Estimated Remaining Capacity Methodology	difference between annual surveys and approved total capacity		
Estimated Remaining Capacity Date Last Determined	December 2020		
Non-Hazardous Approved Waste Types	<input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial, Commercial & Institutional (IC&I) <input type="checkbox"/> Source Separated Organics (Green Bin) <input type="checkbox"/> Tires	<input type="checkbox"/> Contaminated Soil <input type="checkbox"/> Wood Waste <input type="checkbox"/> Blue Box Material <input type="checkbox"/> Processed Organics <input checked="" type="checkbox"/> Leaf and Yard Waste	<input type="checkbox"/> Food Processing/Preparation Operations Waste <input type="checkbox"/> Hauled Sewage Other: <input type="text" value="Domestic and Non-hazardous solid industrial waste (per ECA)"/>
Subject Waste Approved Waste Classes: Hazardous & Liquid Industrial (separate waste classes by comma)			
Year Site Opened (enter the Calendar Year <u>only</u>)	unknown	Current ECA Issue Date	February 13, 2021
Is your Site required to submit Financial Assurance?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Describe how your Landfill is designed.	<input checked="" type="radio"/> Natural Attenuation only <input type="radio"/> Fully engineered Facility <input type="radio"/> Partially engineered Facility		
Does your Site have an approved Contaminant Attenuation Zone?	<input type="radio"/> Yes <input checked="" type="radio"/> No		

<p>If closed, specify C of A, control or authorizing document closure date:</p>	
<p>Has the nature of the operations at the site changed during this monitoring period?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>If yes, provide details:</p>	<p>Type Here</p>
<p>Have any measurements been taken since the last reporting period that indicate landfill gas volumes have exceeded the MOE limits for subsurface or adjacent buildings? (i.e. exceeded the LEL for methane)</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

Groundwater WDS Verification:

Based on all available information about the site and site knowledge, it is my opinion that:

Sampling and Monitoring Program Status:

<p>1) The monitoring program continues to effectively characterize site conditions and any groundwater discharges from the site. All monitoring wells are confirmed to be in good condition and are secure:</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p>	<p>Additional monitoring wells were installed in February 2020 and were sampled in 2020 as described in the report.</p>
<p>2) All groundwater, leachate and WDS gas sampling and monitoring for the monitoring period being reported on was successfully completed as required by Certificate(s) of Approval or other relevant authorizing/control document (s):</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>If no, list exceptions below or attach information.</p>

Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
OW-8R1	Dry conditions	October 20, 2020

3) a) Is landfill gas being monitored or controlled at the site?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
If yes to 3(a), please answer the next two questions below.		
b) Have any measurements been taken since the last reporting period that indicate landfill gas is present in the subsurface at levels exceeding criteria established for the site?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
c) Has the sampling and monitoring identified under 3(a) for the monitoring period being reported on was successfully completed in accordance with established protocols, frequencies, locations, and parameters developed as per the Technical Guidance Document: or MECP Concurrence (see report)	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable	If no, list exceptions below or attach additional information.
Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
4) All field work for groundwater investigations was done in accordance with standard operating procedures as established/outlined per the Technical Guidance Document (including internal/external QA/QC requirements) (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	<input checked="" type="radio"/> Yes <input type="radio"/> No	See report for details of SOP.

Sampling and Monitoring Program Results/WDS Conditions and Assessment:

<p>5) The site has an adequate buffer, Contaminant Attenuation Zone (CAZ) and/or contingency plan in place. Design and operational measures, including the size and configuration of any CAZ, are adequate to prevent potential human health impacts and impairment of the environment.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>The report recommends evaluating options for acquisition of additional CAZ.</p>	
<p>6) The site meets compliance and assessment criteria.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>See previous comment and report for details.</p>	
<p>7) The site continues to perform as anticipated. There have been no unusual trends/ changes in measured leachate and groundwater levels or concentrations.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>Lower water levels than expected were observed in the bedrock wells during the October sampling event.</p>	
<p>1) Is one or more of the following risk reduction practices in place at the site:</p> <p>(a) There is minimal reliance on natural attenuation of leachate due to the presence of an effective waste liner and active leachate collection/ treatment; or</p> <p>(b) There is a predictive monitoring program in place (modeled indicator concentrations projected over time for key locations); or</p> <p>(c) The site meets the following two conditions (typically achieved after 15 years or longer of site operation):</p> <p><i>i.</i> The site has developed stable leachate mound(s) and stable leachate plume geometry/concentrations; and</p> <p><i>ii.</i> Seasonal and annual water levels and water quality fluctuations are well understood.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	<p>Note which practice(s):</p>	<p><input type="checkbox"/> (a) <input type="checkbox"/> (b) <input type="checkbox"/> (c) As discussed in report.</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Not Applicable</p>	<p>See report.</p>	

Groundwater CEP Declaration:

I am a licensed professional Engineer or a registered professional geoscientist in Ontario with expertise in hydrogeology, as defined in Appendix D under Instructions. Where additional expertise was needed to evaluate the site monitoring data, I have relied on individuals who I believe to be experts in the relevant discipline, who have co-signed the compliance monitoring report or monitoring program status report, and who have provided evidence to me of their credentials.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed, as deemed appropriate for this Site in my professional judgement, the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended), and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analyzed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

The completion of this Checklist is a requirement of the MECP. As always, we rely upon the MECP to undertake a complete review the report(s) provided regarding the waste disposal site/landfill, and provide their comments and acceptance of our interpretation, conclusions and recommendations. The Checklist should in no way supersede the MECP's responsibility to undertake their complete review of our report(s) to ensure Site compliance with environmental regulations, standards and/or approvals. If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature and will be rectified for the next monitoring/reporting period. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

See MECP correspondence section of report

Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

<p><input checked="" type="radio"/> No changes to the monitoring program are recommended</p> <p><input type="radio"/> The following change(s) to the monitoring program is/are recommended:</p>	<p>See report.</p>
<p><input type="radio"/> No Changes to site design and operation are recommended</p> <p><input checked="" type="radio"/> The following change(s) to the site design and operation is/are recommended:</p>	<p>Evaluation of acquisition of additional CAZ is underway.</p>

Name:	John Pyke, P.Geo.		
Seal:	Add Image		
Signature:		Date:	March 31, 2021
CEP Contact Information:	John Pyke, P.Geo.		
Company:	Malroz Engineering Inc.		
Address:	308 Wellington St., 2nd Floor, Kingston ON		
Telephone No.:	613-548-3446 ext. 34	Fax No.:	Type Here
E-mail Address:	pyke@malroz.com		
Co-signers for additional expertise provided:			
Signature:	<input type="text"/>	Date:	Select Date
Signature:	<input type="text"/>	Date:	Select Date

Surface Water WDS Verification:

Provide the name of surface water body/bodies potentially receiving the WDS effluent and the approximate distance to the waterbody (including the nearest surface water body/bodies to the site):

Name (s)	unnamed creek, marshland
Distance(s)	north of the Site, south of the Site, see report for additional information

Based on all available information and site knowledge, it is my opinion that:

Sampling and Monitoring Program Status:

<p>1) The current surface water monitoring program continues to effectively characterize the surface water conditions, and includes data that relates upstream/background and downstream receiving water conditions:</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>		See report for discussion.
<p>2) All surface water sampling for the monitoring period being reported was successfully completed in accordance with the Certificate(s) of Approval or relevant authorizing/control document(s) (if applicable):</p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not applicable (No C of A, authorizing / control document applies)</p>		If no, specify below or provide details in an attachment.

Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
HBI	dry	October 20, 2020
Type Here	Type Here	Select Date

<p>3) a) Some or all surface water sampling and monitoring program requirements for the monitoring period have been established outside of a ministry C of A or authorizing/control document, or MECP concurrence.</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	
<p>b) If yes, all surface water sampling and monitoring identified under 3 (a) was successfully completed in accordance with the established program from the site, including sampling protocols, frequencies, locations and parameters) as developed per the Technical Guidance Document:</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> Not Applicable</p>	<p>If no, specify below or provide details in an attachment.</p>
<p>Surface Water Sampling Location</p>	<p>Description/Explanation for change (change in name or location, additions, deletions)</p>	<p>Date</p>
<p>Type Here</p>	<p>Type Here</p>	<p>Select Date</p>
<p>4) All field work for surface water investigations was done in accordance with standard operating procedures, including internal/external QA/QC requirements, as established/outlined as per the Technical Guidance Document, MOE 2010, or as amended. (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>See report for discussion.</p>

Sampling and Monitoring Program Results/WDS Conditions and Assessment:

5) The receiving water body meets surface water-related compliance criteria and assessment criteria: i.e., there are no exceedances of criteria, based on MECP legislation, regulations, Water Management Policies, Guidelines and Provincial Water Quality Objectives and other assessment criteria (e.g., CWQGs, APVs), as noted in Table A or Table B in the Technical Guidance Document (Section 4.6):

Yes

No

If no, list parameters that exceed criteria outlined above and the amount/percentage of the exceedance as per the table below or provide details in an attachment:

Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance or Assessment Criteria or Background Exceeded
e.g. Nickel	e.g. C of A limit, PWQO, background	e.g. X% above PWQO
Refer to Table 8 in Report	PWQO, Table A, Table B	See report for discussion.
6) In my opinion, any exceedances listed in Question 5 are the result of non-WDS related influences (such as background, road salting, sampling site conditions)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	See report for discussion:

<p>7) All monitoring program surface water parameter concentrations fall within a stable or decreasing trend. The site is not characterized by historical ranges of concentrations above assessment and compliance criteria.</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>See report for discussion. Surface water parameters generally fall within the historic range of results.</p>
<p>8) For the monitoring program parameters, does the water quality in the groundwater zones adjacent to surface water receivers exceed assessment or compliance criteria (e.g. , PWQOs, CWQGs, or toxicity values for aquatic biota (APVs)):</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> Not Known</p> <p><input type="radio"/> Not Applicable</p>	<p>See report for discussion.</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> Not Applicable</p>	<p>See report for discussion.</p>

Surface Water CEP Declaration:

I, the undersigned hereby declare that I am a Competent Environmental Practitioner as defined in Appendix D under Instructions, holding the necessary level of experience and education to design surface water monitoring and sampling programs, conduct appropriate surface water investigations and interpret the related data as it pertains to the site for this monitoring period.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed, as deemed appropriate for this Site in my professional judgement, the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MECP, 2010, or as amended) and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

The completion of this Checklist is a requirement of the MECP. As always, we rely upon the MOE to undertake a complete review the report(s) provided regarding the waste disposal site/landfill, and provide their comments and acceptance of our interpretation, conclusions and recommendations. This Checklist should in no way supersede the MECP responsibility to undertake their complete review of our report(s) to ensure compliance with environmental regulations, standards and approvals.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature or will be rectified for future monitoring events. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

See MECP correspondence section of the report

Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

<p><input checked="" type="radio"/> No Changes to the monitoring program are recommended</p> <p><input type="radio"/> The following change(s) to the monitoring program is/are recommended:</p>	<p>See report for discussion.</p>
<p><input type="radio"/> No changes to the site design and operation are recommended</p> <p><input checked="" type="radio"/> The following change(s) to the site design and operation is/are recommended:</p>	<p>Evaluation of options for acquisition of CAZ is recommended. See report for discussion.</p>

CEP Signature		
Relevant Discipline	Geoscientist with relevant experience and training.	
Date:	March 31, 2021	
CEP Contact Information:	John Pyke, P.Geo.	
Company:	Malroz Engineering Inc.	
Address:	308 Wellington St., 2nd Floor, Kingston ON	
Telephone No.:	613-548-3446 ext. 34	
Fax No. :	Type Here	
E-mail Address:	pyke@malroz.com	
Save As		Print Form

NOTICE TO READER

This document has been prepared by Malroz Engineering Inc. (Malroz) on behalf of the Township of Leeds and the Thousand Islands (TLTI) for the Escott Waste Disposal Site (WDS), in fulfilment of Condition 52 of Amended Provisional Certificate of Approval (CofA) No. A441703.

Malroz has relied upon TLTI staff to provide historic data upon which the current data interpretation and conceptual understanding of the Site are partially based. Malroz accepts no responsibility for the integrity of the data provided by TLTI or for missing data. Any third-party use or reliance of this report, or decisions made based on this report, are the responsibilities of the third party. Malroz accepts no responsibility for damages suffered by any third party as a result of decisions made or actions taken based on the contents of this report.

This document has been prepared for TLTI for submission to the Ministry of Environment, Conservation and Parks (MECP) as required by the Amended Environmental Compliance Approval (ECA). Unauthorized re-use of this document for any other purpose, or by third parties without the express written consent of Malroz shall be at such party's sole risk.

This page is an integral part of this document and must remain with it at all times.

Respectfully Submitted,

MALROZ ENGINEERING INC.


per: Camille Malcolm, M.Sc.
for Junior Environmental Scientist


and: John Pyke, P. Geo.
Project Manager



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Appendix I Laboratory Certificates of Analyses

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1.0 Introduction

The Escott waste disposal site (the Site) operates under amended provisional certificate of approval (CofA) No. A441703, issued by the Ministry of Environment, Conservation, and Parks (MECP) and dated October 4, 2020 (Appendix C). The MECP issued a Amended Environmental Compliance Approval (ECA) dated February 13, 2021 and, although it is not the governing ECA for this monitoring period, has been included in some discussions in this report (see Appendix C).

The Site is located on part of Lots 8, 9, and 10 Broken Front Concession in the Township of Leeds and the Thousand Islands (TLTI) and is depicted in Figure 1 (Appendix A). In accordance Section 6.8 of the ECA, an Annual Monitoring Report (AMR) is to be completed each year and submitted to the MECP by March 30 in the following calendar year.

Malroz was retained by TLTI to conduct the semi-annual monitoring of the groundwater and surface water, and report on the development and operations of the Site. This document presents our methodology, results, and analysis with respect to the ECA. This report was prepared on behalf of the TLTI, using data collected by Malroz and other available information provided by TLTI staff.

1.1 Ownership and Key Personnel

The Site is owned and maintained by the Corporation of the Township of Leeds and the Thousand Islands. Key contacts for the Site are as follows:

Municipal Contact

David Holliday
Director of Operations and Infrastructure
1233 Prince Street, P.O. Box 280
Lansdowne, Ontario, K0E 1L0
613-659-2415 ext. 211
directoroperations@townshipleeds.on.ca

Environmental Professional Contact

John Pyke, P. Geo.
Project Manager
308 Wellington St.
Kingston, Ontario, K7K 7A8

613-548-3446 ext. 34

pyke@malroz.com

2.0 Background

The geology, hydrogeology and hydrology of the Site are described in the sections below, based on our review of collected data including site observations and previous reports on investigations at the Site.

2.1 Geological Setting

Based on geological maps of the region, the geological setting at the Site consists of Precambrian metasedimentary rocks, including: paragneiss, pelitic and psammo-pelitic schists, and gneisses (Hewitt, 1964). The bedrock is considerably folded at the Site, dipping northwest by approximately 70 degrees (Hewitt, 1964). The bedrock to the northwest of the Site (at Escott centre) consists of Precambrian granitic gneiss, while bedrock southeast of Highway 401 is quartzite (Hewitt, 1964). Borehole logs from the Site suggest that bedrock is between 0.46 and 7.62 metres below grade (mbg), with increased depth to bedrock in the field north of the waste mound (Appendix D). Bedrock outcrops are visible in the southern portion of the Site near BW3 (Figure 2, Appendix A).

Overburden at the Site consists of brown, silty clay, silt, and clay, underlain by a greyish sandstone (Appendix D). These are likely glacial-lacustrine deposits (Hewitt, 1964). This is inconsistent with the OGS regional map No. 2054 by Jupe and Jackson (Hewitt, 1964). However, it is possible that structural folding in the area has influenced this discrepancy, as small local features are generally not included in a map of larger scale (1:126,720), such as OGS map No. 2054. The borehole log for BW1 also suggests that a thin (~2.4 metres) sandstone unit overlies the granite, which is consistent with the literature: Precambrian granitic is overlain by Ordovician sandstone and dolomite from the Beekmantown, Potsdam, or Nepean Formations (Hewitt, 1964). Borehole logs identified a red granite beneath the sandstone in the bedrock wells, and in some cases (BW2 and MW103) the sandstone was not observed.

2.2 Hydrogeologic Setting

Based on Malroz site observations and descriptions by previous consultants, the hydrogeological setting at the Site is separated into two zones: in the overburden and bedrock. The vertical relationship between the bedrock and overburden zones has not been fully characterized. Proximal overburden and bedrock wells (OW8R1 and BW3 respectively), located to the southwest of the waste mound show a downward gradient, suggesting a zone of recharge. To the north of the waste mound, overburden and

bedrock wells OW3 and BW1 have historically show a slight upward gradient indicating discharge. Results from 2020 indicate recharge in the vicinity of these wells indicating some variability. Further downgradient overburden and bedrock wells OW11-R1 and BW4 also show a slight upward gradient indicating bedrock is discharging to the overburden aquifer downgradient of the landfill.

According to the previous consultant, the overburden zone is not used as a source of potable water in the vicinity of the Site, and there are no reported uses of the overburden zone as a source of agricultural water in the vicinity of the Site (Day, 2015). We understand that the TLTI has received no reports stating otherwise since Day's report (2015). The agricultural field north of the waste fill area is reportedly tile-drained (draining towards the northeast) and discharges at Hickenbottom outlet which, in turn, drains into the wetland that feeds La Rue Mills Creek (Day, 2015). Two residential properties are within 500 m of the Site: the first is located about 300 m southwest and the other is approximately 500 m south (Jp2g, 2013). A residential bedrock well was formerly sampled as part of the monitoring program at the residence ~300 m southwest of the Site (then known as the 'MacDonald residence'). This sampling was discontinued prior to 2015 (historic chemistry suggests the last sampling year was 2012), and BW3 has since been considered a sentry well for the 'MacDonald residence'.

Based on the monitoring results from 2020, groundwater flows towards the north-east across a shallow gradient in both the overburden and bedrock (Figures 3a & 3b, Appendix A).

2.3 Surface Water Features

Based on site observations and previous reports, there are two streams running parallel (SW-NE) to and located on either side of the Site. The stream along the northern side (the north stream) of the Site is manmade and reportedly maintained for the purpose of draining excess water from the adjacent agricultural field (Day, 2015). The north stream passes under Escott Rockport Road via a culvert located at SW-4, and low flow conditions have historically been observed (SW-4).

The stream to the south of the Site (the south stream) passes through the wetland area located beyond the wooded area southeast of the Site. The south stream also passes under Escott Rockport Road via a culvert near SW-7. The south stream comprises a larger area than the north stream, however, lentic flow conditions have been historically observed at SW-7. The previous consultant reported that although the south stream is not anthropogenic, it is periodically cleaned to ensure positive drainage (Day, 2015). Malroz is not aware of any such activities taking place at the south stream. The previous

consultant also noted the presence of beaver populations and multiple active and inactive beaver dams along the stream (Day, 2015).

Based on site observations, Low lying areas are adjacent to the northwest and southeast of the waste mound. Surface water runoff from the mound collects in these areas and flows to the north towards the Hickenbottom Inlet.

During periods of high precipitation, a pond is present in the south portion of the Site near OW13 and OW7, and reportedly drains towards SW-6. During periods of low precipitation, this area and the small stream that flows from the area towards the south stream is dry.

2.4 MECP Correspondence

The MECP provided comments on the 2019 AMR in a memorandum dated July 16, 2020 (Appendix F). The reviewer provided the following concluding remarks, among others, related to surface water at the Site:

- i. Malroz recommends that SW-8 be improved (sic) to avoid sediment entrainment in the samples considering that:
 - o Impacts have not been observed in the south stream (ie. SW-8);
 - o SW8 is inferred to be upgradient of contaminated groundwater flow; and
 - o Collecting representative and flowing samples at SW-8 is often difficult.

I have no objection to the removal of SW8 (and associated background SW-7) from the surface water monitoring network.
- ii. Malroz recommends that the existing surface water monitoring program continue. I agree, except as noted above.

Comments related to the groundwater monitoring reported in the 2019 AMR were not received from the MECP at the time this report was prepared.

3.0 Development and Operations

3.1 Waste Disposal Site Description

The Site has an approved waste volume of 40,000 m³ (excluding final cover) and is actively landfilling non-hazardous waste materials from within Ward 3, Front of Escott in the TLTl. The current Site property boundary and fill area is shown on Figure 2 (Appendix A). A description of the Site operations including any changes made in 2020 is provided in the following sections.

3.2 Site Access

The Escott WDS is located on part of Lots 8, 9, 10, Broken Front Concession, in the Township of Leeds and the Thousand Islands (former Township of Front of Escott). The Site is located approximately 0.5 km north of Highway 401 and approximately 2.3 km northwest of the St. Lawrence River. Geodetic coordinates for the Site benchmark are as follows (2013 Site survey):

Zone:	NAD 83, 18T
Easting:	0424873.3 m (+/- 0.5 m)
Northing:	4917507.5 m (+/- 0.5 m)

Escott WDS can be accessed by Escott Rockport Road via either County Road 2 or the Thousand Islands Parkway.

3.3 Service Area

The WDS services residents of Ward 3 in the TLTI. It is one of three active waste disposal sites serving TLTI (along with Lansdowne and Lyndhurst/Briar Hill Landfills). The latest ECA (dated February 2021) will permit Escott WDS to recycle and transfer waste from within the TLTI. Permission for waste disposal remains restricted to Ward 3 residents.

3.4 Hours of Operation

Hours of operation are as follows:

Tuesday	8:30 a.m. - 4:45 p.m.
Saturday	8:30 a.m. - 4:45 p.m.

The entrance and exit gates are locked and no waste is received at the Site during non-operating hours. The Site is supervised by a site attendant during operating hours. A program is in place to inspect incoming waste loads for compliance.

3.5 Waste Characteristics

In accordance with the ECA, the Site is currently actively landfilling solid non-hazardous waste. The Site also accepts recycling materials, white goods, and metals only for bulking and subsequent transfer off-site. No liquid industrial or hazardous wastes are accepted at the Site. We understand that recyclable material, metals, white goods and tires are transferred off-site for further processing.

Bins for recycling materials were maintained at the subject site during 2020. Removal and processing of the recycling materials was completed by Manco Recycling Systems, who were recently acquired by Environmental 360 solutions (E360).

Tires are not accepted at the Escott Site. Users are directed to the Lansdowne WDS where the tires are recycled. Any tires dumped at the gates of the Site are stockpiled and shipped to the Lansdowne WDS for recycling.

3.6 Phasing of Site Usage

Cover material is not stockpiled at the Site. Material is brought to the Site during covering operations, placed on a compacted portion of the waste fill area and used within 48 hours.

3.7 Site Inspections

Site inspections are carried out during each day of operation (Tuesday and Saturdays) by the Site attendant and records of these inspections are included in Appendix G. No erosion or leachate springs were reported in 2020. Observations of birds, cats, rodents, and/or racoons were made on several occasions in 2020. Wind blown litter was also identified as a deficiency at the Site on several occasions: efforts to pick up windblown litter were noted. Ponding was reportedly observed at the Site following rain events, especially around the driving area. Gravel was added on March 7, 2020, to the drive-in area around the active fill area to increase drainage following the attendant's report of frequent ponding and safety concerns related to the resulting mud.

On February 22, 2020, the attendant noted that the staff shack had been broken into and reported it to the local police.

Towards the end of March 2020, attendants were instructed to stay in the shack due to safety concerns related to COVID-19. Consequently, fewer opportunities were available to pick up litter around the Site. Inspections of waste were limited to visual inspections only to adhere to physical distancing restrictions.

Escott WDS attendants refused several loads of waste originating from outside the township during 2020. On October 31, 2020, the attendant noted that a resident suffered a minor injury from a fall while unloading his recycling. It is unknown whether or not this fall was related to site conditions. No complaint was made by this resident.

During the Malroz inspections, staff noted that the entrance signage is beginning to show signs of degradation (Appendix H). Malroz also noted that signs at the Site do not direct vehicles to the working face, the recycling bins, and other disposal areas at the Site. We have provided this information to TLTI and recommend that this be addressed. During the fall inspection, staff noted that the road appeared to have been hit by a plow, however, the condition of the road remained satisfactory.

3.8 Record of Complaints

We understand that the Site received one complaint during the 2020 monitoring period. The complaint was made to the attendant on October 24, 2020, regarding the absence of stairs at the cardboard bin (for accessibility).

3.9 Method of Waste Disposal

The Escott Waste Disposal Site operates as an area fill site. On a bi-weekly basis, the waste is contoured, compacted, and covered with sand fill (Appendix G). E360 provides recycling bin rentals for the Site and provides pickup and processing services for recycling materials dropped off by TLTI residents. The Site has been approved to burn clean wood waste (ECA 23(b)), following the MECP's Guideline C-7 entitled "Burning at Landfill Sites". We understand, from discussion with TLTI personnel, that burning occurs once per month at the Site, weather permitting.

The WDS relies on natural attenuation. There are no engineered systems for leachate collection or storm water management, other than a ditch located along the north-western edge of the waste mound.

We understand that landfill gas migrating from the Site is not collected by an engineered gas system. In 2015, an elevated attendant's trailer was installed at the Site to ensure that gas does not accumulate within the enclosed space.

3.10 Record Keeping

Field notes and Site records are maintained at the Township offices, 1233 Prince Street, Lansdowne, Ontario. We understand that the TLTI has evaluated their record keeping practices and implemented a new logbook system at the Site beginning in April, 2019.

3.11 Remaining Site Capacity

The maximum volumetric capacity approved for the Site is 40,000 m³ as reported in Section 7.5 of the Amended ECA. This volume includes the waste, daily cover, and intermediate cover but excludes final cover.

In 2019 Malroz conducted a physical survey of the current waste contours and identified a remaining capacity of 2,453 m³. The survey conducted by Malroz on December 1, 2020, identified a total of 649 m³ of waste and interim cover had been added to the Site during the 2020 monitoring period (to date). Based on the 2020 survey and the fill rate (calculated as the average fill rate between 2014 and 2019), Malroz estimates a remaining capacity of 1,804 m³ and anticipates a remaining lifespan of 1.9 years. Waste contours are presented in Figure 4 (Appendix A).

A landfill closure plan was prepared by Malroz and submitted to the MECP for review in February 2020. The closure plan outlines the design data, environmental monitoring programs, pre-closure operations, closure plan, and transfer station design and operation plan for the subject site. The closure plan was accepted by the MECP and referenced in preparation of the amended ECA (February 13, 2021)

4.0 Drilling and Monitoring Well Installation and Abandonment

Additional groundwater characterisation including the installation of monitoring wells at the Escott WDS was coordinated by Malroz and undertaken on February 18 – 19, 2020 in accordance with our action plan dated April 10, 2018 and in follow up to a meeting between Malroz, the MECP, and TLTI staff on July 17, 2019. Drilling was originally scheduled to be conducted in 2018, however, work was unable to be completed until the necessary permission from the landowner had been obtained.

The purpose of the drilling program was to investigate potential leachate impacts to the overburden and bedrock aquifers beyond the northeastern extent of the landfill. Drilling included the installation of three shallow overburden wells (MW101, MW102, and MW104) and one deeper bedrock (MW103) well. The locations of the new wells are shown on Figure 2. Copies of the borehole logs and water well records are included in Appendix D.

The shallow overburden wells (MW101, MW102, and MW104) were installed to between approximately 4.4 and 6.7 mbg and the bedrock well (MW103) was installed to approximately at 7.5 mbg. Details regarding the soil stratigraphy were provided in the 2019 AMR.

At the time of drilling, Canadian Environmental also abandoned monitoring wells OW8 and OW11, which were removed from the monitoring program and replaced by OW8-R1 and OW11-R1 in 2015. Abandonment included removal of the piezometer, over-drilling,

and sealing the remaining hole with hydrated bentonite chips in accordance with O. Reg. 903.

5.0 Description of Monitoring Program

Groundwater and surface water monitoring are conducted on a semi-annual basis in the spring and fall, in accordance with the ECA. The current monitoring plan for the Site uses the Ontario Drinking Water Standards (ODWS) and the MECP B-7 Reasonable Use Policy to evaluate groundwater conditions and compliance. Provincial Water Quality Objectives (PWQO) and the Table A; Assessment Criteria and Table B: CWQG (MOE 2010) are used as reference criteria to evaluate surface water conditions and compliance. Field work occurred on April 14-15th and October 20th in 2020.

Groundwater and surface water programs are detailed below.

5.1 Groundwater Monitoring Program

The 2020 groundwater monitoring program consisted of nine overburden monitoring wells (OW3, OW4, OW5, OW7, OW8R1, OW11R1, OW12, OW13, and OW14) and four bedrock wells (BW1, BW2, BW3, and BW4). The groundwater monitoring program is detailed in Schedule 3 of the ECA (Appendix C). Newly installed wells (MW101, MW102, MW103, and MW104) were also monitored and sampled in 2020. A recommendation for their formal addition to the monitoring program was extended to the MECP and included in the amended ECA (see Appendix C).

Groundwater monitoring included collecting methane measurements, depth to water, depth to well bottom, and visual and olfactory evaluation of the groundwater. Methane concentrations were calculated based the difference between full gas response and responses in methane elimination mode using an RKI Eagle 2. Well inspection results are presented in Table 1 (Appendix B). Groundwater monitoring results are presented in Table 3 (Appendix B) and discussed in Section 6.0.

5.2 Surface Water Monitoring Program

There are six active surface water sampling stations located around the Site: SW-4, SW-5, SW-7, SW-8, HBO, HBI. The surface water monitoring program is detailed in Schedule 2 of the ECA (Appendix C). Results from the surface water monitoring are presented in Table 2 (Appendix B) and are discussed in Section 6.7.

5.3 Variations in Monitoring

Malroz followed the groundwater and surface water programs as specified in the ECA and in the Malroz letter dated July 12, 2019. Variations to the monitoring program in 2020 included the following:

- Unable to sample HBI in fall 2020 due to dry conditions;
- Unable to sample OW8R1 in fall 2020 due to dry conditions; and
- Monitored and sampled newly installed wells (MW101 through MW104) in addition to the required monitoring & sampling program.

5.4 Data Quality Evaluation

Samples were collected using laboratory supplied sample bottles containing preservatives appropriate for each parameter. Caduceon was commissioned to undertake the water analyses. Caduceon is a Canadian Association for Laboratory Accreditation (CALA) certified laboratory that uses industry recognized methods to conduct laboratory analyses.

Malroz completed field activities in accordance with standard operating protocols to ensure precise sample collection and reduce the risk of cross-contamination. Laboratory Certificates of Analysis are provided in Appendix I.

6.0 Discussion of Results

Results of the 2020 groundwater and surface water programs are presented in this section. Observed results have been compared to relevant criteria (see Section 5.0) and any observed exceedances are highlighted in the provided tables to allow for visual interpretation.

6.1 Well Inspection

Results of the well inspections are summarized in Table 1 (Appendix B).

Well inspections were undertaken by Malroz during the 2020 sampling events. The well inspection included a visual inspection of accessible portions of the well piezometer, casing, cap, lock, and well seal. Wells were labeled with one of the following conditions:

- Good – the well is in good condition with no maintenance required.
- Fair – exhibits some minor deficiencies, however well integrity is not compromised.
- Poor – well integrity is compromised and the well requires maintenance or abandonment.

Monitoring wells included in the monitoring program were found to be in good condition.

6.2 Landfill Gas and Water Level Monitoring

Results from groundwater monitoring are presented in Table 3 (Appendix B).

Methane concentrations in the monitored wells were generally below the instrument detection limits with the following exceptions:

- OW11R1 was reported at <1% of the Lower Explosive Limit (LEL) in the fall.

Groundwater elevation contours were interpolated based on depth to water measurements and well elevations. Results are presented in Figure 3a and 3b (Appendix A). Groundwater elevation data indicates a north to north easterly flow in the overburden consistent with historical results. Bedrock groundwater elevation data indicates a slight (<0.5 m gradient) north easterly flow in the bedrock towards BW4. Historically, greater hydraulic gradients have been present within the bedrock groundwater unit (up to 1.3 m) and flow has inferred to be north. Differences in hydraulic gradients and flow directions observed may be related to lower bedrock groundwater elevations (between 1 and 2 metres below typical levels) observed on October 20, 2020. Results from future monitoring events should be reviewed to determine if the 2020 data is anomalous or representative of a change in the conceptual site model.

Results of the groundwater monitoring in the nested overburden and bedrock wells indicated a downward vertical gradient in the vicinity of BW3 and OW8-R1 and BW1 and OW3. Upward vertical gradients were observed at BW4 and OW11R1 in the spring with downward gradients observed in the fall.

6.3 Overburden Groundwater Summary

Results of the overburden groundwater analyses are presented in Table 4 (Appendix B). The background groundwater quality in the overburden has historically been characterized by monitoring well OW8R1 (and previously by OW8). Results indicate that the background overburden groundwater is characterized by elevated hardness at concentrations above the ODWS. Intermittent exceedances of the ODWS for DOC, TDS, aluminum, iron, and manganese have also been reported historically in the background.

The following parameters are used as leachate indicators (LIPs) at the Site, according to Schedule A of the ECA: alkalinity, ammonia, BOD, chloride, conductivity, DOC, hardness, TKN, pH, sodium, sulphate, TDS, aluminum, iron, and manganese. In the effort to make the analysis more concise, a reduced list of LIPs was proposed and adopted in 2019, which comprised the following parameters: ammonia, chloride, iron, and manganese.

Monitoring well OW14 has historically been used to characterize the leachate at the Site. Monitoring well OW14 exceeded the ODWS criteria in 2020, during one or more sampling event, for the following parameters: alkalinity, DOC, hardness, TDS, aluminum, iron, manganese, and uranium. Uranium concentrations were also detected at OW14, MW102, and MW103 in 2020. It is possible that the uranium is derived from the bedrock, as concentrations between 3 and 25 ug/L are reported in the Precambrian rock in the Gananoque area (Hamilton, 2015). Considering the uranium results are lower, and meet compliance criteria, at interim wells MW101, OW11R1, BW1, and BW4, elevated uranium concentrations in the agricultural field north of the Site may be impacted by local geologic features and are not necessarily leachate related.

Downgradient well OW11R1 shows evidence of leachate impacts with elevated concentrations of LIPs ammonia, chloride, iron, and manganese when compared to background during both spring and fall 2020. Concentrations of leachate indicators decreased at OW11R1 when compared to leachate monitoring well OW14, suggesting attenuation is occurring. Monitoring wells OW3, MW101, and MW102 each exhibited minor leachate impacts during one or more sampling event in 2020 but at concentrations below those in the leachate well and downgradient well OW11-R1. Iron concentrations (spring sampling event only) were slightly elevated at MW104 when compared to background. However, concentrations of iron in MW102, located between MW104 and the waste mound were below the detection limit. Concentrations of other LIPs (ammonia, chloride, and manganese) at MW104 do not indicate leachate impacts. Based on the foregoing, iron concentrations at MW104 may be anomalous or anthropogenic in nature. Concentrations of iron are highly variable at MW101, MW104, and OW3, and OW13 indicating seasonal variability.

Concentrations of LIPs at OW3, MW101, and MW102) suggest leachate may be present, but attenuation is occurring downgradient from the waste mound.

Exceedances of ODWS criteria in the overburden wells were noted during 2020, for alkalinity, DOC, hardness, TDS, aluminum, iron, manganese, and uranium. Most of these exceedances were also observed within the leachate well (OW14) or related to background conditions (DOC, hardness). These results are similar to previous years.

6.4 Bedrock Groundwater Summary

Bedrock groundwater analyses are presented in Tables 5 and 6 (Appendix B).

Bedrock groundwater quality at the Site is characterized by wells BW1, BW2, BW3, BW4, and MW103. Monitoring well BW3 has been historically used to characterize the background quality at the Site. Background groundwater quality at BW3 is characterized by elevated concentrations of hardness and DOC, which has historically and occasionally exceeded the ODWS.

BW1 was used to monitor leachate within the bedrock. BW1 exhibits elevated levels of LIPs (ammonia, chloride, iron, and manganese), several of which exceed the ODWS criteria.

Elevated LIPs were detected at BW4 when compared to background, suggesting leachate impacts. Slightly elevated LIPs at monitoring wells BW2 and MW103 suggest minor leachate impact although the lower concentration between BW4 and MW103 suggests that attenuation is occurring. Elevated chloride was also detected in the background well BW3, which suggest background loading of chloride in 2020. Groundwater trends of LIPs are presented in Appendix J. These trends show general stabilization or reduction of LIPs at the Site over time. The historical iron trend suggests potential increase in iron levels at leachate wells, however, this is contrasted by a similar decrease in iron levels at compliance well BW4 (refer to Appendix J).

The following parameters showed exceedances of ODWS criteria at one or more bedrock monitoring wells during 2020: alkalinity, DOC, hardness, TDS, aluminum, iron, manganese, and uranium. These parameters represent aesthetic or operational objectives. Uranium was discussed above in section 6.3 (previous section).

6.5 VOC analyses

VOC analyses was conducted in 2020, as per the monitoring program. VOC samples were collected at BW1 and OW14 (leachates wells) during the spring sampling event. Results were below detection limit with exception of benzene at OW14, however, this result was below the ODWS criteria. Results are presented in Table 6 (Appendix B).

6.6 Reasonable Use Policy

The Reasonable Use Policy was used to assess compliance of the groundwater quality at the Site with MECP Guideline B-7 “Incorporation of the Reasonable Use Concept into MECP Groundwater Management Activities”. Reasonable Use Limits (RULs) were calculated for the analyzed parameters using background groundwater concentrations and corresponding drinking water criteria (see Table 7, Appendix B).

Monitoring wells OW11R1, OW3 and OW12, as well as BW2 and BW4, were identified as compliance wells for overburden and bedrock groundwater (respectively). There are no known domestic wells downgradient, within 500 m of the Site.

The following RUL exceedances were reported in 2020:

<u>Parameter</u>	<u>Spring</u>	<u>Fall</u>
DOC		BW2, BW4, OW11-R1
Hardness	BW4, OW3, OW11-R1, OW12	BW4, OW3, OW11-R1, OW12
TDS	BW4	
Aluminum	BW4, OW3	
Iron	BW4, OW3, OW11-R1	BW4, OW11-R1
Manganese	BW2, BW4, OW3, OW11R1	BW2, BW4, OW11-R1
Uranium	BW4, OW11-R1	BW4, OW11-R1

Exceedances of RULs are discussed below:

- Hardness, DOC, aluminum, and manganese are operational or aesthetic objectives.
- Exceedances of RULs for hardness and aluminum may be influenced by non leachate factors such as background contributions from the bedrock and/or soils common to the area.
- The uranium exceedance may be influenced by bedrock composition, as mentioned above (section 6.3).
- Exceedances of RUL for iron and manganese may be leachate related, however other leachate indicators meet the RULs, suggesting elevated metals at BW4 and OW11R1 may not be, in whole or in part, leachate related.

Exceedances of RULs suggest that the Site is non-compliant with MECP Guideline B-7. However, the absence of domestic wells downgradient, within 500 m of the Site indicates that, at this time, the Site does not pose a threat to human health.

Further investigation of the groundwater in both the bedrock and overburden was initiated in early 2020. A preliminary evaluation of results from the newly installed wells from 2020 (MW101, MW102, and MW104) against the RULs was conducted to evaluate potential compliance further down-gradient.

The following exceedances of the RULs were identified in the new wells:

<u>Parameter</u>	<u>Spring</u>	<u>Fall</u>
Hardness	MW101, MW102	MW101, MW102
Aluminum	MW104	
Iron	MW104	MW101
Manganese	MW101, MW102	MW101, MW102
Uranium	MW101, MW102	MW101, MW102

Results indicate potential leachate impacts at MW101. RUL exceedances appear to be variable between MW102 and MW104 indicating leachate impacts either do not extend to MW104 or are not leachate-related given their absence at MW102. Further monitoring should be undertaken to confirm these results and to evaluate the extent of land that may be required to be purchased to achieve compliance with the RUP. We recommend discussion of these interpretations with the MECP in 2021.

6.7 Surface Water Summary

The surface water monitoring program at the Site is characterized by six sampling stations: SW-4, SW-5, SW-7, SW-8, HBO, and HBI. Coordinates (UTM) for each of the surface water stations are presented in Table 2 (Appendix B). Results of the surface water analyses are presented in Table 8 (Appendix B).

Surface water analysis was completed using the Provincial Water Quality Objectives (PWQO) and the Table A: Assessment Criteria and Table B: CWQG criteria (MOE 2010).

There are three main surface water features at and around the Site. For the purposes of describing the chemical character of each surface water feature, the following section will interpret the north stream, south stream, and Hickenbottom stream separately.

South Stream

The south stream is approximately 330 meters south of the waste pile. The flow direction of the stream is to the northeast. Sampling stations SW-7 and SW-8 are located along this stream. SW-7 is used to characterize the background due to its up-stream location. It should be noted that SW-7 is also located next to the main road (Escott Rockport Road) in a more open, less vegetated part of the stream. The background surface water has historically exhibited elevated levels of iron, copper, and total phosphorous above the PWQOs. Periodic spikes of various metals including lead, tungsten, vanadium, and zinc have been reported at SW-7.

Results of downstream surface water station SW-8 showed similar levels of LIPs when compared to background. Elevated chloride concentrations in SW-7 support the inference made from groundwater observations of potential background loading. Iron concentrations in the south stream in 2020 were elevated (in both SW-7 and SW-8), exceeding both the PWQO and Table A Assessment Criteria for Waste Disposal Sites. The results at SW-8 were slightly elevated when compared to background, however, the absence of similar trend in other LIPs suggest that this may not be leachate related. Iron results are below historical data and may be the product of natural variability in surface water quality in the local area (refer to Appendix J). Varying redox conditions attributed to the lentic nature of the creek at this location may also be influencing iron results.

Results from sampling in 2020 do not indicate landfill related leachate impacts to the south stream.

North Stream

The north stream is located approximately 75 m to the northwest of the waste pile. The flow direction is to the northeast. Sampling station SW-4 is used to characterize the background due to its up-stream location (SW-5 is located downstream). Background quality of the north stream showed exceedances of PWQO during one of more sampling event in 2020 for the following parameters: total phosphorous, aluminum, copper, iron, vanadium, and dissolved oxygen (field). Concentrations of iron exceeded the Table A Assessment Criteria, and concentrations of nitrate, and cadmium exceeded the Table B: CWQGs.

Results from downstream station SW-5 were generally consistent with the background station (SW-4) in 2019. Iron concentrations at downgradient station SW5 show elevated concentrations of iron compared to background in the fall event. Spikes of iron concentrations have historically been reported at background station SW-4, and iron results from SW-5 in 2020 are within the historic range at SW-4. Results do not indicate landfill related leachate impacts to the north stream.

Hickenbottom Stream

Hickenbottom Inlet (HBI) is located northeast of the waste fill area and is upstream of the tile that drains the agricultural field north of the Site. Hickenbottom Outlet (HBO) is located northeast of the Site in an agricultural field, where the drainage tile discharges into a manmade ditch that flows towards La Rue Mills Creek.

The Hickenbottom Stream exceeded PWQO for the following parameters: total phosphorous, boron, copper, and iron. Iron concentrations exceeded the Table A: Assessment Criteria and concentrations of nitrate, and cadmium exceeded the Table B ODWS on one or more occasion in 2020. Results for LIPs suggest natural attenuation is occurring between HBI and HBO. Concentrations of LIPs at HBO are comparable to background concentrations at both SW-4 and SW-7.

7.0 Conclusions & Recommendations

The Escott WDS is an active site currently accepting non-hazardous solid waste. A Closure Plan is currently being completed for the Site, and the estimated life span is approximately 1.9 years.

Water level monitoring results indicate a general northeasterly groundwater flow direction in both the overburden and bedrock. Low bedrock groundwater elevations were observed in October, 2020 at the site. Attenuation of the leachate in the subsurface appears to be occurring.

MECP Guideline B-7 has been applied to the Site. Results indicate that wells OW11R1 and BW4 have exceeded the RULs for a number of parameters, suggesting the Site does not conform to MECP Guideline B-7 along the north property boundary (at OW11-R1). Some RUL exceedances were also observed at wells OW3, OW12, and BW2.

Considering that there are no identified domestic wells downgradient and within 500 m of the Site, and considering the inferred occurrence of natural attenuation, we believe there is currently no immediate threat to human health from the leachate at Escott WDS.

Additional groundwater investigation was undertaken starting in February 2020 to further characterize groundwater conditions at the northern extent of the WDS and beyond. Results from the newly installed wells do not indicate leachate impacts in the groundwater extend beyond MW102 and MW104. These wells may serve as future compliance wells following acquisitions of lands between the wells and the landfill as CAZ.

Surface water stations in our opinion do not show significant evidence of leachate impact.

The following recommendations are offered:

1. Monitoring should continue twice per year in conformance with the Amended ECA.
2. Conduct VOC analyses in the spring every two (2) years, at monitoring wells OW14 and BW1, as recommended by the MECP (next sampling will occur in 2022).
3. Collect groundwater samples at the newly installed monitoring wells (MW101, MW102, MW103, MW104). These newly installed wells have been included in the Amended ECA.
4. Discussion of additional groundwater investigation with the MECP and evaluate options for acquisition of additional CAZ between the WDS and MW104.
5. Repair degraded signage at the Site and obtain necessary signs and labelling to ensure compliance with condition 28 of the ECA.
6. Evaluate the need for a trigger mechanism following evaluation of the additional site characterisation data.

8.0 References

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Provincial Water Quality Objectives (PWQO) from the Ministry of Environment and Energy's Water Management Policies & Guidelines, July 1994.


Technical Guidance Document: Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water. Ministry of the Environment, November 2010.

Appendix A

Figures



Legend

 approximate property boundary

Note: Figure based on Malroz field observations and Google Earth imagery

Rev	Date	Description	By	Chkd
0	21/03/30	issued in final	ZL	AP

Site Location Plan

2020 Annual Monitoring Report
 Escott WDS - A441703
 Township of Leeds and the Thousand Islands

File: 1038-120.00

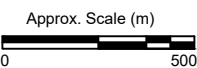
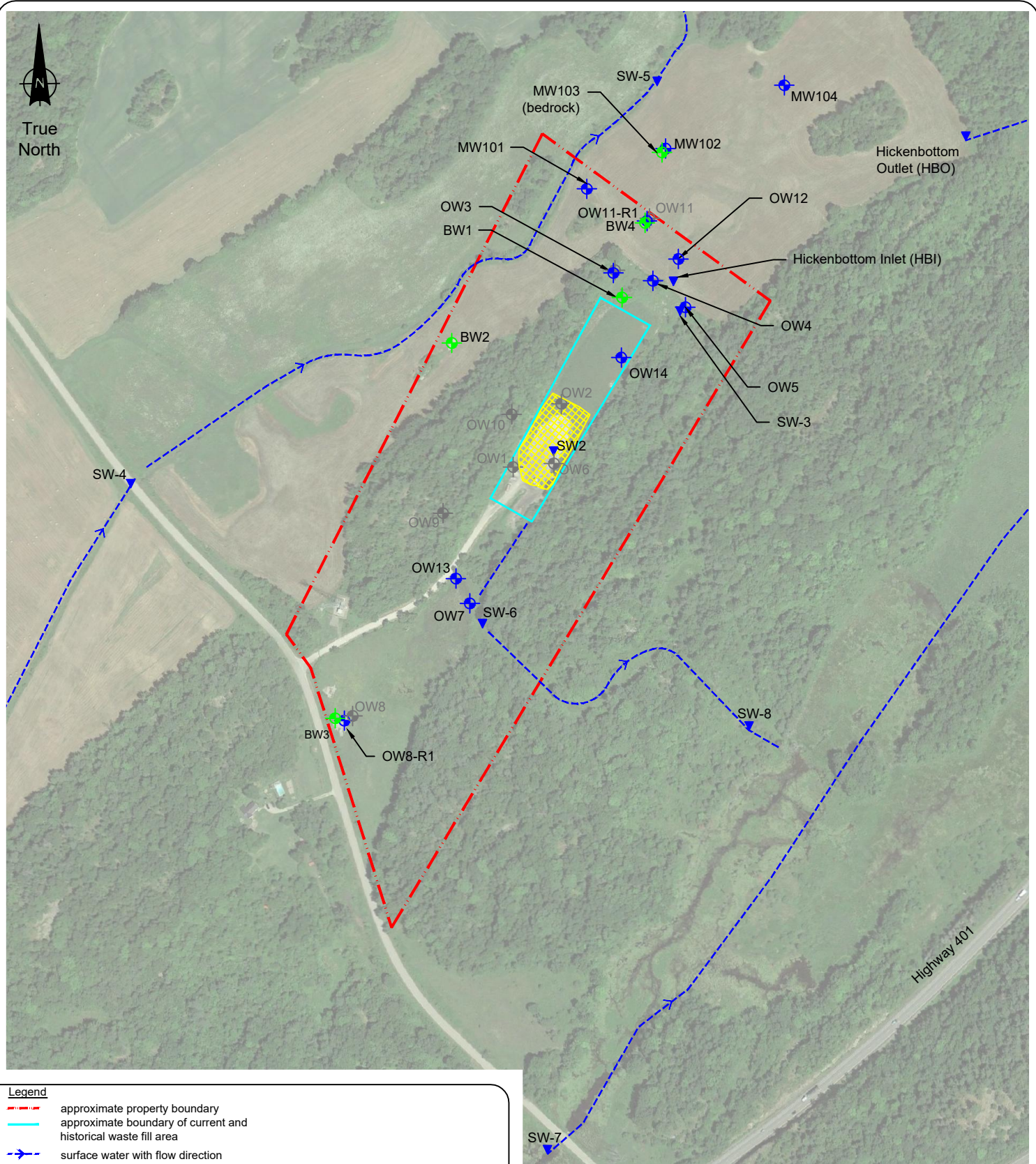


Figure
1





- Legend**
- - - approximate property boundary
 - - - approximate boundary of current and historical waste fill area
 - - - surface water with flow direction
 - ▼ SW-6 surface water sample station
 - BW1 bedrock monitoring well location
 - OW11 overburden monitoring well location
 - OW1 monitoring well abandoned or assumed destroyed
 - active fill area

Note: figure based on Malroz field observations and Google Earth imagery

Site Plan

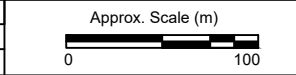
2020 Annual Monitoring Report
Escott WDS - A441703
Township of Leeds and the Thousand Islands

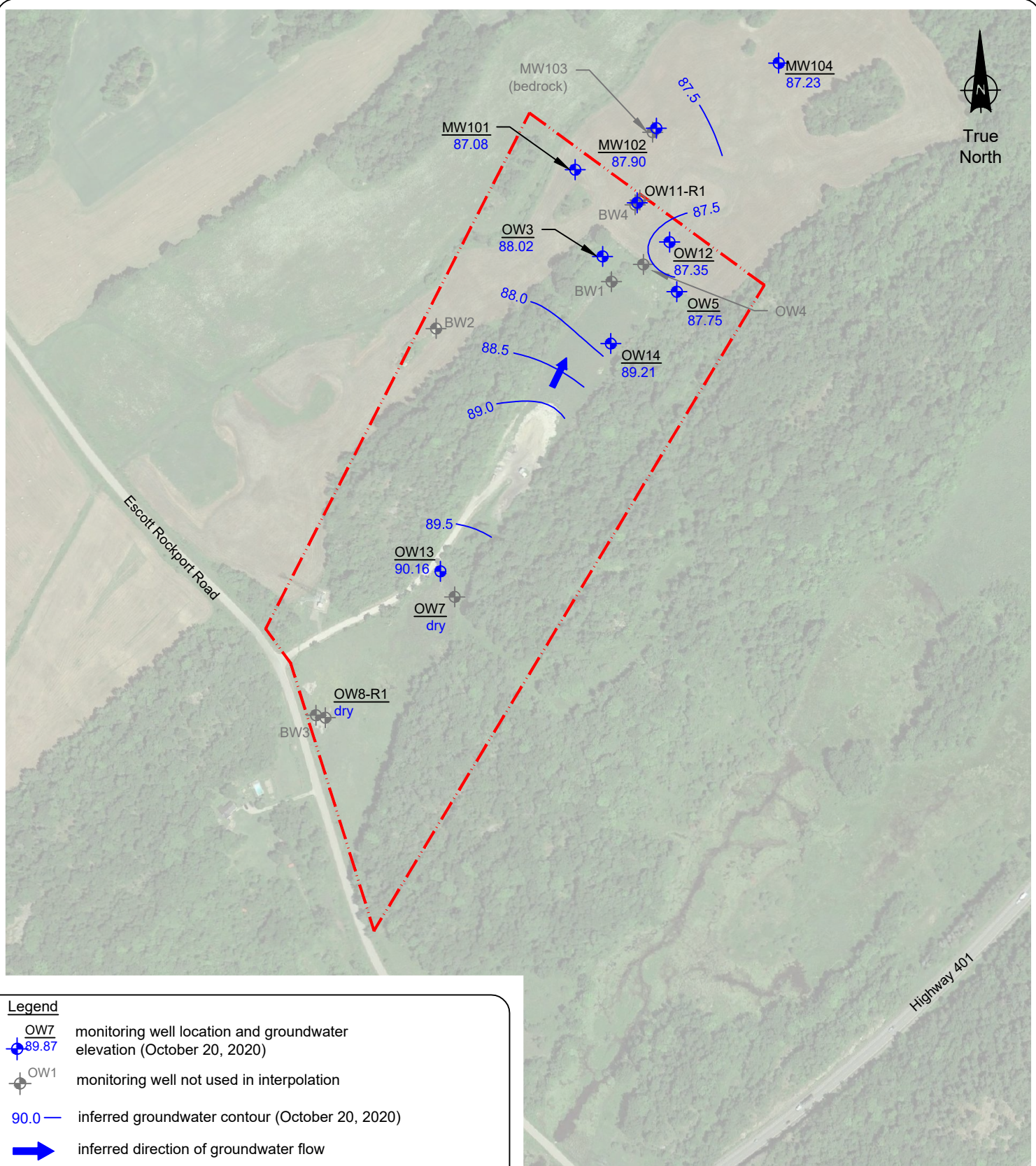
File: 1038-120.00

Figure
2



0	21/03/30	issued in final	ZL	AP
Rev	Date	Description	By	Chkd





Legend

- OW7 89.87 monitoring well location and groundwater elevation (October 20, 2020)
- OW1 monitoring well not used in interpolation
- 90.0 — inferred groundwater contour (October 20, 2020)
- inferred direction of groundwater flow
- approximate property boundary

Note: figure based on Malroz field observations and Google Earth imagery

Inferred Shallow Groundwater Contours

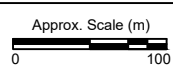
2020 Annual Monitoring Report
 Escott WDS - A441703
 Township of Leeds and the Thousand Islands

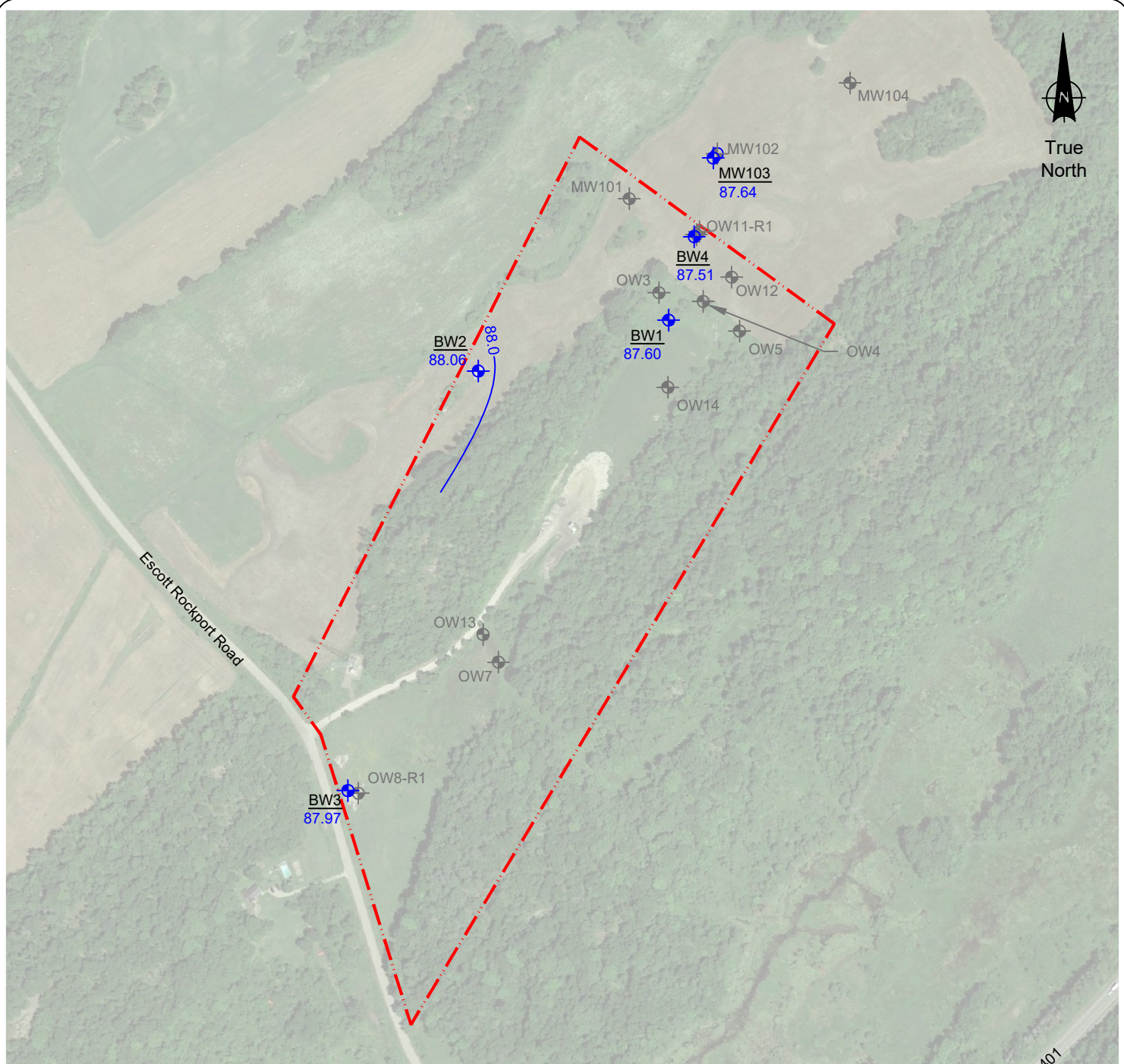
File: 1038-120.00

Figure
3a



Rev	Date	Description	By	Chkd
0	21/03/30	issued in final	ZL	AP





Legend

- BW1 monitoring well location and groundwater elevation (October 2020)
- OW1 monitoring well not used in interpolation
- 90.00 inferred groundwater contour (October 2020)
- inferred direction of groundwater flow
- approximate property boundary

Note: figure based on Malroz field observations and Google Earth imagery

Inferred Bedrock Groundwater Contours

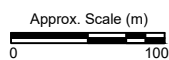
2020 Annual Monitoring Report
Escott WDS - A441703
Township of Leeds and the Thousand Islands

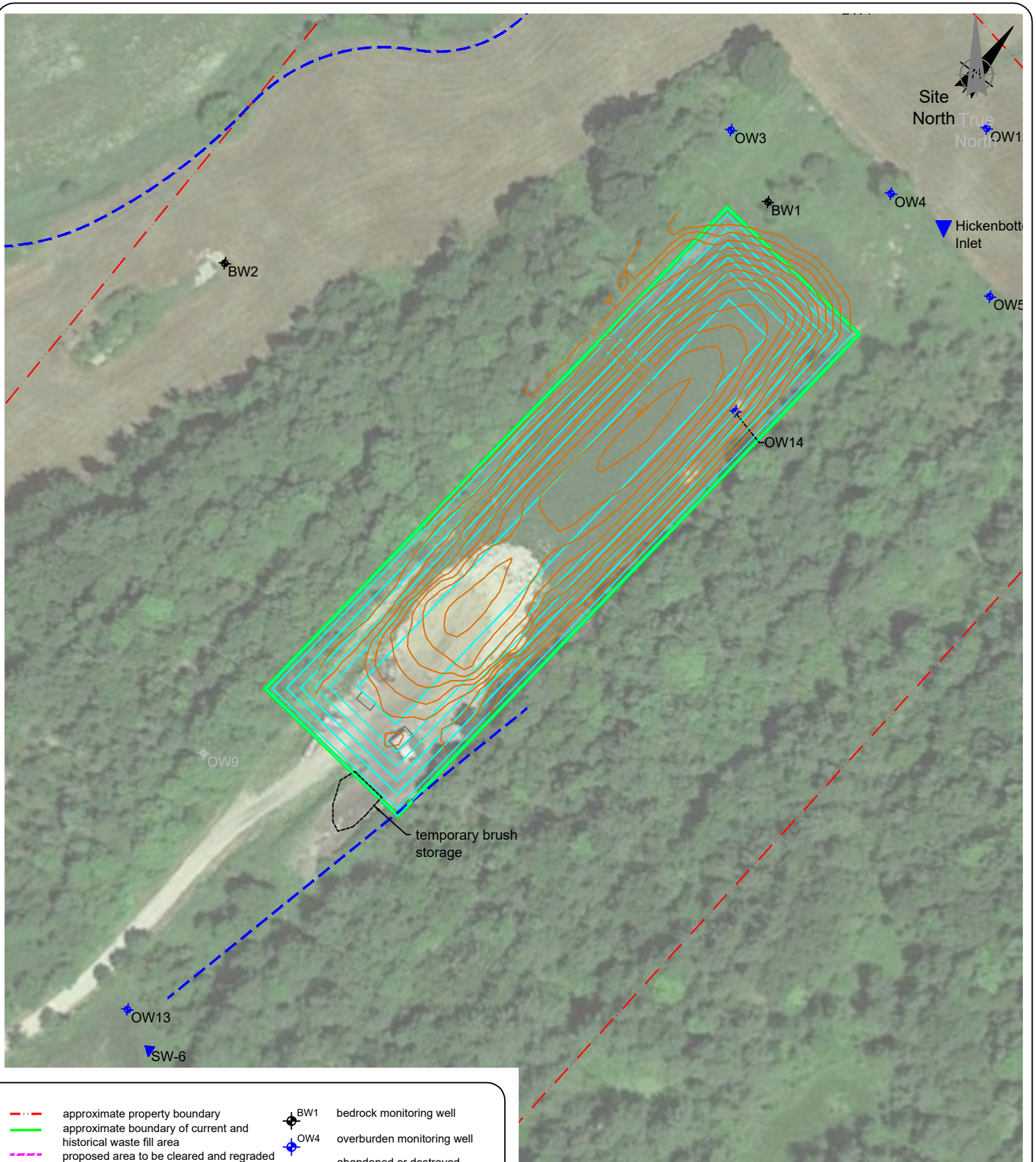
File: 1038-120.00

Figure
3b



Rev	Date	Description	By	Chkd
0	21/03/30	issued in final	ZL	AP





- - - approximate property boundary
- - - approximate boundary of current and historical waste fill area
- - - proposed area to be cleared and regraded
- - - 95.0 proposed final contours with elevation
- - - 95.0 current topographic contours
- ▼ SW-# surface water sample station
- current location of recycling bins
- ✦ BW1 bedrock monitoring well
- ✦ OW4 overburden monitoring well
- ✦ OW9 abandoned or destroyed monitoring well

Note: figure based on Malroz field observations and Google Earth imagery

Waste Contours

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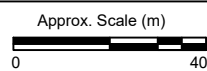
File: 1038-120.00

Figure

4



Rev	Date	Description	By	Chkd
0	20/03/30	issued in final	AP	CMM



Appendix B
Tables

Table 1
Well Inspection

Well ID	Well Type	Well Construction	Well Integrity			Notes
	Protective casing	Material	Locked	Capped	Condition ^[1]	
BW1	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
BW2	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
BW3	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
BW4	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW3	none/stickup	2" Schedule 40 PVC	Y	J-Plug	good	J-plug off upon arrival
OW4	none/stickup	2" Schedule 40 PVC	Y	J-Plug	good	-
OW5	none/stickup	1" Schedule 40 PVC	Y	J-Plug	good	-
OW7	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW8R1	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW11R1	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW12	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	pinched piezo (~0.4m from TOP); function not compromised
OW13	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	-
OW14	Steel monument	2" Schedule 40 PVC	Y	Slip Cap	good	-
MW101	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	Installed February 2020
MW102	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	Installed February 2020
MW103	Steel monument	1.5" Schedule 40 PVC	Y	J-Plug	good	Installed February 2020
MW104	Steel monument	2" Schedule 40 PVC	Y	J-Plug	good	Installed February 2020

Notes:

[1]

Well inspection completed on April 14 and October 20, 2020
 Well conditions ranked as:
 good (no maintenance required),
 fair (minor maintenance required),
 poor (requires maintenance or abandonment)
 no notes

Data Input: MW
 Data Checked: AP

Table 2
Surface Water Station Descriptions

Station	(NAD 83, Zone 18T)				Flow Conditions		Notes
	April UTM's		October UTM's		April 14, 2020	October 20, 2020	
	Northing (m)	Easting (m)	Northing (m)	Easting (m)			
HBI	4917693	425013	NA	NA	lotic	dry	Located along fenceline of adjacent agricultural field, north-east of the WDS. Upstream point of the agricultural drainage tile.
HBO	4917816	425309	4917814	425314	lotic	lentic	Located north-east of the WDS. Downstream point of the agricultural drainage tile.
SW4	4917527	424492	4917525	424491	lotic	no flow	Located upstream, to the west of the WDS, next to Escott Rockport Road. SW-4 is intended to represent background surface water quality for the northern drainage channel.
SW5	4917935	425047	4917924	425044	lotic	lentic	Located downstream, to the north of the WDS, along the northern creek.
SW7	4916889	424865	4916890	424866	lotic	no flow	Located upstream, to the south of the WDS, next to Escott Rockport Road. SW-7 is intended to represent background surface water quality for the southern drainage channel.
SW8	4917182	425002	4917179	425001	no flow	no flow	Located downstream, to the east of the WDS, near the intersection of the drainage creek and southern creek.

Notes NA Not sampled due to dry conditions. No coordinates were obtained.

Data Input: MW
 Data Check: CM

**Table 3
Groundwater Monitoring Results**

Location	DTW (mbTOP)	DTB (mbTOP)	TOP Elevation (masl)	Grade Elevation (masl)	Groundwater Elevation (masl)	Methane Concentration (%LEL)	Purge Water Observations		
							Colour	Odour	Sediment
April 14-15, 2020									
BW1	1.41	22.67	91.26	90.22	89.85	nr	clear	none	none
BW2	0.46	8.48	89.69	89.02	89.23	nr	clear	slight sulphur	none
BW3	2.34	20.20	92.75	92.29	90.41	nr	clear	none	trace
BW4	0.27	10.81	90.10	89.26	89.83	nr	clear	none	trace
OW3	0.40	4.14	90.89	89.78	90.49	nr	brown	none	some
OW4	1.45	2.97	90.97	89.77	89.52	nr	-	-	-
OW5*	2.54	5.55	91.00	90.06	88.46	nr	cloudy grey	none	some
OW7	0.91	3.85	93.08	91.53	92.17	nr	-	-	-
OW8R1	0.97	3.65	92.71	91.88	91.74	nr	cloudy grey	none	some
OW11R1	0.53	5.75	90.06	89.28	89.53	nr	grey	none	abundant
OW12	1.44	5.50	89.73	88.60	88.29	nr	brown	none	some
OW13	0.55	7.10	92.42	91.45	91.87	nr	cloudy grey	none	some
OW14	3.44	9.29	94.51	94.28	91.07	nr	cloudy grey	none	some
MW101	1.50	6.05	89.96	88.59	88.46	nr	brown	none	abundant
MW102	1.59	5.15	90.87	89.72	89.28	nr	brown	none	abundant
MW103	1.20	7.43	90.56	89.77	89.36	nr	cloudy	none	trace
MW104	2.01	7.35	90.49	89.54	88.48	nr	grey brown	none	some
October 20, 2020									
BW1	3.66	22.95	91.26	90.22	87.60	nr	clear	none	none
BW2	1.63	8.54	89.69	89.02	88.06	nr	clear	slight sulphur	trace
BW3	4.78	20.25	92.75	92.29	87.97	nr	clear	none	trace
BW4	2.59	10.78	90.10	89.26	87.51	nr	clear	none	some
OW3	2.87	4.10	90.89	89.78	88.02	nr	grey	none	some
OW4	dry	2.97	90.97	89.77	dry	nr	-	-	-
OW5*	3.25	5.55	91.00	90.06	87.75	nr	grey, blocky iridescence sheen (iron) observed	none	some
OW7	dry	3.83	93.08	91.53	dry	nr	-	-	-
OW8R1	dry	3.77	92.71	91.88	dry	nr	-	-	-
OW11R1	2.26	6.15	90.06	89.28	87.80	<1 ^[a]	grey	none	abundant
OW12	2.38	5.64	89.73	88.60	87.35	nr	grey	none	some
OW13	2.26	7.10	92.42	91.45	90.16	nr	grey	sulphur	some
OW14	5.30	9.19	94.51	94.28	89.21	nr	grey	sulphur	some
MW101	2.88	5.98	89.96	88.59	87.08	nr	grey	none	abundant
MW102	2.97	5.29	90.87	89.72	87.90	nr	grey	none	abundant
MW103	2.92	7.63	90.56	89.77	87.64	nr	grey	none	some
MW104	3.26	7.20	90.49	89.54	87.23	nr	grey	none	some

Notes:

LEL	denotes lower explosive limit	Data Input: MW
nr	indicates no response	Data Check: AP
DTW	depth to water	
DTB	depth to well bottom	
[a]	full gas response result, methane elimination was not taken	
-	not measured due to exclusion from sampling program or insufficient water	
masl	meters above mean sea level	
mbTOP	denotes meters below top of piezometer	
*	survey data provided by the TLTI	

Survey completed on April 15, 2020 using the GNS Trimble 10

Table 4
2020 Overburden Groundwater Chemistry

Location	PARAMETERS		Alkalinity	Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	
	UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	RL (2020)		5	0.01	3	5	0.2	1	1			0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.0002	0.01	0.001	0.001	0.002	0.005	0.00015
	ODWS		30-500 ^{OG}				5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}			500 ^{AO}			250 ^{AO}	10.0 ^{CS}	1.0 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}	0.01 ^{CS}	1.0 ^{CS}		5 ^{CS}	0.005 ^{CS}	
	Reasonable Use Limits		446				3.6		246				456			126	2.7	0.3	259	0.00028	0.12	0.0039	0.312		1.26	0.0013	
Date	Sample ID																										
OW 3 (compliance)	2020-Apr-14	20-W009	301	0.03	<	285	2.2	704	608	7.83	<	14.8	366	16100	1.2	22.4	0.35	<	36	<	1.03	0.0014	0.151	<	0.020	0.000029	
	2020-Oct-20	20-W034	311	0.04	<	163	2.2	722	389	8.08	<	20.8	376	14500	0.3	22.9	0.32	<	43	<	0.05	0.0006	0.136	<	0.022	<	
OW 5	2020-Apr-14	20-W010	225	0.03	<	26	1.4	454	246	7.96	<	1.06	255	700	0.3	1.4	0.09	<	10	<	0.04	0.0004	0.075	<	0.009	<	
	2020-Oct-20	20-W033	259	0.02	<	27	1.7	462	257	8.12	<	0.32	239	348	0.2	1.7	<	<	10	<	0.05	0.0005	0.093	<	0.011	<	
OW 8R1 (background)	2020-Apr-15	20-W020	281	<	<	<	2.9	555	284	7.93	<	0.16	288	168	0.3	0.6	0.34	<	4	<	0.04	0.0001	0.046	<	0.007	<	
	2020-Oct-20	DRY																									
OW 11R1 (compliance)	2020-Apr-14	20-W001	370	1.00	<	80	2.9	863	428	7.54	<	5.46	456	2900	1.9	33.1	0.06	<	38	<	0.07	0.0007	0.184	<	0.308	<	
	2020-Oct-20	20-W024	388	0.96	<	82	4.7	842	433	7.91	<	3.16	444	2150	1.5	30.5	<	<	36	<	0.10	0.0007	0.165	<	0.268	<	
OW 12 (compliance)	2020-Apr-14	20-W006	334	0.02	<	30	1.4	660	346	8.10	<	1.06	343	1100	0.4	2.4	0.42	<	21	<	0.10	0.0007	0.128	<	0.053	<	
	2020-Oct-20	20-W032	347	0.03	<	54	2.2	672	368	8.16	<	1.04	349	1340	0.4	2.5	0.59	<	12	<	0.09	0.0006	0.153	<	0.070	<	
OW 13	2020-Apr-14	20-W012	359	0.09	3	65	2.6	686	762	8.03	<	3.77	356	3300	0.5	2.4	0.09	<	10	<	1.97	0.0030	0.340	<	0.036	0.000049	
	2020-Oct-20	20-W037	389	0.08	<	84	2.0	694	381	8.03	<	3.75	360	2380	0.4	3.2	0.09	<	10	<	0.04	0.0010	0.213	<	0.025	<	
OW 14	2020-Apr-14	20-W011	1020	2.90	<	154	9.1	2080	1540	7.38	<	6.11	1150	2700	4.4	80.5	<	<	103	<	1.27	0.0032	0.607	<	0.281	< 0.000029	
	2020-Oct-20	20-W036	1010	1.12	<	63	6.8	2040	1210	7.71	<	0.97	1130	10600	1.8	79.4	<	<	98	<	0.08	0.0017	0.593	<	0.237	<	
MW101	2020-Apr-15	20-W018	271	0.09	<	116	3.3	638	340	7.88	<	8.44	331	32800	1.3	19.4	<	<	28	<	0.06	0.0013	0.111	<	0.141	<	
	2020-Oct-20	20-W026	269	0.13	<	99	3.3	622	321	7.96	<	6.59	323	6700	0.7	18.1	<	<	28	<	0.05	0.0005	0.068	<	0.160	<	
MW102	2020-Apr-15	20-W017	256	0.05	<	540	2.3	602	335	7.96	<	37.9	312	54000	3.7	10.1	1.03	<	41	<	0.05	0.0014	0.148	<	0.112	<	
	2020-Oct-20	20-W027	264	0.08	<	217	2.7	674	347	8.02	<	27.5	350	24100	1.6	15.0	0.16	<	68	<	0.05	0.0006	0.173	<	0.194	<	
MW104	2020-Apr-15	20-W015	194	0.14	9	290	2.3	433	239	8.18	<	80.4	224	87000	8.6	3	<	<	27	<	0.31	0.0049	0.246	<	0.068	<	
	2020-Oct-20	20-W030	198	0.10	4	1970	2.0	441	228	8.06	<	135	228	53100	9.4	3.1	<	<	28	<	0.03	0.0030	0.291	<	0.076	<	

Notes:
 "-" denotes not analyzed
 "RL" denotes reporting limit
 "<#" denotes elevated reporting limit
 "<" denotes results below reporting limit
 "MW###" and "#-#" denote groundwater monitoring well
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
^[9] the local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
^[1] Unionized Ammonia calculated using field parameters for pH and temperature
 AO indicates aesthetic objective OG indicates operational guidelines CS chemical standards
 denotes exceedance of RUL in compliance wells OW11R1, OW3, and OW12

(table con't)

Table 4
2020 Overburden Groundwater Chemistry (cont'd)

Location	PARAMETERS		Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field)[1]	ORP
	UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L	mV
	RL (2020)		0.02	0.001	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.01	0.1	0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.0001	0.005					0.001	
	ODWS			0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.010 ^{CS}		0.05 ^{AO}						200 ^{AO} [a]						0.02 ^{CS}		5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}				
Date	Sample ID		0.014		0.5	0.215	0.00330		0.055						108							0.0060		2.5						
OW 3 (compliance)	2020-Apr-14	20-W009	141	0.003	0.0018	0.0043	1.74	0.00234	62.2	0.261	<	<	1.5	9.92	<	8.5	0.400	<	<	0.027	<	0.00133	0.0078	0.009	7.74	5.32	0.00	0.672	<	172
	2020-Oct-20	20-W034	88.6	<	<	0.0012	0.028	0.00004	40.8	0.002	<	<	1.7	11.3	<	10.1	0.367	<	<	<	<	0.00069	0.0018	<	7.65	11.81	14.24	0.686	<	319
OW 5	2020-Apr-14	20-W010	57.9	0.001	0.0001	0.0008	0.040	0.00010	24.6	0.006	<	<	1.3	9.75	<	5.5	0.141	<	<	<	<	0.00042	0.0009	<	8.25	8.61	2.08	0.519	0.001	68
	2020-Oct-20	20-W033	60.0	<	0.0001	0.0006	0.061	0.00003	26.1	0.014	<	<	1.7	11.2	<	6.1	0.162	<	<	<	<	0.00041	0.0009	<	7.95	11.52	12.81	0.473	<	305
OW 8R1 (background)	2020-Apr-15	20-W020	67.8	<	0.0001	0.0009	0.008	<	27.8	0.001	<	<	0.4	7.46	<	18.4	0.213	<	<	<	<	0.00113	0.0007	<	7.79	6.71	0.00	0.555	<	163
OW 11R1 (compliance)	2020-Apr-14	20-W001	107	<	0.0012	0.0008	0.694	0.00038	39.0	0.369	<	<	4.6	7.95	<	22.5	1.57	<	<	<	<	0.00908	0.0005	<	6.53	8.35	5.80	0.964	0.001	109
	2020-Oct-20	20-W024	109	<	0.0010	0.0014	0.894	0.00013	39.0	0.369	<	<	4.5	8.20	<	19.7	1.58	<	<	0.005	<	0.00942	0.0005	<	7.04	10.18	9.38	0.844	0.002	112
OW 12 (compliance)	2020-Apr-14	20-W006	44.9	0.003	0.0002	0.0009	0.119	0.00014	56.9	0.010	<	<	2.5	6.54	<	20.9	1.06	<	<	0.006	<	0.00409	0.0020	<	8.23	7.09	12.70	0.741	<	138
	2020-Oct-20	20-W032	48.2	0.001	0.0001	0.0006	0.128	0.00008	60.3	0.007	<	<	3.0	8.06	<	21.4	1.15	<	<	0.009	<	0.00384	0.0025	<	7.41	11.77	15.25	0.691	<	313
OW 13	2020-Apr-14	20-W012	153	0.007	0.0054	0.0105	5.01	0.00503	92.4	0.577	<	<	3.6	15.6	<	18.4	0.811	0.00005	<	0.063	<	0.00153	0.0100	0.016	8.20	8.41	7.78	0.741	0.002	38
	2020-Oct-20	20-W037	72.4	<	0.0002	0.0037	0.024	0.00011	48.6	0.032	<	0.02	2.6	11.3	<	18.0	0.560	<	<	<	<	0.00149	0.0013	<	7.66	10.81	15.76	0.707	<	232
OW 14	2020-Apr-14	20-W011	244	0.004	0.0055	0.0017	5.92	0.00288	226	0.992	<	0.01	7.5	15.5	<	50.5	1.27	0.00007	<	0.045	<	0.0296	0.0062	0.013	7.10	9.74	12.93	2.30	0.007	-14
	2020-Oct-20	20-W036	174	0.001	0.0023	0.0007	3.50	<	190	0.562	<	<	5.2	15.6	<	53.5	1.18	<	<	<	<	0.0178	0.0004	<	7.07	10.55	12.42	2.02	0.0025	45
MW101	2020-Apr-15	20-W018	97.1	<	0.0008	0.0004	0.198	0.00009	23.6	0.156	<	<	3.1	6.24	<	10.7	1.62	<	<	<	<	0.0148	0.0006	<	7.35	7.99	0.00	6.86	<	152
	2020-Oct-20	20-W026	90.5	<	0.0003	0.0012	0.329	0.00005	22.9	0.137	<	<	3.2	6.40	<	10.5	1.63	<	<	<	<	0.0140	0.0002	<	7.13	10.38	6.12	0.622	<	138
MW102	2020-Apr-15	20-W017	92.6	<	0.0006	0.0004	<	0.00003	25.3	0.106	<	<	2.1	7.56	<	10.2	1.09	<	<	<	<	0.0348	0.0011	<	8.01	5.39	29.18	0.679	0.001	143
	2020-Oct-20	20-W027	98.7	<	0.0004	0.0025	<	0.00004	24.3	0.134	<	<	2.7	8.49	<	11.6	1.63	<	<	<	<	0.0260	0.0007	<	7.25	11.30	2.59	0.678	<	251
MW104	2020-Apr-15	20-W015	66.5	<	0.0002	0.0014	0.423	0.00031	17.6	0.048	<	<	2.0	10.1	<	6.2	0.614	<	<	0.022	<	0.00030	0.0009	<	8.15	6.98	0.00	0.483	0.003	128
	2020-Oct-20	20-W030	62.6	<	<	0.0037	0.028	0.00010	17.4	0.020	<	<	2.0	11.3	<	6.0	0.606	<	<	<	<	0.00035	0.0008	<	7.48	11.01	8.28	0.426	0.001	293

Notes: "-" denotes not analyzed
 "RL" denotes reporting limit
 "<#" denotes elevated reporting limit
 "<" denotes results below reporting limit
 "MW###" and "##-#" denote groundwater monitoring well
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
 [a] the local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
 [1] Unionized Ammonia calculated using field parameters for pH and temperature
 AO denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020)
 AO indicates aesthetic objective OG indicates operational guidelines CS chemical standards
 denotes exceedance of RUL in compliance wells OW11R1, OW3, and OW12

Data Input: CMM
 Data Check: MW

Table 5
2020 Bedrock Groundwater Chemistry

Location	PARAMETERS		Alkalinity	N - Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium
	UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	RL (2020)		5	0.01	3	5	0.2	1	1		0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.00002	0.01	0.0001	0.001	0.002	0.005	0.000015
	ODWS		30-500 ^{OG}				5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}			500 ^{AO}			250 ^{AO}	10.0 ^{CS}	1.0 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}	0.01 ^{CS}	1.0 ^{CS}		5.0 ^{CS}	0.005 ^{CS}
	Reasonable Use Limits		426				3.7		232				452			135	2.7	0.4	260	0.00028	0.06	0.0028	0.361		1.27	0.0013
Date	Sample ID																									
BW 1	2020-Apr-14	20-W008	842	2.46	<	<	8.1	1950	1030	7.26	<	0.03	1070	8	3.1	88.9	<	<	145	<	0.11	0.0014	0.337	<	0.543	< 0.000029
	2020-Oct-20	20-W035	1030	2.85	<	42	8.5	2210	1200	7.61	<	0.02	1220	10	3.6	79.1	<	<	98	<	0.12	0.0013	0.404	<	0.902	< 0.000029
BW 2 (compliance)	2020-Apr-14	20-W005	159	0.02	<	<	2.9	355	175	7.90	<	<	183	3	0.1	4.0	0.08	<	13	<	0.03	0.0003	0.054	<	0.045	<
	2020-Oct-20	20-W041	161	0.06	<	<	4.1	351	177	8.08	<	0.03	181	6	0.2	4.1	<	<	12	<	0.02	0.0003	0.061	<	0.070	<
BW 3 (background)	2020-Apr-15	20-W019	313	< 0.01	<	<	2.9	707	392	7.93	<	0.09	367	4	0.2	22.4	0.50	<	16	<	0.05	<	0.162	<	0.020	<
	2020-Oct-20	20-W038	327	0.02	<	<	2.4	706	381	8.04	<	0.02	367	4	<	21.0	0.32	<	18	<	0.04	0.0001	0.158	<	0.021	<
BW 4 (compliance)	2020-Apr-14	20-W002	399	1.09	<	<	3.4	924	459	7.49	<	0.09	491	52	1.5	36.8	0.05	<	41	<	0.07	0.0006	0.168	<	0.352	<
	2020-Oct-20	20-W025	347	0.97	<	9	4.2	809	410	7.83	<	0.03	425	11	1.2	28.7	<	<	35	<	0.05	0.0005	0.142	<	0.250	<
MW103	2020-Apr-15	20-W016	217	0.05	<	86	2.0	565	301	7.92	0.002	2.22	293	1420	1.4	12.8	<	<	51	<	0.08	0.0005	0.124	<	0.177	<
	2020-Oct-20	20-W028	386	0.09	<	12	4.2	901	474	8.01	<	0.17	477	300	0.3	33.0	<	<	50	<	0.06	0.0005	0.204	<	0.313	<

Notes:
 "-" denotes not analyzed
 "RL" denotes reporting limit
 "<#" denotes elevated reporting limit
 "<" denotes results below reporting limit
 "BW#" denotes bedrock monitoring well
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
 [9] the local medic denotes concentration exceeds the Ontario Drinking Water Standards
 [1] Un-ionized Ammonia calculated using field parameters for pH and temperature
 AO indicates aesthetic objective OG indicates operational guideline CS chemical standards
 denotes exceedance of RUL in compliance wells BW4 and BW2

cont'd

Table 5
2020 Bedrock Groundwater Chemistry (cont'd)

Location	PARAMETERS		Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Un-ionized (Field)[1]	ORP (Field)		
			UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L	mV	
			RL (2020)	0.02	0.001	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.01	0.1	0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.0001	0.005							0.001
			ODWS		0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.010 ^{CS}		0.05 ^{AO}						200 ^{AO [a]}							0.02 ^{CS}		5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}				
Reasonable Use Limits		0.015		0.5	0.168	0.00255		0.028						106							0.0083		2.5									
Date	Sample ID																															
BW 1	2020-Apr-14	20-W008	242	<	0.0116	0.0030	2.69	0.00015	103	3.31	<	0.01	5.6	12.3	<	71.3	1.27	0.00005	<	<	<	<	0.0129	<0.0004	<	7.05	8.62	0.00	2.14	0.005	140	
	2020-Oct-20	20-W035	276	<	0.0131	0.0014	3.36	<0.00009	123	3.78	<	<	6.1	13.1	<	86.7	1.52	<	<	<	<	<	0.0147	0.0004	<	7.35	18.62	10.97	1.47	0.023	120	
BW 2 (compliance)	2020-Apr-14	20-W005	52.8	<	<	0.0002	0.052	0.00003	10.4	0.029	<	<	2.3	4.81	<	4.8	1.10	<	<	<	<	0.00592	0.0002	<	8.08	7.97	5.00	0.376	<	119		
	2020-Oct-20	20-W041	53.8	<	<	0.0003	0.062	<	10.4	0.039	<	<	2.7	5.77	<	5.8	1.10	<	<	<	<	0.00443	0.0002	<	7.46	11.27	7.47	0.366	<	159		
BW 3 (background)	2020-Apr-15	20-W019	91.6	0.007	0.0001	0.0014	<	0.00002	39.6	<	<	<	2.3	8.82	<	14.4	0.373	<	<	<	<	0.00447	0.0003	<	7.63	8.80	0.00	0.77	<	164		
	2020-Oct-20	20-W038	85.0	<	<	0.0026	<	0.00002	41.0	<	<	<	2.3	9.07	<	13.9	0.400	<	<	<	<	0.00431	0.0004	<	7.59	9.98	14.11	0.704	<	274		
BW 4 (compliance)	2020-Apr-14	20-W002	113	<	0.0011	0.0010	0.520	0.00037	43.0	0.448	<	<	4.8	8.43	<	25.4	1.60	0.00007	<	<	<	0.00913	0.0003	<	6.90	9.46	8.51	1.03	0.002	106		
	2020-Oct-20	20-W025	103	<	0.0009	0.0006	0.473	0.00015	37.2	0.376	<	<	4.3	7.91	<	18.7	1.49	0.00009	<	<	<	0.00881	0.0003	<	7.56	8.98	6.47	0.832	0.006	117		
MW103	2020-Apr-15	20-W016	91.3	<	0.0005	0.0007	0.150	0.00010	17.6	0.189	<	<	3.1	6.93	<	11.8	1.78	<	<	<	<	0.0210	0.0017	0.005	7.97	6.33	28.63	0.624	0.001	146		
	2020-Oct-20	20-W028	135	<	0.0004	0.0002	0.308	0.00003	33.5	0.330	<	<	3.9	8.87	<	18.2	3.83	<	<	<	<	0.0261	0.0006	<	7.02	10.48	10.94	0.906	<	141		

Notes: "-" denotes not analyzed
 "RL" denotes reporting limit
 "<#" denotes elevated reporting limit
 "<" denotes results below reporting limit
 "BW#" denotes bedrock monitoring well
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
 [a] the local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
 [1] Un-ionized Ammonia calculated using field parameters for pH and temperature
 denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020)
 AO indicates aesthetic objective OG indicates operational guideline CS chemical standards
 denotes exceedance of RUL

Data Input: CMM
Data Check: MW

Table 7
Reasonable Use Limits

Parameter	Units	ODWS Concentration Limit (C _r)	Constant (x)	Bedrock		Overburden	
				BW3 mean Background Concentration 2006-2019 (C _b)	Reasonable Use Limit (C _m)	OW8 mean Background Concentration 2006-2019 (C _b)	Reasonable Use Limit (C _m)
Alkalinity	mg/L	500	0.5	353	426	392	446
DOC	mg/L	5	0.5	2.4	3.7	2.2	3.6
Hardness	mg/L	100	0.5	364	232	391	246
Total Dissolved Solids	mg/L	500	0.5	404	452	412	456
Chloride	mg/L	250	0.5	19.2	135	1.6	126
N - Nitrate	mg/L	10	0.25	0.30	2.7	0.21	2.66
N - Nitrite	mg/L	1	0.25	0.21	0.40	0.05	0.29
Sulphate	mg/L	500	0.5	20	260	18	259
Mercury	mg/L	0.001	0.25	0.00004	0.00028	0.00003	0.00028
Aluminum	mg/L	0.1	0.5	0.01	0.06	0.13	0.12
Arsenic	mg/L	0.01	0.25	0.0003	0.0028	0.0018	0.0039
Barium	mg/L	1	0.25	0.148	0.361	0.083	0.312
Boron	mg/L	5	0.25	0.021	1.265	0.008	1.256
Cadmium	mg/L	0.005	0.25	0.000043	0.001282	0.000033	0.001275
Chromium	mg/L	0.05	0.25	0.003	0.015	0.001	0.014
Copper	mg/L	1	0.5	0.0013	0.5007	0.0014	0.5007
Iron	mg/L	0.3	0.5	0.037	0.168	0.130	0.215
Lead	mg/L	0	0.25	0.00006	0.00255	0.00107	0.00330
Manganese	mg/L	0.05	0.5	0.006	0.028	0.059	0.055
Sodium	mg/L	200	0.5	12.9	106	15.2	108
Uranium	mg/L	0.02	0.25	0.00435	0.00826	0.00128	0.00596
Zinc	mg/L	5	0.5	0.006	2.503	0.008	2.504

Notes:

$$C_m = C_b + x(C_r - C_b)$$

C_b = background concentration

x = constant; 0.5 non health parameter, 0.25 for health parameter

C_r = max conc. acceptable in water (Ontario Drinking Water Standard)

C_m = Reasonable Use Limit (or RUPO)

Where results are below the method detection limit (MDL), we use half of the MDL value

Input: AP

Checked: CM

Table 8
2020 Surface Water Chemistry

Location	PARAMETERS	UNITS	Alkalinity	Ammonia	Ammonia, unionized	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Phosphorus, total dissolved	TDS	TSS	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Arsenic	Barium	Boron	Cadmium	Calcium	Chromium		
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
			RL (2020)	5	0.01	0.01	3	5	0.2	1	1		6.5-8.5	0.001	0.01	0.002	3	3	0.1	0.5	0.05	0.05	1	0.00002	0.01	0.0001	0.001	0.005	0.000015	0.02	0.001
			Provincial Water Quality Objectives (mg/L)	(note a)		0.020									0.02										0.0002	0.075 ^c	0.005		0.200	0.0005 ^e	(note f)
			Table A: Assessment Criteria for Waste Disposal Sites (mg/L)			0.100								6.0-9.0	0.04 ^b					180						0.15	2.300	3.550	0.00021		0.064
Table B: Alternative Review Criteria (mg/L)												0.004 ^b					128	2.9	0.06						1.50	0.000017					
Date	Sample ID																														
North Stream	SW4	2020-Apr-14	20-W014	91	0.06	<	<	12	10.0	222	109	7.86	<	0.18	0.118	113	22	1.1	8.0	0.21	<	6	<	0.08	0.0003	0.069	0.092	0.000044	33.5	0.002	
		2020-Oct-20	20-W023	92	0.04	<	<	40	14.3	453	202	7.88	<	0.35	0.255	234	52	1.7	21.0	7.11	<	68	<	0.03	0.0009	0.087	0.013	0.000043	50.7	0.003	
	SW5	2020-Apr-14	20-W004	102	0.06	<	<	7	9.8	250	120	7.67	<	0.16	0.111	128	18	1.0	8.9	0.33	<	7	<	0.1	0.0004	0.072	0.061	0.000046	36.1	0.002	
		2020-Oct-20	20-W029	95	0.08	<	4	65	9.7	278	142	7.74	<	0.24	0.181	142	32	1.8	3.0	6.75	<	8	<	0.66	0.0005	0.084	0.032	0.000043	35.0	0.005	
South Stream	SW7	2020-Apr-14	20-W013	76	0.03	<	<	<	8.8	328	96	7.52	<	0.05	0.044	168	<	0.5	51.2	<	<	5	<	0.02	0.0002	0.042	0.098	<	31.9	<	
		2020-Oct-20	20-W039	127	0.02	<	<	38	6.6	652	151	7.83	<	0.09	0.014	339	5	1.1	121	<	<	6	<	<	0.0004	0.051	0.008	0.000017	43.8	0.001	
	SW8	2020-Apr-15	20-W021	61	0.02	<	<	15	7.6	241	77	7.48	<	0.09	0.034	123	16	0.6	33.2	0.05	<	3	<	0.06	0.0002	0.043	0.083	0.000017	24.8	0.001	
		2020-Oct-20	20-W040	15	0.04	<	<	45	10.6	127	45	6.90	<	0.40	0.080	64	80	1.5	8.0	<	<	26	<	0.02	0.0004	0.044	0.013	0.000077	12.4	0.003	
Hickenbottom Stream	Hickenbottom Inlet (HBI)	2020-Apr-14	20-W007	333	0.04	<	<	<	7.2	751	380	8.12	<	0.17	0.047	392	195	0.9	33.2	0.17	<	10	<	0.07	0.0003	0.120	0.451	0.000042	97.8	0.002	
		2020-Oct-20	DRY																												
	Hickenbottom Outlet (HBO)	2020-Apr-14	20-W003	196	0.06	<	<	10	6.3	466	227	7.87	0.001	0.11	0.094	241	18	0.7	12.4	1.30	<	18	<	0.04	0.0002	0.090	0.205	0.000032	61.0	0.002	
	2020-Oct-20	20-W031	93	0.06	<	3	40	7.1	315	157	7.63	<	0.16	0.127	162	8	1.5	2.2	11.50	<	13	<	0.02	0.0004	0.072	0.018	0.000051	37.6	0.004		

(table cont)

Table 8
2020 Surface Water Chemistry (cont'd)

Location	PARAMETERS	UNITS	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Silicon	Silver	Sodium	Strontium	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Un-ionized (Field) ^[1]	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm
		RL (2020)	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.1	0.01	0.0001	0.2	0.001	0.00005	0.0001	0.005					0.001	
		Provincial Water Quality Objectives (mg/L)	0.0009	0.005 ^[g]	0.3	(note h)			0.025						0.005	0.006	0.02			(note i)		0.02	
		Table A: Assessment Criteria for Waste Disposal Sites (mg/L)		0.0069	1.000	0.002											0.089	6.0-9.0				0.100	
		Table B: Alternative Review Criteria (mg/L)															0.030						
		Date																					
North Stream	SW4	2020-Apr-14	20-W014	0.0006	0.0039	1.80	0.00081	11.8	0.046	<	3.7	5.75	<	7.2	0.166	0.00146	0.0034	0.020	7.97	9.55	5.90	0.247	<
		2020-Oct-20	20-W023	0.0009	0.0092	1.83	0.00080	18.8	0.029	<	8.9	9.62	<	10.5	0.194	0.00209	0.0061	0.009	7.49	10.36	13.29	0.465	<
South Stream	SW5	2020-Apr-14	20-W004	0.0007	0.0042	1.97	0.00086	13.3	0.041	<	3.1	6.45	<	7.8	0.177	0.00166	0.0038	0.017	7.47	7.20	7.87	0.245	<
		2020-Oct-20	20-W029	0.0013	0.0058	3.61	0.00118	15.2	0.035	<	2.4	12.0	<	4.6	0.220	0.00071	0.0069	0.019	7.07	11.05	10.90	0.279	<
Hickenbottom Stream	SW7	2020-Apr-14	20-W013	0.0001	0.0004	0.389	0.00007	9.47	0.030	<	1.6	1.03	<	32.3	0.184	0.00016	0.0003	0.014	7.98	8.53	5.63	0.363	<
		2020-Oct-20	20-W039	0.0002	0.0011	0.838	0.00049	11.3	0.073	<	1.6	1.29	<	77.5	0.244	0.00077	0.0008	0.008	7.68	9.73	19.05	0.860	<
Hickenbottom Inlet (HBI)		2020-Apr-15	20-W021	0.0003	0.0016	1.03	0.00052	7.94	0.036	<	1.3	3.14	<	21.1	0.142	0.00032	0.0014	0.017	8.13	6.98	2.40	0.274	<
		2020-Oct-20	20-W040	0.0009	0.0036	2.71	0.00094	4.32	0.130	<	1.2	7.90	<	6.5	0.061	0.00031	0.0027	0.012	8.15	11.09	10.78	0.132	0.001
Hickenbottom Outlet (HBO)		2020-Apr-14	20-W007	0.0010	0.0022	2.32	0.00111	37.5	0.283	<	3.8	6.73	<	30.9	0.434	0.00376	0.0030	0.020	8.09	7.61	7.13	0.832	<
		2020-Oct-20	dry							<			<										<
Hickenbottom Outlet (HBO)		2020-Apr-14	20-W003	0.0006	0.0034	1.88	0.00062	23.7	0.041	<	1.9	7.01	<	15.6	0.323	0.00373	0.0037	0.019	7.51	7.79	7.32	0.472	<
		2020-Oct-20	20-W031	0.0009	0.0049	3.01	0.00107	16.3	0.061	<	1.0	10.7	<	5.3	0.198	0.00120	0.0050	0.013	7.62	11.85	10.49	0.317	<

Notes:

*- denotes not analyzed

"RL" denotes reporting limit

"<" denotes result below reporting limit

"SW ###" denotes surface water station ID

"-#" denotes sample exceeds reportable limit

[1] Un-ionized Ammonia calculated using field parameters for pH and temperature

[a] Alkalinity should not be decreased by more than 25% of the natural concentration

[b] Table A and Table B standards apply only to Phenol

[c] Aluminum criteria: >6.5 - 9.0 pH = 0.075 mg/L, >5.5 - 6.5 pH = <10% above natural background concentration

[d] Beryllium criteria: <75 mg/L Hardness = 0.011 mg/L, >75 mg/L Hardness = 1.1 mg/L

[e] Cadmium criteria: 0-100 mg/L Hardness = 0.0001 mg/L, >100 mg/L Hardness = 0.0005 mg/L

[f] Chromium reported as total, published standards are for Chromium VI (0.001 mg/L) and Chromium III (0.0089 mg/L)

[g] Copper criteria: 0-20 mg/L Hardness = 0.001 mg/L, >20 mg/L Hardness = 0.005 mg/L

[h] Lead criteria: <30 mg/L Hardness = 0.001 mg/L, 30 to 80 mg/L Hardness = 0.003 mg/L, >80 mg/L Hardness = 0.005 mg/L

[i] PWQO for minimum DO concentration set at conservative value based on highest temperature and warm water biota

DO criteria: 0°C -5°C = ≥7mg/L 5°C-10°C = ≥6mg/L 10°C-20°C = ≥5mg/L 20°C-25°C = ≥4mg/L

Malroz was not able to independently validate historic chemistry and exceedances, provided by the Township of Leeds and the Thousand Islands

Shading indicates parameters exceeding guideline criteria

denotes concentration exceeds the 1994 PWQO (as updated in 1999)

denotes concentration exceeds Table A: Assessment Criteria for Waste Disposal Sites (Source Aquatic Protection Values), from the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (2010)

denotes concentration exceeds Table B: Alternative Review Criteria (Source Canadian Water Quality Guideline), from the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (2010)

Data Input: CMM

Data Check: MW

Appendix C
Certificate of Approval No. A441703



Ontario

Ministry of the Environment
Ministère de l'Environnement

AMENDED PROVISIONAL CERTIFICATE OF APPROVAL
WASTE DISPOSAL SITE
NUMBER A441703

The Corporation of the Township of Leeds and the Thousand Islands
PO Box 129
Lansdowne, Ontario
K0E 1L0

Site Location: Ward 3 (Escott) Landfill Site
Lot 9, 10, Concession Broken Front Concession
Leeds and the Thousand Islands Township, United Counties of Leeds and Grenville

You have applied in accordance with Section 27 of the Environmental Protection Act for approval of:

a 1 hectare landfilling area and a transfer station for recyclable materials, white goods, scrap metal and tires, within a 15.1 hectare site

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- a. "Owner" means The Corporation of the Township of Leeds and the Thousand Islands;
- b. "Ministry" means the Ministry of the Environment;
- c. "Director" means the one or more persons who from time to time are so designated for the purpose of Section 37 of the Environmental Protection Act ;
- d. "Regional Director" means the Director, Eastern Region, Ministry of the Environment;
- e. "Certificate" means this Provisional Certificate of Approval No. A441073, as amended from time to time, including all schedules attached to and forming part of this Certificate;
- f. "Site" means Ward 3 (Escott) Waste Disposal Site with its associated buildings and storage facilities located on Lot 9, 10, Concession Broken Front Concession, Leeds and the Thousand Islands Township, United Counties of Leeds and Grenville;
- g. "EPA " mean the Environmental Protection Act , R.S.O. 1990, C. E-19 as amended;
- h. "O.Reg. 558" means Ontario Regulation 558/00 issued to amend O.Reg. 347;
- i. "O.Reg. 347" means Ontario Regulation 347 (General-Waste Management Regulation), R.R.O. 1990, as amended;

- j. “summer season” means the time period between May 1 to October 31;
- k. “winter season” means the time period between November 1 to April 31;
- l. “District Manager” means the District Manager, Kingston District Office, Eastern Region; and
- m. “white goods which contain refrigerants” means white goods which contain, or may contain refrigerants, and which include, but are not restricted to refrigerators, freezers and air-conditioning systems.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

GENERAL

1. This Certificate revokes all previously issued Provisional Certificates of Approval issued under Part V of the EPA for this Site. The approval given herein including the terms and conditions set out replaces all previously issued approvals and related terms and conditions under Part V of the EPA for this Site.
2. The Site shall be developed, operated and maintained in accordance with all of the plans and specifications in the documents listed in Schedule "A". Should there be discrepancies between the documents listed in Schedule "A" and the conditions in this Certificate, the conditions shall take precedence. Should there be discrepancies between the documents listed in Schedule "A", the document bearing the most recent date shall take precedence.
3. Requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation. The Owner shall ensure compliance with all the terms and conditions of this Certificate. Any noncompliance constitutes a violation of the EPA and is grounds for enforcement.
4. The requirements of this Certificate are severable. If any requirements of this Certificate to any circumstances is held invalid, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected thereby.
5. The Owner shall ensure that all communications/correspondence made pursuant to this Certificate includes reference to this Certificate number.

NOTIFICATION OF CHANGES

6. The Owner shall notify the Director in writing of any of the following changes within thirty (30) days of the change occurring:
- (a) change of Owner or Operator of the Site or both;
 - (b) change of address or address of the new Owner;
 - (c) change of partners where the Owner or Operator is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act , 1991 shall be included in the notification to the Director;
 - (d) any change of name of the corporation where the Owner or Operator is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" (Form 1 or 2 of O. Reg. 182, Chapter C-39, R.R.O. 1990 as amended from time to time), filed under the Corporations Information Act shall be included in the notification to the Director; and
 - (e) change in directors or officers of the corporation where the Owner or Operator is or at any time becomes a corporation, and a copy of the most current "Initial Notice or Notice of Change" as referred to in 6(d), supra.
7. In the event of any changes in ownership of the Site, the Owner shall notify, in writing, the succeeding owner of the existence of this Certificate, and a copy of such written notice shall be forwarded to the Director and the District Manager.

INSPECTIONS

8. The Owner shall allow Ministry personnel, or a Ministry authorized representative(s), upon presentation of credentials, to:
- (a) carry out any and all inspections authorized by Sections 156, 157 or 158 of the EPA , Sections 15, 16 or 17 of the Ontario Water Resources Act , R.S.O. 1990, or Sections 19 or 20 of the Pesticides Act , R.S.O. 1990, as amended from time to time, of any place to which this Certificate relates, and
- without restricting the generality of the foregoing to:
- (b) (i) enter upon the premises or the location where the records required by the conditions of this Certificate are kept;
 - (ii) have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;

- (iii) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate, and
- (iv) sample and monitor, at reasonable times, for the purposes of assuring compliance with the conditions of this Certificate.

RELEASE OF INFORMATION

9. (a) The Owner shall, forthwith upon request of the Director, District Manager, or Provincial Officer (as defined in the *EPA*), furnish any information requested by such persons with respect to compliance with the Certificate, including but not limited to, any records required to be kept under this Certificate; and
- (b) In the event, the Owner provides the Ministry with information, records, documentation or notification in accordance with this Certificate (for the purposes of this Condition referred to as "Information"),
- (i) the receipt of Information by the Ministry;
 - (ii) the acceptance by the Ministry of the Information's completeness or accuracy; or
 - (iii) the failure of the Ministry to prosecute the Owner, or to require the Owner to take any action, under this Certificate or any statute or regulation in relation to the Information.

shall not be construed as an approval, excuse or justification by the Ministry of any act omission of the Owner relating to the Information, amounting to noncompliance with this Certificate or any statute or regulation.

10. Any information relating to this Certificate and contained in Ministry files may be made available to the public in accordance with the provisions of the *Freedom of Information and Protection of Privacy Act* , R.S.O. 1990, C.F-31.

CERTIFICATE OF PROHIBITION

11. Pursuant to Section 197 of the *EPA* , neither the Owner nor any person having an interest in the property that the Site is on, shall deal with the property in any way without first giving a copy of this Certificate to each person acquiring an interest in the property as a result of the dealing.

12. The Owner shall:
- (a) within sixty (60) days of the date of this Certificate, submit to the Director for the Director's signature two copies of a completed Certificate of Prohibition containing a registerable description of the property that the Site is on, in accordance with Form 1 of Ontario Regulation 14/92 and
 - (b) within ten (10) calendar days of receiving the Certificates of Prohibition signed by the Director, register the Certificate of Prohibition in the appropriate Land Registry Office on title to the property that the Site is on and shall submit to the Director immediately following registration the duplicate registered copy.

SERVICE AREA

13. The approved service area for the Site is only **Ward 3, Front of Escott**, of the Township of Leeds and the Thousand Islands.

WASTE TYPES

14. (a) Only solid non-hazardous waste shall be accepted at the Site for landfilling.
- (b) Only recyclable wastes, white goods, metals and tires shall be accepted at the Site for bulking and subsequent transfer off-site for further processing.
- (c) No liquid industrial wastes or hazardous wastes as defined under O.Reg. 347 and O.Reg. 558 shall be accepted at the Site.

SITE CAPACITY

15. The total waste disposal volume of the Site, including the waste, daily cover and intermediate cover, but excluding final cover, is 40,000 cubic metres. This capacity includes the existing and proposed waste to be landfilled.

WASTE PLACEMENT

16. In the areas not previously used for landfilling, no waste shall be placed lower than 0.5 metre below the existing ground.
17. Disposal of waste shall only occur within the areas as delineated on Drawing No. OP-1, entitled "Operations/Development Plan" dated December 16, 2003.
18. Drawing showing final contours shall be revised each year and submitted with the Annual Report required by Condition 52, to reflect the degree of excavation in the fill area not used for trenching and the amount of the final cover stripped from the existing trenches.

DAILY AND INTERIM COVER

19. (a) Daily and interim cover material shall consist of a permeable material and it shall be applied in accordance with Item 4 of Schedule "A". Crushed glass may be mixed with the soil to be used for daily and interim covers.
- (b) The Owner shall keep records of the cover application activities in accordance with Condition 50.
- (c) Daily cover and interim cover shall be applied as follows:
- (i) At least once bi-weekly during the summer season, at end of the working day, the entire working face shall be covered with a minimum thickness of 150 mm of daily cover.
 - (ii) At least once monthly during the winter season, at end of the working day, the entire working face shall be covered with a minimum thickness of 150 mm of daily cover.
 - (iii) In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 mm of interim cover shall be placed.
- (d) The frequency of application and the cover thickness in subsections (i), (ii) and (iii) are minimum requirements, and may have to be increased if environmental adverse effects have been found to occur.

OPERATIONAL ISSUES

20. (a) The normal operating hours of the Site shall be as follows:
- Tuesdays: 8:30 a.m. - 4:45 p.m.
Saturdays: 8:30 a.m. - 4:45 p.m.
- (b) The Owner 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.
21. The Owner shall ensure that all loads of waste are properly inspected by trained Site personnel prior to acceptance at the Site and that the vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Owner shall notify the District Manager, in writing, of load rejections at the Site within three (3) days from their occurrence.
22. Waste shall be deposited in a manner that minimizes the exposure area at the landfill working face and shall be compacted before cover material is applied.

23. (a) The Owner shall ensure that no burning of waste is taking place at the Site.
- (b) The Owner shall ensure that burning of clean wood waste approved to take place at the Site, is done in accordance with the Ministry's Guideline C-7, entitled "Burning at Landfill Sites", dated April 1994, and updated from time to time.
24. The Owner shall ensure that no scavenging is taking place at the Site.
25. The Owner shall ensure that all buildings at the Site are free of any possible landfill gas accumulation. If necessary, the Owner shall provide adequate ventilation systems to relieve landfill gas accumulations in the buildings at the Site.
26. 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.

SIGNS

27. The Owner shall maintain a sign at the main entrance/exit to the Site on which the following information is legibly displayed:
 - (a) name of the Site and Owner;
 - (b) this Certificate number;
 - (c) normal hours of operation;
 - (d) allowable and prohibited waste types;
 - (e) telephone number to which complaints may be directed;
 - (f) twenty-four hour emergency telephone number (if different from above);
 - (g) a warning against unauthorized access; and
 - (h) a warning against dumping outside the Site.
28. The Owner 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.

SITE SECURITY

29. The Owner shall maintain a fence around the Site and the entrance/exit gate to provide control of the Site access.
30. During nonoperating hours, the Owner shall ensure that the Site entrance/exit gate is locked and the Site is secured against access by unauthorized persons.
31. No waste shall be received at the Site except during the operating hours when the Site is under the supervision of trained Site personnel.

SURFACE WATER MANAGEMENT

32. Temporary berms and ditches shall be constructed around the active waste disposal area, as necessary, to prevent extraneous surface water from contacting the active working face.

BIRD, ANIMAL, VECTOR AND VERMIN CONTROL

33. Scavenging birds and animals shall be adequately controlled at the Site to prevent any adverse effects.
34. Vector and vermin shall be adequately controlled at the Site using a licensed exterminator to prevent any adverse effects.

LITTER CONTROL

35. The Owner shall take all practical steps to prevent the escape of litter from the Site. Regular pick-up of litter at the Site and along the access road in the vicinity of the Site shall be carried out. Litter fencing shall be erected around the working area of the landfill as required.

DUST CONTROL

36. The Owner 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.
37. The Owner shall ensure that reasonable efforts are made to keep the access road used by vehicles to leave the Site, free of waste or excess mud or dirt.

NOISE

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

TRAFFIC CONTROL

39. The Owner shall post visible signs along the traffic route providing clear directions to the Site.

VISUAL SCREENING

40. The Owner shall maintain adequate screening of the waste disposal activities undertaken at the Site from the traffic on Escott Road and the surrounding properties.

ENVIRONMENTAL MONITORING

41. (a) Groundwater and surface water monitoring shall be undertaken in accordance with the monitoring programs included in Item 1 of Schedule "A".
- (b) Within twelve (12) months from the date of this Certificate, the Owner shall submit to the District Manager a proposal for additional bedrock monitoring wells.
- (c) No changes to the groundwater and surface water monitoring programs shall be implemented prior to receiving a written approval from the District Manager.

GROUNDWATER WELLS/MONITORS

42. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
43. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells, and the wells shall be properly re-secured.
44. Any groundwater monitoring wells included in the on-going monitoring program that are damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.
 - (a) The Owner 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.
 - (b) All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the Director for abandonment, shall be decommissioned by the Owner, as required, in accordance with **Ontario Regulation 903**, that will prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the annual monitoring report for the period during which the well was decommissioned.

INSPECTIONS

45. (a) The Owner shall ensure that monthly Site inspections, are undertaken by trained Site personnel.
- (b) The areas to be inspected shall include, but not be limited to the following:
 - (i) condition of the active disposal areas, the recyclable bins, the tire pile, the white goods pile and the scrap metal pile;
 - (ii) condition of the surface water drainage works;

- (iii) presence of any ponded water at the Site;
 - (iv) condition of the on-site roads for evidence of excessive erosion and fugitive dust emissions;
 - (v) presence of litter at the Site's perimeter and litter fences;
 - (vi) condition of the intermediate cover and of the final cover;
 - (vii) presence of birds, vector, vermin and animals;
 - (viii) condition of the on-site facilities, the fence, the gate and its lock and the signs required by this Certificate;
 - (ix) condition of the groundwater monitoring wells required for the groundwater monitoring program approved by this Certificate;
 - (x) amount of the cover material to ensure that sufficient daily cover is available at all times that the Site is in operation; and
 - (xi) presence of leachate springs.
- (c) Records of inspections shall be created in accordance with Condition 49.

TRAINING

46. All operators of the Site shall be trained in the following areas:
- (a) terms, conditions and operating requirements of this Certificate;
 - (b) operation and management of the landfill and the other waste storage areas as described in the documents in Schedule "A" attached to this Certificate unless otherwise required by the conditions of this Certificate;
 - (c) outline of the responsibilities of the operators of the Site;
 - (d) any environmental concerns pertaining to wastes being handled at the Site;
 - (e) proper inspection, receiving and recording procedures and the activities to be undertaken during and after a load rejection;
 - (f) occupational health and safety concerns pertaining to the wastes to be handled at the Site;
 - (g) relevant environmental legislation and regulations, including but not limited to the EPA and O. Reg. 347; and

- (h) operation of equipment and procedures to be followed in the event of an emergency situation.

RECORDS KEEPING

- 47. (a) The Owner shall retain all documentation listed in Schedule “A” for as long as this Certificate is valid.
- (b) The Owner shall retain at the Site or at the municipal office, all records required by this Certificate, for a minimum of two (2) years from the date of their creation.
- (c) The Owner shall retain the employee training records for as long as the employee is working at the Site.
- (d) The Owner shall make all of the documents and records required by this Certificate available for inspection upon request by the staff of the Ministry.

COMPLAINTS

- 48. The Owner shall record the name and address of complaint, and the date, time and nature of complaint and the actions taken to address the cause of the complaint, in a log book or a computer file.

INSPECTIONS

- 49. The Owner shall establish and maintain a written record of the Site inspections as required by Condition 45. 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.

COVER APPLICATION

- 50. The Owner shall establish and maintain a written record of the cover application activities as required by Condition 19. 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 cover application; and
 - (b) type of cover and thickness applied.

WHITE GOODS

51. The Owner shall establish and maintain a written record of the white goods handling activities as required by Condition 57. 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 of the record;
- (b) types, quantities and source of white goods which contain refrigerants received;
- (c) details on removal of refrigerants as required by Ontario Regulation 189; and
- (d) the quantities and destination of the white goods and/or refrigerants transferred.

ANNUAL REPORT

52. The Owner shall prepare and submit an Annual Report to the District Manager by March 30 of the year following the calendar year covered by the report which shall include at a minimum, the following:

- (a) calculations of the volume of waste landfilled, the daily and interim covers, the final cover and the overall volume of the Site capacity used during the reporting period;
- (b) a comparison of the actual capacity used to the estimates of the capacity estimated;
- (c) an estimate of the remaining Site life;
- (d) updated drawing to show the proposed final contours of the finished waste mound;
- (e) amount of the recyclable materials, metals, white goods and tires transferred off-site for further processing
- (f) any changes in operations, equipment, or procedures used at the Site, any operating problems encountered and corrective actions taken;
- (g) details on the monitoring program undertaken, outlining monitor locations, analytical parameters sampled, and frequency of sampling;
- (h) an analysis and interpretation of the surface water and groundwater monitoring data, a review of the adequacy of the monitoring program, conclusions of the monitoring data, and recommendations for any changes that may be necessary;
- (i) summary of inspections undertaken at the Site;
- (j) summary of any public complaints received and the responses made;

- (k) a discussion of cover stockpile activities including use, timing, locations and erosion protection;
 - (l) status update on the final cover placement, and seeding activities undertaken in the closed sections of the landfill;
 - (m) updated drawing to show the proposed final contours of the finished waste mound;
 - (n) a statement as to compliance with all conditions of this Certificate and the other relevant Ministry's groundwater and surface water requirements;
 - (o) recommendations respecting any proposed changes in the operation of the Site; and
 - (p) any other information that the Regional Director or the District Manager may require.
53. The frequency or timing of the submission of the Annual Report from Condition 52 may be changed with the written approval from the District Manager.

EMERGENCY SITUATIONS

54. 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.

In addition, the Owner shall submit, to the District Manager a written report within three (3) days of any spill or incident, outlining the nature of the incident, remedial measures taken and the measures taken to prevent future occurrences at the Site.

55. The Owner shall ensure that adequate fire fighting and contingency spill clean-up equipment is available and that the emergency response personnel are familiar with the use of such equipment and its location(s).

LANDFILL CLOSURE

56. At least two (2) years prior to the anticipated date of closure of the landfill at this Site or the date when 90 per cent of the total waste disposal volume is reached, whichever occurs first, the Owner shall submit to the Director for approval, with a copy to the District Manager, a detailed Site Closure Plan pertaining to the termination of the landfilling operations at the Site, post-closure inspection, maintenance and monitoring and the end use. The plan shall include, but not be limited to the following:
- (a) plan showing Site appearance after closure;
 - (b) description of the proposed end use for the Site;

- (c) descriptions of the procedures for closure of the Site, including but not be limited to, the following:
 - (i) advance notification of the public of the Site closure;
 - (ii) posting a sign at the Site entrance indicating the landfill is closed and identifying any alternative waste disposal arrangements;
 - (iii) completion, inspection and maintenance of the final cover and landscaping;
 - (iv) Site security after landfill closure;
 - (v) removal of unnecessary landfill-related structures, buildings and facilities; and
 - (vi) final construction of any necessary control, treatment, disposal and monitoring facilities for ground and surface water and for landfill gas.
- (d) description of the procedures for post-closure care of the Site, including:
 - (i) operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas, if applicable;
 - (ii) record keeping and reporting; and
 - (iii) complaint contact and response procedures.
- (e) an assessment of the adequacy of and need to implement the contingency plans; and
- (f) an estimate of the contaminating life span of the Site, based on the results of the monitoring programs to-date.

WHITE GOODS HANDLING

57. With respect to accepting white goods containing refrigerants, the Owner shall ensure that:
- (a) all white goods which contain refrigerants which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, are stored in a separate area in an upright position; and
 - (b) white goods which contain refrigerants received on-site shall be shipped off-site in order to have the refrigerants removed by a licensed technician in accordance with Ontario Regulation 189; or
 - (c) the refrigerant is removed on-site from white goods by a licensed technician, in accordance with Ontario Regulation 189, prior to shipping white goods off-site; and
 - (d) records of white goods handling shall be created in accordance with Condition 51.

SCHEDULE "A"

1. Application for a Certificate of Approval for a Waste Disposal Site, signed by Paula A. Formanek, Trow Associates Inc., and dated February 19, 2004, and the supporting documentation prepared by Trow Associates Inc. consisting of the following documents:
 - (a) Report entitled "Ward 3 (Escott) Waste Disposal Site A441073 Proposed Expansion", dated February 18, 2004, prepared by Trow Associates Inc., excluding Section 5.16, entitled "Triggering Mechanisms and Contingency Measures - Leachate Migration" and excluding Section 5.6, entitled "Final Grading, Cover Systems and Source of Materials"
 - (b) Drawing No. SP-1, entitled "Site Plan" dated December 16, 2003
 - (c) Drawing No. EC-1, entitled "Existing Conditions" dated December 16, 2003
 - (d) Drawing No. OP-1, entitled "Operations/Development Plan" dated December 16, 2003
 - (e) Drawing No. PFC-1, entitled "Proposed Pre-Aerial Fill Contours" dated June 21, 2004
 - (f) Drawing No. SECT-1, entitled "Cross Sections" dated December 16, 2003

2. Letter dated January 29, 2004 from John Trudgen, Clerk-Administrator, The Township of Leeds and the Thousand Islands, to Director, Environmental Assessment and Approvals Branch, Ministry of Environment, providing the authorization for Trow Associates Inc. to act as the Township's agent.

3. Letter dated June 22, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - permeability of the daily and interim cover
 - permeability of the final cover over the existing trenches
 - frequency of the daily cover application
 - description of the alternative daily/interim cover
 - specifications relating to burning of clean wood waste
 - clarification of the existing capacity of the waste landfilled to-date
 - details of the public consultation

4. Letter dated July 14, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - timing of the final cover application
 - procedures for compaction of waste and placement of daily cover
 - days and hours of operation of the waste disposal site
 - agreement to 300 mm interim cover thickness
 - frequency of daily cover application during winter months

- proposal for ensuring hydraulic conductivity continuity between the existing and the new waste
- minimum slope for top of the waste mound
- further clarification related to the existing capacity of the waste landfilled to-date

5. Letter dated September 28, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:

- confirmation of the daily cover application frequency
- confirmation of the site area

The reasons for the imposition of these terms and conditions are as follows:

1. Conditions 1, 3-7, inclusive and 10 are included to clarify the legal rights and responsibilities of the Owner.
2. Condition 2 is included to ensure that the Site is operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.
3. Conditions 8 and 9 are included to ensure that the appropriate Ministry staff have ready access to information and the operations of the Site, which are approved under this Certificate. Condition 8 is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA , the Ontario Water Resources Act , and the Pesticides Act , as amended.
4. Conditions 11 and 12 are included, pursuant to subsection 197(1) of the EPA , to ensure that any persons having an interest in the site are aware that the land has been approved and used for the purposes of waste disposal.
5. Conditions 13 and 14 are included to specify the approved areas from which waste may be accepted at the Site and the types of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.
6. Conditions 15, 16, 17 and 18 are included to specify restrictions on the extent of landfilling at this Site based on the Owner's application and supporting documentation. These limits define the approved volumetric capacity of the Site. Condition 16 is also included to specify restrictions on the extent of landfilling within the fill area to maintain a vertical separation between the groundwater table and the waste.
7. Condition 19 is included to specify the requirement of daily or interim cover applications to control potential nuisance effects, to facilitate vehicle access on the Site and to ensure an acceptable Site appearance.

8. Condition 20 is included to specify the hours of operation for the landfill Site and a mechanism for amendment of the hours of operation.
9. Condition 21 is included to require inspections that would ensure that only approved waste types are accepted at the Site and that the Ministry is notified of any attempts to dispose off unacceptable wastes.
10. Condition 22 is included to require waste compaction to maximize the capacity of the Site and to provide environmental benefits associated with greater compaction of waste.
11. Condition 23(a) is included to prohibit burning of waste at the Site because of concerns with air emissions, smoke and other nuisance effects and the potential fire hazard. Condition 23(b) is included to control burning of wood products at the Site, to minimize potential environmental adverse effects.
12. Condition 24 is included to ensure protection of public health and safety, and minimization of potential damage to environmental controls, monitoring and other works at the Site due to uncontrolled removal of materials from waste at the Site.
13. Condition 25 is included to ensure that all buildings and structures at the Site are free of any landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the Site.
14. Condition 26 is included to require reasonable maintenance of the on-site roads to ensure safe delivery of waste to the working face or to and from the other waste types storage areas.
15. Conditions 27 and 28 are included to ensure that the users of the Site are fully aware of important information and restrictions related to the Site operations as specified by this Certificate.
16. Conditions 29, 30 and 31 are included to ensure that the Site access and integrity are controlled by preventing unauthorized access when the Site is closed and no Site attendant is on duty.
17. Condition 32 is included to ensure that drainage onto or leaving the Site does not adversely affect Site operations or create a nuisance or a hazard to the health and safety of the environment.
18. Conditions 33 - 40, inclusive, and 57 are included to ensure that the Site is designed and operated in a way that does not result in a hazard or nuisance to the natural environment or any persons.
19. Condition 41 is included to provide information that demonstrates that the Site is performing as designed and the impacts on the natural environment are within the Ministry's limits. Condition 41(b) is also included to require the Owner to install additional bedrock wells to delineate the leachate impacts in the bedrock unit.

20. Conditions 42, 43 and 44 are included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved and the natural environment is protected.
21. Condition 45 is included to ensure that regular inspections are conducted at the Site, to verify that the Site is operated in accordance to this Certificate and in a manner that would not result in a hazard or nuisance to the natural environment or any persons.
22. Condition 46 is included to ensure that the Site is operated and supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any persons.
23. Conditions 47 - 53, inclusive, are included to ensure that information pertaining to Site development, operations and monitoring data is documented and any possible improvements to Site design, operations or monitoring programs are identified. Condition 48 is also included to ensure that any complaints related to Site operations are addressed in a timely manner and actions are taken to prevent similar complaints from occurring again. Condition 52 is also included to provide the Ministry with a concise and organized tool to review the Site activities and the effectiveness of the design and to verify compliance with the conditions of this Certificate and other relevant Ministry's requirements.
24. Condition 54 is included to ensure that incidents of spills are reported to the Ministry to ensure public health and safety and environmental protection.
25. Condition 55 is included to ensure that the Owner is prepared to handle emergency situations that may arise at the Site and that staff and equipment are available to handle such situations.
26. Condition 56 is included to ensure that final closure of the Site is completed in an aesthetically pleasing manner and to ensure long-term protection of the natural environment.

This Provisional Certificate of Approval revokes and replaces Certificate(s) of Approval No. A441703 issued on May 11, 1982

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the waste disposal site is located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

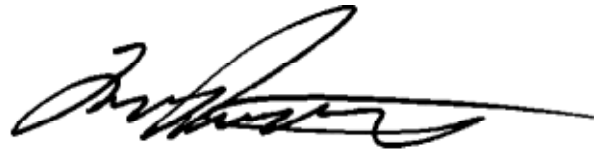
AND

The Director
Section 39, *Environmental Protection Act*
Ministry of Environment and Energy
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

The above noted waste disposal site is approved under Section 39 of the Environmental Protection Act.

DATED AT TORONTO this 4th day of October, 2004



Ian Parrott, P.Eng.
Director
Section 39, *Environmental Protection Act*

MW/

c: District Manager, MOE Kingston - District
Paula Formanek, Trow Associates Inc.

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A441703

Issue Date: February 13, 2021

The Corporation of the Township of Leeds and the Thousand Islands
1233 Prince St Lansdowne
Leeds and the Thousand Islands, Ontario
K0E 1L0

Site Location: Ward 3 (Escott) LFS
227 Escott-Rockport Road, Lots 9&10, BF Concession
Leeds and the Thousand Islands Township, United Counties of Leeds and Grenville
K0E 1R0

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the use and operation of 1.0 hectare waste disposal/transfer site within a total site area of 15.1 hectares.

For the purpose of this environmental compliance approval, the following definitions apply:

“Approval” means this Environmental Compliance Approval and any Schedules to it;

“Contaminating Life Span” means contaminating life span as defined in Ontario Regulation 232/98;

“Director” means any Ministry employee appointed in writing by the Minister pursuant to section 5 of the EPA as a Director for the purposes of Part II.1 of the EPA;

“District Manager” means the District Manager of the local district office of the Ministry in which the Site is geographically located;

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

“NMA” means the *Nutrient Management Act, 2002*, S.O. 2002, c. 4, as amended;

“O. Reg. 101/94” means Ontario Regulation 101: (Recycling and Composting of Municipal Waste), made under the EPA, as amended;

“O. Reg. 232/98” means Ontario Regulation 232/98: (Landfilling Sites), made under the EPA, as amended;

"O. Reg. 463/10" means Ontario Regulation 463/10 (Ozone Depleting Substances and Other Halocarbons), made under the EPA, as amended;

“Ontario Drinking Water Quality Standards” means Ontario Regulation 169/03 (Ontario Drinking Water Quality Standards), made under the SDWA, as amended;

“Operator” means any person, other than the Owner's employees, authorized by the Owner as having the charge, management or control of any aspect of the Site and includes its successors or assigns;

“Owner” means any person that is responsible for the establishment or operation of the Site being approved by this Approval, and includes the Corporation of the Township of Leeds and the Thousand Islands and its successors and assigns;

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;

“PA” means the *Pesticides Act*, R.S.O. (1990), c. P.11, as amended;

“Provincial Officer” means any person designated in writing by the Minister as a provincial officer pursuant to Section 5 of the OWRA, Section 5 of the EPA, Section 17 of the PA, Section 4 of the NMA, or Section 8 of the SDWA;

“Regional Director” means the Regional Director of the local Regional Office of the Ministry in which the Site is located;

“Reg. 347” means R.R.O. 1990, Reg. 347: (General - Waste Management), made under the EPA, as amended;

“Reg. 903” means R.R.O. 1990, Reg. 903: (Wells), made under the OWRA, as amended;

“SDWA” means the *Safe Drinking Water Act, 2002*, S.O. 2002, c. 32, as amended;

"Schedules" means the following schedules attached to this Approval and forming part of this Approval namely:

- o Schedule 1 - Supporting Documentation;
- o Schedule 2 - Surface Water Monitoring Program; and
- o Schedule 3 - Groundwater Monitoring Program;

“Site” means the entire waste disposal site, including the buffer lands, and contaminant attenuation zone at Ward 3 (Escott) LFS, 227 Escott-Rockport Road, Lots 9&10, BF Concession, Leeds and the

Thousand Islands Township, United Counties of Leeds and Grenville;

“Trained Personnel” means personnel knowledgeable in the following through instruction and/or practice:

- o relevant waste management legislation, regulations and guidelines;
- o major environmental concerns pertaining to the waste to be handled;
- o occupational health and safety concerns pertaining to the processes and wastes to be handled;
- o management procedures including the use and operation of equipment for the processes and wastes to be handled;
- o emergency response procedures;
- o specific written procedures for the control of nuisance conditions;
- o specific written procedures for refusal of unacceptable waste loads; and
- o the requirements of this Approval; and

"White Goods" means household appliances which use, or may use refrigerants, and which include, but is not limited to, refrigerators, freezers and air-conditioning systems.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL

Compliance

1. The Owner and Operator shall ensure compliance with all the conditions of this Approval and shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Approval.

In Accordance

3. Except as otherwise provided by this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the documentation listed in the attached Schedule 1.

Interpretation

4. Where there is a conflict between a provision of any document listed in Schedule 1 in this Approval, and the conditions of this Approval, the conditions in this Approval shall take precedence.

5. Where there is a conflict between the application and a provision in any document listed in Schedule 1, the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.
6. Where there is a conflict between any two documents listed in Schedule 1, the document bearing the most recent date shall take precedence.
7. The conditions of this Approval are severable. If any condition of this Approval, or the application of any condition of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

Other Legal Obligations

8. The issuance of, and compliance with, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner and Operator to furnish any further information related to compliance with this Approval.

Adverse Effect

9. The Owner and Operator shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.
10. Despite an Owner, Operator or any other person fulfilling any obligations imposed by this Approval the person remains responsible for any contravention of any other condition of this Approval or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.

Change of Ownership

11. The Owner shall notify the Director, in writing, and forward a copy of the notification to the District Manager, within 30 days of the occurrence of any changes in the following information:
 - a. the ownership of the Site;
 - b. the Operator of the Site;
 - c. the address of the Owner or Operator; and
 - d. the partners, where the Owner or Operator is or at any time becomes a partnership

and a copy of the most recent declaration filed under the Business Names Act, R. S. O. 1990, c. B.17, shall be included in the notification.

12. No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance and sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out.
13. In the event of any change in ownership of the Site, other than change to a successor municipality, the Owner shall notify the successor of and provide the successor with a copy of this Approval, and the Owner shall provide a copy of the notification to the District Manager and the Director.

Registration on Title Requirement

14. Prior to dealing with the property in any way, the Owner shall provide a copy of this Approval and any amendments, to any person who will acquire an interest in the property as a result of the dealing.
15.
 - a. Within sixty (60) calendar days from the date of issuance of this Approval, the Owner shall submit to the Director a completed Certificate of Requirement which shall include:
 - i. a plan of survey prepared, signed and sealed by an Ontario Land Surveyor, which shows the area of the Site where waste has been or is to be deposited at the Site;
 - ii. proof of ownership of the Site;
 - iii. a letter signed by a member of the Law Society of Upper Canada or other qualified legal practitioner acceptable to the Director, verifying the legal description provided in the Certificate of Requirement;
 - iv. the legal abstract of the property; and
 - v. any supporting documents including a registerable description of the Site.
 - b. Within fifteen (15) calendar days of receiving a Certificate of Requirement authorized by the Director, the Owner shall:
 - i. register the Certificate of Requirement in the appropriate Land Registry Office on the title to the property; and
 - ii. submit to the Director and the District Manager, written verification that the Certificate of Requirement has been registered on title.

Inspections by the Ministry

16. No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA, of any place to which this Approval relates, and without limiting the foregoing:
 - a. to enter upon the premises where the approved works are located, or the location where the records required by the conditions of this Approval are kept;

- b. to have access to, inspect, and copy any records required to be kept by the conditions of this Approval;
- c. to inspect the Site, related equipment and appurtenances;
- d. to inspect the practices, procedures, or operations required by the conditions of this Approval; and
- e. to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Approval or the EPA, the OWRA, the PA, the SDWA or the NMA.

Information and Record Retention

- 17.
 - a. Except as authorized in writing by the Director, all records required by this Approval shall be retained at the Site at the Site, or within the Owner's offices where otherwise practical, for a minimum of two (2) years from their date of creation.
 - b. The Owner shall retain all documentation listed in Schedule 1 for as long as this Approval is valid.
 - c. All monthly summary reports of waste records collected are to be kept at the Site at the Site, or within the Owner's offices where otherwise practical until they are included in the Annual Report.
 - d. The Owner shall retain employee training records as long as the employee is working at the Site.
 - e. The Owner shall make all of the above documents available for inspection upon request of Ministry staff.

- 18. The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action under this Approval or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:
 - a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Approval or any statute, regulation or other legal requirement; or
 - b. acceptance by the Ministry of the information's completeness or accuracy.

- 19. The Owner shall ensure that a copy of this Approval, in its entirety and including all its Notices of Amendment, and documentation listed in Schedule 1, are retained at the Site at all times.

- 20. Any information related to this Approval and contained in Ministry files may be made available to the public in accordance with the provisions of the Freedom of Information and Protection of Privacy Act, RSO 1990, CF-31.

2. SITE OPERATION

Operation

1. The Site shall be operated and maintained at all times including management and disposal of all waste, in accordance with the EPA, Reg. 347, and the conditions of this Approval. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Signs

2. The Owner shall install and maintain a sign at the entrance to the Site. The sign shall be visible and readable from the main road leading to the Site. The following information shall be included on the sign:
 - a. the name of the Site and Owner;
 - b. the number of the Approval;
 - c. the name of the Operator;
 - d. the normal hours of operation;
 - e. the allowable and prohibited waste types;
 - f. the telephone number to which complaints may be directed;
 - g. a warning against unauthorized access;
 - h. a twenty-four (24) hour emergency telephone number (if different from above); and
 - i. a warning against dumping outside the Site.
3. The Owner shall install and maintain signs to direct vehicles to working face/waste bins and recycling bins/areas.
4. The Owner shall provide signs at recycling depot informing users what materials are acceptable and directing users to appropriate storage areas.

Vermin, Vectors, Dust, Litter, Odour, Noise and Traffic

5. The Site shall be operated and maintained such that the vermin, vectors, dust, litter, odour, noise and traffic do not create a nuisance.

Burning Waste Prohibited

6.
 - a. Burning of waste at the Site is prohibited.
 - b. Notwithstanding condition 2.6.a. above, burning of segregated, clean wood and brush at the landfill may be carried out in strict compliance with the Ministry of

the Environment Document titled "Guideline C-7, Burning at Landfill Sites" dated April 1994.

Site Access

7. Waste shall only be accepted during the following time periods:
Tuesdays:8:30 a.m. - 4:45 p.m.
Saturdays:8:30 a.m. - 4:45 p.m.
8. On-site equipment used for daily site preparation and closing activities may be operated one (1) hour before and one (1) hour after the hours of operation approved by this Approval.
9. With the prior written approval from the District Manager, the time periods may be extended to accommodate seasonal or unusual quantities of waste.

Site Security

10. No waste shall be received, landfilled or removed from the Site unless a site supervisor or an attendant is present and supervises the operations during operating hours. The Site shall be closed when a site attendant is not present to supervise landfilling operations.
11. The Site shall be operated and maintained in a safe and secure manner. During non-operating hours, the Site entrance and exit gates shall be locked and the Site shall be secured against access by unauthorized persons.
12. Temporary berms and ditches shall be constructed around the active waste disposal area, as necessary, to prevent extraneous surface water from contacting the active working face.

Visual Screening

13. The Owner shall maintain adequate screening of the waste disposal activities undertaken at the Site from the traffic on Escott Road and the surrounding properties.

3. EMPLOYEE TRAINING

1. A training plan for all employees that operate any aspect of the Site shall be developed and implemented by the Owner or the Operator. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Approval.

4. COMPLAINTS RESPONSE PROCEDURE

1. If at any time the Owner receives complaints regarding the operation of the Site, the Owner shall respond to these complaints according to the following procedure:
 - a. The Owner 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 Owner, upon notification of the complaint, shall initiate appropriate steps to determine 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 Owner 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.

5. EMERGENCY RESPONSE

1. All Spills as defined in the EPA shall be immediately reported to the **Ministry's Spills Action Centre at 1-800-268-6060** and shall be recorded in the log book as to the nature of the emergency situation, and the action taken for clean-up, correction and prevention of future occurrences.
2. In addition, the Owner 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 occurrences at the Site.
3. All wastes resulting from an emergency situation shall be managed and disposed of in accordance with Reg. 347.
4. 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. adequately maintained and kept in good repair.
5. The Owner shall ensure that the emergency response personnel are familiar with the use of such equipment and its location(s).

6. INSPECTIONS, RECORD KEEPING AND REPORTING

Inspections

1. The Owner shall ensure that Site inspections are undertaken by Trained Personnel.
2. The areas to be inspected shall include, but not be limited to the following:
 - a. condition of the active disposal areas, the recyclable bins, the tire pile, the white goods pile and the scrap metal pile;
 - 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 and fugitive dust emissions;
 - e. presence of litter at the Site's perimeter and litter fences;
 - f. condition of the intermediate cover and of the final cover;
 - g. presence of birds, vector, vermin and animals;
 - h. condition of the on-site facilities, the fence, the gate and its lock and the signs required by this Certificate;
 - i. condition of the groundwater monitoring wells required for the groundwater monitoring program approved by this Certificate;
 - j. amount of the cover material to ensure that sufficient daily cover is available at all times that the Site is in operation; and
 - k. presence of leachate springs.

Daily Log Book

3. A log shall be maintained in written or electronic format and shall include the following information:
 - a. the type, date and time of arrival, hauler, and quantity (tonnes, number of bags, and/or number of loads and corresponding volumes) of all waste and cover material received at the Site;
 - b. the area of the Site in which waste disposal operations are taking place;
 - c. a record of litter collection activities and the application of any dust suppressants;
 - d. a record of inspections; and
 - e. a description of any out-of-service period of any control, treatment, disposal or monitoring facilities, the reasons for the loss of service, and action taken to restore and maintain service.
4. Any information requested, by the Director or a Provincial Officer, concerning the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall be provided to the Ministry, upon request.

Daily Inspections and Log Book

5. An inspection of the entire Site and all equipment on the Site shall be conducted each day

the Site is in operation to ensure that: the Site is secure; that the operation of the Site is not causing any nuisances; 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 Approval. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site if needed.

6. A record of the inspections shall be kept in a log book that includes:
 - a. the name and signature of person that conducted the inspection;
 - b. the date and time of the inspection;
 - c. the list of any deficiencies discovered;
 - d. the recommendations for remedial action; and
 - e. the date, time and description of actions taken.
7. A record shall be kept in the log book of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

Annual Report

8. The Owner shall prepare and submit an Annual Report to the District Manager by March 30 of the year following the calendar year covered by the report which shall include at a minimum, the following:
 - a. calculations of the volume of waste landfilled, the daily and interim covers, the final cover and the overall volume of the Site capacity used during the reporting period;
 - b. a comparison of the actual capacity used to the estimates of the capacity estimated;
 - c. an estimate of the remaining Site life;
 - d. updated drawing to show the proposed final contours of the finished waste mound;
 - e. amount of the recyclable materials, metals, white goods and tires transferred off-site for further processing;
 - f. any changes in operations, equipment, or procedures used at the Site, any operating problems encountered and corrective actions taken;
 - g. details on the monitoring program undertaken, outlining monitor locations, analytical parameters sampled, and frequency of sampling;
 - h. all current and historical groundwater and surface water data in a tabular format;
 - i. an analysis and interpretation of the surface water and groundwater monitoring data, a review of the adequacy of the monitoring program, conclusions of the monitoring data, and recommendations for any changes that may be necessary;
 - j. summary of inspections undertaken at the Site;
 - k. summary of any public complaints received and the responses made;
 - l. a discussion of cover stockpile activities including use, timing, locations and erosion protection;
 - m. status update on the final cover placement, and seeding activities undertaken in

- n. the closed sections of the landfill;
- n. updated drawing to show the proposed final contours of the finished waste mound;
- o. a statement as to compliance with all conditions of this Certificate and the other relevant Ministry's groundwater and surface water requirements;
- p. recommendations respecting any proposed changes in the operation of the Site; and
- q. any other information that the Regional Director or the District Manager may require.

7. LANDFILL DESIGN AND DEVELOPMENT

Approved Waste Types

1. Only municipal waste as defined under Reg. 347 being solid non-hazardous shall be accepted at the Site for landfilling.
2. The Owner 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 Approval.
3. The Owner shall ensure that all loads of waste are properly inspected by Trained 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 Owner shall notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence.

Capacity

4. The total waste disposal volume of the Site, including the waste, daily cover and intermediate cover, but excluding final cover, is 40,000 cubic metres. This capacity includes the existing and proposed waste to be landfilled.

Waste Placement

5. No waste shall be placed lower than 0.5 metre below the existing ground or within one (1) metre of highest groundwater level.
6. Disposal of waste shall only occur within the areas as delineated on Drawing No. OP-1, entitled "Operations/Development Plan" dated December 16, 2003.

Service Area

7. a. The approved service area for the Site for receiving waste for disposal at the Site is only **Ward 3, Front of Escott**, of the Township of Leeds and the Thousand

Islands.

- b. Notwithstanding condition 7. a. the Owner may collect and transfer waste (recyclables and waste for disposal at an approved facility) from the municipal boundaries of the Township of Leeds and the Thousand Islands.

Cover

8. Daily and interim cover material shall consist of a permeable material and it shall be applied in accordance with Item 4 of Schedule 1. Crushed glass may be mixed with the soil to be used for daily and interim covers.
9. Cover material shall be applied as follows:
 - a. **Periodic Cover** - Weather permitting, deposited waste shall be covered **every two weeks** from mid May to Mid September and once a month during the rest of the year, the entire working face shall be covered with a minimum thickness of 150 mm of daily cover so that no waste is exposed to the atmosphere;
 - b. **Intermediate Cover** - In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 millimetre of soil cover or an approved thickness of alternative cover material shall be placed; and
 - c. **Final Cover** - In areas where landfilling has been completed to final contours, a minimum 600 millimetre thick layer of soil of low permeability (less than 1×10^{-7} m/s) and 150 millimetres of top soil (vegetative cover) shall be placed.
 - d. The frequency of application and the cover thickness in subsections a and b above are minimum requirements, and may have to be increased if environmental adverse effects have been found to occur.
10. Installation of the Bell Mobility Tower at the location shown in the Drawing Number SP2 titled "Site Plan", dated March 16, 2010 and prepared by The Greer Galloway Group Inc. is hereby approved.

8. LANDFILL MONITORING

Landfill Gas

1. The Owner shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible landfill gas accumulation to prevent methane concentration reaching the levels within its explosive range. 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.

Compliance

2. 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; and
 - c. Ontario Drinking Water Quality Standards.

Surface Water and Groundwater

3. The Owner shall monitor surface water and groundwater in accordance with the monitoring programs outlined in Schedules 2 and 3.
4. A certified Professional Geoscientist or Engineer possessing appropriate hydrogeologic training and experience shall execute or directly supervise the execution of the groundwater monitoring and reporting program.

Groundwater Wells and Monitors

5. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
6. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.
7. Any groundwater monitoring well included in the on-going monitoring program that is damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.
 - a. The Owner 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.
 - b. All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the Director for abandonment, shall be decommissioned by the Owner, as required, in accordance with Reg. 903, to prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the Annual Report for the period during which the well was decommissioned.

Trigger Mechanisms and Contingency Plans

8.
 - a. Within one (1) year from the date of this Approval, the Owner shall submit to the District Manager, details of a trigger mechanisms plan for surface water and groundwater quality monitoring for the purpose of initiating investigative activities into the cause of increased contaminant concentrations.
 - b. Within one (1) year from the date of this Approval, the Owner shall submit to the District Manager, details of a contingency plan to be implemented in the event that the surface water or groundwater quality exceeds any trigger mechanism.
9. In the event of a confirmed exceedance of a site-specific trigger level relating to leachate mounding or groundwater or surface water impacts due to leachate, the Owner shall immediately notify the District Manager, and an investigation into the cause and the need for implementation of remedial or contingency actions shall be carried out by the Owner in accordance with the approved trigger mechanisms and associated contingency plans.
10. If monitoring results, investigative activities and/or trigger mechanisms indicate the need to implement contingency measures, the Owner shall ensure that the following steps are taken:
 - a. The Owner shall notify the District Manager, in writing of the need to implement contingency measures, no later than 30 days after confirmation of the exceedances;
 - b. Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the Owner to the Director for approval; and
 - c. The contingency measures shall be implemented by the Owner upon approval by the Director.
11. The Owner shall ensure that any proposed changes to the site-specific trigger levels for leachate impacts to the surface water or groundwater, are approved in advance by the Director via an amendment to this Approval.

Changes to the Monitoring Programs, Trigger Mechanisms and Contingency Plans

12. The Owner may request to make changes to the monitoring program(s), trigger mechanisms and/or contingency plan 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.
13. 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, trigger mechanisms and/or contingency plans,

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 Director requesting the Approval be amended to approve the proposed changes to the environmental monitoring plan prior to implementation.

9. CLOSURE PLAN

1. Operations, Closure and Transfer Station Plans dated February 27, 2020 (Item 8 in Schedule 1) is hereby approved.
2. The Site shall be closed in accordance with the closure plan as approved by the Director.

10. WASTE DIVERSION AND WASTE TRANSFER FOR DISPOSAL

1. The Owner 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 high wind events; and
 - c. if necessary to prevent litter, waste storage areas shall be covered during high winds events.
2. The Owner/Operator shall remove the refrigerant as defined in O. Reg. 463/10 in accordance with the following:
 - a. all White Goods containing refrigerants which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, shall be stored in a separate area in an upright position; and
 - b. White Goods containing refrigerants received at the Site shall be shipped off-Site in order to have the refrigerants removed by a licensed technician in accordance with O. Reg. 463/10; or
 - c. the refrigerant shall be removed at the Site by a licensed technician, in accordance with O. Reg. 463/10, prior to shipping White Goods off-Site; and
 - d. a detailed log of all White Goods containing refrigerants received shall be maintained. The log shall include the following:
 - i. date of the record;
 - ii. types, quantities and source of White Goods containing refrigerants received;
 - iii. details on removal of refrigerants as required by O. Reg. 463/10; and
 - iv. the quantities and destination of the White Goods and/or refrigerants transferred from the Site.

3. The Owner shall transfer waste and recyclable materials from the Site as follows:
 - a. Waste collected for transfer to a approved waste disposal site shall be transferred at a minimum every 14 days.
 - b. recyclable materials shall be transferred off-site once their storage bins are full;
 - c. scrap metal shall be transferred off-site at least twice a year;
 - d. tires shall be transferred off-site as soon as a load for the contractor hired by the Owner has accumulated or as soon as the accumulated volume exceeds the storage capacity; and
 - e. immediately, in the event that waste is creating an odour, vermin or vector problem.

Schedule 1

1. Application for a Certificate of Approval for a Waste Disposal Site, signed by Paula A. Formanek, Trow Associates Inc., and dated February 19, 2004, and the supporting documentation prepared by Trow Associates Inc. consisting of the following documents:
 - (a) Report entitled "Ward 3 (Escott) Waste Disposal Site A441073 Proposed Expansion", dated February 18, 2004, prepared by Trow Associates Inc., excluding Section 5.16, entitled "Triggering Mechanisms and Contingency Measures - Leachate Migration" and excluding Section 5.6, entitled "Final Grading, Cover Systems and Source of Materials"
 - (b) Drawing No. SP-1, entitled "Site Plan" dated December 16, 2003
 - (c) Drawing No. EC-1, entitled "Existing Conditions" dated December 16, 2003
 - (d) Drawing No. OP-1, entitled "Operations/Development Plan" dated December 16, 2003
 - (e) Drawing No. PFC-1, entitled "Proposed Pre-Aerial Fill Contours" dated June 21, 2004
 - (f) Drawing No. SECT-1, entitled "Cross Sections" dated December 16, 2003
2. Letter dated January 29, 2004 from John Trudgen, Clerk-Administrator, The Township of Leeds and the Thousand Islands, to Director, Environmental Assessment and Approvals Branch, Ministry of Environment, providing the authorization for Trow Associates Inc. to act as the Township's agent.
3. Letter dated June 22, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - permeability of the daily and interim cover
 - permeability of the final cover over the existing trenches
 - frequency of the daily cover application
 - description of the alternative daily/interim cover
 - specifications relating to burning of clean wood waste
 - clarification of the existing capacity of the waste landfilled to-date
 - details of the public consultation
4. Letter dated July 14, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - timing of the final cover application
 - procedures for compaction of waste and placement of daily cover
 - days and hours of operation of the waste disposal site
 - agreement to 300 mm interim cover thickness
 - frequency of daily cover application during winter months
 - proposal for ensuring hydraulic conductivity continuity between the existing and the new

waste

-minimum slope for top of the waste mound

-further clarification related to the existing capacity of the waste landfilled to-date

5. Letter dated September 28, 2004 from Paula A. Formanek, Trow Associates Inc., to Margaret Wojcik, Ministry of Environment, providing the following additional information:
 - confirmation of the daily cover application frequency
 - confirmation of the site area
6. Application for a Certificate of Approval for a Waste Disposal Site dated March 10, 2010 and signed by Vanessa Latimer, Clerk, The Corporation of the Township of Leeds and the Thousand Islands including supporting information submitted with the application.
7. Environmental Compliance Approval Application dated February 7, 2020 and signed by Adam Goheen, Director of Operations, The Corporation of the Township of Leeds and the Thousand Islands, including the attached supporting documentation.
8. Report titled "Operations, Closure and Transfer Station Plans for the Escott Waste Disposal Site" prepared by Malroz Engineering for The Corporation of the Township of Leeds and the Thousand Islands.

**Schedule 2
Surface Water Monitoring Program**

Location	Task	Frequency	Analytical Parameters
SW4, SW5, HBO, and HBI	<ul style="list-style-type: none"> -Monitor groundwater elevations -Collect surface water samples -Monitor water quality (field parameters) 	Spring and Fall	<p><u>Lab Parameters</u></p> <p>alkalinity, ammonia, BOD, COD, DOC, conductivity, hardness, pH phenols, phosphorous (total), phosphorous (dissolved), TDS, TSS, TKN, chloride, nitrate, nitrite, sulphate, mercury (dissolved), aluminum (dissolved), arsenic, barium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, silicon, silver, sodium, uranium, zinc.</p> <p><u>Field Parameters</u></p> <p>pH, temperature, conductivity, dissolved oxygen, turbidity, flow, unionized ammonia (calc)</p>

**Schedule 3
Groundwater Monitoring Program**

Location	Task	Frequency	Analytical Parameters
OW3, OW5, OW8R1, OW11R1, OW12, OW13, OW14, BW1, BW2, BW3, BW4, MW101, MW102, MW103, and MW104.	-Monitor groundwater elevations -Collect groundwater samples -Monitor water quality (field parameters)	Spring and Fall	<p><u>Lab Parameters</u> alkalinity, ammonia, BOD, COD, DOC, conductivity, hardness, pH phenols, phosphorous (total), TDS, TSS, TKN, chloride, Nitrate, Nitrite, sulphate, mercury, aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, selenium, silicon, sodium, strontium, thallium, tin, titanium, tungsten, uranium, vanadium, zinc.</p> <p><u>Field Parameters</u> pH, ORP, temperature, dissolved oxygen, conductivity, turbidity, unionized ammonia (calc)</p>
OW14 and BW1		Spring and Fall (every two years - 2022, 2024, 2026..)	acetone, trans-1,3-dichloropropylene, benzene, 1,3-dichloropropene (total), bromodichloromethane, ethylbenzene, bromoform, hexane, bromomethane, Methyl ethyl ketone, Carbon tetrachloride, methyl butyl ketone, chlorobenzene, methyl isobutyl ketone, chloroethane, methyl tert-butyl ether, chloroform, methylene chloride, chloromethane, styrene, dibromochloromethane, 1,1,1,2-tetrachloroethane, dichlorodifluoromethane, 1,1,2,2-tetrachloroethane, ethylene dibromide, tetrachloroethylene, 1,2 dichlorobenzene, toluene, 1,3-dichlorobenzene, 1,1,1-trichloroethane, 1,4-dichlorobenzene, 1,1,2-trichloroethane, 1,1-dichloroethane, trichloroethylene, 1,2-dichloroethane, trichlorofluoromethane, 1,1-dichloroethylene, 1,3,5-trimethylbenzene, cis-1,2-dichloroethylene, vinyl chloride, trans-1,2-dichloroethylene, m/p-xylene, o-xylene, xylenes (total), 1,2-dichloroethylene (total), 1,2-dichloropropane, cis-1,3-dichloropropylene

The reasons for the imposition of these terms and conditions are as follows:

GENERAL

- The reason for conditions 1.1, 1.2, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.17, 1.18 and 1.19 is to clarify the legal rights and responsibilities of the Owner and Operator under this Approval.
- The reasons for condition 1.3 are to ensure that the Site is designed, operated, monitored and maintained in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.
- The reasons for condition 1.11 are to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval and to ensure that the Director is informed of any changes.
- The reasons for condition 1.12 are to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Approval.
- The reason for condition 1.13 is to ensure that the successor is aware of its legal responsibilities.
- The reasons for conditions 1.14 and 1.15 are that the Part II.1 Director is an individual with authority pursuant to Section 197 of the Environmental Protection Act to require registration on title and provide any person with an interest in property before dealing with the property in any way to give a copy of the Approval to any person who will acquire an interest in the property as a result of the dealing.
- The reason for condition 1.16 is to ensure that appropriate Ministry staff has ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the Act, the OWRA, the PA, the NMA and the SDWA.
- Condition 1.20 has been included in order to clarify what information may be subject to the Freedom of Information Act.

SITE OPERATION

- The reasons for conditions 2.1, 2.5, 2.12 and 6.5 are to ensure that the Site is operated, inspected and maintained in an environmentally acceptable manner and does not result in a hazard or nuisance to the natural environment or any person.
- The reason for conditions 2.2, 2.3 and 2.4 is to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Approval.

- The reasons for condition 2.6.a and 2.6.b are open burning of municipal waste is unacceptable because of concerns with air emissions, smoke and other nuisance effects, and the potential fire hazard and to make sure burning of brush and wood are carried out in accordance with Ministry guidelines.
- The reasons for condition 2.7, 2.8 and 2.9 are to specify the hours of operation for the landfill site and a mechanism for amendment of the hours of operation, as required.
- The reasons for condition 2.10 and 2.11 are to ensure that the Site is supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person and to ensure the controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no site attendant is on duty.

EMPLOYEE TRAINING

- The reason for condition 3.1 is to ensure that the Site is supervised and operated by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.

COMPLAINTS RESPONSE PROCEDURE

- The reason for condition 4.1 is to ensure that any complaints regarding landfill operations at this Site are responded to in a timely and efficient manner.

EMERGENCY RESPONSE

- Conditions 5.1 and 5.2 are included to ensure that emergency situations are reported to the Ministry to ensure public health and safety and environmental protection.
- Conditions 5.3, 5.4 and 5.5 are included to ensure that emergency situations are handled in a manner to minimize the likelihood of an adverse effect and to ensure public health and safety and environmental protection.

RECORD KEEPING AND REPORTING

- Condition 6.1 and 6.2 are included to ensure that regular inspections are conducted at the Site, to verify that the Site is operated in accordance to this Certificate and in a manner that would not result in a hazard or nuisance to the natural environment or any persons.
- The reason for conditions 6.3 and 6.4 is to ensure that accurate waste records are maintained to ensure compliance with the conditions in this Approval (such as fill rate, site capacity, record keeping, annual reporting, and financial assurance requirements), the EPA and its regulations.
- The reason for conditions 6.6 and 6.7 is to ensure that detailed records of Site inspections are

recorded and maintained for inspection and information purposes.

- The reasons for condition 6.8 are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. An annual report is an important tool used in reviewing site activities and for determining the effectiveness of site design.

LANDFILL DESIGN AND DEVELOPMENT

- The reason for conditions 7.1 to 7.4 inclusive and 7.7 inclusive is to specify the approved areas from which waste may be accepted at the Site and the types and amounts of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.
- Conditions 7.5 and 7.6 are included to specify restrictions on the extent of landfilling at this Site based on the Owner's application and supporting documentation. These limits define the approved volumetric capacity of the Site. Condition 7.5 is also included to specify restrictions on the extent of landfilling within the fill area to maintain a vertical separation between the groundwater table and the waste.
- Condition 7.8 is included to specify the requirement of daily or interim cover applications to control potential nuisance effects, to facilitate vehicle access on the Site and to ensure an acceptable Site appearance.
- The reasons for condition 7.9 are to ensure that daily/weekly and intermediate cover are used to control potential nuisance effects, to facilitate vehicle access on the Site, and to ensure an acceptable site appearance is maintained. The proper closure of a landfill site requires the application of a final cover which is aesthetically pleasing, controls infiltration, and is suitable for the end use planned for the Site.
- Condition 7.10 is included to provide minimum requirements for the geosynthetic clay final cover if the Owner proposes to use geosynthetic clay for the final cover.
- The reason for the condition 7.10 is to approve the installation of the Bell Mobility Tower within the landfill property.

LANDFILL MONITORING

- Reasons for condition 8.1 are to ensure that landfill gas is monitored and all buildings at the Site are free of any landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the Site.
- Condition 8.2 is included to provide the groundwater and surface water limits to prevent water pollution at the Site.

- Conditions 8.3 and 8.4 are included to require the Owner to demonstrate that the Site is performing as designed and the impacts on the natural environment are acceptable. Regular monitoring allows for the analysis of trends over time and ensures that there is an early warning of potential problems so that any necessary remedial/contingency action can be taken.
- Conditions 8.5, 8.6 and 8.7 are included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved, and the natural environment is protected.
- Conditions 8.8 to 8.11 inclusive are added to ensure the Owner has a plan with an organized set of procedures for identifying and responding to potential issues relating to groundwater and surface water contamination at the Site's compliance point.
- Conditions 8.12 and 8.13 are included to streamline the approval of the changes to the monitoring plans and trigger mechanisms and contingency plans.

CLOSURE PLAN

- The reasons for condition 9 are to ensure that final closure of the Site is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure the long-term protection of the health and safety of the public and the environment.

WASTE DIVERSION

- Condition 10 is included to approve the collection and transfer of waste and the recyclable materials. They are stored in their temporary storage location and transferred off-site in a manner as to minimize a likelihood of an adverse effect or a hazard to the natural environment or any person.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A441703 issued on October 4, 2004 as amended.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of
the Environmental Protection Act
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 13th day of February, 2021



Mohsen Keyvani, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

RM/

c: District Manager, MECP Kingston - District
John Pyke P. Geo. and Albert Paschkowiak, Malroz Engineering

Appendix D
Borehole Logs



308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8
Canada
613-548-3446
www.malroz.com

PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH101

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Split Spoon**

WELL ID: **MW101**
WELL TAG#: -
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **424927**
NORTHING: **4917786**

LOGGED BY: **RF** INPUT BY: **RF** FIELD INSTRUMENT(S): **RKI Eagle II** DATE DRILLED: **February 18, 2020** VALIDATED BY: **MW** CHECK: **MW**

Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/Ft (RQD)	CGI (% LEL)			PID (ppm)				
										0	50	100	0	25	50	75	100
	0			Clayey Silt trace sand, trace rootlets, dark brown, soft becoming stiff, damp	Damp	Damp	SS1	75	4	●							
	1		1.2	becoming light brown			SS2	75	21	●							
	2		1.8	becoming moist			SS3	71	19	●							
	2.4		2.5	becoming dark brown/grey			SS4	100	21	●							
	3		3.0	becoming wet			SS5	100	24	●							
	4		3.8	Silty Clay trace sand, brown/grey, soft, damp			SS6	75	14	●							
	4.6		4.7	Sandy Silt trace clay, brown/grey, hard, wet			SS7	100	4	●							
	4.9			Possible Weathered Rock			SS8	100	R	●							
	5			End of borehole in inferred bedrock (4.9 m).			SS9	100	R	●							

Notes: Well Construction Details
aboveground casing
50 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT



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PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH102

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Split Spoon**

WELL ID: **MW102**
WELL TAG#: -
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **425018**
NORTHING: **4917823**

LOGGED BY: RF	INPUT BY: RF	FIELD INSTRUMENT(S): RKI Eagle II	DATE DRILLED: February 18, 2020	VALIDATED BY: MW	CHECK: MW
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Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/Ft (RQD)	CGI (% LEL)			PID (ppm)					
										0	50	100	0	25	50	75	100	
	0		0.8	Clayey Silt trace sand, trace rootlets, light brown, soft	Moist	Dry-Damp	SS1	88	4	●				▲				
	1			Silt trace clay, light brown, firm			SS2	100	15	●				▲				
	2						SS3	100	13	●				▲				
	3						SS4	58	12	●				▲				
	3.5			becoming dark brown/grey			SS5	100	9	●				▲				
	3.7			Silty Clay trace sand, brown/grey, soft			SS6	100	13	●				▲				
	4						SS7 SS8	100	5	●				▲				
	4.4						SS9	100	R	●				▲				
	5						End of borehole on inferred bedrock (4.4 m).											

Notes: Well Construction Details
aboveground casing
50 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

Well is nested with MW103

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT



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PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH103

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Core**

WELL ID: **MW103**
WELL TAG#: **A259032**
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **425017**
NORTHING: **4917821**

LOGGED BY: RF	INPUT BY: RF	FIELD INSTRUMENT(S): RKI Eagle II	DATE DRILLED: February 19, 2020	VALIDATED BY: MW	CHECK: MW
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Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/Ft (RQD)	CGI (% LEL)			PID (ppm)																				
										0	50	100	0	25	50	75	100																
	0			See BH102 for lithology																													
	3.6	Bedrock	granite, medium-grained, felsic, fracture at 3.84 m																														
	4.1		fractures at 4.14 m and 4.19 m																														
	4.7		fractures at 4.65 m, 4.69 m, and 4.75 m																														
	5.1		vertical fracture 4.87 m to 5.05 m																														
	5.4		fractures at 5.43 and 5.45 m																														
	5.6		fracture at 5.64 m																														
	6.0		fracture at 5.97 m																														
	6.1		fracture at 6.12 m																														
	6.6		fracture at 6.55 m																														
6.7		fracture at 6.73 m																															
7.5				End of borehole at target depth (7.5 m).																													

Notes: Well Construction Details
aboveground casing
38 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

Well is nested with MW102

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT



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PROJECT:
1038 - Escott WDS

CLIENT:
The Township of Leeds and the Thousand Islands

BOREHOLE LOG:
BH104

DRILLING CONTRACTOR: **Canadian Environmental Drilling**

DRILLING EQUIPMENT: **CME 55 Track Mount**

DRILLING METHOD: **4" Solid Stem Auger**

SAMPLING METHOD: **Split Spoon**

WELL ID: **MW104**
WELL TAG#: -
GROUND SURFACE ELEV.: -
TOP ELEVATION: -

DATUM: **18T NAD83**
EASTING: **425123**
NORTHING: **4917883**

LOGGED BY: RF	INPUT BY: RF	FIELD INSTRUMENT(S): RKI Eagle II	DATE DRILLED: February 19, 2020	VALIDATED BY: MW	CHECK: MW
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Well Construction	Depth (meters)	Lithology	Boundary Depth	Description	Type	Moisture	Sample	% REC	Blows/Ft (ROD)	CGI (% LEL)			PID (ppm)												
										0	50	100	0	25	50	75	100								
	0	Clayey Silt	0.6	some sand, trace rootlets, brown/grey, soft	Damp		SS1	75	4	●															
				SS2																					
	1			trace rounded cobbles, becoming firm																					
				SS3			100	19	●																
				SS4			75	24	●																
	2			becoming stiff																					
		SS5	100	11			●																		
		SS6	100	13			●																		
	3	Silty Clay	3.3	trace sand, grey, stiff			Moist			SS7	100	14	●												
				SS8						100	8	●													
				SS9						100	17	●													
		SS10	100	4			●																		
	4	Silt	4.4	trace clay, trace sand, grey, stiff			Wet			SS11	100	10	●												
	SS12																								
	SS13			100	12	●																			
5																									
6																									
6.7				End of borehole at target depth (6.7 m).																					
7																									

Notes: Well Construction Details
aboveground casing
50 mm schedule 40 PVC
0.25 mm slotted screen
1.5 m screen
#2 sand

THIS BOREHOLE LOG MUST BE READ TOGETHER WITH THE ACCOMPANYING REPORT

Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-1

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0 to 1.52		Cover Material Clay Tan color Very Dry	1.52		Flush Mount Well Box Clay Seal (Bentonite HolePlug)
1.52 to 4.88		Landfill Household refuse Black color Partly saturated	-1.52		00 Silica Sand
4.88 to 6.25		Clay Massive structure Light brown color Saturated	4.88		
6.25 to 6.25		Bedrock Refusal	-4.88		
6.25 to 6.25			-6.25		

Drilled By: G.E.T. Drilling Drill Date: 9 May 2001 Drill Method: Solid Stem Auger Hole Size: 125 mm	TROW-OMM Consulting Engineers #210 - 4 Cataraqui Street Kingston, Ontario, K7K 1Z7 T (613)542-1253 F (613)547-3767	Well Diameter: 51 mm Well Material: S40 PVC Screen: #10
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Project: MK 14517 A

Well ID: OW-2

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Flush Mount Well Box
1		Soil Cover Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4					
5					
6					
7					
8			2.44		
8		Landfill Household refuse Black color Partly saturated	-2.44		00 Silica Sand
9					
10					
11					
12					
13					
14			6.1		
14		Native Clay Massive structure Light brown color Saturated	-6.1		
15					
16					
17			7.62		
18		Bedrock Refusal	-7.62		
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling Drill Date: 9 May 2001 Drill Method: Solid Stem Auger Hole Size: 125 mm	TROW-OMM Consulting Engineers #210 - 4 Cataraqui Street Kingston, Ontario, K7K 1Z7 T (613)542-1253 F (613)547-3767	Well Diameter: 51 mm Well Material: S40 PVC Screen: #10
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Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-3

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4				1.37	
5		Clay Massive structure Brown color Saturated	-1.37		00 Silica Sand
6					
7					
8					
9					
10				3.4	
11		Bedrock Refusal	-3.4		
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 9 May 2001
 Drill Method: Solid Stem Auger
 Hole Size: 125 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 51 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

Well ID: OW-4

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4				1.37	
5		Clay Massive structure Brown color Saturated			00 Silica Sand
6					
7					
8				-1.37	
9		Bedrock Refusal			
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
			2.74		
			-2.74		

Drilled By: G.E.T. Drilling Drill Date: 9 May 2001 Drill Method: Solid Stem Auger Hole Size: 125 mm	TROW-OMM Consulting Engineers #210 - 4 Cataraqui Street Kingston, Ontario, K7K 1Z7 T (613)542-1253 F (613)547-3767	Well Diameter: 51 mm Well Material: S40 PVC Screen: #10
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Project: MK 14517 A
 Ward 3 Waste Disposal Site

Well ID: OW-5

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry	1.52		Clay Seal (Bentonite HolePlug)
2					
3					
4					
5		Clay Massive structure Brown color Saturated	-1.52		00 Silica Sand
6					
7					
8					
9					
10					
11					
12					
13					
14					
15		Bedrock Refusal	4.72		
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 9 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

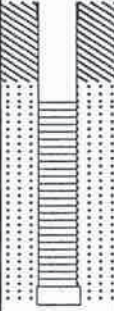
Well ID: OW-6

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
1		<i>Native Material</i> Clay Tan color Very Dry	0		Piezometer Stick-Up Clay Seal (Bentonite HolePlug)
2					
3					
4					
5		<i>Silty Clay</i> Massive structure Brown color Saturated Sand lenses 1.8-2.3m	1.37		00 Silica Sand
6			-1.37		
7			2.29		
8		Bedrock Refusal	-2.29		
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling

Drill Date: 10 May 2001

Drill Method: Hollow Stem Hammer

Hole Size: 51 mm

TROW-OMM Consulting Engineers

#210 - 4 Cataraqui Street

Kingston, Ontario, K7K 1Z7

T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm

Well Material: S40 PVC

Screen: #10

Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-7

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up Clay Seal (Bentonite HolePlug)
1		Native Material Clay Tan color Very Dry	1.45		00 Silica Sand
2					
3					
4					
5		Silty Clay Massive structure Brown color Saturated	-1.45		
6					
7					
8					
9		Bedrock Refusal	-3.05		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A
 Ward 3 Waste Disposal Site

Well ID: OW-8

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug) 00 Silica Sand
2					
3					
4					
5				1.83	
6		Silty Clay Massive structure Brown color Saturated	-1.83		
7					
8					
9					
10		Bedrock Refusal	3.05		
11				-3.05	
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10

Project: MK 14517 A

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Well ID: OW-9

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material			
2		Clay			Clay Seal (Bentonite HolePlug)
3		Tan color			
3		Very Dry	1.22		
4			-1.22		
5		Silty Clay			
6		Massive structure			00 Silica Sand
7		Brown color			
8		Saturated	2.74		
9			-2.74		
10		Bedrock Refusal			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling Drill Date: 10 May 2001 Drill Method: Hollow Stem Hammer Hole Size: 51 mm	TROW-OMM Consulting Engineers #210 - 4 Catarauqui Street Kingston, Ontario, K7K 1Z7 T (613)542-1253 F (613)547-3767	Well Diameter: 26 mm Well Material: S40 PVC Screen: #10
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Project: MK 14517 A

Well ID: OW-10

Ward 3 Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: L:9 / C:BF / T:Front of Escott

Engineer: SW

SUBSURFACE PROFILE				WELL CONSTRUCTION DETAILS	
Depth	Symbol	Description	Depth/Elev.	Well Profile	Remarks
0		Ground Surface	0		
0			0		Piezometer Stick-Up
1		Native Material Clay Tan color Very Dry			Clay Seal (Bentonite HolePlug)
2					
3					
4					
5			1.52		
6		Silty Clay Massive structure Brown color Saturated	-1.52		00 Silica Sand
7					
8					
9					
10		Bedrock Refusal	2.82		
11				-2.82	
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Drilled By: G.E.T. Drilling
 Drill Date: 10 May 2001
 Drill Method: Hollow Stem Hammer
 Hole Size: 51 mm

TROW-OMM Consulting Engineers
 #210 - 4 Cataraqui Street
 Kingston, Ontario, K7K 1Z7
 T (613)542-1253 F (613)547-3767

Well Diameter: 26 mm
 Well Material: S40 PVC
 Screen: #10



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: OW-11

Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown, ONT

Logged by: L. Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
0		Ground Surface					
0.25		CLAYEY SILT Dark brown with rootlets	0.25	D	70%		
0.61		SILTY CLAY Fine, dark brown	0.61	D	100%		
2.26		SILTY CLAY Mottled dark brown and grey	2.26	D	100%		
3.48		SILTY CLAY Mottled medium brown to grey	3.48	W	100%		
4.22		CLAYEY SILT Fine-mottled medium brown to grey	4.22	W	100%		
4.45		SILTY CLAY Mottled medium brown and grey	4.45	W	100%		
15		End of Borehole					

The diagram shows a vertical well completion. At the top is a piezometer. Below it is a 1.37 m benseal. A sand pack is located between approximately 2.26 m and 3.48 m depth. A slot size 10 screen is located between 3.48 m and 4.45 m. The water level is indicated as being between 2.44 m and 2.74 m. A refusal is noted at 3.89 m, and a possible cave-in is noted at the bottom of the hole.

Drilled By: G.E.T. Drilling

Drill Method: Jack Hammer

Drill Date: July 29, 2003

Hole Size: 50 mm

Datum: 89.462

Sheet: 1 of 1



Trow Associates Inc.
 210 The Woolen Mill
 4 Catarqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: OW-12

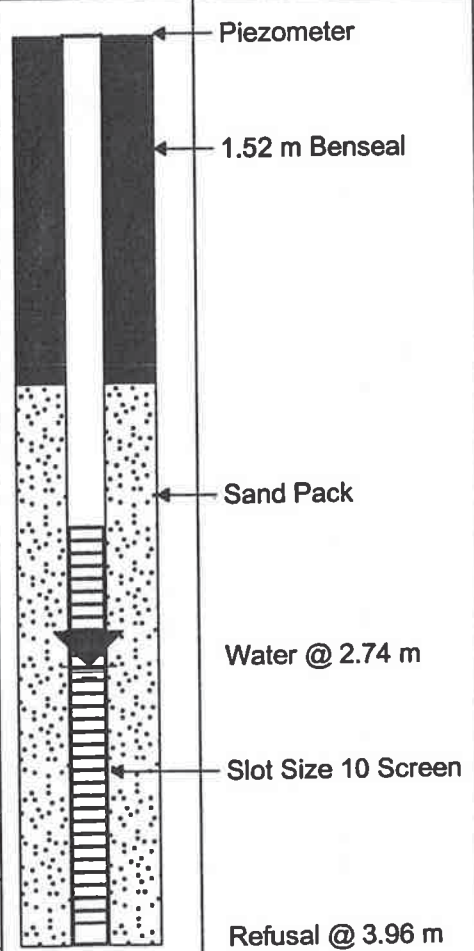
Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown. ONT

Logged by: L. Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
0		Ground Surface					
0		Clayey Silt Traces of sand. Dark brown	0.41	D	60 %		Piezometer
1		Silty Clay Mottled medium brown to grey					1.52 m Benseal
2							
3							
4							
5							
6				D			
7							Sand Pack
8							
9							Water @ 2.74 m
10			3.10				
11		Clayey Silt Medium brown to mottled grey	3.38	M			Slot Size 10 Screen
12		Silty Clay Mottled medium brown and grey	3.66	M			
13		Silty Clay Grey	3.96	M			Refusal @ 3.96 m
14		End of Borehole					
15							
16							



Drilled By: G.E.T. Drilling

Hole Size: 50 mm

Drill Method: Jack Hammer

Datum: 88.912

Drill Date: July 29, 2003

Sheet: 1 of 1



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: OW-13

Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown, ONT

Logged by: L. Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
0		Ground Surface	0.00				Piezometer 1.1 m Benseal Gravel/Sand Pack Slot Size 10 Screen Water @ 3.35 m Sand Pack Refusal @ 4.27 m Possible cave in at bottom of hole
0		Topsoil Black decomposed material	0.20	D	100 %		
1		Silty Clay Black	0.71	D	100 %		
2		Silty Clay Mottled grey to dark brown					
3		Silty Clay Mottled medium brown and grey	2.29	D	100 %		
4							
5							
6							
7		Silty Clay- Trace Silt Mottled medium brown to grey	4.57	M	100 %		
8							
9							
10							
11			4.57				
12							
13			4.57				
14							
15		End of Borehole					
16							

Drilled By: G.E.T Drilling

Hole Size: 50 mm

Drill Method: Jack Hammer

Datum: 90.557

Drill Date: July 29, 2003

Sheet: 1 of 1



Trow Associates Inc.
 210 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517-C

Monitoring Well: BW-1

Project: Escott Waste Disposal Site

Client: Township of Leeds and Thousand Islands

Location: 227 Escott Rockport, Mallorytown, ONT

Logged by: L.Frink

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
-3		Ground Surface	0.00			<p>Piezometer stick-up 1.07 m Steel Casing Bentonite Gravel and Bentonite Mix Bentonite Sand Pack Water @ 19.81 m Slot Size 10 Screen Bottom of hole @ 21.95 m</p>	
2	[Hatched]	Silty Clay Brown.	2.13				
7	[Dotted]	Sandstone Brown.	2.74				
12	[Dotted]	Sandstone Red.	3.66				
17	[Dotted]	Sandstone Grey/Red	4.57				
22	[Dotted]	Granite Red.					
27	[Dotted]						
32	[Dotted]						
37	[Dotted]						
42	[Dotted]						
47	[Dotted]						
52	[Dotted]		16.76				
57	[Dotted]	Granite Gray.	18.59				
62	[Dotted]	Granite Red.					
67	[Dotted]						
72	[Dotted]		21.95				
77		End of Borehole					

Drilled By: Knox Well Drilling

Hole Size: 50 mm

Drill Method: Rotary Percussion

Datum: 90.87 m

Drill Date: Aug. 29, 2003

Sheet: 1 of 1



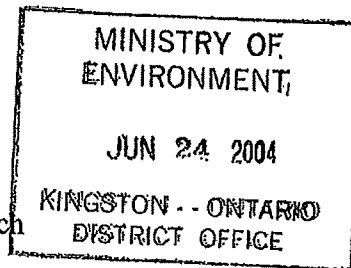
Trow Associates Inc.

315 The Woolen Mill, 4 Cataraqui Street
Kingston, Ontario K7K 1Z7
kingston@trow.com / www.trow.com

Telephone: (613) 542-1253 / Facsimile: (613) 547-3767

Reference: 14517-X

Ms. Margaret Wojcik, P. Eng.
Ministry of the Environment
Environmental Assessment and Approvals Branch
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5



June 22, 2004

Via Facsimile
416-314-8452
& Regular Mail

**Application for Approval of Waste Disposal Site
Amendment for Changes in Operations, and Expansion of Site
Ward 3 (Escott) Waste Disposal Site A441073
Leeds and the Thousand Island Township
United Counties of Leeds and Grenville
MOE Reference Number: 9969-5WVJDB**

Dear Ms. Wojcik:

Thank you for your correspondence dated May 4, 2004 concerning the above noted application. The purpose of this letter is to provide the additional information requested. The information is provided in the same order as requested in your May 4 correspondence.

1. We agree with your comment; interim cover should be comprised of permeable material. The plans in the report will be revised to specify this (see note No. 4 on Dwg. OP-1).
2. We agree with your comment. As much of the existing impermeable cover as possible will be removed and will be stockpiled. The stockpile area(s) have been identified on Dwg. OP-1.
3. We collected four (4) samples of the existing cover across the site to verify the permeability. A grain size analysis identified three (3) of the four (4) samples as a silty clay with some or a trace of sand, and gravel or trace of gravel. The fourth sample was found to be a gravelly sand with some silt and trace of clay. Therefore, this material is a till and is not suitable to be used as an interim cover. Accordingly, the existing cover will be removed, stockpiled and used as final cover (see # 2 above).
4. Specifications for stripping and stockpiling the existing cover and post-stripping contours are as follows:

Brampton (Greater Toronto-Head Office) + Barrie + Cambridge + Cornwall + Dorval (Greater Montreal)
+ Hamilton + Inuvik + Kamloops + London + Markham + North Bay + Orillia + Ottawa + Simcoe +
Sudbury + Tallahassee + Thunder Bay + Vancouver + Welland + Windsor



- a) Strip the existing cover as aerial filling progresses. For example, strip the existing cover at south limit and utilize to create perimeter berms. Perimeter berms will eventually cover and encapsulate the sides of the above-grade landfill.
- b) Continue as the existing landfill is exposed.
- c) Cover any exposed waste with a 150 mm minimum or more of permeable material to establish a working surface.

The final contours as shown in our report are based on minimum 4:1 slopes; they will not change. However, the volume estimates will change due to the final cover being removed from the calculation (see # 12 below).

5. A track front-end loader will be used for waste compaction.
6. During the months of May through to the end of September, waste will be covered with an interim cover material weekly, on Tuesdays, as a minimum, with additional applications as required. Furthermore, stockpiled interim cover material will be applied at any time that site conditions warrant. (Please note: the landfill is open only on Tuesdays and Saturdays.)
7. We agree with your comment. Interim cover needs to be applied in landfilled areas not in use for more than six (6) months. 150 mm of material will be put in place. This will be noted on the site plan.
8. Yes, we would like to have the option to use shredded glass mixed with soil as an interim cover.
9. The municipality would like to continue to burn brush and wood on-site. The brush and wood burning area is shown on the site plan. The following are proposed specifications relating to the burning of brush and clean wood:
 - The piles of clean wood and brush to be burned will be no larger than 4.0 metres by 3.0 metres in area, and 2.0 metres high;
 - The burning will be initiated with paper;
 - The burning location is shown on Dwg. OP-1;
 - Areas designated for burning shall be cleared of vegetation;
 - Burning shall be permitted in small piles only subject to weather conditions;
 - All fires will be completely extinguished before the end of the work day;
 - Fires will not be started using flammable liquids such as petroleum products and/or rubber;
 - After each burning event the fire pit shall be cleaned out and ashes properly disposed;
 - All necessary fire fighting equipment shall be placed within or in the close vicinity of the burning area including a soil stockpile for emergency extinguishing of the fire; and,
 - Each burning event shall be supervised and immediately extinguished if supervision is no longer available.

10. Settling ponds (i.e., siltation control traps) are proposed to settle out sediments by capturing surface run-off and temporarily detaining it. Surface run-off will be contaminated by sediment not leachate. Perimeter lift initiating berms will contain any precipitation falling on the refuse. The remaining potential avenue for the contamination of surface runoff is via seepage which is expected to occur at most small landfills where leachate is controlled by natural attenuation.
11. We believe that it is actually Section 53 of the OWRA. An application will be made when the works are needed.
12. a) We included final cover material in all calculations previously submitted.
 - b) The volume of in-place waste is 3.0 metres deep and includes final cover material, which ranges from 0.6 to 2.1 metres in thickness. If 0.6 metres are subtracted, this leaves 2.4 metres of waste. Accordingly, the statement that "overflowing has occurred" should be retracted.
 - c) The volume of material that can be added by aerial filling is limited by the following criteria:
 - i) 4:1 side slopes and footprint area/configuration (long and narrow); and
 - ii) the amount of cover material that can be salvaged and re-used.

Assuming there is 2.4 metres of landfill over 0.7 hectares, including in-situ native soils between trenches, then there is approximately 16,800 m³ of material in place. This leaves a maximum 23,200 m³ space available (40,000 m³ - 16,800 m³) for additional landfill including daily and interim cover. Some of this available space is already consumed by existing final cover material, and some is lost to accommodate 750 mm of final cover over the aerial fill within the final contours.

In effect, there is only 12,500 m³ of space available above existing grade, excluding final cover.

This space can be increased by the amount of existing cover material salvaged. (It is not possible to fit 40,000 m³ of waste, plus 750 mm final cover, within the existing footprint due to its elongated configuration and existing ground elevations. To accommodate 40,000 m³, the footprint area must increase or the amount of existing cover material salvaged must be increased.)

It is impractical to recover all of the final cover material that has been placed. For volume calculations, we previously assumed 50 percent could be salvaged (5,000 m³). This would produce an available volume of 17,500 m³ for waste and interim cover.

The final volume encapsulated within the landfill footprint at 4:1 final slopes will consist of 16,800 m³ of waste (including in-situ soils) placed by burial, plus approximately 5,000 m³ of unsalvageable final cover material, plus 5,000 m³ of waste and interim cover space made available by removing 5,000 m³ of existing final cover, plus 12,500 m³ of space obtained for

waste and interim cover by filling aerially, plus 7,500 m³ of final cover material to cap the landfill. The total amount of material encapsulated, including final cover and in-situ soil wedges, will be approximately 46,800 m³. There will be a net of 39,300 m³ of waste, interim cover and unsalvageable burial method cover, plus 7,500 m³ is final cover beneath the contours shown on Dwg OP-1. The final volume will reflect the amount of existing cover that can be salvaged up to a total volume of 40,000 m³ excluding final capping material.

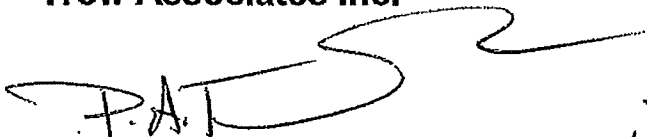
If the 2.4 metres depth of approved landfill, or 7,200 m³ volume, within the un-excavated footprint area of 0.3 ha is considered, then the expansion would be equal to the above 12,500 m³ plus salvaged cover ($\pm 5,000$ m³) or 17,500 m³ minus 7,200 m³, or approximately 10,300 m³.

13. As per your recommendation, we contacted Mr. Peter Taylor, Senior Environmental Officer, Ministry of Environment in Kingston regarding details on a suitable public consultation program for this proposal. It was agreed that an Open House be held to communicate the proposal to the public. The Open House was scheduled for June 3, 2004 at 3:00 p.m. with a second session at 6:30 p.m. However, the notice was only partially printed by the newspaper. Nevertheless, the Open House was held anyway because a large sign with the notice was also posted at the landfill, informing the public of the proposal with an invitation to the Open House. Two (2) people attended the Open House on June 3, 2004. A second Open House was held on June 11, 2004 at 3:00 p.m. with an evening session at 7:00 p.m. This notice was successfully advertised in the Gananoque Reporter on June 9, 2004 (proof of notice attached). A large sign was again posted at the landfill to advise the public on the proposal with an invitation to the Open House. There were no public attendees at the June 11, 2004 Open House.

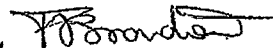
Trusting that the above is satisfactory. However, please do not hesitate to contact the undersigned if you have any questions.

Yours truly,

Trow Associates Inc.



Paula A. Formanek, M. Sc. (Eng.), P. Geo. Sr. Hydrogeologist
Branch Manager



Jamieson S. Gourley, P.Eng.
Senior Engineer

Attachments:

cc: Peter Taylor, Senior Environmental Officer, Ministry of the Environment, Kingston, Ontario

E:\Projects\14000\14500\14517 Escott Landfill\14517X - Extra Work (C of A)\Correspondence\040616-letter-Margaret Wojcik-CofA application.doc



Trow Associates Inc.
 315 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

Project No.: MK14517

Monitoring Well: BW-3

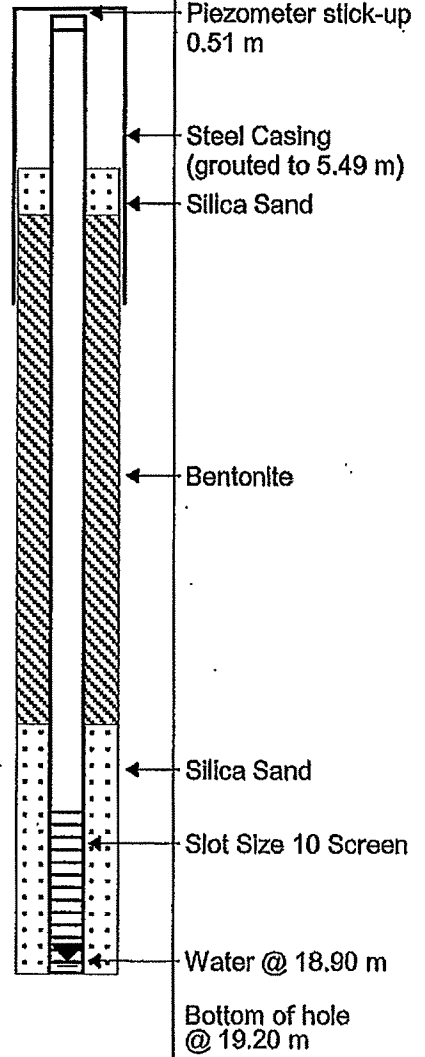
Project: Escott Waste Disposal Site

Client: Township of Leeds and the Thousand Islands

Location: 227 Escott-Rockport Road, Rockport, Ontario

Logged by: T. Virtue

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
-3		Ground Surface	0.00				
2		<i>Clay</i> Brown					
7							
12		<i>Sandstone</i> Grey	5.18				
17			6.40				
22		<i>Sandstone</i> Greyish Red					
27							
32		<i>Granite</i> Red	12.80				
37			13.41				
42		<i>Granite</i> Reddish Grey					
47			15.55				
52		<i>Granite</i> Red					
57			18.90				
62		<i>Granite</i> Reddish Grey	18.90				
67			19.20				
72		End of Borehole					



Drilled By: Knox Well Drilling

Hole Size: 50 mm

Drill Method: Rotary Percussion

Datum:

Drill Date: October 4, 2005

Sheet: 1 of 1

Project No.: MK14517

Monitoring Well: BW-2

Project: Escott Waste Disposal Site

Client: Township of Leeds and the Thousand Islands

Location: 227 Escott-Rockport Road, Rockport, Ontario

Logged by: T. Virtue

Trow Associates Inc.
 315 The Woolen Mill
 4 Cataraqui Street
 Kingston, Ontario

SUBSURFACE PROFILE				SAMPLE		Well Completion Details	Comments
Depth	Symbol	Description	Depth/Elev.	Moisture	Recovery		
ft m -3 -1		Ground Surface	0.00				Piezometer stick-up 0.91 m Steel casing grouted to 3.05 m Bentonite Water level 2.42 m at time of drilling Silica Sand Slot Size 10 Screen Bottom of hole at 7.92 m
		Clay Brown. Dry.	0.46				
2		Granite Red/White					
7							
12			3.66				
17			4.88				
22			7.92				
27		End of Borehole					

Drilled By: Jack Knox Well Drilling

Hole Size: 50 mm

Drill Method: Air Percussion

Datum:

Drill Date: August 28, 2006

Sheet: 1 of 1

Appendix E
Site Photos

2020-04-14

2020-04-14



Photo 1: view of SW4.



Photo 2: view of SW5.

2020-04-14

2020-04-15



Photo 3: view of SW7.



Photo 4: view of surface water location SW8.

2020-04-14

2020-10-20



Photo 5: view of surface water station HBI.



Photo 6: view of surface water station HBO.

2020-10-20

2020-10-20



Photo 7: view of OW8.



Photo 8: view of BW3.

2020-04-15

2020-04-15



Photo 9: view of OW3.



Photo 10: view of OW5.

2020-10-20



Photo 11: view of BW1.

2020-04-14



Photo 12: view of OW12.

2020-10-20



Photo 13: view of OW13.

2020-10-20



Photo 14: view of BW2.

2020-04-14



Photo 15: view of OW7.

2020-10-20



Photo 16: view of OW13.

2020-10-20



Photo 17: view of MW101.

2020-10-20



Photo 18: view of MW102 and MW103.

2020-10-20



Photo 19: view of MW104.

2020-10-20

2020-10-20



Photo 20: view of recycling bins and attendant shed facing southwest.



Photo 22: view of waste face looking north.

2020-10-20



Photo 21: view of sign at the front gate.

Appendix F
MECP Correspondence

**Ministry of the
Environment,
Conservation and Parks**
Eastern Region
1259 Gardiners Road, Unit 3
Kingston ON K7P 3J6
Phone: 613.549.4000
or 1.800.267.0974

**Ministère de l'Environnement,
de la Protection de la nature
et des Parcs**
Région de l'Est
1259, rue Gardiners, unité 3
Kingston (Ontario) K7P 3J6
Tél: 613 549-4000
ou 1 800 267-0974



MEMORANDUM

July 16, 2020

TO: Nathalie Matthews
Senior Environmental Officer
Kingston District Office
Eastern Region

FROM: Sarah Baxter
Surface Water Specialist
Technical Support Section
Eastern Region

RE: Escott Waste Disposal Site
2019 Annual Monitoring Report
Township of Leeds and the Thousand Islands; United Counties of Leeds &
Grenville
Environmental Compliance Approval #A441703
IDS #3225-BN7GEC

I have reviewed the “*Escott Waste Disposal Site 2019 Annual Monitoring, Development and Operations Report*” dated March 2020 and prepared by Malroz Engineering Inc. The following comments, relative to surface water impact concerns, are provided for your consideration.

Background

The Escott Waste Disposal Site (WDS) is a natural attenuation landfill that is owned and operated by the Township of Leeds and the Thousand Islands. The site has been operating since at least 1982 when Environmental Compliance Approval (ECA) #A411703 was first issued. The approved fill area is 1.0 hectares within a 15.1 hectare property.

The site is approved to receive solid non-hazardous waste. The site also collects recyclables, white goods, and scrap metal for transfer offsite. Clean wood is burned on site once per month. The ECA was most recently amended and updated in 2004.

According to a 2019 topographical survey, the WDS has approximately 2.6 years of site life remaining. A closure plan has been submitted to the Ministry and will be reviewed under separate cover. Full sections of the mound have already been sloped, contoured, and capped.

In 2019, four new groundwater monitoring wells were installed (i.e. MW101, MW102, MW103, MW104), two groundwater monitoring wells were abandoned (i.e. OW8, OW11), and on-site grading was completed to reduce surface water ponding.

Site Description

The Escott WDS is located on Lots 8, 9, 10, Concession Broken Front, Geographic Township of Escott, in the Township of Leeds and the Thousand Islands. The site is approximately 0.5 kilometers north of Highway 401 and 2.3 kilometers northwest of the St. Lawrence River. The landfill is accessed via the east side of Escott/Rockport Road.

The landfill is situated in an agricultural portion of the Upper St. Lawrence-1000 Islands tertiary watershed. The site is bound by Escott/Rockport Road to the east, agricultural fields to the north and west, and forest and wetland to the south.

An agricultural drain (i.e. North Stream) is located 75 meters north of the site, while an unnamed tributary (i.e. South Stream) and the Larue Mills Creek Provincially Significant Wetland (PSW) Complex are situated on the south side of the site. The Hickenbottom Drain originates in a drainage ditch just east of the mound and collects runoff from the WDS and tile drainage from the neighbouring fields. All three water features flow northeastward, eventually reaching La Rue Mills Creek.

According to Malroz, the overburden is brown silty clay, silt, clay or clayey silt 0.46 to 7.62 meters deep. The bedrock is mostly sandstone overlying Precambrian red granite. Bedrock outcropping is common south of the site. Interpreted groundwater flow is to the northeast, towards the Hickenbottom Drain.

The annual report characterizes the landfill leachate as having elevated alkalinity, aluminum, ammonia, biochemical oxygen demand (BOD), chloride, conductivity, dissolved organic carbon (DOC), hardness, iron, manganese, pH, sodium, sulphate, total dissolved solids (TDS), and total Kjeldahl nitrogen (TKN). As inferred from overburden groundwater monitoring wells OW8R1 (background) and OW14 (leachate), the leachate may also be characterized as having elevated barium, boron, calcium, chemical oxygen demand (COD), magnesium, phosphorus and potassium.

Surface Water Monitoring Program

Seven surface water monitoring stations currently exist at the Escott WDS:

- SW3 – drainage ditch southeast of mound, draining to HBI (downgradient);
- SW4 – North Stream, at Escott/Rockport Road (background);
- SW5 – North Stream, northeast of landfill site (downgradient);
- SW7 – South Stream, at Escott/Rockport Road (background);
- SW8 – drainage ditch south of mound, draining to South Stream (downgradient);
- HBI – Hickenbottom Drain, inlet; and,
- HBO – Hickenbottom Drain, outlet.

Surface water monitoring was conducted on April 30 and November 25, 2019. Samples were not collected from SW3 for either event, but reasoning for this was not provided. Table 4 of the report indicates SW7 and SW8 were stagnant in April and November. April field sheets indicate there was staining along the western face of the mound. Malroz made best attempts to sample after rain events.

Results

North Stream

The Provincial Water Quality Objectives (PWQOs) for copper, iron, and total phosphorus were exceeded at downstream SW5. These exceedances were mirrored at background SW4, suggesting they are not landfill related.

Concentrations of most leachate indicator parameters are very similar upstream and downstream of the mound, suggesting the North Stream is not being adversely impacted by landfill leachate at this time.

South Stream

The PWQOs for copper and zinc were exceeded at downstream SW8. These exceedances were mirrored at background SW7, suggesting they are not landfill related.

The PWQOs for cadmium, cobalt, iron, and phosphorus were also exceeded at the downstream station and manganese concentrations were greater than those characteristic of natural surface waters. These elevated metal levels are likely the result of sediment entrainment in the samples (i.e. TSS = 325 mg/L).

Concentrations of most leachate indicator parameters are very similar upstream and downstream of the mound, suggesting the South Stream is not being adversely impacted by landfill leachate at this time.

Hickenbottom Drain

HBI is impacted by landfill leachate, which isn't surprising as the station is directly downgradient (i.e. northeast) of the mound. At this station, the PWQO for boron was exceeded, the concentration of chloride was greater than that characteristic of natural surface waters, and concentrations of most leachate parameter are greater than those observed at background stations SW4 and SW7.

At downgradient station HBO, landfill related impacts are still evident but are minor in nature. Impacted flows receive an additional 250 meters of dilution before reaching the South Creek and La Rue Mills Creek PSW, so adverse impacts to the receiver are unlikely.


Groundwater Monitoring Wells

Because groundwater is interpreted to flow towards (and potentially discharge to) the North Stream and the Hickenbottom drain, impacts to surface water can also be inferred using downgradient monitoring wells OW11-R1, OW3, and OW12. All three wells are impacted by landfill leachate, but the greatest impacts were observed at OW11-R1. At this groundwater monitoring well, the PWQOs for aluminum, boron, cobalt, iron, and phosphorus were exceeded; the Canadian Water Quality Guideline (CWQG) for nitrite was exceeded; the concentrations of chloride, manganese, and TKN were greater than those characteristic of natural surface waters; and the concentrations of all other leachate indicator parameters were elevated well above background concentrations.

Conclusions and Recommendations

1. The Escott WDS is a natural attenuation landfill that is owned and operated by the Township of Leeds and the Thousand Islands. The site has been operating since at least 1982 and has approximately 2.6 years of site life remaining.
2. Surface water results suggest the north and south stream are not being adversely impacted by landfill leachate at this time.
3. HBI is impacted by landfill leachate, due to its proximity to the landfill mound. At HBO, concentrations of most leachate related parameters decreased compared to upstream and landfill related impacts were relatively minor.
4. Malroz recommends that SW8 be improved to avoid sediment entrainment in the samples. Considering that:
 - a. Impacts have not been observed in the South Stream (i.e. SW8);
 - b. SW8 is inferred to be upgradient of contaminated groundwater flow; and,
 - c. Collecting representative and flowing samples at SW8 is often difficult;I have no objection to the removal of SW8 (and associated background SW7) from the surface water monitoring network.
5. Malroz recommends that the existing surface water monitoring program continue. I agree, except as noted above.

If you have any questions regarding the above comments, I would be pleased to discuss them with you.



Sarah Baxter, B.Sc.H.
SB/dv

ec: Victor Castro
Shawn Trimper

c: File SW LG LT 03 06 (Escott WDS)

**Ministry of the
Environment,
Conservation and Parks**
Eastern Region
1259 Gardiners Road, Unit 3
Kingston ON K7P 3J6
Phone: 613.549.4000
or 1.800.267.0974

**Ministère de l'Environnement,
de la Protection de la nature
et des Parcs**
Région de l'Est
1259, rue Gardiners, unité 3
Kingston (Ontario) K7P 3J6
Tél: 613 549-4000
ou 1 800 267-0974



MEMORANDUM

July 20, 2020

TO: Nathalie Matthews
Senior Environmental Officer
Kingston District Office
Eastern Region

FROM: Sarah Baxter
Surface Water Specialist
Technical Support Section
Eastern Region

RE: Escott Waste Disposal Site
Closure Plan
Township of Leeds and the Thousand Islands; United Counties of Leeds &
Grenville
Environmental Compliance Approval #A441703
IDS #5462-BRKR5A

I have reviewed the “*Operations, Closure and Transfer Station Plans for the Escott Waste Disposal Site*” dated February 27, 2020 and prepared by Malroz Engineering Inc. The following comments, relative to surface water impact concerns, are provided for your consideration.

Background

The Escott Waste Disposal Site (WDS) is a natural attenuation landfill that is owned and operated by the Township of Leeds and the Thousand Islands. The site has been operating since at least 1982 when Environmental Compliance Approval (ECA) #A411703 was first issued. The approved fill area is 1.0 hectares within a 15.1 hectare property.

The site is approved to receive solid non-hazardous waste. The site also collects recyclables, white goods, and scrap metal for transfer offsite. Clean wood is burned on site once per month. The ECA was most recently amended and updated in 2004.

The WDS has approximately 2 years of site life remaining, so this closure plan has been submitted as a result.

Site Description

The Escott WDS is located on Lots 8, 9, 10, Concession Broken Front, Geographic Township of Escott, in the Township of Leeds and the Thousand Islands. The site is approximately 0.5 kilometers north of Highway 401 and 2.3 kilometers northwest of the St. Lawrence River. The landfill is accessed via the east side of Escott/Rockport Road.

The landfill is situated in an agricultural portion of the Upper St. Lawrence-1000 Islands tertiary watershed. The site is bound by Escott/Rockport Road to the east, agricultural fields to the north and west, and forest and wetland to the south.

An agricultural drain (i.e. North Stream) is located 75 meters north of the site, while an unnamed tributary (i.e. South Stream) and the Larue Mills Creek Provincially Significant Wetland (PSW) Complex are situated on the south side of the site. The Hickenbottom Drain originates in a drainage ditch just east of the mound and collects runoff from the WDS and tile drainage from the neighbouring fields. All three water features flow northeastward, eventually reaching La Rue Mills Creek.

According to Malroz, the overburden is brown silty clay, silt, clay or clayey silt 0.46 to 7.62 meters deep. The bedrock is mostly sandstone overlying Precambrian red granite. Bedrock outcropping is common south of the site. Interpreted groundwater flow is to the northeast, towards the Hickenbottom Drain.

Closure Plan

Landfilling will continue until capacity is reached in approximately two years, at which time the WDS will be converted into a transfer station.

All on-site buildings and containers will be removed and/or relocated. All wind-blown litter will be picked up. The mound will be graded to final contours. Malroz notes the side slopes will be graded 3:1, which is steeper than recommended, but acceptable for small landfills. Once graded, the mound will be capped with 600 mm of local clay and 150 mm of topsoil. The mound will be seeded in efforts to avoid erosion.

The rest of the site will also be regraded to convey stormwater away from the mound. The area to the southwest will be regraded into a flat pad to house the transfer station waste and recycling bins.

The site will continue to receive domestic waste, blue box recyclables, white goods, scrap metal, furniture, and tires for off-site transfer. Malroz recommends that Waste Electrical and Electronic Equipment (WEEE) be added to the accepted waste list. It is anticipated that waste will be transferred to the Lafleche Environmental Centre in Moose Creek and the recyclables to Manco in Napanee. Clean brush and wood will continue to be accepted and burned periodically.

When the transfer station is open, the site attendant will inspect the site for cover erosion, surface water ponding, and leachate breakout. Similar inspections will also be carried out by the environmental consultant at the time the environmental monitoring program is completed.

Surface Water Monitoring Program

Malroz indicates that the existing surface water monitoring program will continue at the Escott WDS after closure. Seven surface water stations exist at the site: SW4 and SW5 (North Stream); SW7 and SW8 (South Stream); and SW3, HBI and HBO (Hickenbottom Drain).

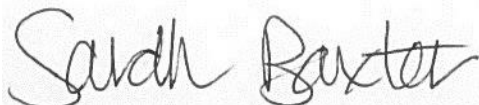
All stations will continue to be sampled biannually; in the spring and in the fall. Before sampling, each station will be examined for impact (i.e. staining, odour, discolouration), flow will be estimated, and field parameters (i.e. pH, temperature, DO) will be measured. Samples will be collected and analyzed for Schedule 5, Column 3 plus aluminum, beryllium, calcium, cobalt, dissolved organic carbon (DOC), hardness, total phosphorus, magnesium, manganese, nickel, potassium, selenium, silicon, silver, strontium, thallium, tin, titanium, tungsten, uranium, and vanadium.

The surface water results will continue to be presented to the Ministry in the form of an annual report.

Conclusions and Recommendations

1. The Escott WDS is a natural attenuation landfill that is owned and operated by the Township of Leeds and the Thousand Islands. The site has been operating since at least 1982 and has approximately 2 years of site life remaining.
2. Waste will continue to be landfilled until final capacity is reached. At that time, the mound will be regraded to final contours, capped, and vegetated. The rest of the site will also be regraded to direct stormwater away from the mound. The southwest area will be flattened to house transfer containers.
3. Once mound closure is complete, the site will operate as a transfer station. All currently approved waste and recyclables will continue to be accepted (plus WEEE) and transferred offsite for processing.
4. The mound will be regularly inspected by the site attendant and environmental consultant for evidence of erosion, slope destabilization, ponded water, and leachate breakout. If required, remedial measures (e.g. regrading, reseeding) will be completed as soon as possible.
5. Malroz recommends that the existing surface water monitoring program continue after the mound is capped. I agree, except:
 - a. Sampling stations SW7 and SW8 can be removed from the program (see July 16, 2020 memorandum); and,
 - b. Trace metals such as beryllium, selenium, silicon, silver, strontium, thallium, tin, titanium, tungsten, uranium and vanadium can be removed from the surface water parameter list (see February 7, 2020 memorandum).

If you have any questions regarding the above comments, I would be pleased to discuss them with you.



Sarah Baxter, B.Sc.H.
SB/dv

ec: Victor Castro
Shawn Trimper

c: File SW LG LT 03 06 (Escott WDS)

Appendix G
Logbook and Waybills

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
12/18/2019	2447

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

2051208

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
12/9/2019	Backhoe Rental - Dump	3	85.00	H	255.00
12/16/2019	Backhoe Rental - Dump	3	85.00	H	255.00
12/17/2019	Sandfill to Escott Dump	2	187.00	H	374.00
12/17/2019	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 Approval #2 <i>James P. [Signature]</i> Acct # <u>10-410-4300-6247 R</u> Sub-Acct # <u>10-410-4300-62705</u>					
Sales Tax Summary					
HST (ON)@13.0%		274.04			
Total Tax		274.04			
			Subtotal	\$2,108.00	
			Sales Tax Total	\$274.04	
			Total	\$2,382.04	
Thank you for your business			Payments/Credits	\$0.00	
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.			Balance Due	\$2,382.04	

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
12/31/2019	2450

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
12/31/2019	Sandfill to Escott Dump	2	187.00	H	374.00
12/31/2019	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
12/23/2019	Backhoe Rental @ Dump	3	85.00	H	255.00
12/28/2019	Backhoe Rental @ Dump	2	85.00	H	170.00
12/30/2019	Backhoe Rental @ Dump	3	85.00	H	255.00
	Approval #1 _____				
	Approval #2 <i>James P. [Signature]</i>				
	Acct # <i>10-410-4300-6270</i> \$1598				
	Sub-Acct # <i>10-410-4300-6247</i> \$680.15				

Sales Tax Summary		Subtotal	\$2,278.00
HST (ON)@13.0%	296.14	Sales Tax Total	\$296.14
Total Tax	296.14	Total	\$2,574.14
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$2,574.14

GST/HST No. 102000601

Approval #1 _____
 Approval #2 _____
 Acct # _____
 Sub-Acct # _____

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
1/16/2020	2455

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
1/2/2020	Backhoe Rental at Dump	3	85.00	H	255.00
1/6/2020	Backhoe Rental at Dump	3	85.00	H	255.00
1/9/2020	Backhoe Rental at Dump	3	85.00	H	255.00
1/13/2020	Backhoe Rental at Dump	3	85.00	H	255.00
1/14/2020	Sandfill to Escott Dump	2	187.00	H	374.00
1/14/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1					
Approval # <i>James P. [Signature]</i>					
Acct # <u>10-410-4300-6247</u> \$1020.					
Sub-Acct # <u>10-410-4300-6270</u> \$1598					

Sales Tax Summary		<i>KD</i>	Subtotal	\$2,618.00
HST (ON)@13.0%	340.34		Sales Tax Total	\$340.34
Total Tax	340.34		Total	\$2,958.34
Thank you for your business			Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.			Balance Due	\$2,958.34

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
1/30/2020	2458

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
1/15/2020	Backhoe Rental at Lansdowne Dump	3	85.00	H	255.00
1/20/2020	Backhoe Rental at Lansdowne Dump	3	85.00	H	255.00
1/24/2020	Backhoe Rental at Lansdowne Dump	3	85.00	H	255.00
1/28/2020	Sandfill to Escott Dump	2	187.00	H	374.00
1/28/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 <i>James E. [Signature]</i> Acct # <i>10-410-4300-6247 165.00</i> Sub-Acct # <i>10-410-4300-6270 1598.00</i>					

Sales Tax Summary HST (ON)@13.0% 307.19 Total Tax 307.19	Subtotal	\$2,363.00
	Sales Tax Total	\$307.19
	Total	\$2,670.19
	Payments/Credits	\$0.00
	Balance Due	\$2,670.19

Thank you for your business

Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
2/27/2020	2462

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
2/25/2020	Sandfill to Escott Dump	2	187.00	H	374.00
2/25/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 _____ Acct # <u>10-410-4300-6270</u> Sub-Acct # _____					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74 Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.	Subtotal	\$1,598.00
	Sales Tax Total	\$207.74
	Total	\$1,805.74
	Payments/Credits	\$0.00
	Balance Due	\$1,805.74

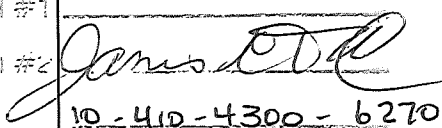
Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
3/12/2020	2465

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
3/10/2020	Sandfill to Escott Dump	2	187.00	H	374.00
3/10/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
3/3/2020	Backhoe Rental	3	85.00	H	255.00
3/3/2020	Backhoe Rental	3	85.00	H	255.00
Approval #1					
Approval #2					
Acct #	10-410-4300-6270				
Sub-Acct #	10-410-4300-6247				
ENTERED APR - 1 2020					

Sales Tax Summary HST (ON)@13.0% 274.04 Total Tax 274.04 Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.	Subtotal	\$2,108.00
	Sales Tax Total	\$274.04
	Total	\$2,382.04
	Payments/Credits	\$0.00
	Balance Due	\$2,382.04

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
4/7/2020	2470

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
4/7/2020	Sandfill to Escott Dump	2	187.00	H	374.00
4/7/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 <i>James C. Yell</i> Acct # <i>10-410-4300-6270</i> Sub-Acct # _____					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74	Subtotal	\$1,598.00
	Sales Tax Total	\$207.74
	Total	\$1,805.74
	Payments/Credits	\$0.00
	Balance Due	\$1,805.74
Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 KOE 1L0

Invoice

Date	Invoice #
5/7/2020	2473

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON KOE 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
5/5/2020	Sandfill to Escott Dump	2	187.00	H	374.00
5/5/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 <u>See attached</u> Approval #2 _____ Acct # <u>10-410-4300-6270</u> Sub-Acct # _____					

Sales Tax Summary		Subtotal	\$1,598.00
HST (ON)@13.0%	207.74	Sales Tax Total	\$207.74
Total Tax	207.74	Total	\$1,805.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 KOE 1L0

Invoice

Date	Invoice #
3/26/2020	2467

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON KOE 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
① 3/17/2020	Backhoe Rental	3	85.00	H	255.00
3/24/2020	Sandfill to Escott Dump	2	187.00	H	374.00
② 2/24/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00

Sales Tax Summary HST (ON)@13.0% 240.89 Total Tax 240.89	Subtotal	\$1,853.00
	Sales Tax Total	\$240.89
	Total	\$2,093.89
	Payments/Credits	\$0.00
	Balance Due	\$2,093.89

Thank you for your business

Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.

GST/HST No. 102000601

Approval #1
 ① Approval #2 *[Signature]*
 ② Acct # 10-410-4300-6247
 Sub-Acct # 10-410-4300-6276

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
4/21/2020	2471

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
4/21/2020	Sandfill to Escott Dump	2	187.00	H	374.00
4/21/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 _____ Acct # _____ Sub-Acct # 10-410-4300-6270					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74		Subtotal \$1,598.00
		Sales Tax Total \$207.74
		Total \$1,805.74
Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Payments/Credits \$0.00
		Balance Due \$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
4/24/2020	2468

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
3/24/2020	Crushed concrete used to improve access to Dump approved by James Tuck	2	300.00	H	600.00
Sales Tax Summary					
HST (ON)@13.0%		78.00			
Total Tax		78.00			
			Subtotal	\$600.00	
			Sales Tax Total	\$78.00	
			Total	\$678.00	
Thank you for your business			Payments/Credits	\$0.00	
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.			Balance Due	\$678.00	

GST/HST No. 102000601

Approval #1
 Approval #2 *James Tuck*
 Acct # 10-410-4300-0270
 Sub-Acct # _____

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
5/19/2020	2477

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
5/19/2020	Sandfill to Escott Dump	2	187.00	H	374.00
5/19/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
	Approval #1 _____				
	Approval #2 _____				
	Acct # 10-410-4300-6270 supplies				
	Sub-Acct # _____				

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74	Subtotal	\$1,598.00
	Sales Tax Total	\$207.74
	Total	\$1,805.74
	Payments/Credits	\$0.00
	Balance Due	\$1,805.74
Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

RECEIVED
 JUN - 5 2020

Invoice

Date	Invoice #
6/2/2020	2480

Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

Terms
 Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
6/2/2020	Sandfill to Escott Dump	2	187.00	H	374.00
6/6/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 _____ Acct # <u>10-410-4300-6270</u> Sub-Acct # _____					

Sales Tax Summary		Subtotal	\$1,598.00
HST (ON)@13.0%	207.74	Sales Tax Total	\$207.74
Total Tax	207.74	Total	\$1,805.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 KOE 1L0

Invoice

Date	Invoice #
6/16/2020	2486

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON KOE 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
6/16/2020	Sandfill to Escott Dump	2	187.00	H	374.00
6/16/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
6/17/2020	Crushed concrete	32	150.00	H	4,800.00

Sales Tax Summary		Subtotal	\$6,398.00
HST (ON)@13.0%	831.74	Sales Tax Total	\$831.74
Total Tax	831.74	Total	\$7,229.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$7,229.74

Approval #1 _____

Approval #2 _____

Acct # _____

Sub-Acct # _____

GST/HST No. 102000601

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
6/29/2020	2492

Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Served	Description	Qty	Rate	Tax	Amount
4/23/2020	Sandfill to Escott Dump	2	187.00	H	374.00
4/23/2020	Sandfill to Lansdowne Dump	10	153.00	H	1,530.00
Approval #1 _____					
Approval #2 _____					
Acct # 10-410-4300-6270					
Sub-Acct # _____					
Sales Tax Summary			Subtotal \$1,904.00		
HST (ON)@13.0% 247.52			Sales Tax Total \$247.52		
Total Tax 247.52			Total \$2,151.52		
Thank you for your business			Payments/Credits \$0.00		
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.			Balance Due \$2,151.52		

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
7/16/2020	2494

Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
7/16/2020	Sandfill to Escott Dump	2	187.00	H	374.00
7/16/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 <u>10-410-4300</u> Approval #2 <u>6320</u> Acct # <u>James P. Tub</u> Sub-Acct # _____					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74	Subtotal	\$1,598.00
	Sales Tax Total	\$207.74
	Total	\$1,805.74
	Payments/Credits	\$0.00
	Balance Due	\$1,805.74

Thank you for your business

Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
7/28/2020	2495

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Approval #1 10-410-4300
 Approval #2 0320
 Acct # James Drill
 Sub-Acct # _____

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
5/7/2020	Sandfill to Escott Dump	2	187.00	H	374.00
5/7/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00

Sales Tax Summary		Subtotal	\$1,598.00
HST (ON)@13.0%	207.74	Sales Tax Total	\$207.74
Total Tax	207.74	Total	\$1,805.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
8/11/2020	2499

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Served	Description	Qty	Rate	Tax	Amount
8/11/2020	Sandfill to Escott Dump	2	187.00	H	374.00
8/11/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 <u>10.410.4300</u> Approval #2 <u>10320</u> Acct # <u>James L. Till</u> Sub-Acct # _____					
Sales Tax Summary				Subtotal	
HST (ON)@13.0%				207.74	
Total Tax				207.74	
				Sales Tax Total	
				\$207.74	
				Total	
				\$1,805.74	
				Payments/Credits	
				\$0.00	
Thank you for your business				Balance Due	
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.				\$1,805.74	



Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
8/25/2020	2503

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
8/25/2020	Sandfill to Escott Dump	2	187.00	H	374.00
8/25/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1  Approval #2  Acct # <u>10-410-4300-6270</u> Sub-Acct # _____					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74	Subtotal \$1,598.00
	Sales Tax Total \$207.74
	Total \$1,805.74
	Payments/Credits \$0.00
Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.	Balance Due \$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

RECEIVED
 SEP 14 2020

Invoice

Date	Invoice #
9/10/2020	2507

Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
9/8/2020	Sandfill to Escott Dump	2	187.00	H	374.00
9/8/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 _____ Acct # <u>10-410-4300-6270</u> Sub-Acct # _____					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74	Subtotal	\$1,598.00
	Sales Tax Total	\$207.74
	Total	\$1,805.74
	Payments/Credits	\$0.00
	Balance Due	\$1,805.74
Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		

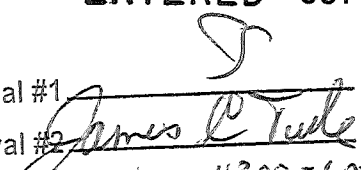
Invoice

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 KOE 1L0

Date	Invoice #
9/22/2020	2509

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON KOE 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
9/22/2020	Sandfill to Escott Dump	2	187.00	H	374.00
9/22/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
ENTERED OCT 06 2020 					
Approval #1 _____ Approval #2 _____ Acct # <u>10-410-4300-6270</u> Sub-Acct # _____					
Sales Tax Summary			Subtotal		
HST (ON)@13.0% 207.74			\$1,598.00		
Total Tax 207.74			Sales Tax Total		
			\$207.74		
			Total		
			\$1,805.74		
Thank you for your business			Payments/Credits		
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.			\$0.00		
			Balance Due		
			\$1,805.74		

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
10/6/2020	2515

Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

ENTERED OCT 29 2020

Approval #1 _____
 Approval # *James R. Tol*
 Acct # 10-410-4300-6270
 Sub-Acct # _____

Terms
 Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount	
10/6/2020	Sandfill to Escott Dump	2	187.00	H	374.00	
10/6/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00	
Sales Tax Summary					Subtotal	\$1,598.00
HST (ON)@13.0% 207.74					Sales Tax Total	\$207.74
Total Tax 207.74					Total	\$1,805.74
Thank you for your business					Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.					Balance Due	\$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
10/22/2020	2516

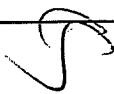
Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
10/20/2020	Sandfill to Escott Dump	2	187.00	H	374.00
10/20/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00

Sales Tax Summary		Subtotal	\$1,598.00
HST (ON)@13.0%	207.74	Sales Tax Total	\$207.74
Total Tax	207.74	Total	\$1,805.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$1,805.74

ENTERED NOV 02 2020



Approval #1 _____

Approval #2 James C. Turk

Acct # 10-410-4300-6270

Sub-Acct # _____

GST/HST No. 102000601


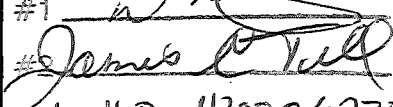

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
11/3/2020	2518

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
11/3/2020	Sandfill to Escott Dump	2	187.00	H	374.00
11/3/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1  Approval #2  Acct # 10-410-4300-6270 Sub-Acct # _____ ENTERED NOV 24 2020 					

Sales Tax Summary		Subtotal	\$1,598.00
HST (ON)@13.0%	207.74	Sales Tax Total	\$207.74
Total Tax	207.74	Total	\$1,805.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
11/17/2020	2524

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
11/17/2020	Sandfill to Escott Dump	2	187.00	H	374.00
11/17/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00

ENTERED DEC 02 2020

Approval #1 _____
 Approval #2 _____
 Acct # 10-410-4300-6270
 Sub-Acct # _____

Sales Tax Summary		Subtotal	\$1,598.00
HST (ON)@13.0%	207.74	Sales Tax Total	\$207.74
Total Tax	207.74	Total	\$1,805.74
Thank you for your business		Payments/Credits	\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		Balance Due	\$1,805.74

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
12/17/2020	2531

Invoice To
 Twp Leeds & the 1000 Islands
 1233 Prince Street
 PO Box 280
 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
12/17/2020	Sandfill to Escott Dump	2	187.00	H	374.00
12/17/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Sales Tax Summary			Subtotal		\$1,598.00
HST (ON)@13.0% 207.74			Sales Tax Total		\$207.74
Total Tax 207.74			Total		\$1,805.74
Thank you for your business			Payments/Credits		\$0.00
Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.			Balance Due		\$1,805.74

ENTERED DEC 29 2020

Approval # _____
 Approval # *James E Tull*
 Acct # 10-410-4300-6270
 Sub-Acct # _____

GST/HST No. 102000601

Gerald Best Excavating Ltd.
 575 Reynolds Rd. RR #1
 Lansdowne On.
 K0E 1L0

Invoice

Date	Invoice #
12/29/2020	2534

Invoice To
Twp Leeds & the 1000 Islands 1233 Prince Street PO Box 280 Lansdowne, ON K0E 1L0

Terms
Due on receipt

Serviced	Description	Qty	Rate	Tax	Amount
12/29/2020	Sandfill to Escott Dump	2	187.00	H	374.00
12/29/2020	Sandfill to Lansdowne Dump	8	153.00	H	1,224.00
Approval #1 _____ Approval #2 <i>James P. Hill</i> Acct # <i>10-410-4300-6270</i> Sub-Acct # _____					

Sales Tax Summary HST (ON)@13.0% 207.74 Total Tax 207.74	Subtotal	\$1,598.00
	Sales Tax Total	\$207.74
	Total	\$1,805.74
	Payments/Credits	\$0.00
	Balance Due	\$1,805.74
Thank you for your business Interest is charged at 2 % per month, 24% per annum on invoices over 30 days.		



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
Lansdowne, ON K0E 1L0

EScott **WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jan 14/12 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

		Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>BY boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>BIRDS, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned the ditch along the road

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:42</u>	<u>Black Claw</u>	<u>From Mottifkew</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:30</u>	<u>Aft Mallow</u>	<u>household</u>	<u>4 Bags</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 34

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: litter picked up in ditches

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: -

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 18/22 TIME: 8:30 STAFF: Rustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	<u>FROZE</u>
Windblown Litter:	Yes / <input checked="" type="radio"/> No	<u>COVERED IN SNOW</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>BIRDS</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Shoveled OFF the Places where custards walk

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

-18 feels like -22 everything was frozen to ground. Snow started at 12

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:09</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/C</u>	<u>Yes</u>
<u>12:06</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/C</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 81

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Too cold to pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: -18

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): lot holes in road

SIGNATURE: [Signature]

The shaker snells had like something rotted.

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 21 / 20 TIME: 8:25 AM STAFF: Amy Poppeau

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up loose trash by open face of metal bin, cleaned off metal doors for paper bin and pushed paper back

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 41

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + Active face + manual pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: water

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 25/19 TIME: 8:30am STAFF: Amy Poppeau

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

around face + bins
Birds + rodents

RECOMMENDED ACTIONS / ACTIONS TAKEN:

swept 1/2 hours cleaning up litter + hand picking around bins. (11:20am called for salt + sand) (11:39 called truck will be there shortly)
[shovel up @ 1pm (hrs)] swept floors, emptied garbage

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>Act morning</u>	<u>946 tn</u>	<u>garbage + Recycling</u>	<u>10 ~ 10</u>	<u>Yes</u>
<u>Act</u>	<u>1230 pm</u>	<u>garbage + Recy.</u>	<u>10 ~ 10</u>	<u>✓</u>

TOTAL COUNT OF HOUSEHOLD USERS: 64

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins, Active face + manual pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: water

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean + safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Jan 28/20 TIME: 8:30 am STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / <input type="checkbox"/> No	Description / Location
Ponded Water:	<input checked="" type="checkbox"/> No	<u>Frozen</u>
Windblown Litter:	<input checked="" type="checkbox"/> No	<u>Buried in snow</u>
Leachate Springs:	<input checked="" type="checkbox"/> No	
Animals:	<input checked="" type="checkbox"/> No	<u>Birds, cats, squirrels</u>
Other:	<input checked="" type="checkbox"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned by bins, shoveled Path ways
so customers have a clean space to walk

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
 		
 		
 		
 		

OTHER COMMENTS / OBSERVATIONS

Cloudy all day, temp is 0, -1

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:10</u>	<u>Art Morrow</u>	<u>household</u>	<u>6 bags</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 48

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: Cleaned up by bins

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: Too cold

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): Part holes

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 15th TIME: 9:15 am STAFF: Appelmeier

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	
Windblown Litter:	Yes / <input checked="" type="radio"/> No	<u>Snow covered</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	<u>(circle)</u>
Animals:	Yes / <input checked="" type="radio"/> No	<u>Birds & coons</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

manually packed paper & plastic bins cleaned up loose litter around bins. Cleaned desk & office area.
Picked up several bags left by job.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
952	Art Morrow	Garbage & feces	10 ~ 10	✓
1134	Art Morrow	" "	7 ~ 11	✓
107	" "	" "	6 ~ 9	✓

TOTAL COUNT OF HOUSEHOLD USERS: 119

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Fins Active fence & manual pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Appelmeier

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 4 / 20 TIME: 8:20 AM STAFF: Popplewell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	<u>frozen ditches</u>
Windblown Litter:	Yes / <input checked="" type="radio"/> No	<u>snow covered</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds & Rodents</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

had snow/ice spread as it was slippery in some areas.
tidied up face & around bins. Recycled some visual objects
found in average instead of proper bins.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Reked up main driving area by face. (plastic & paper
bins delivered today.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 39

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins Active from a manual pickup.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is active & SFR was set/used to control.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 8/20 TIME: 10:30AM STAFF: Agnes

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	_____
Windblown Litter:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds</u>
Other:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Shoveled out bin access's and office trailer, organized cardboard to make more space

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Called cardboard + plastic bins in for after Tues. 11/20

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:30</u>	<u>Art</u>	<u>Grey Bagged Rock</u>	<u>10 + 10</u>	<input checked="" type="checkbox"/>
<u>12:04</u>	<u>Art</u>	<u>" "</u>	<u>10 + 10</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins + face of manual pickup

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Snow covered

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is snow covered safe + clean

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Agnes

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 11/20 TIME: 8:30 AM STAFF: Dustin Teichsen

DEFICIENCIES OBSERVED:

	Yes / <input type="checkbox"/> No	Description / Location
Ponded Water:	<input checked="" type="checkbox"/> No	<u>Too cold</u>
Windblown Litter:	<input checked="" type="checkbox"/> No	<u>snow covered</u>
Leachate Springs:	<input checked="" type="checkbox"/> No	
Animals:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>BIRDS, cats</u>
Other:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned around bins and put some sand out where customers walk

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Slow day

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 36

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Picked up litter by hand

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Too cold

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Sat Feb 15/20 TIME: 8:30 AM STAFF: Amy Applewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Visual around face

Leachate Springs: Yes / No

Animals: Yes / No

Birds

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:40	Art marrow	garbage + Recycle	10 + 10	<input checked="" type="checkbox"/>
11:15	"	"	" "	<input checked="" type="checkbox"/>
12:22	"	"	6 - 4	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins, Active Face + manual pickup.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: winter / snow covered.

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 18/20 TIME: 840 STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	Yes / <input checked="" type="radio"/> No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	Yes / <input checked="" type="radio"/> No	_____
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Site is undergoing a snow storm + new wells drilled.
Showered out bins x2.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
1120	morrow	garbage + Recy.	5 + 3	✓

TOTAL COUNT OF HOUSEHOLD USERS: 41

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: bins + face + manual pick up.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: Amy Popplewell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 22/20 TIME: 820 STAFF: Amy Poppewell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	<u>Frozen</u>
Windblown Litter:	Yes / <input checked="" type="radio"/> No	<u>Snow covered</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	Yes / <input checked="" type="radio"/> No	<u>Birds not many</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned around office scattered items (good stuff)

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Site's office was broke into tween tuos - today (Saturday)
police were called. report made. police came @

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
945	Art Morrow	garbage + Recycling	10 ✓ 10	✓
1120	Morrow	" "	10 10 10	✓
1240	" "	" "	" "	✓

TOTAL COUNT OF HOUSEHOLD USERS: 110

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins. Active face & manual pick up.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Winter - snow & snow covered.

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is safe & clean

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: *Amy Poppewell*

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 25/20 TIME: 8:30 AM STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:

	Yes / <input type="checkbox"/> No	Description / Location
Ponded Water:	Yes / <input checked="" type="checkbox"/> No	<u>Frozen</u>
Windblown Litter:	<input checked="" type="checkbox"/> Yes / No	<u>BY Boundaries and bins</u>
Leachate Springs:	Yes / <input checked="" type="checkbox"/> No	
Animals:	<input checked="" type="checkbox"/> Yes / No	<u>BIRDS, cats</u>
Other:	Yes / <input checked="" type="checkbox"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter by bins and put litter on active face, made sure customers had safe walkways

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Very muddy

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 32

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Picked up by bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Too cold and wet

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Feb 29/20 TIME: 8:10 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

} winter all snow covered & frozen.

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Curb set left by steel pin removed at dump and to active face.
Big ruts left throughout driving area? raked & shoveled.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
12:10	Ard marrow	garbage & Recycling	full load	✓
12:10	" "	" "	full	✓

TOTAL COUNT OF HOUSEHOLD USERS: 104

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins Active face & manual pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: winter / snow covered.

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Tues Feb 3/20 TIME: 9:15 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>ditches and low areas</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>around bins + active face</u>
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Birds + Cats</u>
Other:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Big haul + 5 today trenched water away so less mud + J muck pick up
plastic + metal bins ordered

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>3:45 pm</u>	<u>?</u>	<u>Guy wasn't from township.</u>

OTHER COMMENTS / OBSERVATIONS

If we can better ditch the driving area the place will stay drier and then cleaner and safer.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45</u>	<u>Morrow</u>	<u>Garbage + Reg.</u>	<u>3/4 full load</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 38

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins, Active face + manual pick up.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: grounds frozen in needed.

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is muddy, but safe + clean

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 7/20 TIME: 8:05am STAFF: Amy Popdewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

along active face and bins

Leachate Springs: Yes / No

Animals: Yes / No

Coons & Birds

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked out wooden gravel in places and picked up
loose ~~garbage~~ garbage around bins.
Plastic & Cardboard ordered 4 next / Wed - Fri

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Site has new gravel added to driving area,
to build up muckup areas.

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:55	Morrow	garbage + Recycling	full	✓
11:30	"	"	"	✓
12:50	"	"	"	✓

TOTAL COUNT OF HOUSEHOLD USERS: 111

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins, Active face & manual pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: winter

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is clean & safe

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 10/2 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
 Windblown Litter: Yes / No By Boundaries bins
 Leachate Springs: Yes / No
 Animals: Yes / No Birds cats, raccons
 Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter for a couple hours because it was raining the whole day

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Muddy

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 18

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
 DETAILS: Rain

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 14/20 TIME: 8:15 AM STAFF: Amy Popplewell

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

around ditches, bins and fence.

Leachate Springs: Yes / No

Animals: Yes / No

↑ ↓ Birds

Other: Yes / No

COINS

RECOMMENDED ACTIONS / ACTIONS TAKEN:

raked around plastic cardboard in office started
work on the debris left by winter.

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>1055 AM</u>	<u>MARROWS</u>	<u>garbage + Recycle</u>	<u>full load</u>	<input checked="" type="checkbox"/>
<u>1215 PM</u>	<u>"</u>	<u>"</u>	<u>"full"</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 72

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Bins manual, pick up + active face.

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: water

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: Site is safe needs cleanup.

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: Tues 1/7/20 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Rain</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Snow is all gone</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>BIRDS, CATS</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

P.P not leave truck because of covid-19
taking all health precautions serious

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 727

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 3, 2020 TIME: 8:22 am STAFF: Rebecca Cross

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No _____

Windblown Litter: Yes / No _____

Leachate Springs: Yes / No _____

Animals: Yes / No Birds / cats.

Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 68

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 24/20 TIME: 8:30 am STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / <u>No</u>	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	Yes / <u>No</u>	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Stayed in shack - covid 19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>4:00</u>	<u>?</u>	<u>From Malton town</u>

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 36

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: March 28/20 TIME: 8:30 AM STAFF: RUSTIN JACKSON

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	Yes / No	<u>BY Boundries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	Yes / No	<u>cats, BIRDS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Stated in shack, Covid-19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:31	AFT Morrow	household	T/L	yes
11:15	"	"	"	"
1:30	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 44

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No
DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If YES, Complaint File Number (s): _____
SIGNATURE: [Signature]



DATE: 3/ March/20 TIME: 8:30 AM STAFF: Rustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	Yes / <u>No</u>	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>BIRDS</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID-19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 96

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 9/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> No	_____
Leachate Springs:	<input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> No	<u>Birds</u>
Other:	<input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID-19 stayed in shack

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Cleaned Shack

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:10</u>	<u>ACE Hauler</u>	<u>Household</u>	<u>7/2</u>	<u>Yes</u>
<u>11:15</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>1:02</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 128

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 7/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID 19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:34</u>	<u>Art Mallow</u>	<u>Household</u>	<u>Half T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 82

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Dry

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 11/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No Birds

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID 19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45	Art Moscow	household	T/K	Yes
11:01	"	"	"	"
12:36	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 148

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: 

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 14/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No _____

Windblown Litter: Yes / No BY bus

Leachate Springs: Yes / No _____

Animals: Yes / No Birds

Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Covid-19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 72

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 18/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No BY boundaries

Leachate Springs: Yes / No

Animals: Yes / No BIRDS

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Covid 19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10:00	Art Morrow	household	T/L	Yes
11:31	"	"	"	"
1:25	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 132

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 21 / 20 TIME: 8:30 AM STAFF: Dustin Erchson

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

By bins boundaries

Birds cages, raccoons

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID 19

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/C</u>	<u>yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 76

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain, wet

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 23/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	<u>Sunny, dry</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>BY Boundries</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>Cats, Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID 19, High Traffic

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
10:07	Art Morrow	household	T/L	Yes
11:15	Amensty cold	household	T/L	Yes
11:30	Art Morrow	household	T/L	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 168

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: Picked up by the shack

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: April 28/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	<u>Nil</u>
Windblown Litter:	<u>Yes</u> / No	<u>By Bundles</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Cats, birds</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

COVID-19, Picked up litter by steel bin

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

WASTE DISPOSAL SITE DAILY INSPECTION FORM

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 84

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

DESCRIPTION OF LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If YES, Complaint File Number (s): _____

SIGNATURE: 

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Sat May 2/20 TIME: 8:30 STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>BY boundaries</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>Cats, Birds</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
COVID-19 Cleaned around bins for 2 hours

RECYCLING: TYPE _____
 DATE BINS WERE ORDERED: / / _____
 DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45 AM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:08 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>1:00 PM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 115

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: Cleaned around bins

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Dustin Jackson

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: May 5th / 20 TIME: 8:30 AM STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:	Description / Location
Ponded Water: Yes / No	_____
Windblown Litter: Yes / No	_____
Leachate Springs: Yes / No	_____
Animals: Yes / No	_____
Other: Yes / No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Checked around Shack

RECYCLING: TYPE
 DATE BINS WERE ORDERED: May 15 / 20 Plastic, cardboard, metal
 DATES BINS WERE PICKED UP: May 17 / 20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:00 AM</u>	<u>?</u>	<u>from gun</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:16 AM</u>	<u>ART Marrow</u>	<u>household</u>	<u>5 beds</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 97

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: Picked up litter for 2 hours.

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: DUSTIN JACKSON

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: May 9/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water: Yes / **No**

Windblown Litter: **Yes** / No

Leachate Springs: Yes / **No**

Animals: **Yes** / No

Other: Yes / **No**

Description / Location

By boundaries

Cats BIRDS

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned around boundaries

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>11:36 AM</u>	<u>?</u>	<u>From Brockville?</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:45 AM</u>	<u>Art Morrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>11:30 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 146

AREA OF WASTE DISPOSAL: All waste sent to active face: **Yes** / No

IF NO: Waste Sent To: _____

LITTER CONTROL: **Yes** / No

DETAILS: Cleaned litter FOR the road

APPLICATION OF DUST SUPPRESSANT: Yes / **No**

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: **Yes** / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / **No**

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Dustin Jackson

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: MAY 12/20 TIME: 8:30 AM STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>BY boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>BIRDS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned by boundaries

RECYCLING:

DATE BINS WERE ORDERED: MAY 12/20 TYPE: Plastic Paper
 DATES BINS WERE PICKED UP: MAY 14/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 88

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: Cleaned up litter for 4 hours

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: May 16/20 TIME: 8:36 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:		Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>BIRDS cats, Raccoon</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Cleared boundaries

RECYCLING:

DATE BINS WERE ORDERED: / / TYPE: _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:00 AM</u>	<u>APT narrow</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>
<u>10:30 AM</u>	<u> " "</u>	<u> " "</u>	<u> " "</u>	<u> " "</u>
<u>11:52 AM</u>	<u> " "</u>	<u> " "</u>	<u> " "</u>	<u> " "</u>

TOTAL COUNT OF HOUSEHOLD USERS: 124

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: cleared for 2 hours

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/> Lansdowne
<input type="checkbox"/> Lyndhurst
<input checked="" type="checkbox"/> Escott

DATE: May 19/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:	Description / Location
Ponded Water: Yes / <input checked="" type="radio"/> No	
Windblown Litter: <input checked="" type="radio"/> Yes / No	<u>boundries</u>
Leachate Springs: Yes / <input checked="" type="radio"/> No	
Animals: <input checked="" type="radio"/> Yes / No	<u>Cats, birds</u>
Other: Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Cleaned litter around property

RECYCLING: TYPE Plastic, Paper
DATE BINS WERE ORDERED: May 19/20
DATES BINS WERE PICKED UP: May 20/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 96

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
DETAILS: Cleaned up litter for 4 hours

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: MAY 23/20 TIME: 8:30 AM STAFF: Austin Jackson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>birds, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Cleared up property

RECYCLING: TYPE _____
 DATE BINS WERE ORDERED: / /
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:30 AM</u>	<u>?</u>	<u>From Jan</u>

OTHER COMMENTS / OBSERVATIONS
20° very warm in shack

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:42AM</u>	<u>RPS Morrow</u>	<u>household</u>	<u>T/L</u>	<u>YES</u>
<u>10:56AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:30</u>	<u>Amnesty care</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 14/8

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Dry

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: May 26/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	Description / Location <u>Boundries</u>
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up for 30 mins

RECYCLING:

DATE BINS WERE ORDERED: May 26/20 TYPE: Plastic, Steel
 DATES BINS WERE PICKED UP: May 27/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

36' tree not for a big clean up

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 74

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: May 30/20 TIME: 8:30 STAFF: Rustin Jackson

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
 Windblown Litter: Yes / No
 Leachate Springs: Yes / No
 Animals: Yes / No
 Other: Yes / No

Boundaries
Birds, raccoons

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Crazy busy

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:45	Art Motion	household	T/C	Yes
10:50	"	"	"	"
11:55	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 182

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

Lansdowne
 Lyndhurst
 Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Jun 2/2020 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:		Description / Location
Ponded Water:	Yes / No	_____
Windblown Litter:	Yes / No	_____
Leachate Springs:	Yes / No	_____
Animals:	Yes / No	_____
Other:	Yes / No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING: TYPE _____
 DATE BINS WERE ORDERED: Jun/2/2020 Steel, OCC, Paper, mixed
 DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:25</u>	<u>Unknown</u>	<u>Double axle trailer not Accepted</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 66

AREA OF WASTE DISPOSAL: All waste sent to active face: ~~Yes~~ / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / ~~No~~
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / ~~No~~
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: ~~Yes~~ / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / ~~No~~
 If Yes, complaint file number(s) and topic: _____

SIGNATURE John Stafford Print Staff Name: John Stafford
 OFFICE USE: _____

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: June 6 2020 TIME: 730 AM STAFF: BURT BLANCHARD

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>CBT</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / / TYPE _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 86

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: PICKED UP WHAT I COULD

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Burt Blanchard Print Staff Name: BURT BLANCHARD

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: JUNE 9/20 TIME: 830 STAFF: DEREK LATIMER

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	_____
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>CAT, COON</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____
 DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: DEREK LATIMER

OFFICE USE: _____

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lyndhurst
 Escott

DATE: Jan 12/09 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	_____
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 134

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: July 16/20 TIME: 8:00 STAFF: Dustin J...

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	Yes / <u>No</u>	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	Yes / <u>No</u>	_____
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 05/17/20 TYPE: PLASTIC, PAPER

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 74

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE: [Signature] Print Staff Name: _____
 OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: June 20 12 TIME: 6:30 STAFF: DUSTIN THOMPSON

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<u>Yes</u> / No	
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	<u>Yes</u> / No	
Animals:	<u>Yes</u> / No	
Other:	<u>Yes</u> / No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / / TYPE _____
 DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 98

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: June 23/20 TIME: 8:30 STAFF: RUSIN Jole 1157

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	_____
Other:	Yes / <u>No</u>	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Broken wood

RECYCLING:

DATE BINS WERE ORDERED: 06/23/20 TYPE: MUSTIC POTOL
 DATES BINS WERE PICKED UP: 06/20/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 82

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: 27/20 TIME: 8:30 STAFF: DUSTIN JACKSON

DEFICIENCIES OBSERVED:		Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	_____
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

BUDY

RECYCLING: _____ **TYPE** _____
 DATE BINS WERE ORDERED: / /
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 146

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ Print Staff Name: _____

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: June 30, 2015 TIME: 8:30 am STAFF: Ashley J. ...

DEFICIENCIES OBSERVED:		Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	_____
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Broken hand cart 19

RECYCLING: _____ **TYPE** _____
 DATE BINS WERE ORDERED: 1/1 _____
 DATES BINS WERE PICKED UP: 1/1 _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

slow day

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 67

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ **Print Staff Name:** _____
OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



~~Windsor~~
 Lyndhurst
 Escott

DATE: Sat July 4/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Broken hand, covid 19

RECYCLING:

DATE BINS WERE ORDERED: 1/1 TYPE _____
 DATES BINS WERE PICKED UP: 1/1 _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
8:45	Art M...	household	T/C	YES
9:55	"	"	"	"
11:25	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 134

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lymington
 Escott

DATE: Tues 7/20 TIME: 8:30 STAFF: Ashia Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Cats, Dogs</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Plastic card boards, steel all packed

RECYCLING:

DATE BINS WERE ORDERED: 06/17/20 TYPE: Plastic, cardboard
 DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

57 in shock

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 71

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



DATE: July 11/20 TIME: 8:30 STAFF: DUSTIN JOURNEY

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No _____
- Windblown Litter: Yes / No _____
- Leachate Springs: Yes / No _____
- Animals: Yes / No _____
- Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Rain in morning

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 96

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

Lansdowne
 Lyndhurst
 Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: July 16/20 TIME: 8:00 am STAFF: Brian McQuaid

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	_____
Leachate Springs:	Yes / No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>cat, turkey vultures</u>
Other:	Yes / No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / / TYPE _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:06 am</u>	<u>private</u>	<u>shingles</u>	<u>1/2 ton load</u>	<input checked="" type="checkbox"/>

TOTAL COUNT OF HOUSEHOLD USERS: 116

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To:

LITTER CONTROL: Yes / No

DETAILS: Did litter pick up

APPLICATION OF DUST SUPPRESSANT: Yes No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Brian McQuaid Print Staff Name: Brian McQuaid

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: JUL 19/20 TIME: 8:30 AM STAFF: DUSTIA PASCAL

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>cat + turkey vultures</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 07/21/20 TYPE: Paper, Plastic

DATES BINS WERE PICKED UP: 07/19/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:06 AM</u>	<u>arrivato</u>	<u>shingles</u>	<u>1/2 ton load</u>	<u>✓</u>

TOTAL COUNT OF HOUSEHOLD USERS: 84

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: did litter pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE: [Signature] Print Staff Name: Brian McLeod

OFFICE USE:



Lansdowne
 Lyndhurst
 Escott

DATE: July 25/20 TIME: 8:30 am STAFF: Pestina Jackson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Boundries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>BIRDS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
None

RECYCLING: TYPE
 DATE BINS WERE ORDERED: / /
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS
Covid 19

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:30	ART morrow	household	T/L	Yes
11:00	"	"	"	"
12:45	"	"	"	"

TOTAL COUNT OF HOUSEHOLD USERS: 116

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ Print Staff Name: _____

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: July 25/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>Boulders</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds, cats, raccoons</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____
DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 88

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: Picked up 1 hour

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Aug 1/20 TIME: 8:30 STAFF: Dustin Johnson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

lots of wood could be

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

lots of traffic

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 142

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Aug 4/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>Rain all day</u>
Windblown Litter:	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<u>Boundaries</u>
Leachate Springs:	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	
Animals:	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	<u>Birds</u>
Other:	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Rain all day very muddy by
garbage pile

RECYCLING:

DATE BINS WERE ORDERED: 08/04/20 TYPE: Plastic

DATES BINS WERE PICKED UP: 08/06/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>4:00</u>	<u>319 R/E road</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 46

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: Too Muddy, need gravel

SIGNATURE: [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: August 8 2020 TIME: 8:15 STAFF: Chris Kirkwood

DEFICIENCIES OBSERVED:		Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>puddles from rain</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	
Leachate Springs:	<input type="radio"/> Yes / <input type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Cats, Birds</u>
Other:	<input type="radio"/> Yes / <input type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING: TYPE _____

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>?</u>	<u>1384 CUYR22</u>	<u>household</u>	<u>T/L</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 191

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Chris Kirkwood

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Aug 11/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/11/20 Plastic, metal, cardboard
DATES BINS WERE PICKED UP: 1/1 _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 61

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Aug 15 TIME: 7:15 AM STAFF: Bruce Blanchard

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	
Windblown Litter:	<input checked="" type="radio"/> Yes / No	
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>COON . CAT</u>
Other:	Yes / No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING: TYPE _____
DATE BINS WERE ORDERED: / / _____
DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>9:30 AM</u>	<u>Don't NO</u>	<u>BIG LOAD OF WIRE MIXED WITH WOOD POST</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 101

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
DETAILS: PICK UP IN FRONT OF PAPER PIA

APPLICATION OF DUST SUPPRESSANT: Yes / No
DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
If Yes, complaint file number(s) and topic: _____

SIGNATURE Bruce Blanchard Print Staff Name: _____

OFFICE USE:
Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: AUG 18/20 TIME: 8:30 STAFF: Austin Jamison

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	<u>Yes / No</u>	<u>But did not</u>
Windblown Litter:	<u>Yes / No</u>	<u>BY bumeries</u>
Leachate Springs:	<u>Yes / No</u>	
Animals:	<u>Yes / No</u>	<u>cats, birds</u>
Other:	<u>Yes / No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleared w/ litter w/ bins

RECYCLING:

DATE BINS WERE ORDERED: 08/18/20 TYPE: Plastic, Paper, metal
 DATES BINS WERE PICKED UP: 08/21/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 62

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Aug 22/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:	Description / Location
Ponded Water: Yes / <u>No</u>	_____
Windblown Litter: <u>Yes</u> / No	_____
Leachate Springs: Yes / <u>No</u>	_____
Animals: <u>Yes</u> / No	<u>Birds, cats</u>
Other: Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up by Shuck
garbage at site

RECYCLING:	TYPE
DATE BINS WERE ORDERED: <u> / / </u>	_____
DATES BINS WERE PICKED UP: <u> / / </u>	_____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 108

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Aug 25/20 TIME: 8:30 STAFF: Dustin Johnson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>by gate</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>(Bills), cats</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleared UP around Metal bin and wood pile

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/25/20 Plastic
 DATES BINS WERE PICKED UP: 08/26/20 Plastic

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
	<u>Art + Morrow</u>	<u>household</u>	<u>T/C</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 4/1

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input checked="" type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: SEP 1/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	<u>Yes / No</u>	
Windblown Litter:	<u>Yes / No</u>	<u>Boundry</u>
Leachate Springs:	<u>Yes / No</u>	
Animals:	<u>Yes / No</u>	<u>Birds, cats</u>
Other:	<u>Yes / No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Did litter pickup for 3 hours

RECYCLING:
 DATE BINS WERE ORDERED: 09/01/20 TYPE: PLASTIC, cardboard
 DATES BINS WERE PICKED UP: 09/01/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 67

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Sept 5 / 2020 TIME: 8:30 AM STAFF: Tim WATSON

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	Yes / <u>No</u>	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
No Actions Recommended

RECYCLING: TYPE _____
 DATE BINS WERE ORDERED: / /
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:15 am</u>	<u>ART Morrow</u>	<u>RESORTED RESIDUES</u>	<u>1/2 TON TRUCK</u>	<u>YES</u>
<u>11:35 am</u>	<u>"</u>	<u>" Household "</u>	<u>" "</u>	<u>YES</u>
<u>1:15 pm</u>	<u>"</u>	<u>" "</u>	<u>" "</u>	<u>YES</u>

TOTAL COUNT OF HOUSEHOLD USERS: 114

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: picked up litter in and around bins

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE Tim Watson Print Staff Name: Tim WATSON

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Sept 8/20 TIME: 8:30 AM STAFF: Dustin Johnson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>Bandages</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	_____
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up yard waste around bins

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 09/08/20 Plastic, Paper

DATES BINS WERE PICKED UP: 09/10/20 Plastic, Paper

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
	<u>ESCO</u>	<u>SS</u>
<u>2:40</u>	<u>Waste</u>	<u>SS</u>
<u>3:00</u>	<u>Waste</u>	<u>SS</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 78

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: 85

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Sept 12/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>Boundries</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Busy

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:53	Art Morrow	household	T/C	Yes
12:02	"	"	"	Yes
1:10	"	"	"	Yes
1:00	134 Selton rd	Amesbury	T/C	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 110

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds** and the **Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Sept 15/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	<input checked="" type="radio"/>	
Windblown Litter:	<input checked="" type="radio"/>	<u>Boundaries</u>
Leachate Springs:	<input checked="" type="radio"/>	
Animals:	<input checked="" type="radio"/>	<u>Birds, cats</u>
Other:	<input checked="" type="radio"/>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Picked up garbage near bins

RECYCLING: TYPE Plastic, cardboard
 DATE BINS WERE ORDERED: 09/15/20
 DATES BINS WERE PICKED UP: 09/18/20

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>1:30</u>	<u>1370 City 02</u>	<u>Amnest+7</u>	<u>T/C</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 77

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Dump

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Sept 19/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>Birds, Cats</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Busy

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:30	Art Morrow	household	T/C	Yes
11:22	"	"	"	"
12:15	"	"	"	"
2:06	Go old records	Amnesty	T/C	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 112

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Sept 22/20 TIME: 8:30 STAFF: Dustin Tolken

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Boulders</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds, cats, Skunk</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up steel bin and plastic bin

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 09/22/20 Plastic

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 57

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Sept 26/20 TIME: 9:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
Very Busy

RECYCLING: TYPE _____
 DATE BINS WERE ORDERED: / /
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:50	Art Morrow	household	T/C	Yes
11:20	Art Morrow	household	T/C	Yes
12:28	Art Morrow	household	T/C	Yes
1:30	74 packard	household	T/C	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 136

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: Too Busy

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: Very dry

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Sept 29/20 TIME: 8:30 AM STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water: Yes / **No**
 Windblown Litter: **Yes** / No
 Leachate Springs: Yes / **No**
 Animals: **Yes** / No
 Other: Yes / **No**

Description / Location

bins, boundaries
BINS

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Rain day lots of brush

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 49

AREA OF WASTE DISPOSAL: All waste sent to active face: **Yes** / No

IF NO: Waste Sent To: _____

LITTER CONTROL: **Yes** / No

DETAILS: cleaned by bins while it was raining

APPLICATION OF DUST SUPPRESSANT: Yes / **No**

DETAILS: wet

DAILY INSPECTION FORM COMPLETED: **Yes** / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / **No**

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Oct 3/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>By Bouncines</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up for an hour today while it wasn't busy

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:32	Art mallow	Household	T/C	Yes
11:27	"	"	"	"
1:02	"	"	"	"
3:26	71 Kelly pt	Amnesty load	T/C	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 98

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: By bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Wet

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Oct 6/20 TIME: 8:30 STAFF: Dustin Jackson

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>by boundaries</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>Birds, cats</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Cleaned up for a couple hours around the bins

RECYCLING:

DATE BINS WERE ORDERED: 10/6/20 TYPE: Plastic, cardboard
 DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 48

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Damp

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Oct 10 2000 TIME: 8:23am STAFF: Rebecca Cross

DEFICIENCIES OBSERVED:

Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	_____
Leachate Springs:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	_____
Other:	<input type="radio"/> Yes / <input checked="" type="radio"/> No	_____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / / TYPE _____
 DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:22</u>	<u>Ant</u>	<u>Reg Load</u>	<u>15 bags</u>	

TOTAL COUNT OF HOUSEHOLD USERS: 87

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: Roadway & fence around
 SIGNATURE [Signature] Print Staff Name: Rebecca Cross

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Oct 13/20 TIME: 6:30 STAFF: Austin Tuckman

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	<u>BY Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	<u>Yes</u> / No	<u>BIRDS, cats</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Ran for the morning but found near
it stopped and I did subseq. pickup

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 10/13/20 Plastic, Paper

DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 45

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: BY bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain road

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

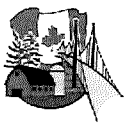
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE _____ Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: October 17/2020 TIME: 8:30 AM STAFF: TIM WATSON

DEFICIENCIES OBSERVED:		Description / Location
Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>CATS</u>
Other:	Yes / No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
None taken

RECYCLING: TYPE
 DATE BINS WERE ORDERED: 1/1
 DATES BINS WERE PICKED UP: 1/1 2 Plastic was empty

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>11:30</u>	<u>AW INDUST</u>	<u>PAINTS, PAINT THINNER, CONCRETE</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00 AM</u>	<u>ART MCKREW</u>	<u>ASST. TRASH/ROCK</u>	<u>1/2 TON TRUCK</u>	<u>NO</u>
<u>11:35 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>1:00 PM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>2:15 PM</u>	<u>"</u>	<u>"</u>	<u>" LESS THAN</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 124

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: Picked up debris from around house bin

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE Tim Watson Print Staff Name: TIM WATSON

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Oct 20 20 TIME: 6:30 STAFF: Austin Jackson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>BIRDS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Rain

RECYCLING:	TYPE
DATE BINS WERE ORDERED: <u> / / </u>	
DATES BINS WERE PICKED UP: <u> / / </u>	

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Rained all day

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 55

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: Picked up litter by bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: Rain

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Oct, 24, 2020 TIME: 8:26 am STAFF: Rebecca Cross

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No _____ Description / Location _____
 Windblown Litter: Yes / No _____
 Leachate Springs: Yes / No _____
 Animals: Yes / No _____
 Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 126

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: Not having stairs @ cardboard bin

SIGNATURE [Signature] Print Staff Name: Rebecca Cross

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Oct 27/20 TIME: 8:30 AM STAFF: Dustin Tuckman

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>BY Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter by bins
4 loads of gravel spread out also

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 10/21/20 Plastic, metal
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 51

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: BY bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: wet

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

Lansdowne
 Lyndhurst
 Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Oct 31/2020 TIME: 8:30 AM STAFF: Tim Watson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <input checked="" type="radio"/> No	
Windblown Litter:	<input checked="" type="radio"/> Yes / No	
Leachate Springs:	Yes / <input checked="" type="radio"/> No	
Animals:	<input checked="" type="radio"/> Yes / No	<u>CATS</u>
Other:	Yes / <input checked="" type="radio"/> No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

None taken

RECYCLING: TYPE _____
 DATE BINS WERE ORDERED: / /
 DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>3:24</u>	<u>LOCAL</u>	<u>CONSTRUCTION MATERIAL - NO TICKETS</u>

OTHER COMMENTS / OBSERVATIONS

HAD A RESIDENT COME IN, I TOLD TO REMOVE STEEL FROM 10011 SO TO RECYCLE, WHILE UNLOADING 1/2 TON TRUCK LEAN, RESIDENT FELL DOWN AND HIT HEAD.

COMMERCIAL HAULER OR LARGE LOADS

SEEMED TO BE OK BUT HAD LARGE GOOSE ESS ON ROAD. DID NOT SEE HIM FALL BUT HE WAS WITH SON-IN-LAW

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>8:39</u>	<u>ART MORROW</u>	<u>MIXED HOUSEHOLD</u>	<u>1/2 TON TRUCK</u>	
<u>10:17</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>11:35</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>1:39</u>	<u>"</u>	<u>"</u>	<u>"</u>	

TOTAL COUNT OF HOUSEHOLD USERS: 168

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: picked up some around bins

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Tim Watson Print Staff Name: Tim Watson

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Nov 3/20 TIME: 8:30 STAFF: Austin Johnson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>BY bins, boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up w/ paper bin and w/ the
road, picked up metal also

RECYCLING: TYPE Plastic, Paper
 DATE BINS WERE ORDERED: 11/03/20
 DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

lots of brush

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 56

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds** and the **Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Nov 7/2020 TIME: 8:30 AM STAFF: Tim Watson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>CATS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

None Taken

RECYCLING:	TYPE
DATE BINS WERE ORDERED: <u>1/1</u>	
DATES BINS WERE PICKED UP: <u>1/1</u>	<u>Plastic & paper bins with kelly</u>

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:51 AM</u>	<u>ART Hauling</u>	<u>ASSORTED Household</u>	<u>1/2 Ton Truck</u>	<u>YES</u>
<u>11:40</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>YES</u>
<u>1:03</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>" "</u>

TOTAL COUNT OF HOUSEHOLD USERS: 129

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Tim Watson Print Staff Name: Tim Watson

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

Lansdowne
 Lyndhurst
 Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Nov 10/20 TIME: 8:30 AM STAFF: Austin Jensen

DEFICIENCIES OBSERVED:

Description / Location

- Ponded Water: Yes / No _____
- Windblown Litter: Yes / No By Boundaries
- Leachate Springs: Yes / No _____
- Animals: Yes / No BIRDS, cats
- Other: Yes / No _____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up by metal bin took stuff out that wasn't suppose to be in there

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 11/10/20 Plastic cardboard
 DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

lots of leaves

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 63

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: NOV 14 TIME: 7:30 STAFF: BURT BLANCHARD

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	Yes / <u>No</u>	_____
Other:	Yes / No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 76

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: PICKED UP PLASTIC BAGS

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Burt Blanchard Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input checked="" type="checkbox"/>	Lyndhurst
<input type="checkbox"/>	Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: NOV 17/20 TIME: 8:30 STAFF: Austin Tucker

DEFICIENCIES OBSERVED:

Ponded Water:	Yes / <input checked="" type="radio"/> No	_____
Windblown Litter:	<input checked="" type="radio"/> Yes / No	<u>BOUNDRIES</u>
Leachate Springs:	Yes / <input checked="" type="radio"/> No	_____
Animals:	<input checked="" type="radio"/> Yes / No	<u>cats, birds, squirrels</u>
Other:	Yes / <input checked="" type="radio"/> No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter by bus, picked up 7 bags full

RECYCLING:

DATE BINS WERE ORDERED: 11/17/20 TYPE: Plastic
 DATES BINS WERE PICKED UP: 11/19/20 TYPE: "

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 49

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Nov 21, 2020 TIME: 8:22 am STAFF: Rebecca Cross

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	_____
Windblown Litter:	<u>Yes</u> / No	_____
Leachate Springs:	Yes / <u>No</u>	_____
Animals:	Yes / <u>No</u>	<u>Bms / cats</u>
Other:	Yes / <u>No</u>	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 80

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Rebecca Cross

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

WASTE
DAILY INSPECTION FORM

DATE: Nov 24/20 TIME: 8:30 STAFF: Austin Tauson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter by the sides of the road and by the bus

RECYCLING:	DATE BINS WERE ORDERED:	TYPE
	<u>11/24/20</u>	<u>Metal, paper, cardboard</u>
	<u>/ /</u>	

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 47

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Nov 28/2020 TIME: 8:30 AM STAFF: Tim Watson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>CATS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:
NONE TAKEN

RECYCLING: TYPE
 DATE BINS WERE ORDERED: 1/1 CARDBOARD & PAPER BINS WERE EMPTY
 DATES BINS WERE PICKED UP: 1/1 AT THE END OF EACH SHIFT

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00 AM</u>	<u>ART MORROW</u>	<u>MIXED HOUSEHOLD</u>	<u>1/2 TON TRUCK</u>	<u>NO</u>
<u>11:35 AM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>1:00 PM</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: 99

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: PICKED UP SOME LOOSE SCATTERED CARBAGE

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE Tim Watson Print Staff Name: TIM WATSON

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds** and the **Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

Lansdowne
 Lyndhurst
 Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Dec 1/20 TIME: 8:30 STAFF: Austin Johnson

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	Yes / <u>No</u>	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	Yes / <u>No</u>	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

cleaned up by paper bin and picked up litter by plastic bin

RECYCLING:	DATE BINS WERE ORDERED:	TYPE
	<u>12/10/20</u>	<u>Plastic</u>
	<u>12/10/20</u>	<u>Plastic</u>

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Rain slow

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 4/5

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No
 IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No
 DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No
 DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No
 DETAILS: _____

COMPLAINTS RECEIVED: Yes / No
 If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:
 Date Reviewed: _____ Reviewer: _____ File Number: _____



<input type="checkbox"/>	Lansdowne
<input type="checkbox"/>	Lyndhurst
<input checked="" type="checkbox"/>	Escott

DATE: Dec 5 2020 TIME: 8:30 am STAFF: Chris Wickland

DEFICIENCIES OBSERVED:

Ponded Water:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>lots of rain yesterday,</u>
Windblown Litter:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	_____
Leachate Springs:	Yes / No	_____
Animals:	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>Cats, Birds,</u>
Other:	Yes / No	_____

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: / / _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00</u>	<u>Art morrow</u>	<u>House hold garbage</u>	<u>20 bags + Recycling</u>	<u>Yes</u>
<u>2:00</u>	<u>Art morrow</u>	<u>House Hold garbage</u>	<u>30 bags + Recycling</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: _____

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Chris Wickland

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of **Leeds and the Thousand Islands**
 1233 Prince Street, P.O. Box 280
 Lansdowne, ON K0E 1L0

Lansdowne
 Lyndhurst
 Escott

**WASTE DISPOSAL SITE
 DAILY INSPECTION FORM**

DATE: Dec 8/20 TIME: 8:30 STAFF: Rustin Jackson

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	<u>Boundaries</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>Birds, cats</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Picked up litter by bins

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 12/08/20 Plastic, cardboard

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Man Paid to throw binders of paper out did not want to recycle

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)

TOTAL COUNT OF HOUSEHOLD USERS: 64

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Lansdowne
 Lyndhurst
 Escott

DATE: Dec 12/2020 TIME: 8:30 AM STAFF: TIM WATSON

DEFICIENCIES OBSERVED:	Yes / No	Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	<u>Yes</u> / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / No	<u>CATS</u>
Other:	Yes / <u>No</u>	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 1/1 TYPE: plastic bin is empty
 DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
	<u>WATSON</u>	
	<u>WATSON</u>	

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00 AM</u>	<u>WATSON</u>	<u>MIXED HOUSEHOLD</u>	<u>1/2 TON TRUCK</u>	<u>YES</u>
<u>11:30</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>12:46</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

TOTAL COUNT OF HOUSEHOLD USERS: NO COUNCIL @ LOCATION

AREA OF WASTE DISPOSAL: All waste sent to active face: Yes / No

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: PICKED UP SOME LITTER AROUND BINS

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE: [Signature] Print Staff Name: TIM WATSON

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

Appendix H
Malroz Site Inspections

WARD 3 (ESCOTT) WASTE DISPOSAL SITE A441073
MONTHLY SITE INSPECTION REPORT



Date of Inspection April 14, 2020 (d/m/y)

Please check "✓" the boxes and fill in the blanks. Use the "Notes" area for additional information or clarification.

1. Condition of the active disposal area, the recyclable bins, the tire bins, the white good bins, the scrap metal bins, and the brush and stump pile:

- a) In which area of the site is disposal taking place?
South of final cover (as appears on map from JOFI report figure 2)
- b) Did attendant routinely supervise waste disposal? (COVID-19 he stayed in building people stop and he leaves) Yes No
- c) Was any hazardous or liquid industrial waste disposed? Yes No
- d) Are recyclable materials and other goods being placed into correct bins? Yes No
- e) How full are the recycling bins?
- Scrap metal bin 1/5 full - Plastic bin 3/4 full
- Paper bin 1/3 full - large cardboard 1/2 full
- f) Are brush and stumps being segregated and stockpiled? Yes No
- g) Has there been any burning of brush and stumps this month? Yes No
- h) If yes, was the burning supervised? Yes No

Notes: No answer for 1g and 1h was provided during the site visit due as a result of social distancing for question Overall Rating: Satisfactory Unsatisfactory

2. Condition of the surface water drainage works:

- a) Are all ditches, swales, sediment control ponds, and rock check dams in working order? If no, please explain. Yes No
- b) Is there any ponded water at the site? (lots of rain yesterday) If yes, please explain. - west side of active filling area - along east side of roadway near attendants trailer. Yes No
- c) Are any of the siltation control traps (ponds) full? If yes, please explain. Yes No
- d) Was any cleaning of sediment accumulated in the ponds conducted this month? Yes No

Notes: No answer was provided during the site visit as a result of social distancing for question 2d. Overall Rating: Satisfactory Unsatisfactory

3. Condition of the on-site roads:

- a) Is there any evidence of excessive erosion on the on-site road? If yes, please explain. Yes No
- b) Is there excessive dust? Yes No
- c) Has dust suppressant been used this month? Yes No

Notes: Overall Rating: Satisfactory Unsatisfactory

4. Presence of litter at the site's perimeter and litter fences:

- a) Is there any evidence of wind-blown litter or accidentally dropped litter from waste hauling vehicles? Yes No
- b) If yes, this litter needs to be picked up. Has this or will this be done in the near future? Yes No (not done)
- c) Has a litter fence been installed? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

5. Condition of the intermediate cover and final cover:

- a) Is there evidence of any erosion in the existing landfill cover? Yes No
- b) Are any repairs needed to the existing landfill cover? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

6. Presence of birds, vector, vermin and animals: None observed today

Which of the following was observed on site: birds rats flies other animals

Notes: N/A

Overall Rating:

Satisfactory Unsatisfactory

7. Condition of the on-site facilities, the fence, the gate and its lock and the signage:

- a) Is the attendants' shelter in good condition? Vapour readings hexane ME:- PID: 100 Yes No
- b) Is the outhouse being cleaned and pumped out on a regular basis? Yes No
- c) Is the perimeter fence in good condition? Yes No
- d) Is the entry gate in good condition? Yes No
- e) Is the lock on the gate operational and in good condition? Yes No
- f) Is proper signage for the landfill posted? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Condition of the groundwater monitoring wells required for the groundwater monitoring program:

- a) Can all monitoring wells be located? Yes No If no, please specify.
- b) Do all wells have proper well caps? Yes No If no, please specify.
- c) Do any monitoring wells need repair? Yes No If yes, please specify.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Available amount of cover material to ensure sufficient daily cover activities at all times when the site is in operation:

- a) Is there a stockpile of daily cover material on site? Yes No
- If no, please explain where and how material is obtained.

Notes:

Tackaberry's Construction brings to site

Overall Rating:

Satisfactory Unsatisfactory

Presence of leachate springs:

- a) Are leachate springs evident anywhere on site? Yes No
- If yes, please indicate where.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Name of Inspector: Mallory Wright (Please to print)

Signature: [Handwritten Signature]

Date: April 14, 2020

**WARD 3 (ESCOTT) WASTE DISPOSAL SITE A441073
MONTHLY SITE INSPECTION REPORT**



Date of Inspection 20/10/20 (d/m/y)

Please check "✓" the boxes and fill in the blanks. Use the "Notes" area for additional information or clarification.

- 1. Condition of the active disposal area, the recyclable bins, the tire bins, the white good bins, the scrap metal bins, and the brush and stump pile:**
- a) In which area of the site is disposal taking place?
In the area shown on the 2019 site plan figure. Yes No
 - b) Did attendant routinely supervise waste disposal? Yes No
 - c) Was any hazardous or liquid industrial waste disposed? Yes No
 - d) Are recyclable materials and other goods being placed into correct bins?
 - e) How full are the recycling bins? Yes No
 - f) Are brush and stumps being segregated and stockpiled? Yes No
 - g) Has there been any burning of brush and stumps this month? *last by March 2020* Yes No
 - h) If yes, was the burning supervised? *yes.* Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

- 2. Condition of the surface water drainage works:**
- a) Are all ditches, swales, sediment control ponds, and rock check dams in working order? Yes No
If no, please explain. *Rock check dam n/a. Sediment control pond n/a*
 - b) Is there any ponded water at the site? Yes No
If yes, please explain. *a little bit around brush area (had rained deep night before)*
 - c) Are any of the siltation control traps (ponds) full? Yes No
If yes, please explain.
 - d) Was any cleaning of sediment accumulated in the ponds conducted this month? Yes No
W/A

Notes:

Overall Rating:

Satisfactory Unsatisfactory

- 3. Condition of the on-site roads:**
- a) Is there any evidence of excessive erosion on the on-site road? Yes No
If yes, please explain.
 - b) Is there excessive dust? Yes No
 - c) Has dust suppressant been used this month? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

4. Presence of litter at the site's perimeter and litter fences:

- a) Is there any evidence of wind-blown litter or accidentally dropped litter from waste hauling vehicles? Yes No
- b) If yes, this litter needs to be picked up. Has this or will this be done in the near future? Yes No
- c) Has a litter fence been installed? Yes No

Notes: litter cleanup in ~ 2 weeks

Overall Rating:

Satisfactory Unsatisfactory

5. Condition of the intermediate cover and final cover:

- a) Is there evidence of any erosion in the existing landfill cover? Yes No
- b) Are any repairs needed to the existing landfill cover? Yes No

Notes:

Overall Rating:

Satisfactory Unsatisfactory

6. Presence of birds, vector, vermin and animals: ~~NO~~

Which of the following was observed on site: birds rats flies other animals

Notes: sometimes vultures, but not observed at time of inspection.

Overall Rating:

Satisfactory Unsatisfactory

7. Condition of the on-site facilities, the fence, the gate and its lock and the signage:

- a) Is the attendants' shelter in good condition? Yes No
- b) Is the outhouse being cleaned and pumped out on a regular basis? Yes No
- c) Is the perimeter fence in good condition? Yes No
- d) Is the entry gate in good condition? Yes No
- e) Is the lock on the gate operational and in good condition? Yes No
- f) Is proper signage for the landfill posted? Yes No

Notes: Sign on west side of Bscott Roadport Road appears to have been hit by Pew?

Overall Rating:

Satisfactory Unsatisfactory

Condition of the groundwater monitoring wells required for the groundwater monitoring program:

- a) Can all monitoring wells be located? Yes No If no, please specify.
- b) Do all wells have proper well caps? Yes No If no, please specify.
- c) Do any monitoring wells need repair? Yes No If yes, please specify.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Available amount of cover material to ensure sufficient daily cover activities at all times when the site is in operation:

- a) Is there a stockpile of daily cover material on site? Yes No
If no, please explain where and how material is obtained.

Notes: brought to site every 2 weeks

Overall Rating:

Satisfactory Unsatisfactory

Presence of leachate springs:

- a) Are leachate springs evident anywhere on site? Yes No
If yes, please indicate where.

Notes:

Overall Rating:

Satisfactory Unsatisfactory

Name of Inspector: Malloy Wright
(Please print)

Signature: M. Wright

Date: 20/10/20

Appendix I
Laboratory Certificates of Analyses

C.O.C.: G93064

REPORT No. B20-09739 (i)

Rev. 1

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W001	20-W002	20-W005	20-W006
Sample I.D.	B20-09739-1	B20-09739-2	B20-09739-3	B20-09739-4
Date Collected	14-Apr-20	14-Apr-20	14-Apr-20	14-Apr-20

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	370	399	159	334
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	7.54	7.49	7.90	8.10
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	863	924	355	660
Chloride	mg/L	0.5	SM4110C	17-Apr-20/O	33.1	36.8	4.0	2.4
Nitrite (N)	mg/L	0.05	SM4110C	17-Apr-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	17-Apr-20/O	0.06	0.05	0.08	0.42
Sulphate	mg/L	1	SM4110C	17-Apr-20/O	38	41	13	21
BOD(5 day)	mg/L	3	SM 5210B	15-Apr-20/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	15-Apr-20/K	2900	52	3	1100
Phosphorus-Total	mg/L	0.01	E3199A.1	15-Apr-20/K	5.46	0.09	< 0.01	1.06
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	15-Apr-20/K	1.9	1.5	0.1	0.4
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	1.00	1.09	0.02	0.02
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	456	491	183	343
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	16-Apr-20/O	2.9	3.4	2.9	1.4
Phenolics	mg/L	0.002	MOEE 3179	15-Apr-20/K	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	17-Apr-20/O	80	< 5	< 5	30
Hardness (as CaCO3)	mg/L	1	SM 3120	16-Apr-20/O	428	459	175	346
Aluminum	mg/L	0.01	SM 3120	16-Apr-20/O	0.07	0.07	0.03	0.10
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0007	0.0006	0.0003	0.0007
Barium	mg/L	0.001	SM 3120	16-Apr-20/O	0.184	0.168	0.054	0.128
Beryllium	mg/L	0.002	SM 3120	16-Apr-20/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	16-Apr-20/O	0.308	0.352	0.045	0.053
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Calcium	mg/L	0.02	SM 3120	16-Apr-20/O	107	113	52.8	44.9
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	< 0.001	< 0.001	< 0.001	0.003
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0012	0.0011	< 0.0001	0.0002
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0008	0.0010	0.0002	0.0009



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G93064

REPORT No. B20-09739 (i)

Rev. 1

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W001	20-W002	20-W005	20-W006
Sample I.D.	B20-09739-1	B20-09739-2	B20-09739-3	B20-09739-4
Date Collected	14-Apr-20	14-Apr-20	14-Apr-20	14-Apr-20

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Iron	mg/L	0.005	SM 3120	16-Apr-20/O	0.694	0.520	0.052	0.119
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	0.00038	0.00037	0.00003	0.00014
Magnesium	mg/L	0.02	SM 3120	16-Apr-20/O	39.0	43.0	10.4	56.9
Manganese	mg/L	0.001	SM 3120	16-Apr-20/O	0.369	0.448	0.029	0.010
Mercury	mg/L	0.00002	SM 3112 B	17-Apr-20/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	16-Apr-20/O	4.6	4.8	2.3	2.5
Silicon	mg/L	0.01	SM 3120	16-Apr-20/O	7.95	8.43	4.81	6.54
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	16-Apr-20/O	22.5	25.4	4.8	20.9
Strontium	mg/L	0.001	SM 3120	16-Apr-20/O	1.57	1.60	1.10	1.06
Thallium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	< 0.00005	0.00007	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	16-Apr-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	16-Apr-20/O	< 0.005	< 0.005	< 0.005	0.006
Tungsten	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00908	0.00913	0.00592	0.00409
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0005	0.0003	0.0002	0.0020
Zinc	mg/L	0.005	SM 3120	16-Apr-20/O	< 0.005	< 0.005	< 0.005	< 0.005



Michelle Dubien
Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W008	20-W009	20-W010	20-W011
Sample I.D.	B20-09739-5	B20-09739-6	B20-09739-7	B20-09739-8
Date Collected	14-Apr-20	14-Apr-20	14-Apr-20	14-Apr-20

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	842	301	225	1020
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	7.26	7.83	7.96	7.38
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	1950	704	454	2080
Chloride	mg/L	0.5	SM4110C	17-Apr-20/O	88.9	22.4	1.4	80.5
Nitrite (N)	mg/L	0.05	SM4110C	17-Apr-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	17-Apr-20/O	< 0.05	0.35	0.09	< 0.05
Sulphate	mg/L	1	SM4110C	17-Apr-20/O	145	36	10	103
BOD(5 day)	mg/L	3	SM 5210B	15-Apr-20/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	15-Apr-20/K	8	16100	700	2700
Phosphorus-Total	mg/L	0.01	E3199A.1	15-Apr-20/K	0.03	14.8	1.06	6.11
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	15-Apr-20/K	3.1	1.2	0.3	4.4
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	2.46	0.03	0.03	2.90
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	1070	366	255	1150
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	16-Apr-20/O	8.1	2.2	1.4	9.1
Phenolics	mg/L	0.002	MOEE 3179	15-Apr-20/K	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	17-Apr-20/O	< 5	285	26	154
Hardness (as CaCO3)	mg/L	1	SM 3120	16-Apr-20/O	1030	608	246	1540
Aluminum	mg/L	0.01	SM 3120	16-Apr-20/O	0.11	1.03	0.04	1.27
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0014	0.0014	0.0004	0.0032
Barium	mg/L	0.001	SM 3120	16-Apr-20/O	0.337	0.151	0.075	0.607
Beryllium	mg/L	0.002	SM 3120	16-Apr-20/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	16-Apr-20/O	0.543	0.020	0.009	0.281
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	< 0.000029	0.000029	< 0.000015	< 0.000029
Calcium	mg/L	0.02	SM 3120	16-Apr-20/O	242	141	57.9	244
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	< 0.001	0.003	0.001	0.004
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0116	0.0018	0.0001	0.0055
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0030	0.0043	0.0008	0.0017



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G93064

REPORT No. B20-09739 (i)

Rev. 1

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308 Wellington Street, 2nd Floor
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285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W008	20-W009	20-W010	20-W011
Sample I.D.	B20-09739-5	B20-09739-6	B20-09739-7	B20-09739-8
Date Collected	14-Apr-20	14-Apr-20	14-Apr-20	14-Apr-20

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Iron	mg/L	0.005	SM 3120	16-Apr-20/O	2.69	1.74	0.040	5.92
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	0.00015	0.00234	0.00010	0.00288
Magnesium	mg/L	0.02	SM 3120	16-Apr-20/O	103	62.2	24.6	226
Manganese	mg/L	0.001	SM 3120	16-Apr-20/O	3.31	0.261	0.006	0.992
Mercury	mg/L	0.00002	SM 3112 B	17-Apr-20/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	16-Apr-20/O	0.01	< 0.01	< 0.01	0.01
Potassium	mg/L	0.1	SM 3120	16-Apr-20/O	5.6	1.5	1.3	7.5
Silicon	mg/L	0.01	SM 3120	16-Apr-20/O	12.3	9.92	9.75	15.5
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	16-Apr-20/O	71.3	8.5	5.5	50.5
Strontium	mg/L	0.001	SM 3120	16-Apr-20/O	1.27	0.400	0.141	1.27
Thallium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00005	< 0.00005	< 0.00005	0.00007
Tin	mg/L	0.05	SM 3120	16-Apr-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	16-Apr-20/O	< 0.005	0.027	< 0.005	0.045
Tungsten	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.0129	0.00133	0.00042	0.0296
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0004	0.0078	0.0009	0.0062
Zinc	mg/L	0.005	SM 3120	16-Apr-20/O	< 0.005	0.009	< 0.005	0.013



Michelle Dubien
Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G93064

REPORT No. B20-09739 (i)

Rev. 1

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W012		
Sample I.D.	B20-09739-9		
Date Collected	14-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	359		
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	8.03		
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	686		
Chloride	mg/L	0.5	SM4110C	17-Apr-20/O	2.4		
Nitrite (N)	mg/L	0.05	SM4110C	17-Apr-20/O	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	17-Apr-20/O	0.09		
Sulphate	mg/L	1	SM4110C	17-Apr-20/O	10		
BOD(5 day)	mg/L	3	SM 5210B	15-Apr-20/K	3		
Total Suspended Solids	mg/L	3	SM2540D	15-Apr-20/K	3300		
Phosphorus-Total	mg/L	0.01	E3199A.1	15-Apr-20/K	3.77		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	15-Apr-20/K	0.5		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	0.09		
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	356		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	16-Apr-20/O	2.6		
Phenolics	mg/L	0.002	MOEE 3179	15-Apr-20/K	< 0.002		
COD	mg/L	5	SM 5220D	17-Apr-20/O	65		
Hardness (as CaCO3)	mg/L	1	SM 3120	16-Apr-20/O	762		
Aluminum	mg/L	0.01	SM 3120	16-Apr-20/O	1.97		
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0030		
Barium	mg/L	0.001	SM 3120	16-Apr-20/O	0.340		
Beryllium	mg/L	0.002	SM 3120	16-Apr-20/O	< 0.002		
Boron	mg/L	0.005	SM 3120	16-Apr-20/O	0.036		
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	0.000049		
Calcium	mg/L	0.02	SM 3120	16-Apr-20/O	153		
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	0.007		
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0054		
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0105		



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Michelle Dubien
 Lab Manager

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REPORT No. B20-09739 (i)

Rev. 1

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DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W012		
Sample I.D.	B20-09739-9		
Date Collected	14-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Iron	mg/L	0.005	SM 3120	16-Apr-20/O	5.01		
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	0.00503		
Magnesium	mg/L	0.02	SM 3120	16-Apr-20/O	92.4		
Manganese	mg/L	0.001	SM 3120	16-Apr-20/O	0.577		
Mercury	mg/L	0.00002	SM 3112 B	17-Apr-20/O	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01		
Nickel	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	16-Apr-20/O	3.6		
Silicon	mg/L	0.01	SM 3120	16-Apr-20/O	15.6		
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	16-Apr-20/O	18.4		
Strontium	mg/L	0.001	SM 3120	16-Apr-20/O	0.811		
Thallium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00005		
Tin	mg/L	0.05	SM 3120	16-Apr-20/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	16-Apr-20/O	0.063		
Tungsten	mg/L	0.01	SM 3120	16-Apr-20/O	< 0.01		
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00153		
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0100		
Zinc	mg/L	0.005	SM 3120	16-Apr-20/O	0.016		



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Michelle Dubien
 Lab Manager

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C.O.C.: G93064

REPORT No. B20-09739 (ii)

Rev. 1

Report To:

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 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 04-Jun-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W008	20-W011		
Sample I.D.	B20-09739-5	B20-09739-8		
Date Collected	14-Apr-20	14-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Acetone	µg/L	30	EPA 8260	17-Apr-20/R	< 30	< 30		
Benzene	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	0.8		
Bromodichloromethane	µg/L	2	EPA 8260	17-Apr-20/R	< 2	< 2		
Bromoform	µg/L	5	EPA 8260	17-Apr-20/R	< 5	< 5		
Bromomethane	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Carbon Tetrachloride	µg/L	0.2	EPA 8260	17-Apr-20/R	< 0.2	< 0.2		
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Chloroethane	µg/L	3	EPA 8260	17-Apr-20/R	< 3	< 3		
Chloroform	µg/L	1	EPA 8260	17-Apr-20/R	< 1	< 1		
Chloromethane	µg/L	2	EPA 8260	17-Apr-20/R	< 2	< 2		
Dibromochloromethane	µg/L	2	EPA 8260	17-Apr-20/R	< 2	< 2		
Dichlorobenzene,1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichlorobenzene,1,3-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichlorobenzene,1,4-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichlorodifluoromethane	µg/L	2	EPA 8260	17-Apr-20/R	< 2	< 2		
Dichloroethane,1,1-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloroethane,1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloroethylene,1,1-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloroethene, cis-1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloroethene, trans-1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloroethene, 1-2-Total	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloropropane,1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloropropene 1,3- cis+trans	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloropropene, trans-1,3-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Dichloropropene, cis-1,3-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		



R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G93064

REPORT No. B20-09739 (ii)

Rev. 1

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20
 DATE REPORTED: 04-Jun-20
 SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: Escott
 P.O. NUMBER: 1038
 WATERWORKS NO.

Client I.D.	20-W008	20-W011		
Sample I.D.	B20-09739-5	B20-09739-8		
Date Collected	14-Apr-20	14-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Dibromoethane, 1,2- (Ethylene Dibromide)	µg/L	0.2	EPA 8260	17-Apr-20/R	< 0.2	< 0.2		
Hexane	µg/L	5	EPA 8260	17-Apr-20/R	< 5	< 5		
Methyl Butyl Ketone	µg/L	5	EPA 8260	17-Apr-20/R	< 5	< 5		
Methyl Ethyl Ketone	µg/L	20	EPA 8260	17-Apr-20/R	< 20	< 20		
Methyl Isobutyl Ketone	µg/L	20	EPA 8260	17-Apr-20/R	< 20	< 20		
Methyl-t-butyl Ether	µg/L	2	EPA 8260	17-Apr-20/R	< 2	< 2		
Dichloromethane (Methylene Chloride)	µg/L	5	EPA 8260	17-Apr-20/R	< 5	< 5		
Styrene	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Tetrachloroethane, 1,1,1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Tetrachloroethane, 1,1,2,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Tetrachloroethylene	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Toluene	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Trichloroethane, 1,1,1-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Trichloroethane, 1,1,2-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Trichloroethylene	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Trichlorofluoromethane	µg/L	5	EPA 8260	17-Apr-20/R	< 5	< 5		
Trimethylbenzene, 1,3,5-	µg/L	0.1	EPA 8260	17-Apr-20/R	< 0.1	< 0.1		
Vinyl Chloride	µg/L	0.2	EPA 8260	17-Apr-20/R	< 0.2	< 0.2		
Xylene, m,p-	µg/L	1.0	EPA 8260	17-Apr-20/R	< 1.0	< 1.0		
Xylene, o-	µg/L	0.5	EPA 8260	17-Apr-20/R	< 0.5	< 0.5		
Xylene, m,p,o-	µg/L	1.1	EPA 8260	17-Apr-20/R	< 1.1	< 1.1		

1 Revised to include an additional VOC parameter



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit
 Test methods may be modified from specified reference method unless indicated by an *
 Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

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C.O.C.: G93063

REPORT No. B20-09745

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 21-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	20-W003	20-W004	20-W007	20-W013
Sample I.D.	B20-09745-1	B20-09745-2	B20-09745-3	B20-09745-4
Date Collected	14-Apr-20	14-Apr-20	14-Apr-20	14-Apr-20

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	196	102	333	76
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	7.87	7.67	8.12	7.52
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	466	250	751	328
Chloride	mg/L	0.5	SM4110C	17-Apr-20/O	12.4	8.9	33.2	51.2
Nitrite (N)	mg/L	0.05	SM4110C	17-Apr-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	17-Apr-20/O	1.30	0.33	0.17	< 0.05
Sulphate	mg/L	1	SM4110C	17-Apr-20/O	18	7	10	5
BOD(5 day)	mg/L	3	SM 5210B	15-Apr-20/K	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	16-Apr-20/K	18	18	195	< 3
o-Phosphate (P)	mg/L	0.002	PE4500-S	16-Apr-20/K	0.094	0.111	0.047	0.044
Phosphorus-Total	mg/L	0.01	E3199A.1	15-Apr-20/K	0.11	0.16	0.17	0.05
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	15-Apr-20/K	0.7	1.0	0.9	0.5
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	0.06	0.06	0.04	0.03
Ammonia (N)-unionized	mg/L	0.01	CALC	16-Apr-20/K	< 0.01	< 0.01	< 0.01	< 0.01
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	241	128	392	168
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	17-Apr-20/O	6.3	9.8	7.2	8.8
Phenolics	mg/L	0.001	MOEE 3179	15-Apr-20/K	0.001	< 0.001	< 0.001	< 0.001
COD	mg/L	5	SM 5220D	17-Apr-20/O	10	7	< 5	< 5
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Apr-20/O	227	120	380	96
Aluminum	mg/L	0.01	SM 3120	17-Apr-20/O	0.04	0.10	0.07	0.02
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0002	0.0004	0.0003	0.0002
Barium	mg/L	0.001	SM 3120	17-Apr-20/O	0.090	0.072	0.120	0.042
Boron	mg/L	0.005	SM 3120	17-Apr-20/O	0.205	0.061	0.451	0.098
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	0.000032	0.000046	0.000042	< 0.000015
Calcium	mg/L	0.02	SM 3120	17-Apr-20/O	61.0	36.1	97.8	31.9
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	0.002	0.002	0.002	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0006	0.0007	0.0010	0.0001



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Michelle Dubien
 Lab Manager

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REPORT No. B20-09745

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Attention: Mallory Wright

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285 Dalton Ave
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 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 21-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W003	20-W004	20-W007	20-W013
					Sample I.D.	20-W003	20-W004	20-W007	20-W013
					Date Collected	14-Apr-20	14-Apr-20	14-Apr-20	14-Apr-20
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	B20-09745-1	0.0034	0.0042	0.0022	0.0004
Iron	mg/L	0.005	SM 3120	17-Apr-20/O	B20-09745-2	1.88	1.97	2.32	0.389
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	B20-09745-3	0.00062	0.00086	0.00111	0.00007
Magnesium	mg/L	0.02	SM 3120	17-Apr-20/O	B20-09745-4	23.7	13.3	37.5	9.47
Manganese	mg/L	0.001	SM 3120	17-Apr-20/O		0.041	0.041	0.283	0.030
Mercury	mg/L	0.00002	SM 3112 B	17-Apr-20/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Nickel	mg/L	0.01	SM 3120	17-Apr-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	17-Apr-20/O		1.9	3.1	3.8	1.6
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Silicon	mg/L	0.01	SM 3120	17-Apr-20/O		7.01	6.45	6.73	1.03
Sodium	mg/L	0.2	SM 3120	17-Apr-20/O		15.6	7.8	30.9	32.3
Strontium	mg/L	0.001	SM 3120	17-Apr-20/O		0.323	0.177	0.434	0.184
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O		0.00373	0.00166	0.00376	0.00016
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O		0.0037	0.0038	0.0030	0.0003
Zinc	mg/L	0.005	SM 3120	17-Apr-20/O		0.019	0.017	0.020	0.014



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Michelle Dubien
 Lab Manager

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 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 21-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	20-W014		
Sample I.D.	B20-09745-5		
Date Collected	14-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	91		
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	7.86		
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	222		
Chloride	mg/L	0.5	SM4110C	17-Apr-20/O	8.0		
Nitrite (N)	mg/L	0.05	SM4110C	17-Apr-20/O	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	17-Apr-20/O	0.21		
Sulphate	mg/L	1	SM4110C	17-Apr-20/O	6		
BOD(5 day)	mg/L	3	SM 5210B	15-Apr-20/K	< 3		
Total Suspended Solids	mg/L	3	SM2540D	16-Apr-20/K	22		
o-Phosphate (P)	mg/L	0.002	PE4500-S	16-Apr-20/K	0.118		
Phosphorus-Total	mg/L	0.01	E3199A.1	15-Apr-20/K	0.18		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	15-Apr-20/K	1.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	0.06		
Ammonia (N)-unionized	mg/L	0.01	CALC	16-Apr-20/K	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	113		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	17-Apr-20/O	10.0		
Phenolics	mg/L	0.001	MOEE 3179	15-Apr-20/K	< 0.001		
COD	mg/L	5	SM 5220D	17-Apr-20/O	12		
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Apr-20/O	109		
Aluminum	mg/L	0.01	SM 3120	17-Apr-20/O	0.08		
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0003		
Barium	mg/L	0.001	SM 3120	17-Apr-20/O	0.069		
Boron	mg/L	0.005	SM 3120	17-Apr-20/O	0.092		
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	0.000044		
Calcium	mg/L	0.02	SM 3120	17-Apr-20/O	33.5		
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	0.002		
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0006		



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G93063

REPORT No. B20-09745

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 14-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 21-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	20-W014		
Sample I.D.	B20-09745-5		
Date Collected	14-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0039		
Iron	mg/L	0.005	SM 3120	17-Apr-20/O	1.80		
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	0.00081		
Magnesium	mg/L	0.02	SM 3120	17-Apr-20/O	11.8		
Manganese	mg/L	0.001	SM 3120	17-Apr-20/O	0.046		
Mercury	mg/L	0.00002	SM 3112 B	17-Apr-20/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	17-Apr-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	17-Apr-20/O	3.7		
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001		
Silicon	mg/L	0.01	SM 3120	17-Apr-20/O	5.75		
Sodium	mg/L	0.2	SM 3120	17-Apr-20/O	7.2		
Strontium	mg/L	0.001	SM 3120	17-Apr-20/O	0.166		
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00146		
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0034		
Zinc	mg/L	0.005	SM 3120	17-Apr-20/O	0.020		



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G93076

REPORT No. B20-09823

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 15-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 23-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.		20-W015	20-W016	20-W017	20-W018
			Reference Method	Date/Site Analyzed	B20-09823-1	B20-09823-2	B20-09823-3	B20-09823-4
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	194	217	256	271
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	8.18	7.92	7.96	7.88
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	433	565	602	638
Chloride	mg/L	0.5	SM4110C	20-Apr-20/O	3.0	12.8	10.1	19.4
Nitrite (N)	mg/L	0.05	SM4110C	20-Apr-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	20-Apr-20/O	< 0.05	< 0.05	1.03	< 0.05
Sulphate	mg/L	1	SM4110C	20-Apr-20/O	27	51	41	28
BOD(5 day)	mg/L	3	SM 5210B	16-Apr-20/K	9	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	15-Apr-20/K	87000	1420	54000	32800
Phosphorus-Total	mg/L	0.01	E3199A.1	16-Apr-20/K	80.4	2.22	37.9	8.44
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	16-Apr-20/K	8.6	1.4	3.7	1.3
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	0.14	0.05	0.05	0.09
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	224	293	312	331
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	17-Apr-20/O	2.3	2.0	2.3	3.3
Phenolics	mg/L	0.002	MOEE 3179	16-Apr-20/K	< 0.002	0.002	< 0.002	< 0.002
COD	mg/L	5	SM 5220D	17-Apr-20/O	290	86	540	116
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Apr-20/O	239	301	335	340
Aluminum	mg/L	0.01	SM 3120	17-Apr-20/O	0.31	0.08	0.05	0.06
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0049	0.0005	0.0014	0.0013
Barium	mg/L	0.001	SM 3120	17-Apr-20/O	0.246	0.124	0.148	0.111
Beryllium	mg/L	0.002	SM 3120	17-Apr-20/O	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	17-Apr-20/O	0.068	0.177	0.112	0.141
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	< 0.000015	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	17-Apr-20/O	66.5	91.3	92.6	97.1
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0002	0.0005	0.0006	0.0008
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0014	0.0007	0.0004	0.0004



R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G93076

REPORT No. B20-09823

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 15-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 23-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W015	20-W016	20-W017	20-W018
					Sample I.D.	20-W015	20-W016	20-W017	20-W018
Iron	mg/L	0.005	SM 3120	17-Apr-20/O	B20-09823-1	0.423	0.150	< 0.005	0.198
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	B20-09823-2	0.00031	0.00010	0.00003	0.00009
Magnesium	mg/L	0.02	SM 3120	17-Apr-20/O	B20-09823-3	17.6	17.6	25.3	23.6
Manganese	mg/L	0.001	SM 3120	17-Apr-20/O	B20-09823-4	0.048	0.189	0.106	0.156
Mercury	mg/L	0.00002	SM 3112 B	21-Apr-20/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	17-Apr-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	17-Apr-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	17-Apr-20/O		2.0	3.1	2.1	3.1
Silicon	mg/L	0.01	SM 3120	17-Apr-20/O		10.1	6.93	7.56	6.24
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	17-Apr-20/O		6.2	11.8	10.2	10.7
Strontium	mg/L	0.001	SM 3120	17-Apr-20/O		0.614	1.78	1.09	1.62
Thallium	mg/L	0.00005	EPA 200.8	17-Apr-20/O		< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	17-Apr-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	17-Apr-20/O		0.022	< 0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	17-Apr-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O		0.00030	0.0210	0.0348	0.0148
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O		0.0009	0.0017	0.0011	0.0006
Zinc	mg/L	0.005	SM 3120	17-Apr-20/O		< 0.005	0.005	< 0.005	< 0.005



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 15-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 23-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W019	20-W020		
Sample I.D.	B20-09823-5	B20-09823-6		
Date Collected	15-Apr-20	15-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	313	281		
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	7.93	7.93		
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	707	555		
Chloride	mg/L	0.5	SM4110C	20-Apr-20/O	22.4	0.6		
Nitrite (N)	mg/L	0.05	SM4110C	20-Apr-20/O	< 0.05	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	20-Apr-20/O	0.50	0.34		
Sulphate	mg/L	1	SM4110C	20-Apr-20/O	16	4		
BOD(5 day)	mg/L	3	SM 5210B	16-Apr-20/K	< 3	< 3		
Total Suspended Solids	mg/L	3	SM2540D	15-Apr-20/K	4	168		
Phosphorus-Total	mg/L	0.01	E3199A.1	16-Apr-20/K	0.09	0.16		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	16-Apr-20/K	0.2	0.3		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	< 0.01	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	367	288		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	17-Apr-20/O	2.9	2.9		
Phenolics	mg/L	0.002	MOEE 3179	16-Apr-20/K	< 0.002	< 0.002		
COD	mg/L	5	SM 5220D	17-Apr-20/O	< 5	< 5		
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Apr-20/O	392	284		
Aluminum	mg/L	0.01	SM 3120	17-Apr-20/O	0.05	0.04		
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001	0.0001		
Barium	mg/L	0.001	SM 3120	17-Apr-20/O	0.162	0.046		
Beryllium	mg/L	0.002	SM 3120	17-Apr-20/O	< 0.002	< 0.002		
Boron	mg/L	0.005	SM 3120	17-Apr-20/O	0.020	0.007		
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	< 0.00015	< 0.00015		
Calcium	mg/L	0.02	SM 3120	17-Apr-20/O	91.6	67.8		
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	0.007	< 0.001		
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0001	0.0001		
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0014	0.0009		



R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G93076

REPORT No. B20-09823

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 15-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 23-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W019	20-W020		
Sample I.D.	B20-09823-5	B20-09823-6		
Date Collected	15-Apr-20	15-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Iron	mg/L	0.005	SM 3120	17-Apr-20/O	< 0.005	0.008		
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	0.00002	< 0.00002		
Magnesium	mg/L	0.02	SM 3120	17-Apr-20/O	39.6	27.8		
Manganese	mg/L	0.001	SM 3120	17-Apr-20/O	< 0.001	0.001		
Mercury	mg/L	0.00002	SM 3112 B	21-Apr-20/O	< 0.00002	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	17-Apr-20/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	17-Apr-20/O	< 0.01	< 0.01		
Potassium	mg/L	0.1	SM 3120	17-Apr-20/O	2.3	0.4		
Silicon	mg/L	0.01	SM 3120	17-Apr-20/O	8.82	7.46		
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001	< 0.0001		
Sodium	mg/L	0.2	SM 3120	17-Apr-20/O	14.4	18.4		
Strontium	mg/L	0.001	SM 3120	17-Apr-20/O	0.373	0.213		
Thallium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	< 0.00005	< 0.00005		
Tin	mg/L	0.05	SM 3120	17-Apr-20/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	17-Apr-20/O	< 0.005	< 0.005		
Tungsten	mg/L	0.01	SM 3120	17-Apr-20/O	< 0.01	< 0.01		
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00447	0.00113		
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0003	0.0007		
Zinc	mg/L	0.005	SM 3120	17-Apr-20/O	< 0.005	< 0.005		



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G93074

REPORT No. B20-09824

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 15-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 23-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	20-W021		
Sample I.D.	B20-09824-1		
Date Collected	15-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	16-Apr-20/O	61		
pH @25°C	pH Units		SM 4500H	16-Apr-20/O	7.48		
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Apr-20/O	241		
Chloride	mg/L	0.5	SM4110C	18-Apr-20/O	33.2		
Nitrite (N)	mg/L	0.05	SM4110C	18-Apr-20/O	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	18-Apr-20/O	0.05		
Sulphate	mg/L	1	SM4110C	18-Apr-20/O	3		
BOD(5 day)	mg/L	3	SM 5210B	16-Apr-20/K	< 3		
Total Suspended Solids	mg/L	3	SM2540D	17-Apr-20/K	16		
o-Phosphate (P)	mg/L	0.002	PE4500-S	16-Apr-20/K	0.034		
Phosphorus-Total	mg/L	0.01	E3199A.1	16-Apr-20/K	0.09		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	16-Apr-20/K	0.6		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Apr-20/K	0.02		
Ammonia (N)-unionized	mg/L	0.01	CALC	16-Apr-20/K	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	19-Apr-20/O	123		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	17-Apr-20/O	7.6		
Phenolics	mg/L	0.001	MOEE 3179	16-Apr-20/K	< 0.001		
COD	mg/L	5	SM 5220D	17-Apr-20/O	15		
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Apr-20/O	77		
Aluminum	mg/L	0.01	SM 3120	17-Apr-20/O	0.06		
Arsenic	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0002		
Barium	mg/L	0.001	SM 3120	17-Apr-20/O	0.043		
Boron	mg/L	0.005	SM 3120	17-Apr-20/O	0.083		
Cadmium	mg/L	0.00015	EPA 200.8	17-Apr-20/O	0.000017		
Calcium	mg/L	0.02	SM 3120	17-Apr-20/O	24.8		
Chromium	mg/L	0.001	EPA 200.8	17-Apr-20/O	0.001		
Cobalt	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0003		



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G93074

REPORT No. B20-09824

Report To:

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 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
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 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 15-Apr-20

JOB/PROJECT NO.: Escott

DATE REPORTED: 23-Apr-20

P.O. NUMBER: 1038

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	20-W021		
Sample I.D.	B20-09824-1		
Date Collected	15-Apr-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Copper	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0016		
Iron	mg/L	0.005	SM 3120	17-Apr-20/O	1.03		
Lead	mg/L	0.00002	EPA 200.8	17-Apr-20/O	0.00052		
Magnesium	mg/L	0.02	SM 3120	17-Apr-20/O	7.94		
Manganese	mg/L	0.001	SM 3120	17-Apr-20/O	0.036		
Mercury	mg/L	0.00002	SM 3112 B	20-Apr-20/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	17-Apr-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	17-Apr-20/O	1.3		
Silicon	mg/L	0.01	SM 3120	17-Apr-20/O	3.14		
Silver	mg/L	0.0001	EPA 200.8	17-Apr-20/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	17-Apr-20/O	21.1		
Strontium	mg/L	0.001	SM 3120	17-Apr-20/O	0.142		
Uranium	mg/L	0.00005	EPA 200.8	17-Apr-20/O	0.00032		
Vanadium	mg/L	0.0001	EPA 200.8	17-Apr-20/O	0.0014		
Zinc	mg/L	0.005	SM 3120	17-Apr-20/O	0.017		



Michelle Dubien
 Lab Manager

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G92668

REPORT No. B20-32921

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20

JOB/PROJECT NO.: 1038-Escott

DATE REPORTED: 06-Nov-20

P.O. NUMBER:

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W041	20-W024	20-W025	20-W026
					Sample I.D.	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	23-Oct-20/O	B20-32921-1	161	388	347	269
pH @25°C	pH Units		SM 4500H	23-Oct-20/O	B20-32921-2	8.08	7.91	7.83	7.96
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Oct-20/O	B20-32921-3	351	842	809	622
Chloride	mg/L	0.5	SM4110C	23-Oct-20/O	20-Oct-20	4.1	30.5	28.7	18.1
Nitrite (N)	mg/L	0.05	SM4110C	23-Oct-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	23-Oct-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	1	SM4110C	23-Oct-20/O		12	36	35	28
BOD(5 day)	mg/L	3	SM 5210B	22-Oct-20/K		< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	21-Oct-20/K		6	2150	11	6700
Phosphorus-Total	mg/L	0.01	E3199A.1	30-Oct-20/K		0.03	3.16	0.03	6.59
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	30-Oct-20/K		0.2	1.5	1.2	0.7
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	29-Oct-20/K		0.06	0.96	0.97	0.13
Total Dissolved Solids	mg/L	3	SM 2540D	26-Oct-20/O		181	444	425	323
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	23-Oct-20/O		4.1	4.7	4.2	3.3
Phenolics	mg/L	0.002	MOEE 3179	27-Oct-20/K		< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM5220C	23-Oct-20/K		< 5	82	9	99
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Oct-20/O		177	433	410	321
Aluminum	mg/L	0.01	SM 3120	26-Oct-20/O		0.02	0.10	0.05	0.05
Arsenic	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0003	0.0007	0.0005	0.0005
Barium	mg/L	0.001	SM 3120	26-Oct-20/O		0.061	0.165	0.142	0.068
Beryllium	mg/L	0.002	SM 3120	26-Oct-20/O		< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	26-Oct-20/O		0.070	0.268	0.250	0.160
Cadmium	mg/L	0.00015	EPA 200.8	29-Oct-20/O		< 0.000015	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	26-Oct-20/O		53.8	109	103	90.5
Chromium	mg/L	0.001	EPA 200.8	29-Oct-20/O		< 0.001	< 0.001	< 0.001	< 0.001
Cobalt	mg/L	0.0001	EPA 200.8	29-Oct-20/O		< 0.0001	0.0010	0.0009	0.0003
Copper	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0003	0.0014	0.0006	0.0012



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Michelle Dubien
 Lab Manager

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C.O.C.: G92668

REPORT No. B20-32921

Report To:

Malroz Engineering Inc.
308 Wellington Street, 2nd Floor
Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20
DATE REPORTED: 06-Nov-20
SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: 1038-Escott
P.O. NUMBER:
WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W041	20-W024	20-W025	20-W026
					Sample I.D.	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
Iron	mg/L	0.005	SM 3120	26-Oct-20/O	B20-32921-1	0.062	0.894	0.473	0.329
Lead	mg/L	0.00002	EPA 200.8	29-Oct-20/O	B20-32921-2	< 0.00002	0.00013	0.00015	0.00005
Magnesium	mg/L	0.02	SM 3120	26-Oct-20/O	B20-32921-3	10.4	39.0	37.2	22.9
Manganese	mg/L	0.001	SM 3120	26-Oct-20/O	B20-32921-4	0.039	0.369	0.376	0.137
Mercury	mg/L	0.00002	SM 3112 B	26-Oct-20/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	26-Oct-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	26-Oct-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	26-Oct-20/O		2.7	4.5	4.3	3.2
Silicon	mg/L	0.01	SM 3120	26-Oct-20/O		5.77	8.20	7.91	6.40
Silver	mg/L	0.0001	EPA 200.8	29-Oct-20/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	26-Oct-20/O		5.8	19.7	18.7	10.5
Strontium	mg/L	0.001	SM 3120	26-Oct-20/O		1.10	1.58	1.49	1.63
Thallium	mg/L	0.00005	EPA 200.8	29-Oct-20/O		< 0.00005	< 0.00005	0.00009	< 0.00005
Tin	mg/L	0.05	SM 3120	26-Oct-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	26-Oct-20/O		< 0.005	0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	26-Oct-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	29-Oct-20/O		0.00443	0.00942	0.00881	0.0140
Vanadium	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0002	0.0005	0.0003	0.0002
Zinc	mg/L	0.005	SM 3120	26-Oct-20/O		< 0.005	< 0.005	< 0.005	< 0.005



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Michelle Dubien
Lab Manager

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Kingston Ontario K7K 6Z1
Tel: 613-544-2001
Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20

JOB/PROJECT NO.: 1038-Escott

DATE REPORTED: 06-Nov-20

P.O. NUMBER:

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W027	20-W028	20-W030	20-W032
					Sample I.D.	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	23-Oct-20/O	B20-32921-5	264	386	198	347
pH @25°C	pH Units		SM 4500H	23-Oct-20/O	B20-32921-6	8.02	8.01	8.06	8.16
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Oct-20/O	B20-32921-7	674	901	441	672
Chloride	mg/L	0.5	SM4110C	23-Oct-20/O	B20-32921-8	15.0	33.0	3.1	2.5
Nitrite (N)	mg/L	0.05	SM4110C	23-Oct-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	23-Oct-20/O		0.16	< 0.05	< 0.05	0.59
Sulphate	mg/L	1	SM4110C	23-Oct-20/O		68	50	28	12
BOD(5 day)	mg/L	3	SM 5210B	22-Oct-20/K		< 3	< 3	4	< 3
Total Suspended Solids	mg/L	3	SM2540D	21-Oct-20/K		24100	300	53100	1340
Phosphorus-Total	mg/L	0.01	E3199A.1	30-Oct-20/K		27.5	0.17	135	1.04
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	30-Oct-20/K		1.6	0.3	9.4	0.4
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	29-Oct-20/K		0.08	0.09	0.10	0.03
Total Dissolved Solids	mg/L	3	SM 2540D	26-Oct-20/O		350	477	228	349
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	23-Oct-20/O		2.7	4.2	2.0	2.2
Phenolics	mg/L	0.002	MOEE 3179	27-Oct-20/K		< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM5220C	23-Oct-20/K		217	12	1970	54
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Oct-20/O		347	474	228	368
Aluminum	mg/L	0.01	SM 3120	26-Oct-20/O		0.05	0.06	0.03	0.09
Arsenic	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0006	0.0005	0.0030	0.0006
Barium	mg/L	0.001	SM 3120	26-Oct-20/O		0.173	0.204	0.291	0.153
Beryllium	mg/L	0.002	SM 3120	26-Oct-20/O		< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	26-Oct-20/O		0.194	0.313	0.076	0.070
Cadmium	mg/L	0.00015	EPA 200.8	29-Oct-20/O		< 0.000015	< 0.000015	< 0.000015	< 0.000015
Calcium	mg/L	0.02	SM 3120	26-Oct-20/O		98.7	135	62.6	48.2
Chromium	mg/L	0.001	EPA 200.8	29-Oct-20/O		< 0.001	< 0.001	< 0.001	0.001
Cobalt	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0004	0.0004	< 0.0001	0.0001
Copper	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0025	0.0002	0.0037	0.0006



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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C.O.C.: G92668

REPORT No. B20-32921

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20
 DATE REPORTED: 06-Nov-20
 SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: 1038-Escott
 P.O. NUMBER:
 WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W027	20-W028	20-W030	20-W032
					Sample I.D.	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
Iron	mg/L	0.005	SM 3120	26-Oct-20/O	B20-32921-5	< 0.005	0.308	0.028	0.128
Lead	mg/L	0.00002	EPA 200.8	29-Oct-20/O	B20-32921-6	0.00004	0.00003	0.00010	0.00008
Magnesium	mg/L	0.02	SM 3120	26-Oct-20/O	B20-32921-7	24.3	33.5	17.4	60.3
Manganese	mg/L	0.001	SM 3120	26-Oct-20/O	B20-32921-8	0.134	0.330	0.020	0.007
Mercury	mg/L	0.00002	SM 3112 B	26-Oct-20/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	26-Oct-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	26-Oct-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	26-Oct-20/O		2.7	3.9	2.0	3.0
Silicon	mg/L	0.01	SM 3120	26-Oct-20/O		8.49	8.87	11.3	8.06
Silver	mg/L	0.0001	EPA 200.8	29-Oct-20/O		< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	26-Oct-20/O		11.6	18.2	6.0	21.4
Strontium	mg/L	0.001	SM 3120	26-Oct-20/O		1.63	3.83	0.606	1.15
Thallium	mg/L	0.00005	EPA 200.8	29-Oct-20/O		< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	26-Oct-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	26-Oct-20/O		< 0.005	< 0.005	< 0.005	0.009
Tungsten	mg/L	0.01	SM 3120	26-Oct-20/O		< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	29-Oct-20/O		0.0260	0.0261	0.00035	0.00384
Vanadium	mg/L	0.0001	EPA 200.8	29-Oct-20/O		0.0007	0.0006	0.0008	0.0025
Zinc	mg/L	0.005	SM 3120	26-Oct-20/O		< 0.005	< 0.005	< 0.005	< 0.005



Michelle Dubien
 Lab Manager

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DATE RECEIVED: 20-Oct-20

JOB/PROJECT NO.: 1038-Escott

DATE REPORTED: 06-Nov-20

P.O. NUMBER:

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W033	20-W034	20-W035	20-W036
					Sample I.D.	20-W033	20-W034	20-W035	20-W036
					B20-32921-9	B20-32921-10	B20-32921-11	B20-32921-12	B20-32921-12
					Date Collected	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	23-Oct-20/O	259	311	1030	1010	1010
pH @25°C	pH Units		SM 4500H	23-Oct-20/O	8.12	8.08	7.61	7.71	7.71
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Oct-20/O	462	722	2210	2040	2040
Chloride	mg/L	0.5	SM4110C	23-Oct-20/O	1.7	22.9	79.1	79.4	79.4
Nitrite (N)	mg/L	0.05	SM4110C	23-Oct-20/O	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (N)	mg/L	0.05	SM4110C	23-Oct-20/O	< 0.05	0.32	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	1	SM4110C	23-Oct-20/O	10	43	98	98	98
BOD(5 day)	mg/L	3	SM 5210B	22-Oct-20/K	< 3	< 3	< 3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	21-Oct-20/K	348	14500	10	10600	10600
Phosphorus-Total	mg/L	0.01	E3199A.1	30-Oct-20/K	0.32	20.8	0.02	0.97	0.97
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	30-Oct-20/K	0.2	0.3	3.6	1.8	1.8
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	29-Oct-20/K	0.02	0.04	2.85	1.12	1.12
Total Dissolved Solids	mg/L	3	SM 2540D	26-Oct-20/O	239	376	1220	1130	1130
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	23-Oct-20/O	1.7	2.2	8.5	6.8	6.8
Phenolics	mg/L	0.002	MOEE 3179	27-Oct-20/K	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
COD	mg/L	5	SM5220C	23-Oct-20/K	27	163	42	63	63
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Oct-20/O	257	389	1200	1210	1210
Aluminum	mg/L	0.01	SM 3120	26-Oct-20/O	0.05	0.05	0.12	0.08	0.08
Arsenic	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0005	0.0006	0.0013	0.0017	0.0017
Barium	mg/L	0.001	SM 3120	26-Oct-20/O	0.093	0.136	0.404	0.593	0.593
Beryllium	mg/L	0.002	SM 3120	26-Oct-20/O	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron	mg/L	0.005	SM 3120	26-Oct-20/O	0.011	0.022	0.902	0.237	0.237
Cadmium	mg/L	0.000015	EPA 200.8	29-Oct-20/O	< 0.000015	< 0.000015	< 0.000029	< 0.000029	< 0.000029
Calcium	mg/L	0.02	SM 3120	26-Oct-20/O	60.0	88.6	276	174	174
Chromium	mg/L	0.001	EPA 200.8	29-Oct-20/O	< 0.001	< 0.001	< 0.001	0.001	0.001
Cobalt	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0001	< 0.0001	0.0131	0.0023	0.0023



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SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: 1038-Escott
P.O. NUMBER:
WATERWORKS NO.

Client I.D.	20-W033	20-W034	20-W035	20-W036
Sample I.D.	B20-32921-9	B20-32921-10	B20-32921-11	B20-32921-12
Date Collected	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Copper	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0006	0.0012	0.0014	0.0007
Iron	mg/L	0.005	SM 3120	26-Oct-20/O	0.061	0.028	3.36	3.50
Lead	mg/L	0.00002	EPA 200.8	29-Oct-20/O	0.00003	0.00004	< 0.00009	< 0.00009
Magnesium	mg/L	0.02	SM 3120	26-Oct-20/O	26.1	40.8	123	190
Manganese	mg/L	0.001	SM 3120	26-Oct-20/O	0.014	0.002	3.78	0.562
Mercury	mg/L	0.00002	SM 3112 B	26-Oct-20/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	26-Oct-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	26-Oct-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	26-Oct-20/O	1.7	1.7	6.1	5.2
Silicon	mg/L	0.01	SM 3120	26-Oct-20/O	11.2	11.3	13.1	15.6
Silver	mg/L	0.0001	EPA 200.8	29-Oct-20/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	26-Oct-20/O	6.1	10.1	86.7	53.5
Strontium	mg/L	0.001	SM 3120	26-Oct-20/O	0.162	0.367	1.52	1.18
Thallium	mg/L	0.00005	EPA 200.8	29-Oct-20/O	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	26-Oct-20/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	26-Oct-20/O	< 0.005	< 0.005	< 0.005	< 0.005
Tungsten	mg/L	0.01	SM 3120	26-Oct-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Uranium	mg/L	0.00005	EPA 200.8	29-Oct-20/O	0.00041	0.00069	0.0147	0.0178
Vanadium	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0009	0.0018	0.0004	0.0004
Zinc	mg/L	0.005	SM 3120	26-Oct-20/O	< 0.005	< 0.005	< 0.005	< 0.005



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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
Lab Manager

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C.O.C.: G92668

REPORT No. B20-32921

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20

JOB/PROJECT NO.: 1038-Escott

DATE REPORTED: 06-Nov-20

P.O. NUMBER:

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.	20-W037	20-W038		
Sample I.D.	B20-32921-13	B20-32921-14		
Date Collected	20-Oct-20	20-Oct-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	23-Oct-20/O	389	327		
pH @25°C	pH Units		SM 4500H	23-Oct-20/O	8.03	8.04		
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Oct-20/O	694	706		
Chloride	mg/L	0.5	SM4110C	23-Oct-20/O	3.2	21.0		
Nitrite (N)	mg/L	0.05	SM4110C	23-Oct-20/O	< 0.05	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	23-Oct-20/O	0.09	0.32		
Sulphate	mg/L	1	SM4110C	23-Oct-20/O	10	18		
BOD(5 day)	mg/L	3	SM 5210B	22-Oct-20/K	< 3	< 3		
Total Suspended Solids	mg/L	3	SM2540D	21-Oct-20/K	2380	4		
Phosphorus-Total	mg/L	0.01	E3199A.1	30-Oct-20/K	3.75	0.02		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	30-Oct-20/K	0.4	< 0.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	29-Oct-20/K	0.08	0.02		
Total Dissolved Solids	mg/L	3	SM 2540D	26-Oct-20/O	360	367		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	23-Oct-20/O	2.0	2.4		
Phenolics	mg/L	0.002	MOEE 3179	27-Oct-20/K	< 0.002	< 0.002		
COD	mg/L	5	SM5220C	23-Oct-20/K	84	< 5		
Hardness (as CaCO3)	mg/L	1	SM 3120	26-Oct-20/O	381	381		
Aluminum	mg/L	0.01	SM 3120	26-Oct-20/O	0.04	0.04		
Arsenic	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0010	0.0001		
Barium	mg/L	0.001	SM 3120	26-Oct-20/O	0.213	0.158		
Beryllium	mg/L	0.002	SM 3120	26-Oct-20/O	< 0.002	< 0.002		
Boron	mg/L	0.005	SM 3120	26-Oct-20/O	0.025	0.021		
Cadmium	mg/L	0.000015	EPA 200.8	29-Oct-20/O	< 0.000015	< 0.000015		
Calcium	mg/L	0.02	SM 3120	26-Oct-20/O	72.4	85.0		
Chromium	mg/L	0.001	EPA 200.8	29-Oct-20/O	< 0.001	< 0.001		
Cobalt	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0002	< 0.0001		



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Michelle Dubien
 Lab Manager

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REPORT No. B20-32921

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Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20
 DATE REPORTED: 06-Nov-20
 SAMPLE MATRIX: Groundwater

JOB/PROJECT NO.: 1038-Escott
 P.O. NUMBER:
 WATERWORKS NO.

Client I.D.	20-W037	20-W038		
Sample I.D.	B20-32921-13	B20-32921-14		
Date Collected	20-Oct-20	20-Oct-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Copper	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0037	0.0026		
Iron	mg/L	0.005	SM 3120	26-Oct-20/O	0.024	< 0.005		
Lead	mg/L	0.00002	EPA 200.8	29-Oct-20/O	0.00011	0.00002		
Magnesium	mg/L	0.02	SM 3120	26-Oct-20/O	48.6	41.0		
Manganese	mg/L	0.001	SM 3120	26-Oct-20/O	0.032	< 0.001		
Mercury	mg/L	0.00002	SM 3112 B	26-Oct-20/O	< 0.00002	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	26-Oct-20/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	26-Oct-20/O	0.02	< 0.01		
Potassium	mg/L	0.1	SM 3120	26-Oct-20/O	2.6	2.3		
Silicon	mg/L	0.01	SM 3120	26-Oct-20/O	11.3	9.07		
Silver	mg/L	0.0001	EPA 200.8	29-Oct-20/O	< 0.0001	< 0.0001		
Sodium	mg/L	0.2	SM 3120	26-Oct-20/O	18.0	13.9		
Strontium	mg/L	0.001	SM 3120	26-Oct-20/O	0.560	0.400		
Thallium	mg/L	0.00005	EPA 200.8	29-Oct-20/O	< 0.00005	< 0.00005		
Tin	mg/L	0.05	SM 3120	26-Oct-20/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	26-Oct-20/O	< 0.005	< 0.005		
Tungsten	mg/L	0.01	SM 3120	26-Oct-20/O	< 0.01	< 0.01		
Uranium	mg/L	0.00005	EPA 200.8	29-Oct-20/O	0.00149	0.00431		
Vanadium	mg/L	0.0001	EPA 200.8	29-Oct-20/O	0.0013	0.0004		
Zinc	mg/L	0.005	SM 3120	26-Oct-20/O	< 0.005	< 0.005		



Michelle Dubien
 Lab Manager

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REPORT No. B20-32900

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 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada

Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20

JOB/PROJECT NO.: 1038-Escott

DATE REPORTED: 30-Oct-20

P.O. NUMBER:

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	20-W029	20-W031	20-W039	20-W023
					Sample I.D.	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	22-Oct-20/O	B20-32900-1	95	93	127	92
pH @25°C	pH Units		SM 4500H	22-Oct-20/O	B20-32900-2	7.74	7.63	7.83	7.88
Conductivity @25°C	µmho/cm	1	SM 2510B	22-Oct-20/O	B20-32900-3	278	315	652	453
Chloride	mg/L	0.5	SM4110C	23-Oct-20/O	20-Oct-20	3.0	2.2	121	21.0
Nitrate (N)	mg/L	0.05	SM4110C	23-Oct-20/O		6.75	11.5	< 0.05	7.11
Nitrite (N)	mg/L	0.05	SM4110C	23-Oct-20/O		< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	1	SM4110C	23-Oct-20/O		8	13	6	68
BOD(5 day)	mg/L	3	SM 5210B	22-Oct-20/K		4	3	< 3	< 3
Total Suspended Solids	mg/L	3	SM2540D	21-Oct-20/K		32	8	5	52
o-Phosphate (P)	mg/L	0.002	PE4500-S	23-Oct-20/K		0.181	0.127	0.014	0.255
Phosphorus-Total	mg/L	0.01	E3199A.1	29-Oct-20/K		0.24	0.16	0.09	0.35
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	29-Oct-20/K		1.8	1.5	1.1	1.7
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	23-Oct-20/K		0.08	0.06	0.02	0.04
Ammonia (N)-unionized	mg/L	0.01	CALC	23-Oct-20/K		< 0.01	< 0.01	< 0.01	< 0.01
Total Dissolved Solids	mg/L	3	SM 2540D	23-Oct-20/O		142	162	339	234
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	23-Oct-20/O		9.7	7.1	6.6	14.3
Phenolics	mg/L	0.001	MOEE 3179	23-Oct-20/K		< 0.001	< 0.001	< 0.001	< 0.001
COD	mg/L	5	SM5220C	23-Oct-20/K		65	40	38	40
Hardness (as CaCO3)	mg/L	1	SM 3120	23-Oct-20/O		142	157	151	202
Aluminum	mg/L	0.01	SM 3120	23-Oct-20/O		0.66	0.02	< 0.01	0.03
Arsenic	mg/L	0.0001	EPA 200.8	26-Oct-20/O		0.0005	0.0004	0.0004	0.0009
Barium	mg/L	0.001	SM 3120	23-Oct-20/O		0.084	0.072	0.051	0.087
Boron	mg/L	0.005	SM 3120	23-Oct-20/O		0.032	0.018	0.008	0.013
Cadmium	mg/L	0.00015	EPA 200.8	26-Oct-20/O		0.000043	0.000051	0.000017	0.000043
Calcium	mg/L	0.02	SM 3120	23-Oct-20/O		35.0	37.6	43.6	50.7
Chromium	mg/L	0.001	EPA 200.8	26-Oct-20/O		0.005	0.004	0.001	0.003
Cobalt	mg/L	0.0001	EPA 200.8	26-Oct-20/O		0.0013	0.0009	0.0002	0.0009



R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien
 Lab Manager

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C.O.C.: G92669

REPORT No. B20-32900

Report To:

Malroz Engineering Inc.
 308 Wellington Street, 2nd Floor
 Kingston ON K7K 7A8 Canada
Attention: Mallory Wright

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20
 DATE REPORTED: 30-Oct-20
 SAMPLE MATRIX: Surface Water

JOB/PROJECT NO.: 1038-Escott
 P.O. NUMBER:
 WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.			
					20-W029	20-W031	20-W039	20-W023
					20-W029	20-W031	20-W039	20-W023
					B20-32900-1	B20-32900-2	B20-32900-3	B20-32900-4
					Date Collected	20-Oct-20	20-Oct-20	20-Oct-20
Copper	mg/L	0.0001	EPA 200.8	26-Oct-20/O	0.0058	0.0049	0.0011	0.0092
Iron	mg/L	0.005	SM 3120	23-Oct-20/O	3.61	3.01	0.838	1.83
Lead	mg/L	0.00002	EPA 200.8	26-Oct-20/O	0.00118	0.00107	0.00049	0.00080
Magnesium	mg/L	0.02	SM 3120	23-Oct-20/O	15.2	16.3	11.3	18.8
Manganese	mg/L	0.001	SM 3120	23-Oct-20/O	0.035	0.061	0.073	0.029
Mercury	mg/L	0.00002	SM 3112 B	23-Oct-20/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Nickel	mg/L	0.01	SM 3120	23-Oct-20/O	< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	23-Oct-20/O	2.4	1.0	1.6	8.9
Silicon	mg/L	0.01	SM 3120	23-Oct-20/O	12.0	10.7	1.29	9.62
Silver	mg/L	0.0001	EPA 200.8	26-Oct-20/O	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.2	SM 3120	23-Oct-20/O	4.6	5.3	77.5	10.5
Strontium	mg/L	0.001	SM 3120	23-Oct-20/O	0.220	0.198	0.244	0.194
Uranium	mg/L	0.00005	EPA 200.8	28-Oct-20/O	0.00071	0.00120	0.00077	0.00209
Vanadium	mg/L	0.0001	EPA 200.8	26-Oct-20/O	0.0069	0.0050	0.0008	0.0061
Zinc	mg/L	0.005	SM 3120	23-Oct-20/O	0.019	0.013	0.008	0.009



Michelle Dubien
 Lab Manager

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285 Dalton Ave
 Kingston Ontario K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20

JOB/PROJECT NO.: 1038-Escott

DATE REPORTED: 30-Oct-20

P.O. NUMBER:

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.	20-W040		
Sample I.D.	B20-32900-5		
Date Collected	20-Oct-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	22-Oct-20/O	15		
pH @25°C	pH Units		SM 4500H	22-Oct-20/O	6.90		
Conductivity @25°C	µmho/cm	1	SM 2510B	22-Oct-20/O	127		
Chloride	mg/L	0.5	SM4110C	23-Oct-20/O	8.0		
Nitrate (N)	mg/L	0.05	SM4110C	23-Oct-20/O	< 0.05		
Nitrite (N)	mg/L	0.05	SM4110C	23-Oct-20/O	< 0.05		
Sulphate	mg/L	1	SM4110C	23-Oct-20/O	26		
BOD(5 day)	mg/L	3	SM 5210B	22-Oct-20/K	< 3		
Total Suspended Solids	mg/L	3	SM2540D	21-Oct-20/K	80		
o-Phosphate (P)	mg/L	0.002	PE4500-S	23-Oct-20/K	0.080		
Phosphorus-Total	mg/L	0.01	E3199A.1	29-Oct-20/K	0.40		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	29-Oct-20/K	1.5		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	23-Oct-20/K	0.04		
Ammonia (N)-unionized	mg/L	0.01	CALC	23-Oct-20/K	< 0.01		
Total Dissolved Solids	mg/L	3	SM 2540D	23-Oct-20/O	64		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.2	23-Oct-20/O	10.6		
Phenolics	mg/L	0.001	MOEE 3179	23-Oct-20/K	< 0.001		
COD	mg/L	5	SM5220C	23-Oct-20/K	45		
Hardness (as CaCO3)	mg/L	1	SM 3120	23-Oct-20/O	45		
Aluminum	mg/L	0.01	SM 3120	23-Oct-20/O	0.02		
Arsenic	mg/L	0.0001	EPA 200.8	26-Oct-20/O	0.0004		
Barium	mg/L	0.001	SM 3120	23-Oct-20/O	0.044		
Boron	mg/L	0.005	SM 3120	23-Oct-20/O	0.013		
Cadmium	mg/L	0.00015	EPA 200.8	26-Oct-20/O	0.000077		
Calcium	mg/L	0.02	SM 3120	23-Oct-20/O	12.4		
Chromium	mg/L	0.001	EPA 200.8	26-Oct-20/O	0.003		
Cobalt	mg/L	0.0001	EPA 200.8	26-Oct-20/O	0.0009		



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Michelle Dubien
 Lab Manager

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 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 20-Oct-20
 DATE REPORTED: 30-Oct-20
 SAMPLE MATRIX: Surface Water

JOB/PROJECT NO.: 1038-Escott
 P.O. NUMBER:
 WATERWORKS NO.

Client I.D.	20-W040		
Sample I.D.	B20-32900-5		
Date Collected	20-Oct-20		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Copper	mg/L	0.0001	EPA 200.8	26-Oct-20/O	0.0036		
Iron	mg/L	0.005	SM 3120	23-Oct-20/O	2.71		
Lead	mg/L	0.00002	EPA 200.8	26-Oct-20/O	0.00094		
Magnesium	mg/L	0.02	SM 3120	23-Oct-20/O	4.32		
Manganese	mg/L	0.001	SM 3120	23-Oct-20/O	0.130		
Mercury	mg/L	0.00002	SM 3112 B	23-Oct-20/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	23-Oct-20/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	23-Oct-20/O	1.2		
Silicon	mg/L	0.01	SM 3120	23-Oct-20/O	7.90		
Silver	mg/L	0.0001	EPA 200.8	26-Oct-20/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	23-Oct-20/O	6.5		
Strontium	mg/L	0.001	SM 3120	23-Oct-20/O	0.061		
Uranium	mg/L	0.00005	EPA 200.8	28-Oct-20/O	0.00031		
Vanadium	mg/L	0.0001	EPA 200.8	26-Oct-20/O	0.0027		
Zinc	mg/L	0.005	SM 3120	23-Oct-20/O	0.012		



Michelle Dubien
 Lab Manager

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Appendix J
Historical Analyses and Trends

Historical Bedrock Groundwater Chemistry

Location	PARAMETERS			Alkalinity	N - Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	
		UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		RL (2020)		5	0.01	3	5	0.2	1	1	6.5 - 8.5	0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.00002	0.01		0.001	0.001	0.002	0.005	0.00015	
		ODWS		30-500 ^{OG}			5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}				500 ^{AO}			250 ^{AO}	10.0 ^{CS}	1.0 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}		0.01 ^{CS}	1.0 ^{CS}		5.0 ^{CS}	0.005 ^{CS}	
RULs (2020)		426				3.7		232					452			135	2.7	0.400	260	0.00028	0.06		0.0028	0.36		1.27	0.0013		
Date	Type	Sample ID																											
2003-Sep-01			1010	5.03	5	-	13.4	1680	972	7.44	-	-	1220	-	6	72.6	nd	nd	136	-	nd	-	nd	0.522	-	0.857	nd		
2003-Sep-01	DUP		1010	4.98	3.2	-	13.7	1700	1010	7.27	-	-	1220	-	5.7	72.3	nd	nd	133	-	nd	-	nd	0.544	-	0.869	nd		
2004-Jun-01			684	4.04	4.1	-	6	1410	772	7.18	-	-	908	-	4.36	41.8	nd	-	142	-	nd	-	nd	0.38	-	0.498	nd		
2004-Oct-01			934	-	1.4	-	15.3	1830	1060	7.81	-	-	1220	-	6.92	67	nd	-	135	-	nd	-	nd	0.552	-	0.926	nd		
2004-Oct-01	DUP		979	-	12.5	-	15.3	1860	1080	7.67	-	-	1230	-	6.05	67.1	nd	-	133	-	nd	-	nd	0.558	-	0.935	nd		
2005-Jun-01			728	5.3	5	-	11	1490	791	8.04	-	-	1080	-	6	40.7	nd	-	142	-	nd	-	nd	0.384	-	0.42	nd		
2005-Oct-01			987	5.3	8	-	11	1700	897	7.96	-	-	1160	-	6	55	nd	-	102	-	nd	-	0.001	0.51	-	0.77	nd		
2006-Apr-01			763	4.64	4	-	6.5	1500	810	8.1	-	-	890	-	5.2	35	nd	-	117	-	nd	-	0.001	0.36	-	0.45	nd		
2006-Oct-01			998	-	5	-	11.8	1880	1000	7.9	-	-	1110	-	6	73	<0.1	-	81	-	0.017	-	0.001	0.47	-	0.71	<0.0001		
2007-May-01			684	-	3	-	62.1	1280	832	6.92	-	-	847	-	6	45.9	<0.1	-	115	-	0.12	-	0.0009	0.347	-	0.395	<0.00002		
2007-Oct-01			896	-	9	-	23.1	-	1030	6.85	-	-	1410	-	8	103	<0.1	-	73	-	<0.01	-	<0.03	0.485	-	0.757	<0.005		
2008-Jul-11			769	-	7	-	7.9	1630	862	6.84	-	-	897	-	6.2	59	<0.1	-	98	-	<0.01	-	0.003	0.364	-	0.44	<0.00002		
2008-Nov-01			908	-	4	-	9.6	1880	937	7.13	-	-	1030	-	7.4	76	<0.1	-	12	nd	<0.01	-	<0.03	0.319	-	0.667	<0.005		
2008-Nov-01	DUP		909	-	3	-	9.5	1900	936	7.18	-	-	1040	-	6.9	79	0.1	-	105	nd	<0.01	-	<0.03	0.322	-	0.663	<0.005		
2009-Apr-01			719	7.2	<2	-	7.4	1620	849	6.7	<0.001	-	891	10	6.1	69	<0.1	<0.1	131	-	<0.01	-	0.0023	0.247	-	0.413	<0.00002		
2009-Nov-19			856	7.55	<2	37	9.2	1930	968	6.67	<0.001	<0.01	1060	-	9	89	<0.1	-	121	-	<0.01	-	0.0028	0.419	-	0.551	<0.00002		
2009-Nov-19	DUP		880	7.6	<2	39	8.7	1940	959	6.63	<0.001	<0.01	1070	-	9	90	<0.1	-	123	-	<0.01	-	0.0033	0.417	-	0.547	<0.00002		
2010-Apr-14			822	5.48	<3	-	7.4	1840	963	6.83	<0.001	-	-	-	5.9	92.2	0.1	-	163	-	<0.01	-	0.0026	0.403	-	0.5	0.00005		
2010-Oct-21			964	8.4	3	-	8.8	2240	1160	7.24	<0.001	-	1230	-	8.5	135	<0.1	-	169	-	0.05	-	0.0027	0.577	-	0.867	<0.00002		
2011-Apr-01			787	5.6	2	39	9.2	1950	1040	7.65	<0.001	-	1070	18	5.2	110	<0.1	<0.1	174	-	0.07	-	0.0027	0.471	-	0.583	<0.00002		
2011-Nov-11			902	5.6	5	44	9.8	2210	1260	7.09	<0.001	-	1220	22	7.47	120	<0.1	<0.1	219	-	0.07	-	0.004	0.488	-	0.674	0.00004		
2012-Apr-18			708	4.13	4	5	6.6	1820	899	7.46	<0.001	0.04	999	16	4.8	95.4	<0.1	<0.1	188	-	-	-	0.002	0.326	-	0.387	0.00002		
2012-Oct-02			995	4.71	7	40	8.6	2180	1160	7.03	-	-	1200	18	5.9	12.8	<0.1	<0.1	130	<0.00002	0.07	-	0.0035	0.46	-	0.761	0.00006		
2013-Jul-23			902	4.09	<2.0	42	13.3	2020	1190	7.28	<0.0010	<0.030	1530	14.4	3.96	114	<0.50	<0.50	229	<0.00010	-	-	0.0024	0.519	-	0.495	<0.000090		
2013-Oct-23			1150	4.88	<2.0	78	17.1	2240	1170	7.04	-	-	1430	14.8	5.83	115	<0.10	<0.10	165	<0.00010	-	-	-	0.492	-	0.76	-		
2013-Oct-23			1060	4.97	<2.0	59	17	2240	1180	6.96	-	-	1430	10.4	5.43	115	<0.10	<0.10	165	<0.00010	-	-	-	0.513	-	0.7	-		
2014-Jun-25			680	3.81	<2.0	32	10	1830	997	7.14	0.0033	<0.030	1160	17.6	3.79	93.3	<0.10	<0.10	186	<0.00010	<0.010	-	0.0017	0.374	-	0.383	<0.000090		
2014-Oct-17			945	4.06	<2.0	50	16.2	1900	1090	7.16	<0.0010	<0.030	1290	19	5.2	102	<0.50	<0.50	173	<0.00010	<0.010	-	0.0015	0.432	-	0.601	<0.000090		
2015-May-07			876	3.55	2	10	10.6	2010	298	7.5	nd	nd	1210	4	4.4	102	nd	nd	209	nd	nd	-	0.001	0.39	-	0.557	nd		
2015-Nov-03			1040	3.87	6	47	12.2	2170	1380	7.3	0.004	0.01	1180	13	5.6	116	nd	nd	134	nd	nd	-	0.001	0.43	-	0.725	nd		
2016-Nov-09			983	4.66	<2	54	13.2	2200	1030	7.2	0.005	<0.01	1330	12	5.1	120	<0.1	<0.05	194	<0.0001	0.003	-	0.002	0.37	-	0.598	<0.0001		
2017-Aug-01			923	4.01	3	36	6.2	1880	1160	7.2	0.001	<0.01	1360	14	4.2	112	<0.1	<0.05	227	<0.0001	<0.001	<0.0005	0.002	0.375	<0.0005	0.502	<0.0001		
2017-Nov-13			983	3.55	3	37	9.8	2090	1010	7	<0.001	<0.01	1450	16	4.5	128	<0.1	<0.05	223	<0.0001	0.043	<0.0005	0.002	0.359	<0.0005	0.44	<0.0001		

Historical Bedrock Groundwater Chemistry

Location	PARAMETERS		Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field)[1]
	RL (2020)		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L
	ODWS			0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.010 ^{CS}		0.05 ^{AO}							200 ^{AO [a]}								0.02 ^{CS}	5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}		
Ruls (2020)			0.015		0.5	0.168			0.026							106								0.0083						
Date	Type	Sample ID																												
BW 1			234	nd	-	0.0122	0.5	0.0013	-	3.71	-	-	6.8	-	-	nd	53.9	-	-	-	-	-	-	-	-	-	-	-	0.011	
			244	nd	-	0.0127	0.49	nd	-	3.86	-	-	7	-	-	nd	56	-	-	-	-	-	-	-	-	-	-	-	0.01	
	DUP		180	nd	-	0.0048	0.66	0.001	-	2.82	-	-	6.1	-	-	nd	39.9	-	-	-	-	-	-	-	-	-	-	-	0.013	
			256	nd	-	0.008	1.66	nd	-	3.71	-	-	7.7	-	-	nd	58.2	-	-	-	-	-	-	-	-	-	-	-	nd	
	DUP		259	nd	-	0.0083	1.67	nd	-	3.71	-	-	7.9	-	-	nd	60.7	-	-	-	-	-	-	-	-	-	-	-	nd	
			198	nd	-	0.007	0.89	nd	-	2.51	-	-	6.7	-	-	nd	40.1	-	-	-	-	-	-	-	-	-	-	-	0.01	
			260	nd	-	0.004	1.9	nd	-	3.4	-	-	8.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.008	
			190	nd	-	0.006	1.2	nd	-	2.6	-	-	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	nd	
			240	<0.005	-	1.9	<0.0005	3.2	-	3.2	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
			206	<0.002	-	0.003	1.37	0.00027	-	2.55	-	-	7.2	-	-	-	38.3	-	-	-	-	-	-	-	-	-	-	-	0.057	
			239	<0.002	-	<0.002	2.23	<0.02	-	3.21	-	-	8.5	-	-	-	59.4	-	-	-	-	-	-	-	-	-	-	-	0.039	
			207	<0.002	-	0.0004	1.42	0.00049	-	2.55	-	-	7.2	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	0.008	
			224	-	-	0.003	1.51	<0.02	-	2.41	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	
	DUP		224	-	-	0.003	1.58	<0.02	-	2.43	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	
			197	<0.002	-	0.0019	0.068	<0.00002	-	2	-	-	8.2	-	-	<0.00002	45.9	-	-	-	-	-	-	-	-	-	-	-	0.009	
			228	<0.002	-	<0.002	2.37	<0.00002	-	2.95	-	-	8.6	-	-	-	49.4	-	-	-	-	-	-	-	-	-	-	-	0.006	
	DUP		226	<0.002	-	0.002	2.38	<0.00002	-	2.92	-	-	8.6	-	-	-	48.7	-	-	-	-	-	-	-	-	-	-	-	<0.005	
			178	<0.002	-	0.003	2.01	0.00006	-	2.88	-	-	7.8	-	-	-	44.7	-	-	-	-	-	-	-	-	-	-	-	<0.005	
			275	<0.002	-	0.004	3.04	0.00007	-	3.71	-	-	9.9	-	-	-	70.9	-	-	-	-	-	-	-	-	-	-	-	<0.005	
			227	0.0034	-	0.0032	2.56	0.00004	-	3.51	-	-	8.4	-	-	-	57.6	-	-	-	-	-	-	-	-	-	-	-	<0.005	
			302	<0.002	-	0.003	3.25	0.00015	-	3.71	-	-	7.3	-	-	-	65.6	-	-	-	-	-	-	-	-	-	-	-	0.007	
			205	0.001	-	0.002	2	0.00104	-	2.92	-	-	6.5	-	-	-	46.5	-	-	-	-	-	-	-	-	-	-	-	0.007	
			256	<0.002	-	0.003	2.64	<0.00002	-	3.65	-	-	7.6	-	-	-	68.1	-	-	-	-	-	-	-	-	-	-	-	0.005	
			294	<0.00050	-	0.001	2.15	<0.00050	-	4.31	-	-	6.8	-	-	<0.00010	58.7	-	-	-	-	-	-	-	-	-	-	-	<0.0030	
			286	-	-	-	3.38	<0.00050	-	3.87	-	-	7.3	-	-	-	62.4	-	-	-	-	-	-	-	-	-	-	-	-	
	DUP		287	-	-	-	3.29	<0.00050	-	3.86	-	-	7.4	-	-	-	63.7	-	-	-	-	-	-	-	-	-	-	-	-	
			245	<0.00050	-	0.0011	2.55	<0.00050	-	3.28	-	-	6.4	-	-	<0.00010	51.1	-	-	-	-	-	-	-	-	-	-	-	<0.0030	
			252	<0.00050	-	0.0019	3.08	<0.00050	-	3.73	-	-	6.4	-	-	<0.00010	63.1	-	-	-	-	-	-	-	-	-	-	-	0.007	
			213	nd	0.0112	-	2.34	nd	85.2	3.11	-	-	5.38	-	-	-	49	1.27	-	-	-	-	0.0127	nd	-	-	-	-	nd	
			293	nd	0.0125	-	3.19	nd	156	3.85	-	-	6.4	-	-	-	66.5	1.29	-	-	-	-	0.0145	nd	-	-	-	-	nd	
			247	<0.001	0.0126	0.0006	3.26	<0.0001	100	3.21	-	-	6.48	-	-	<0.0001	64.3	1.26	-	-	-	-	0.0146	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	
			282	<0.001	0.0109	<0.0005	3.09	<0.0001	110	3.77	0.0021	0.011	6.14	<0.001	13.4	<0.0001	68.8	1.43	<0.0001	<0.005	<0.005	<0.01	0.0127	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	
			246	<0.001	0.0131	0.0047	3.31	0.0004	94.7	3.92	0.002	0.012	5.05	<0.001	14.3	<0.0001	61.2	1.53	<0.0001	<0.005	<0.005	<0.01	0.0124	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	

Location	PARAMETERS			Alkalinity	N - Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	
	UNITS			mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	RL (2020)			5	0.01	3	5	0.2	1	1		0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.00002	0.01		0.0001	0.001	0.002	0.005	0.000015	
	ODWS			30-500 ^{OG}				5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}			500 ^{AO}			250 ^{AO}	10.0 ^{CS}	1.0 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}		0.01 ^{CS}	1.0 ^{CS}		5.0 ^{CS}	0.005 ^{CS}	
	RULs (2020)			426				3.7		232				452			135	2.7	0.400	260	0.00028	0.06		0.0028	0.36		1.27	0.0013	
Date	Type	Sample ID																											
2018-May-30			709	2.74	< 2	31	7.4	1800	893	7.66	< 0.001	< 0.01	988	8	2.9	96.4	< 0.05	< 0.05	182	< 0.00002	0.1	< 0.0001	0.0017	0.3	< 0.0001	0.409	< 0.000015		
2018-Nov-12			959	3.64	4	42	14.9	2250	1130	7.42	0.004	0.03	1250	18	4.6	126	0.06	< 0.05	149	< 0.00002	0.12	0.00005	0.0019	0.405	< 0.002	0.79	< 0.000015		
2019-Apr-30		19-W006	811	2.90	< 3	32	12.5	2020	1070	7.24	< 0.002	0.01	1110	6	3.5	107	< 0.05	< 0.05	175	< 0.00002	0.11	-	0.0017	0.341	< 0.002	0.561	< 0.000015		
2019-Nov-25		19-W025	908	2.81	< 3	33	17.3	2060	1060	7.40	< 0.002	0.01	1140	13	3.2	113	0.10	< 0.05	163	< 0.00002	0.11	-	0.0012	0.360	< 0.002	0.623	< 0.000029		
2020-Apr-14		20-W008	842	2.46	< 3	< 5	8.1	1950	1030	7.26	< 0.002	0.03	1070	8	3.1	88.9	< 0.05	< 0.05	145	< 0.00002	0.11	-	0.0014	0.337	< 0.002	0.543	< 0.000029		
2020-Oct-20		20-W035	1030	2.85	< 3	42	8.5	2210	1200	7.61	< 0.002	0.02	1220	10	3.6	79.1	< 0.05	< 0.05	98	< 0.00002	0.12	-	0.0013	0.404	< 0.002	0.902	< 0.000029		
2006-Oct-01			121	-	< 2	-	11.3	325	210	9	-	-	194	-	6	8	0.2	-	39	-	0.12	-	0.006	0.063	-	0.087	< 0.0001		
2007-May-01			152	-	3	-	8.7	276	137	8.58	-	-	182	-	0.4	5.1	< 0.1	-	22	-	0.04	-	0.0031	0.059	-	0.076	< 0.00002		
2007-Oct-01			140	-	< 2	-	4	-	159	8.3	-	-	216	-	0.3	5	< 0.1	-	30	-	0.04	-	< 0.03	0.034	-	0.066	< 0.005		
2008-Jul-11			151	-	3	-	2.3	328	166	7.99	-	-	180	-	0.1	3	< 0.1	-	14	-	< 0.01	-	0.0015	0.053	-	0.046	< 0.00002		
2008-Nov-01			161	-	2	-	2	375	192	7.97	-	-	206	-	0.1	8	< 0.1	-	20	nd	< 0.01	-	< 0.03	0.058	-	0.043	< 0.005		
2009-Apr-01			154	< 0.05	< 2	-	2.1	363	184	7.78	< 0.001	-	200	10	0.1	6	< 0.1	< 0.1	14	-	< 0.01	-	0.0007	0.046	-	0.037	0.00003		
2009-Nov-19			168	0.1	2	37	3.1	366	178	7.83	< 0.001	0.19	201	-	1	5	0.1	-	15	-	0.04	-	0.0017	0.052	-	0.042	< 0.00002		
2010-Apr-14			178	0.03	< 3	-	2	371	180	7.37	< 0.001	-	-	-	< 0.05	5	< 0.1	-	15	-	< 0.01	-	0.0015	0.048	-	0.058	< 0.00002		
2010-Oct-21			165	0.1	< 2	-	1.8	387	210	8.19	< 0.001	-	213	-	0.2	6	< 0.1	-	16	-	0.03	-	0.0008	0.075	-	0.064	< 0.00002		
2011-Apr-01		DUP	172	< 0.05	2	6	1.7	383	213	8.24	< 0.001	-	211	60	0.1	5	< 0.1	< 0.1	13	-	0.07	-	0.0007	0.071	-	0.047	< 0.00002		
2011-Apr-01		DUP	172	< 0.05	< 2	8	1.6	383	208	8.26	< 0.001	-	211	44	0.1	5	< 0.1	< 0.1	13	-	0.03	-	0.0006	0.066	-	0.045	< 0.00002		
2011-Nov-11		DUP	168	< 0.05	< 2	< 5	1.6	372	186	8.11	< 0.001	-	205	16	0.13	4.5	< 0.1	< 0.1	14	-	0.03	-	0.0014	0.062	-	0.048	0.00002		
2011-Nov-11		DUP	169	< 0.05	< 2	8	1.6	372	189	8.15	< 0.001	-	205	6	0.11	4.5	< 0.1	< 0.1	14	-	0.04	-	0.0014	0.064	-	0.047	< 0.00002		
2012-Apr-18			173	< 0.05	3	13	1.9	382	177	8.18	< 0.001	0.35	210	144	0.3	5.5	0.1	< 0.1	16	-	-	-	0.0008	0.058	-	0.051	0.00002		
2012-Oct-02			156	0.06	5	< 5	4.2	355	174	8.14	-	-	195	102	0.4	4.1	< 0.1	< 0.1	15	< 0.00002	0.06	-	0.0021	0.067	-	0.06	0.00006		
2015-May-07			195	0.05	nd	nd	2.5	409	61.4	8	nd	0.02	232	17	0.3	7	nd	nd	15	nd	0.004	-	nd	0.062	-	0.055	nd		
2015-Nov-03			165	0.05	nd	19	5.3	361	143	7.9	nd	0.03	164	45	0.3	3	nd	nd	13	nd	0.007	-	nd	0.057	-	0.064	nd		
2016-Nov-09			182	0.05	< 2	21	5.6	386	157	7.7	< 0.001	0.03	212	61	0.4	4	< 0.1	< 0.05	15	< 0.0001	0.008	-	< 0.001	0.063	-	0.077	< 0.0001		
2017-Aug-01			189	0.05	< 2	15	1	363	185	8	< 0.001	< 0.01	224	130	0.2	5	< 0.1	< 0.05	14	< 0.0001	0.005	< 0.0005	< 0.001	0.056	< 0.0005	0.049	< 0.0001		
2017-Nov-13			189	0.06	< 2	34	2.4	383	158	7.8	< 0.001	< 0.01	226	23	0.3	6	< 0.1	< 0.05	17	< 0.0001	0.006	< 0.0005	< 0.001	0.048	< 0.0005	0.052	< 0.0001		
2018-May-30			143	0.05	< 2	18	3.8	355	158	8.2	< 0.001	< 0.01	183	3	0.1	4.6	< 0.05	< 0.05	14	< 0.00002	0.04	< 0.0001	0.0005	0.046	< 0.0001	0.05	< 0.000015		
2018-Nov-12			162	0.06	3	< 5	5.6	364	174	8.03	< 0.002	0.02	187	10	0.2	4.5	< 0.05	< 0.05	13	< 0.00002	0.03	0.00003	0.0004	0.405	< 0.002	0.056	< 0.000015		
2019-Apr-30		19-W007	164	0.08	< 3	7	2.9	362	188	8.00	< 0.002	0.01	186	5	0.1	4.0	< 0.05	< 0.05	12	< 0.00002	0.03	-	0.0004	0.052	< 0.002	0.049	< 0.000015		
2019-Nov-25		19-W021	161	0.07	< 3	5	3.5	357	181	7.96	< 0.002	0.03	184	6	0.1	5.1	0.12	< 0.05	12	< 0.00002	0.05	-	0.0004	0.061	< 0.002	0.055	< 0.000015		
2020-Apr-14		20-W005	159	0.02	< 3	< 5	2.9	355	175	7.90	< 0.002	< 0.01	183	3	0.1	4.0	0.08	< 0.05	13	< 0.00002	0.03	-	0.0003	0.054	< 0.002	0.045	< 0.000015		
2020-Oct-20		20-W041	161	0.06	< 3	< 5	4.1	351	177	8.08	< 0.002	0.03	181	6	0.2	4.1	< 0.05	< 0.05	12	< 0.00002	0.02	-	0.0003	0.061	< 0.002	0.070	< 0.000015		

Location	PARAMETERS		Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field)[1]	
	UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L	
	RL (2020)		0.02	0.001	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.01	0.1			0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.0001	0.005					0.001
	ODWS			0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.010 ^{CS}		0.05 ^{AO}							200 ^{AO [B]}							0.02 ^{CS}		5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}			
	Ruls (2020)			0.015		0.5	0.168	0.0026		0.028							106							0.0083		2.5					
Date	Type	Sample ID																													
2018-May-30			206	0.002	0.0096	0.0009	1.97	0.00004	91.9	2.94	0.0024	0.0093	5.5	-	11	< 0.0001	60.4	1.1	< 0.00005	< 0.05	< 0.005	< 0.01	0.01	< 0.005	< 0.005						
2018-Nov-12			260	< 0.001	0.0123	0.0016	3.23	0.00007	117	3.72	< 0.01	0.01	6.5	-	12.2	< 0.0001	81.5	1.48	< 0.00005	< 0.05	< 0.005	0.02	0.0139	< 0.005	< 0.005						
2019-Apr-30		19-W006	254	0.001	0.0106	0.0011	2.54	0.00004	107	3.27	< 0.01	0.01	5.7	-	11.5	< 0.0001	68.3	1.30	< 0.00005	< 0.05	< 0.005	0.08	0.0124	< 0.005	< 0.005	6.47	9.64	7.40	2.15	0.002	
2019-Nov-25		19-W025	255	< 0.001	0.0119	0.0016	2.78	< 0.00009	104	3.48	< 0.01	0.01	5.7	-	11.7	< 0.0001	75.2	1.31	< 0.00005	< 0.05	< 0.005	< 0.01	0.0121	< 0.005	< 0.005	6.95	9.28	1.98	2.12	0.004	
2020-Apr-14		20-W008	242	< 0.001	0.0116	0.0030	2.69	0.00015	103	3.31	< 0.01	0.01	5.6	-	12.3	< 0.0001	71.3	1.27	0.00005	< 0.05	< 0.005	< 0.01	0.0129	< 0.0004	< 0.005	7.05	8.62	0.00	2.14	0.005	
2020-Oct-20		20-W035	276	< 0.001	0.0131	0.0014	3.36	< 0.00009	123	3.78	< 0.01	< 0.01	6.1	-	13.1	< 0.0001	86.7	1.52	< 0.00005	< 0.05	< 0.005	< 0.01	0.0147	0.0004	< 0.005	7.35	18.62	10.97	1.47	0.023	
2006-Oct-01			74	< 0.005	-	0.003	< 0.05	< 0.0005	-	< 0.002	-	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
2007-May-01			38.2	< 0.002	-	< 0.002	0.0094	< 0.00002	-	0.182	-	-	3.4	-	-	-	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	0.017
2007-Oct-01			46.3	< 0.002	-	< 0.002	0.05	< 0.02	-	0.013	-	-	3.4	-	-	-	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006
2008-Jul-11			50.3	< 0.002	-	< 0.002	0.078	0.00046	-	0.031	-	-	2.4	-	-	-	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2008-Nov-01			58.7	< 0.002	-	< 0.002	0.068	< 0.02	-	0.061	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2009-Apr-01			55.5	< 0.002	-	< 0.0001	0.107	< 0.00002	-	0.055	-	-	2.4	-	-	< 0.00002	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2009-Nov-19			53.7	< 0.002	-	< 0.002	0.124	< 0.00002	-	0.054	-	-	2.6	-	-	-	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2010-Apr-14			54.1	< 0.002	-	< 0.002	0.097	< 0.00002	-	0.053	-	-	2.6	-	-	-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2010-Oct-21			65.1	< 0.002	-	< 0.002	0.181	< 0.00002	-	0.066	-	-	3	-	-	-	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2011-Apr-01			64.9	0.0007	-	< 0.0001	0.117	< 0.00002	-	0.043	-	-	2.8	-	-	-	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2011-Apr-01			62.9	0.0005	-	< 0.0001	0.101	< 0.00002	-	0.048	-	-	2.8	-	-	-	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2011-Nov-11			57.2	< 0.002	-	< 0.002	0.14	0.00022	-	0.041	-	-	2.4	-	-	-	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2011-Nov-11			58.2	< 0.002	-	< 0.002	0.167	0.0001	-	0.039	-	-	2.5	-	-	-	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	0.011
2012-Apr-18			52.6	0.0012	-	0.004	0.069	0.00133	-	0.034	-	-	2.5	-	-	-	6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2012-Oct-02			53	0.0008	-	0.0007	0.027	< 0.00002	-	0.035	-	-	2.7	-	-	-	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
2015-May-07			50.8	nd	nd	nd	nd	nd	10.6	0.031	-	-	2.17	-	-	nd	5.64	1.25	-	-	-	-	0.0086	nd	nd	-	-	-	-	-	nd
2015-Nov-03			42.3	nd	nd	nd	0.11	nd	8.94	0.039	-	-	2.33	-	-	nd	4.25	0.862	-	-	-	-	0.0039	nd	nd	-	-	-	-	-	nd
2016-Nov-09			47.8	< 0.001	< 0.0005	< 0.0005	0.105	< 0.0001	9.01	0.047	-	-	2.52	-	-	< 0.0001	6.62	0.865	-	-	-	-	0.0042	0.0006	< 0.005	-	-	-	-	-	< 0.005
2017-Aug-01			56.7	< 0.001	< 0.0005	< 0.0005	< 0.1	< 0.0001	10.6	0.046	0.0014	< 0.001	2.45	< 0.001	5.86	< 0.0001	7.47	1.16	< 0.0001	< 0.005	< 0.005	< 0.01	0.0057	< 0.0005	< 0.005	-	-	-	-	-	< 0.005
2017-Nov-13			47.7	< 0.001	< 0.0005	< 0.0005	< 0.1	< 0.0001	9.5	0.036	0.0021	< 0.001	2.09	< 0.001	6.02	< 0.0001	8.89	1.15	< 0.0001	< 0.005	< 0.005	< 0.01	0.006	0.0008	< 0.005	-	-	-	-	-	< 0.005
2018-May-30			45.7	< 0.001	< 0.0001	0.0004	0.027	< 0.00002	10.7	0.015	0.0019	< 0.0002	2.2	-	4.78	< 0.0001	7.9	1.08	< 0.00005	< 0.05	< 0.005	< 0.01	0.0068	< 0.005	< 0.005	-	-	-	-	-	< 0.005
2018-Nov-12			52.1	< 0.001	0.0001	0.0002	0.068	< 0.00002	10.6	0.035	< 0.01	< 0.01	2.5	-	5.37	< 0.0001	5.7	1.11	< 0.00005	< 0.05	< 0.005	< 0.01	0.0059	< 0.005	< 0.005	-	-	-	-	-	< 0.005
2019-Apr-30			56.7	0.001	< 0.0001	< 0.0001	0.047	< 0.00002	11.3	0.033	< 0.01	< 0.01	2.2	-	4.72	< 0.0001	4.8	1.16	< 0.00005	< 0.05	< 0.005	0.09	0.00604	< 0.005	< 0.005	7.64	7.36	7.25	0.404	0.001	
2019-Nov-25		19-W021	55.9	< 0.001	< 0.0001	0.0005	0.062	0.00003	10.0	0.033	< 0.01	< 0.01	2.5	-	4.90	< 0.0001	4.9	1.10	< 0.00005	< 0.05	< 0.005	< 0.01	0.00496	< 0.005	< 0.005	8.52	10.24	2.76	0.389	0.004	
2020-Apr-14		20-W005	52.8	< 0.001	< 0.0001	0.0002	0.052	0.00003	10.4	0.029	< 0.01	< 0.01	2.3	-	4.81	< 0.0001	4.8	1.10	< 0.00005	< 0.05	< 0.005	< 0.01	0.00592	0.0002	< 0.005	8.08	7.97	5.00	0.376	< 0.001	
2020-Oct-20		20-W041	53.8	< 0.001	< 0.0001	0.0003	0.062	< 0.00002	10.4	0.039	< 0.01	< 0.01	2.7	-	5.77	< 0.0001	5.8	1.10	< 0.00005	< 0.05	< 0.005	< 0.01	0.00443	0.0002	< 0.005	7.46	11.27	7.47	0.366	< 0.001	

Location	PARAMETERS		Alkalinity	N - Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium
	UNITS		mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	RL (2020)		5	0.01	3	5	0.2	1	1	6.5 - 8.5	0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.00002	0.01	0.0001	0.001	0.002	0.005	0.000015	
	ODWS		30-500 ^{OG}				5 ^{AO}		80-100 ^{OG}	6.5 - 8.5 ^{OG}			500 ^{AO}			250 ^{AO}	10.0 ^{CS}	1.0 ^{CS}	500 ^{AO}	0.001 ^{CS}	0.1 ^{OG}		0.01 ^{CS}	1.0 ^{CS}		5.0 ^{CS}	0.005 ^{CS}
Date	RULs (2020)	Sample ID	426			3.7		232				452			135	2.7	0.400	260	0.00028	0.06		0.0028	0.36			1.27	0.0013
Type																											
BW 3	2005-Oct-01		365	nd	nd	-	2.8	670	370	8.18	-	-	460	-	5	16	nd	-	24	0.002	0.009	-	nd	0.17	-	0.023	nd
	2006-Apr-01		377	0.09	nd	-	1.7	695	400	8.2	-	-	448	-	0.1	17	0.2	-	17	-	0.006	-	nd	0.11	-	0.025	nd
	2006-Oct-01		380	nd	<2	-	2	731	410	8.1	-	-	472	-	0.2	17	0.2	-	14	-	0.006	-	<0.001	0.17	-	0.02	<0.0001
	2007-May-01		324	-	<2	-	1.8	616	393	7.61	-	-	406	-	4	2	0.2	-	12	-	0.01	-	0.0004	0.145	-	0.029	<0.00002
	2007-Oct-01		372	-	<2	-	2.7	-	373	7.06	-	-	496	-	0.5	15	0.1	-	23	-	<0.01	-	<0.03	0.138	-	0.019	<0.005
	2008-Jul-11		346	-	<2	-	1.9	712	372	7.37	-	-	392	-	<0.1	16	0.3	-	18	-	<0.01	-	0.0003	0.145	-	0.02	<0.00002
	2008-Nov-01		350	-	<2	-	1.8	729	384	7.71	-	-	401	-	<0.1	24	0.3	-	23	-	<0.01	-	<0.03	0.138	-	0.015	<0.005
	2009-Apr-01		330	<0.05	<2	-	2.1	727	355	7.1	<0.001	-	400	5	<0.1	21	0.3	<0.1	20	-	<0.01	-	0.0003	0.087	-	0.019	<0.00002
	2009-Nov-19		360	<0.05	<2	<5	2	751	385	7.26	<0.001	<0.01	413	-	0.3	22	0.3	-	18	-	<0.01	-	0.0003	0.139	-	0.013	<0.00002
	2010-Apr-14		359	<0.01	<3	-	1.7	750	384	7.13	<0.001	-	-	-	<0.05	21.2	0.3	-	22	-	<0.01	-	0.0001	0.153	-	0.029	<0.00002
	2010-Apr-14	DUP	363	<0.01	<3	-	1.7	748	384	7.35	<0.001	-	-	-	<0.05	21.2	0.3	-	21	-	<0.01	-	0.0002	0.154	-	0.028	<0.00002
	2010-Oct-21		341	0.08	<2	-	1.8	740	430	8.03	<0.001	-	407	-	<0.1	20	0.2	-	20	-	0.02	-	0.0001	0.172	-	0.019	<0.00002
	2010-Oct-21	DUP	341	0.06	<2	-	1.7	749	429	7.91	<0.001	-	412	-	<0.1	20	0.2	-	20	-	0.02	-	0.0001	0.172	-	0.019	<0.00002
	2011-Apr-01		332	<0.05	2	<5	1.6	717	405	8.05	<0.001	-	394	3	<0.1	18	0.3	<0.1	17	-	0.03	-	0.0001	0.161	-	0.011	<0.00002
	2011-Nov-11		344	<0.05	<2	11	1.6	723	375	7.99	<0.001	-	398	10	0.2	20	0.3	<0.1	17	-	0.03	-	0.0001	0.149	-	0.02	<0.00002
	2012-Apr-18		338	<0.05	<2	<5	1.5	718	361	7.95	<0.001	0.01	395	<2	0.4	19.6	0.3	<0.1	78	-	-	-	0.0001	0.13	-	0.021	<0.00002
	2012-Oct-02		338	0.01	3	<5	1.7	715	387	7.69	-	-	393	3	0.1	18	0.3	<0.1	18	-	0.04	-	0.0001	0.152	-	0.016	<0.00003
	2013-Jul-22		352	<0.050	<2.0	<10	1.2	706	381	7.94	<0.0010	<0.030	408	5.6	0.41	19	<0.50	<0.50	18	-	<0.00010	-	<0.0010	0.154	-	0.017	<0.000090
	2013-Jul-22	DUP	365	<0.050	<2.0	<10	1.9	708	350	7.99	<0.0010	<0.030	410	4.8	0.19	19	<0.50	<0.50	18	-	<0.00010	-	<0.0010	0.151	-	0.018	<0.000090
	2013-Oct-23		381	<0.050	<2.0	25	2.5	713	359	7.78	-	-	399	6	0.2	16.7	0.1	-	16.9	-	<0.00010	-	-	0.144	-	0.021	<0.000090
	2014-Jun-25		330	<0.050	<2.0	<10	1.2	706	376	7.82	<0.0010	0.036	394	4	0.18	18.4	0.19	<0.10	16.1	-	<0.00010	<0.010	<0.0010	0.152	-	0.019	<0.000090
	2014-Oct-16		364	0.068	<2.0	<10	1.1	669	344	7.9	<0.0010	<0.030	374	4	<0.15	17	0.17	<0.10	16.5	-	<0.00010	<0.010	<0.0010	0.146	-	0.019	<0.000090
	2015-May-07		381	0.02	nd	nd	2.1	735	109	8	nd	nd	378	2	0.2	16	0.3	nd	18	-	nd	-	nd	0.157	-	0.024	nd
	2015-Nov-03		365	nd	nd	nd	3.5	728	379	7.8	nd	nd	382	nd	nd	22	0.3	nd	18	-	nd	-	nd	0.156	-	0.028	nd
	2016-Nov-09		390	0.02	<2	<10	3.2	768	353	7.8	<0.001	<0.01	428	5	<0.1	17	<0.1	<0.05	22	-	<0.0001	<0.001	<0.001	0.171	-	0.026	<0.0001
	2017-Aug-01		380	0.02	<2	<10	2	715	390	7.8	<0.001	<0.01	412	4	<0.1	23	0.5	<0.05	17	-	<0.0001	<0.001	<0.0005	0.151	<0.0005	0.018	<0.0001
	2017-Nov-13		378	<0.01	<2	16	1.8	712	378	7.5	<0.001	<0.01	440	9	0.1	24	0.6	<0.05	19	-	<0.0001	<0.001	<0.0005	0.147	<0.0005	0.02	<0.0001
	2018-May-30		331	0.02	<2	<5	8.2	667	334	8.03	<0.001	0.06	346	<3	0.2	16.2	<0.47	<0.05	15	-	<0.00002	0.05	<0.0001	0.138	<0.0001	0.025	<0.000015
	2018-Nov-12		324	0.05	3	<5	4.6	716	365	7.9	0.003	<0.01	372	3	0.1	21.4	0.51	<0.05	18	-	<0.00002	0.05	<0.0001	0.153	<0.0002	0.018	<0.000015
	2019-Apr-30		323	0.05	<3	6	4.6	721	380	7.78	<0.002	<0.01	375	<3	0.138	24.5	<0.53	<0.05	17	-	<0.00002	0.05	<0.0001	0.144	<0.0002	0.021	<0.000015
	2019-Nov-25		317	0.07	<3	<5	4.9	722	374	7.96	<0.002	0.05	376	3	0.1	30.2	0.70	<0.05	19	-	<0.00002	0.05	<0.0001	0.156	<0.0002	0.021	<0.000015
2020-Apr-15		313	<0.01	<3	<5	2.9	707	392	7.93	<0.002	0.09	367	4	0.2	22.4	0.50	<0.05	16	-	<0.00002	0.05	<0.0001	0.162	<0.0002	0.020	<0.000015	
2020-Oct-20		327	0.02	<3	<5	2.4	706	381	8.04	<0.002	0.02	367	4	<0.1	21.0	0.32	<0.05	18	-	<0.00002	0.04	<0.0001	0.158	<0.0002	0.021	<0.000015	
BW 4	2015-Nov-06	DUP	493	0.76	2	57	5.9	1090	551	7.4	nd	0.48	611	771	1	47	nd	nd	56	nd	nd	-	nd	0.25	-	0.334	nd
	2015-Nov-06		489	0.73	nd	50	6.5	1070	540	7.2	nd	0.47	616	582	1.1	47	nd	nd	56	nd	nd	-	nd	0.248	-	0.335	nd
	2016-Nov-09	DUP	464	0.8	<2	55	5.8	998	497	7.5	0.002	0.49	568	622	<0.1	37	<0.1	<0.05	49	<0.0001	0.002	-	<0.001	0.17	-	0.301	<0.0001
	2016-Nov-09		467	0.86	<2	77	5.9	1010	473	7.5	0.002	0.42	546	1340	0.9	37	<0.1	<0.05	50	<0.0001	0.004	-	<0.001	0.191	-	0.28	<0.0001
	2017-Aug-01		470	1.01	<2	36	3	918	516	7.5	<0.001	0.15	546	215	1.2	39	<0.1	<0.05	63	<0.0001	<0.001	<0.0005	<0.001	0.173	<0.0005	0.321	<0.0001
	2017-Nov-13		536	1.05	<2	30	4.2	1110	524	7.2	<0.001	<0.01	682	67	2.1	54	<0.1	<0.05	64	<0.0001	0.115	<0.0005	<0.001	0.189	<0.0005	0.287	<0.0001
	2018-May-30		366	1.12	4	16	6.8	829	380	7.8	<0.001	0.06	437	50	1.3	30.1	<0.05	<0.05	93	<0.00002	0.07	<0.0001	0.0005	0.140	<0.0001	0.285	<0.000015
	2018-Nov-12		355	0.85	4	9	6.1	852	414	7.73	0.003	0.05	450	64	1	29.8	<0.05	<0.05	42	<0.00002	0.07	<0.00002	0.0005	0.144	<0.0001	0.275	<0.000015
	2019-Apr-30		475	1.19	<3	23	7.4	1120	567	7.43	<0.002	0.08	602	14	1.5	49.9	<0.05	<0.05	52	<0.00002	0.07	<0.00002	0.0005	0.192	<0.0002	0.426	<0.000015
	2019-Nov-25		428	1.03	<3	14	10.9	1010	531	7.78	<0.002	0.02	539	7	1.2	48.7	0.10	<0.05	49	<0.00002	0.07	-	0.0005	0.193	<0.0002	0.358	<0.000015
	2020-Apr-14		399	1.09	<3	<5	3.4	924	459	7.49	<0.002	0.09	491	52	1.5	36.8	0.05	<0.05	41	<0.00002	0.07	-	0.0006	0.168	<0.0002	0.352	<0.000015
	2020-Oct-20		347	0.97	<3	9	4.2	809	410	7.83	<0.002	0.03	425	11	1.2	28.7	<0.05	<0.05	35	<0.00002	0.05	-	0.0005	0.142	<0.0002	0.250	<0.000015
MW103	2020-Apr-15		217	0.05	<3	86	2.0	565	301	7.92	0.002	2.22	293	1420	1.4	12.8	<0.05	<0.05	51	<0.0000							

Location	PARAMETERS		Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (Field)[1]
	UNITS		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L
RL (2020)			0.02	0.001	0.0001	0.0001	0.005	0.00002	0.02	0.001	0.01	0.01	0.1	mg/L	0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.00005	0.0001	0.005					0.001
ODWS				0.05 ^{CS}		1 ^{AO}	0.3 ^{AO}	0.010 ^{CS}		0.05 ^{AO}							200 ^{AO(a)}						0.02 ^{CS}		5 ^{AO}	6.5 - 8.5 ^{OG}	15 ^{AO}			
Ruls (2020)				0.015		0.5	0.168	0.0026		0.028							106						0.0083		2.5					
Date	Type	Sample ID																												
BW 3			100	nd	-	0.003	nd	nd	-	0.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.007
			94	nd	-	0.001	nd	nd	-	0.004	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	nd
			100	<0.005	-	0.005	<0.05	<0.0005	-	<0.002	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.013
			93.4	<0.002	-	0.002	0.015	<0.00005	-	0.018	-	-	2.5	-	-	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006
			85.5	<0.002	-	0.002	<0.005	<0.02	-	<0.001	-	-	2.6	-	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			89.8	<0.002	-	<0.002	0.008	0.00046	-	<0.001	-	-	2.2	-	-	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			93.7	<0.002	-	<0.002	<0.005	<0.02	-	0.021	-	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			80.6	<0.002	-	0.0008	<0.005	<0.00002	-	0.012	-	-	2.2	-	-	<0.00002	13.3	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			90.4	<0.002	-	<0.002	0.012	<0.00002	-	0.012	-	-	2.2	-	-	-	12.7	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			91.5	<0.002	-	<0.002	<0.005	<0.00002	-	0.016	-	-	2.2	-	-	-	12.7	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	DUP		91.5	<0.002	-	<0.002	<0.005	0.00003	-	0.001	-	-	2.2	-	-	-	12.7	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			103	<0.002	-	<0.002	<0.005	<0.00002	-	0.024	-	-	2.5	-	-	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	DUP		102	<0.002	-	<0.002	<0.005	0.00018	-	<0.001	-	-	2.5	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			95.2	0.0011	-	0.001	0.019	<0.00002	-	0.006	-	-	2.5	-	-	-	13.3	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			87.7	0.0037	-	0.0012	0.01	0.00005	-	0.004	-	-	2.2	-	-	-	12.6	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			84.6	0.0003	-	0.0015	0.01	0.00004	-	<0.001	-	-	2.1	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			90	<0.002	-	<0.002	<0.005	<0.00002	-	0.006	-	-	2.2	-	-	-	12.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
			92.5	<0.00050	-	0.0012	<0.050	<0.00050	-	0.0053	-	-	2.1	-	-	<0.00010	12.8	-	-	-	-	-	-	-	-	-	-	-	-	0.0887
	DUP		82.5	<0.00050	-	<0.0010	<0.050	<0.00050	-	<0.0010	-	-	2	-	-	<0.00010	12.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.0030
			81.8	<0.00050	-	0.0015	<0.050	<0.00050	-	<0.0010	-	-	2.2	-	-	<0.00010	12	-	-	-	-	-	-	-	-	-	-	-	-	<0.0030
			88.2	<0.00050	-	0.0015	<0.050	<0.00050	-	<0.0010	-	-	2.3	-	-	<0.00010	12.5	-	-	-	-	-	-	-	-	-	-	-	-	<0.0030
			76.4	<0.00050	-	0.002	<0.050	<0.00050	-	<0.0010	-	-	2.2	-	-	<0.00010	12.6	-	-	-	-	-	-	-	-	-	-	-	-	<0.0030
			73	nd	nd	nd	nd	nd	35.8	nd	-	-	2.07	-	-	nd	10.9	0.38	-	-	-	-	0.0045	nd	-	-	-	-	nd	
			84.9	nd	nd	nd	nd	nd	40.5	nd	-	-	2.19	-	-	nd	12.9	0.356	-	-	-	-	0.0047	nd	-	-	-	-	nd	
			84.1	<0.001	<0.0005	0.0012	<0.1	<0.0001	34.8	<0.005	-	-	2.35	-	-	<0.0001	12.4	0.376	-	-	-	-	0.0046	<0.0005	<0.005	-	-	-	<0.005	
			91.3	<0.001	<0.0005	<0.0005	<0.1	<0.0001	39.2	<0.005	0.0013	<0.001	2.09	<0.001	9.18	<0.0001	14.3	0.351	<0.0001	<0.005	<0.005	<0.01	0.0044	<0.0005	<0.005	-	-	-	<0.005	
			90.3	<0.001	<0.0005	0.0009	<0.1	<0.0001	37.2	<0.005	0.0011	<0.001	2.19	<0.001	8.22	<0.0001	13.3	0.352	<0.0001	<0.005	<0.005	<0.01	0.0038	<0.0005	<0.005	-	-	-	<0.005	
			74.3	0.05	<0.0001	0.0013	<0.005	<0.00002	36.0	<0.001	0.0016	<0.0002	2.1	-	8.18	<0.0001	12.8	0.320	<0.00005	<0.05	<0.005	<0.01	0.00395	<0.0005	<0.005	-	-	-	<0.005	
			92.3	<0.001	0.0001	0.0014	0.02	0.00009	38.8	<0.001	<0.01	<0.01	2.1	-	8.4	<0.0001	13.3	0.370	<0.00005	<0.05	<0.005	<0.01	0.00479	<0.0005	<0.005	-	-	-	<0.005	
		19-W015	86.9	0.001	<0.0001	0.001	<0.005	<0.00002	39.5	<0.001	<0.01	<0.01	2.1	-	8.33	<0.0001	13.3	0.372	<0.00005	<0.05	<0.005	0.11	0.00441	<0.0005	<0.005	7.14	10.0	3.71	0.793	<0.001
		19-W031	86.6	0.001	<0.0001	0.0014	<0.005	<0.00002	38.2	<0.001	<0.01	<0.01	2.3	-	8.31	<0.0001	13.7	0.377	<0.00005	<0.05	<0.005	<0.01	0.00401	<0.0005	<0.005	7.64	9.19	3.01	0.747	0.001
		20-W019	91.6	0.007	0.0001	0.0014	<0.005	0.00002	39.6	<0.001	<0.01	<0.01	2.3	-	8.82	<0.0001	14.4	0.373	<0.00005	<0.05	<0.005	<0.01	0.00447	0.0003	<0.005	7.63	8.80	0.00	0.77	<0.001
		20-W038	85.0	<0.001	<0.0001	0.0026	<0.005	0.00002	41.0	<0.001	<0.01	<0.01	2.3	-	9.07	<0.0001	13.9	0.400	<0.00005	<0.05	<0.005	<0.01	0.00431	0.0004	<0.005	7.59	9.98	14.11	0.704	<0.001
BW 4			144	nd	0.001	nd	1.99	0.0003	46.4	0.395	-	-	5.78	-	-	nd	23.9	1.81	-	-	-	-	0.0151	nd	-	-	-	-	nd	
	DUP		140	nd	0.001	nd	1.98	0.0003	46.1	0.395	-	-	5.65	-	-	nd	23.9	1.79	-	-	-	-	0.015	nd	-	-	-	-	nd	
			135	<0.001	0.0009	<0.0005	0.596	0.0002	38.4	0.376	-	-	4.52	-	-	<0.0001	20.5	1.59	-	-	-	-	0.0141	<0.0005	<0.005	-	-	-	<0.005	
	DUP		131	<0.001	0.0009	<0.0005	0.599	0.0002	35.6	0.379	-	-	4.58	-	-	<0.0001	21.5	1.53	-	-	-	-	0.0143	<0.0005	<0.005	-	-	-	<0.005	
			129	<0.001	0.001	<0.0005	0.554	0.0004	47.3	0.441	0.001	0.004	4.86	<0.001	8.25	<0.0001	27	1.83	<0.0001	<0.005	<0.005	<0.01	0.011	<0.0005	<0.005	-	-	-	<0.005	
			136	<0.001	0.0013	0.0012	0.964	0.0008	44.6	0.508	0.0008	0.004	4.16	<0.001	9.1	<0.0001	23.8	1.99	<0.0001	<0.005	0.007	<0.01	0.0122	<0.0005	0.007	-	-	-	0.005	
			92.3	<0.001	0.0009	0.0004	0.378	0.00029	36.3	0.349	0.0011	0.0031	4.2	-	7.23	<0.0001	22.4	1.3	0.00007	<0.05	<0.005	<0.01	0.00845	<0.0005	<0.005	-	-	-	<0.005	
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Historical Overburden Groundwater Chemistry

Location	PARAMETERS		Alkalinity	Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	
			UNITS	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	RL (2020)	5	0.01	3	5	5	1	300	300	8.5	0.002	0.01	3	3	0.1	0.5	0.05	0.05	1	0.0002	0.01	0.0001	0.001	0.002	0.005	0.00015		
	ODWS	30-500				5		80-100	6.5-8.5				500			250	10.0	1.0	500	0.001	1.0	0.01	1.0	5	0.005	0.005		
	RUL (2020)	446				3.6		456					456			246	2.7	0.3	259	0.00028	0.12	0.0039	0.312	1.26	0.0013			
Date	Type	Sample ID																										
OW 2		2001-May-01	150	-	21	-	-	3200	920	7.1	-	-	1800	-	72	260	0.1	-	36	-	0.01	-	nd	1.6	-	1.4	nd	
		2001-Nov-01	1480	-	18.8	-	-	3320	838	7.31	-	-	1720	-	123	272	nd	-	nd	-	0.006	-	0.006	1.22	-	1.54	nd	
		2002-Aug-01	1350	-	2.2	-	-	3230	1040	7.06	-	-	1810	-	112	264	nd	-	37.8	-	0.01	-	0.005	0.905	-	1.87	nd	
		2002-Nov-01	1680	-	16.6	-	-	3130	863	7.17	-	-	1790	-	152	279	nd	-	34.2	-	0.007	-	0.007	0.836	-	1.81	nd	
		2002-Nov-01	1700	-	16.1	-	-	3060	978	7.19	-	-	1770	-	153	277	nd	-	32.4	-	0.007	-	0.007	0.935	-	1.94	nd	
		2003-Jun-01	1320	-	11.9	-	-	3170	899	6.81	-	-	1470	-	36.3	232	nd	-	43.7	-	0.007	-	0.007	0.808	-	1.54	nd	
		2003-Jun-01	1340	-	13.8	-	-	3170	909	6.89	-	-	1470	-	33.6	238	nd	-	45.9	-	0.007	-	0.007	0.805	-	1.55	nd	
		2003-Sep-01	1630	112	11.6	-	-	427	2790	964	7.35	-	-	1550	-	105	233	nd	-	26.5	-	0.008	-	0.008	0.923	-	1.68	nd
		2004-Jun-01	1260	74.9	19.7	-	-	44	2590	875	6.98	-	-	1320	-	83.2	170	nd	-	35.7	-	0.005	-	0.006	0.631	-	1.27	nd
		2004-Oct-01	1250	N/A	16.4	-	-	37.2	2820	927	7.6	-	-	1470	-	97.5	205	nd	-	40.3	-	0.006	-	0.006	0.799	-	1.49	nd
		2005-Jun-01	1390	nd	17	-	-	53.3	2830	886	7.73	-	-	1370	-	86	192	nd	-	10	-	0.007	-	0.007	0.806	-	1.26	nd
		2005-Oct-01	1270	80	64	-	-	30.8	2350	779	7.88	-	-	1340	-	93	121	nd	-	68	-	0.005	-	0.006	0.72	-	1.2	nd
		2005-Oct-01	1290	80.8	61	-	-	32	2440	796	7.86	-	-	1010	-	81	138	nd	-	82	-	0.006	-	0.006	0.88	-	1.3	nd
		2006-Apr-01	1310	69	18	-	-	35	2590	940	7.9	-	-	1660	-	68	155	nd	-	41	-	0.006	-	0.009	1	-	1.2	nd
		2006-Apr-01	1330	59	20	-	-	34.6	2640	900	7.8	-	-	1780	-	72	161	nd	-	42	-	0.008	-	0.007	1.3	-	1.3	nd
		2006-Oct-01	1370	nd	12	-	-	35.7	2360	950	7.8	-	-	1590	-	86	173	nd	-	48	-	0.011	-	0.006	0.87	-	1.3	<0.0001
		2006-Oct-01	1380	-	13	-	-	36.7	2830	940	7.7	-	-	1560	-	83	172	<0.1	-	55	-	0.11	-	0.007	0.9	-	1.4	<0.0001
		2007-May-01	1210	-	15	-	-	24.3	2540	860	7.18	-	-	1680	-	70	144	-	-	43	-	0.01	-	0.0023	0.542	-	0.773	<0.0002
		2007-May-01	1300	-	12	-	-	27.6	2400	889	7.05	-	-	1580	-	30	174	-	-	30	-	0.01	-	0.0028	0.528	-	0.745	<0.0002
		2007-Oct-01	1270	-	>21	-	-	55	2260	895	6.95	-	-	1580	-	20	164	-	-	16	-	0.01	-	0.0028	0.813	-	1.36	<0.0002
		2007-Oct-01	1310	-	>21	-	-	48.8	2200	864	6.79	-	-	2200	-	120	254	-	-	17	-	0.02	-	0.0028	0.772	-	1.36	<0.0002
		2008-Jul-11	1150	-	12	-	-	21	2870	864	6.75	-	-	1580	-	91	176	<0.1	-	13	-	0.01	-	0.0115	0.83	-	1.19	<0.0002
		2008-Nov-01	1160	-	14	-	-	19.3	2730	935	7.01	-	-	1500	-	40	176	<0.1	-	128	-	0.01	-	<0.03	0.465	-	1.05	<0.0002
		2009-Apr-01	873	39	7	-	-	7	2360	848	7.01	-	-	1300	-	30	149	<0.1	-	30	-	0.009	-	0.009	0.97	-	1.3	<0.0001
		2009-Nov-19	1500	115	6	503	-	20.3	3330	899	6.87	0.004	9.2	1830	56400	100	207	0.1	-	23	-	0.14	-	0.0183	0.897	-	1.49	<0.0002
		2009-Nov-19	1500	115	4	306	-	20.1	3360	902	6.71	0.005	7.9	1850	-	100	206	<0.1	-	22	-	0.17	-	0.0233	0.989	-	1.52	<0.0002
		2010-Apr-14	1480	82.9	19	-	-	18.1	3050	1010	6.73	0.004	-	-	-	88.5	196	<0.1	-	41	-	0.21	-	0.0219	0.996	-	1.44	<0.0002
	OW 3 (compliance)		2001-May-01	270	-	16	-	-	460	220	7.8	-	-	310	-	0.8	15	nd	-	14	-	nd	-	nd	0.18	-	0.41	nd
			2001-Nov-01	282	-	nd	-	-	583	322	7.73	-	-	350	-	0.37	8	nd	-	26.7	-	nd	-	nd	0.119	-	0.041	nd
			2002-Aug-01	279	-	nd	-	-	557	349	7.83	-	-	334	-	0.14	10.2	nd	-	25.6	-	0.388	-	nd	0.12	-	0.025	nd
		2002-Nov-01	310	-	1.1	-	-	582	286	7.94	-	-	366	-	0.27	8.5	nd	-	30.2	-	nd	-	nd	0.121	-	0.023	nd	
		2004-Jun-01	294	0.04	nd	-	-	1.4	269	314	7.96	-	-	336	-	0.15	8.1	0.5	-	26	-	0.012	-	0.001	0.105	-	0.022	nd
		2004-Jun-01	290	0.05	nd	-	-	1.2	571	310	7.85	-	-	322	-	0.15	8.6	0.4	-	28.3	-	0.011	-	nd	0.106	-	0.021	nd
		2004-Oct-01	289	-	nd	-	-	2.5	576	318	8.2	-	-	346	-	0.11	9.9	nd	-	27.1	-	nd	-	nd	0.124	-	0.018	nd
		2005-Jun-01	289	0.25	nd	-	-	1.1	565	305	8.24	-	-	365	-	0.3	12.6	0.5	-	27	-	nd	-	nd	0.111	-	0.02	nd
		2005-Oct-01	312	nd	nd	-	-	1.7	682	392	8.22	-	-	340	-	1.2	11	nd	-	23	-	0.007	-	0.001	0.11	-	0.01	nd
		2006-Apr-01	297	nd	nd	-	-	2	581	340	8.2	-	-	377	-	0.2	12	0.1	-	29	-	nd	-	nd	0.098	-	0.016	nd
		2006-Oct-01	327	0.13	<2	-	-	1.4	641	350	8	-	-	380	-	3	10	3	-	28	-	<0.005	-	<0.001	0.011	-	0.019	<0.0001
		2007-May-01	268	0.12	<2	-	-	1.1	569	338	7.59	-	-	375	-	0.2	12.1	0.2	-	26	-	0.01	-	0.0008	0.091	-	0.022	<0.0002
		2007-Oct-01	290	0.51	3	-	-	1.7	604	304	7.37	-	-	422	-	11	11	<0.1	-	31	-	0.01	-	<0.03	0.065	-	0.014	<0.0002
		2008-Jul-11	322	-	<2	-	-	1.6	666	353	7.59	-	-	366	-	0.6	11	0.3	-	28	-	<0.01	-	0.0014	0.111	-	0.025	<0.0002
		2008-Nov-01	303	-	<2	-	-	1.6	646	337	7.84	-	-	355	-	1	14	<0.1	-	28	-	0.16	-	<0.03	0.071	-	0.022	<0.0002
		2009-Apr-01	353	<0.05	<2	-	-	1.6	626	340	7.33	-	-	344	50500	0.7	13	0.1	-	30	-	0.04	-	0.0013	0.091	-	0.018	<0.0002
		2009-Nov-19	306	0.1	<2	58	-	2.5	659	346	7.39	-	-	362	-	1.6	10	0.3	-	29	-	0.02	-	0.001	0.092	-	0.012	<0.0002
		2010-Apr-14	314	0.01	<3	-	-	1.3	662	355	7.31	<0.001	8.3	362	-	0.31	15	0.1	-	33	-	0.05	-	0.0008	0.093	-	0.028	<0.0002
		2010-Oct-21	296	0.18	4	-	-	1.9	784	393	7.88	<0.001	-	431	-	1.7	15	0.1	-	34	-							

Location	PARAMETERS		PARAMETERS																									
			Alkalinity	Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	
			UNITS	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			RL (2020)	5	0.01	3	5	1	80-100 ⁵⁰	6.5 - 8.5 ⁵⁰	0.002	0.01	3	3	0.1	250 ⁵⁰	10.0 ⁵⁰	0.05	1	0.0002	0.01	0.0001	0.001	0.002	0.005	0.00015	0.0015	0.005
OWS	30-500 ⁵⁰	6.5 - 8.5 ⁵⁰				80-100 ⁵⁰	6.5 - 8.5 ⁵⁰			500 ⁵⁰	3	0.1	250 ⁵⁰	10.0 ⁵⁰	0.05	1	0.0002	0.01	0.0001	0.00028	0.12	0.0039	0.312	1.26	0.0013			
RUL (2020)	446	246	456																									
Date	Type	Sample ID	310	1	-	-	580	310	7.6	-	-	350	-	0.3	7	0.9	-	39	-	nd	-	nd	0.11	-	nd	nd		
2001-May-01			264	nd	-	-	452	254	8.17	-	-	272	-	0.59	1.6	nd	-	9.3	-	0.007	-	nd	0.308	-	nd	nd		
2002-Aug-01			229	2	-	-	438	234	8.16	-	-	270	-	0.8	1.8	0.3	-	21.9	-	0.009	-	nd	0.267	-	0.01	nd		
2002-Nov-01			239	nd	-	-	449	235	8.16	-	-	292	-	0.27	0.8	nd	-	18.4	-	nd	-	nd	0.266	-	0.012	nd		
2003-Jun-01			256	nd	-	-	474	245	7.86	-	-	232	-	0.29	1	nd	-	12.9	-	0.022	-	0.002	0.136	-	0.01	nd		
2003-Sep-01			258	0.08	2.7	-	419	251	8.13	-	-	284	-	0.31	1.2	nd	-	25.7	-	0.006	-	nd	0.154	-	0.01	nd		
2004-Jun-01			247	nd	-	-	2.4	460	247	8.1	-	-	256	-	0.3	0.8	nd	-	15.5	-	nd	-	nd	0.102	-	0.008		
2004-Oct-01			266	3.9	nd	-	505	266	8.24	-	-	278	-	0.22	1	nd	-	19.4	-	nd	-	nd	0.148	-	nd			
2005-Jun-01			184	0.27	nd	-	22.1	393	232	8.29	-	-	309	-	27.6	26.5	nd	-	9	-	0.09	-	0.004	0.256	-	0.02		
2005-Oct-01			274	nd	-	-	1	456	243	8.12	-	-	420	-	1.2	nd	-	9	-	0.007	-	nd	0.197	-	0.01	nd		
2006-Apr-01			273	0.06	nd	-	2	481	270	8.3	-	-	302	-	0.4	1	nd	-	10	-	0.008	-	nd	0.083	-	nd		
2006-Oct-01			273	0.2	<2	-	1.2	504	270	8.1	-	-	334	-	1	2	1.5	-	14	-	0.017	-	<0.001	0.11	-	<0.01		
2007-May-01			276	0.12	<2	-	1.5	502	265	7.72	-	0.93	332	-	0.3	2	<0.1	-	9	-	0.01	-	0.004	0.087	-	0.01		
2007-Oct-01			224	0.43	13	-	1.3	243	7.47	-	-	307	-	4	2	<0.1	-	17	-	0.01	-	<0.03	0.079	-	<0.0002	<0.0002		
2008-Jul-11			257	15	-	-	1.5	470	254	7.9	-	-	259	-	0.8	2	<0.1	-	13	-	0.03	-	0.0075	0.183	-	0.023		
2008-Nov-01			264	0.05	28	-	1.5	497	286	8.03	-	-	273	-	0.6	1	<0.1	-	9	-	nd	0.11	-	<0.03	0.107	0.377		
2009-Apr-01			222	0.05	17	-	1.4	414	259	8.1	-	-	228	-	2.1	2	<0.1	-	14	-	0.009	0.212	-	0.011	-	<0.0002		
2009-Nov-19			268	0.49	21	212	1.7	574	286	7.96	<0.001	0.15	241	1	2	0.1	0.1	17	-	1.66	-	0.0021	0.241	-	0.015	0.0007		
2010-Apr-14			250	0.08	<3	-	1.1	472	248	7.34	<0.001	-	-	0.45	1.5	0.1	-	9	-	0.1	-	0.0006	0.082	-	0.022	<0.0002		
2010-Oct-21			247	0.22	5	-	1.3	528	287	8.16	<0.001	-	290	-	5.3	2	0.1	-	11	-	0.13	-	0.002	0.201	-	0.01		
2011-Apr-01			240	<0.05	2	144	1.1	476	277	8.16	<0.001	-	262	-	8500	8.0	<0.1	<0.1	12	-	<0.1	-	<0.007	0.117	-	<0.005		
2011-Nov-11			261	<0.05	<2	100	1.1	499	273	7.99	<0.001	-	274	-	1510	0.45	1	0.1	<0.1	9	-	0.04	-	0.0008	0.098	-	0.005	
2012-Apr-18			249	0.05	16	1470	1.2	488	244	8.22	<0.001	40.5	268	125000	4.1	1.1	0.1	<0.1	9	-	-	-	0.0039	0.134	-	0.011		
2012-Oct-02			251	0.255	10	77	1.8	492	265	8.12	-	-	271	-	83000	2.1	1.2	<0.1	9	-	<0.0002	0.28	-	0.0034	0.189	-	0.008	
2013-Jul-23			258	<0.050	<2.0	<10	<1.0	474	252	8.13	<0.010	0.54	272	-	442	0.2	1	<0.1	<0.50	<0.0002	0.05	-	<0.0010	0.142	-	<0.0002		
2013-Oct-23			262	<0.050	<2.0	19	1.5	487	239	8.01	-	-	277	-	555	<0.10	<0.10	9.4	-	<0.0010	-	-	-	-	-	-	<0.010	
2014-Jun-25			231	0.07	<2.0	17	<1.0	478	254	8.07	0.0028	0.186	289	14700	0.32	<0.10	<0.10	11.9	-	<0.0010	<0.010	-	0.0013	0.158	-	<0.010		
2014-Oct-17			271	0.073	<2.0	30	<1.0	422	232	8.02	<0.010	3.1	271	15500	0.31	<0.10	<0.10	10.3	-	<0.0010	<0.010	-	0.0011	0.151	-	0.017		
2015-May-01			266	0.13	3	nd	1.9	484	236	8.1	nd	8.7	276	16300	1.5	2	nd	-	8	-	0.01	-	0.01	0.13	-	<0.0002		
2015-Nov-03			267	0.05	3	31	1.4	506	238	7.9	nd	0.86	312	1280	0.3	1	nd	-	10	-	nd	0.002	-	0.01	0.089	-	0.014	
2016-Nov-15			268	0.05	<2	20	1.6	465	237	7.7	<0.001	0.93	266	1320	0.2	1	<0.1	<0.05	12	-	<0.0010	0.075	-	<0.001	0.101	-	0.016	
2017-Aug-01			276	0.08	<12	100	0.9	461	253	8	<0.001	5.14	274	7460	1	1	<0.1	<0.05	11	-	<0.0010	<0.001	<0.0005	<0.001	0.09	<0.0005		
2017-Nov-13			262	0.04	<2	29	0.5	472	291	7.7	<0.001	0.3	272	442	0.2	1	<0.1	0.586	<0.005	<0.001	0.113	-	<0.0005	0.012	-	<0.0002		
2018-May-30		18-W008	242	0.02	<2	8	5.7	456	237	8.16	<0.001	0.39	236	460	0.3	1.2	<0.05	<0.05	10	-	<0.0002	0.05	<0.0001	0.0005	0.084	-	<0.0001	
2018-Nov-12			239	0.08	4	5	2.8	478	251	8.01	0.002	0.38	247	270	0.2	1.9	0.11	<0.05	10	-	<0.0002	0.05	<0.0002	0.004	0.086	-	<0.0002	
2019-Apr-30		18-W004	228	0.06	<3	8	2.4	462	254	8.06	<0.002	0.29	239	890	0.1	1.1	<0.05	<0.05	10	-	<0.0002	0.04	-	0.0004	0.070	-	<0.0002	
2019-Nov-25		19-W027	229	0.06	<3	22	3.7	463	252	8.02	<0.002	0.47	239	460	0.2	1.1	0.15	<0.05	11	-	<0.0002	0.05	-	0.0004	0.080	-	<0.0002	
2020-Apr-14		20-W010	225	0.03	<3	26	1.4	454	246	7.96	<0.002	1.06	255	700	0.3	1.4	0.09	<0.05	10	-	<0.0002	0.04	-	0.0004	0.075	-	<0.0002	
2020-Oct-20		20-W033	259	0.02	<3	27	1.7	462	257	8.12	<0.002	0.32	239	348	0.2	1.7	<0.05	<0.05	10	-	<0.0002	0.05	-	0.0005	0.093	-	<0.0002	
2001-May-01			260	-	2	-	-	460	210	7.9	-	-	280	-	0.59	2	nd	-	9.3	-	nd	-	nd	0.05	-	nd		
2001-Nov-01			197	-	0.6	-	-	374	206	7.75	-	-	230	-	0.25	0.5	0.3	-	14	-	0.005	-	nd	0.052	-	0.011		
2002-Aug-01			225	-	0.6	-	-	424	213	8.08	-	-	250	-	0.43	2.5	nd	-	10.4	-	0.014	-	nd	0.05	-	0.011		
2003-Jun-01			163	-	-	-	-	247	167	7.11	-	-	184	-	0.24	3.4	nd	-	8.9	-	0.033	-	nd	0.027	-	nd		
2003-Sep-01			244	0.04	2.9	-	3.9	408	240	7.84	-	-	246	-	0.39	2.3	nd	-	10.8	-	nd	-	nd	0.044	-	0.006		
2004-Jun-01			198	0.15	nd	-	4.8	366	177	7.67	-	-	188	-	0.22	1.7	nd	-	11.3	-	0.039	-	nd	0.027	-	nd		
2004-Oct-01			22	-	-	-	5.2	438	225	8.04	-	-	268	-	0.23	3.4	0.2	-	13.8	-	0.036	-	nd	0.03	-	0.011		
2005-Jun-01			225	0.4	nd	-	8.2	410	207	8.23	-	-	640	-	16.7	10.4	nd	-	10.1	-	nd	-	nd	0.028	-	nd		
2005-Oct-01			135	nd	nd	-	8	243	123	8.14	-	-	570	-	5	nd	-	9	-	nd	-	nd	0.01	-	nd			
2006-Apr-01			202	0.17	<2	-	6	370	170	8.1	-	-	233	-	0.2	0.2	0.3	-	8	-	0.014	-	nd	0.042	-	0.036		
2006-Oct-01			101	0.21	<2	-	6.5	222	96	7.6	-	-	140	-	7	0.3	0.3	-	14	-	0.046	-	<0.001	0.016	-	<0.001		
2007-May-01			96	0.12	<2	-	2.9	150	50	6.54	-	5.3	99	-	1.4	3.1	0.2	-	9	-	0.04	-	0.0001	0.013	-	<0.005		
2007-Nov-11			219	-	19	-	4.5	421	183	7.15	-	-	232	-	9.8	2	0.2	-	9	-	0.047	-	0.012	0.21	-	0.007		
2008-Nov-01			104	-	3	-	7.8																					

Location	PARAMETERS		PARAMETERS																											
			Alkalinity	Ammonia	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Total Dissolved Solids	Total Suspended Solids	N-Total Kjeldahl	Chloride	N-Nitrate	N-Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium			
			UNITS	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L	pH units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
			RL (2020)	3	0.01	3	5	5 nd	1	80-100 nd	6.5-8.5 nd	0.002	0.01	3	3	0.1	250 nd	10.0 nd	1.0 nd	500 nd	0.001 nd	0.1 nd	0.003	0.003	1.87	0.002	0.002	0.0015		
			RUL (2020)	446	246	456	576	576	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	
Date	Type	Sample ID	207	0.09	1.6	-	2	421	243	8.22	-	-	286	-	0.29	6.6	nd	-	47.2	-	nd	-	0.002	0.124	-	0.155	nd			
OW 11			2003-Sep-01	211	0.05	nd	-	3.4	471	223	7.93	-	-	290	-	0.25	8.4	0.3	39	-	0.005	-	0.003	0.089	-	0.137	nd			
			2004-Oct-01	222	0.06	nd	-	3.2	500	245	8.29	-	-	306	-	0.25	9.7	0.4	41.5	-	nd	-	nd	0.1	-	1.55	nd			
			2005-Jun-01	209	0.36	nd	-	3.1	476	239	8.18	-	-	326	-	2.9	15.3	0.1	38.8	-	0.005	-	0.005	0.163	-	0.14	nd			
			2006-Oct-01	242	0.2	<2	-	2.8	527	240	8.2	-	-	321	-	3	14	<0.1	33	-	0.017	-	0.003	0.14	-	0.14	<0.0001			
			2007-May-01	224	0.28	<2	-	15.4	472	241	7.79	-	-	312	-	3	13.6	0.1	40	-	0.1	-	0.0032	1.87	-	0.141	<0.00028			
			2010-Apr-14	578	0.28	4	-	6.3	1230	620	7.5	<0.001	-	-	3.2	47.9	<0.1	56	-	0.12	-	0.003	0.217	-	0.454	<0.00002				
			2010-Oct-21	502	0.57	4	-	4.9	1130	603	7.6	<0.001	-	623	-	2.2	46	<0.1	50	-	0.13	-	0.0021	0.233	-	0.428	<0.00002			
			2011-Apr-01	499	0.37	4	-	180	596	596	7.75	<0.001	-	631	21400	1.7	48	<0.1	54	-	0.33	-	0.003	0.241	-	0.439	<0.00002			
			2011-Nov-11	429	0.38	14	-	510	601	601	7.62	<0.001	-	526	156000	2.74	32.9	<0.1	53	-	0.35	-	0.0047	0.189	-	0.344	<0.00002			
			2012-Apr-18	501	0.49	9	1060	5.4	1160	579	7.65	0.007	14.9	637	88000	7.4	49.7	<0.1	64	-	-	-	0.0023	0.21	-	0.377	<0.00002			
			2012-Oct-02	457	0.629	16	241	5	1070	562	7.44	-	-	586	68100	0.7	41.6	<0.01	61	-	0.29	-	0.0031	0.239	-	0.354	0.00011			
			2013-Jul-23	493	0.452	<2.0	23	6.4	1130	645	7.61	<0.0010	2.39	746	19900	0.86	50	<0.50	60	-	0.0010	-	0.0013	0.283	-	0.383	<0.00090			
			2013-Oct-23	474	0.383	<2.0	51	5.7	1060	644	7.53	-	-	626	13500	0.7	43	<0.10	51.9	-	-	-	0.0010	0.208	-	0.352	<0.00090			
			2014-Jun-25	479	0.405	<2.0	30	6.9	1130	552	7.4	0.002	3.35	687	5090	0.9	48.1	<0.10	59	-	0.0010	<0.010	0.001	0.199	-	0.344	<0.00090			
			2014-Oct-17	458	0.45	<2.0	36	5.2	908	399	7.6	<0.0010	3.31	533	6480	0.7	36.6	<0.10	46.7	-	0.0010	<0.010	0.0010	0.157	-	0.313	<0.00090			
			2015-May-07	587	0.46	nd	119	6.6	1200	486	7.6	nd	10.2	724	29000	0.6	nd	nd	66	-	nd	-	0.001	0.246	-	0.397	nd			
			2015-Nov-06	412	0.11	nd	56	8.4	941	548	7.5	0.001	0.53	548	460	0.5	45	nd	46	-	nd	-	0.001	0.187	-	0.274	nd			
	OW 11R1 (compliance)			2016-Nov-15	419	0.37	7	176	4.6	907	440	7.6	<0.001	2.28	486	3670	0.8	35	<0.1	0.09	42	-	0.0010	0.12	-	0.001	0.16	-	0.264	<0.0001
				2017-Aug-01	434	0.62	30	93	3.6	879	452	7.5	<0.001	5.6	540	8090	2	34	<0.1	0.05	39	-	0.0010	0.01	<0.0005	0.199	<0.0005	0.253	<0.0001	
				2017-Nov-13	425	0.59	16	8	8.5	975	451	7.5	<0.001	5.69	510	5630	1.7	38	<0.1	0.3	49	-	0.0010	0.01	<0.0005	0.219	<0.0005	0.231	<0.0001	
			2018-May-30	339	0.81	6	54	8.3	765	352	7.88	<0.001	13.8	400	14000	2.7	25.1	0.17	<0.05	38	-	0.00002	0.06	0.0002	0.0005	0.157	<0.0001	0.255	<0.00015	
			2018-Nov-12	18-W003	353	0.82	9	108	8.9	843	407	7.74	0.005	1.56	445	20500	2.9	29	0.06	<0.05	40	-	0.00002	0.07	0.00005	0.001	0.204	<0.002	0.273	<0.00015
			2019-Apr-30	19-W002	433	0.99	4	390	6.7	1030	527	7.49	<0.002	1.94	561	36000	3.2	41.7	0.44	0.32	49	-	0.00002	0.07	-	0.0012	0.241	<0.002	0.358	<0.00015
			2019-Nov-15	19-W018	382	0.95	6	510	7.8	1060	302	7.68	<0.002	12.1	463	39200	2.7	39.2	0.56	0.3	46	-	0.00002	0.16	-	0.0012	0.278	<0.0002	0.278	<0.00015
			2020-Apr-14	20-W001	370	1.00	<3	80	2.9	863	428	7.54	<0.002	5.46	456	2900	1.9	33.1	0.06	<0.05	38	-	0.00002	0.07	-	0.0007	0.284	<0.002	0.308	<0.00015
			2020-Oct-20	20-W024	388	0.96	<3	82	4.7	842	433	7.91	<0.002	3.16	444	2150	1.5	30.5	<0.05	<0.05	36	-	0.00002	0.10	-	0.0007	0.165	<0.002	0.288	<0.00015
			2020-Sep-01	323	0.06	1.5	-	1.5	579	295	8.16	-	-	300	-	0.18	1.5	0.5	-	13.7	-	0.01	-	0.001	0.114	-	0.085	nd		
OW 12 (compliance)			2004-Jun-01	323	nd	nd	-	0.6	292	8.05	-	-	316	-	0.7	1.3	0.7	-	10.3	-	0.007	-	0.01	0.113	-	0.083	nd			
			2004-Oct-01	318	nd	nd	-	2.4	574	288	8.32	-	-	340	-	0.22	1.2	0.3	-	11.4	-	0.015	-	nd	0.114	-	0.061	nd		
			2005-Jun-01	352	0.49	nd	-	1	600	295	8.14	-	-	339	-	3.2	4.72	0.8	-	10.2	-	nd	-	nd	0.113	-	0.05	nd		
			2005-Oct-01	333	0.12	nd	-	1.2	560	292	8.32	-	-	535	-	4	1	nd	-	17	-	0.005	-	nd	0.11	-	0.042	nd		
			2006-Oct-01	410	8	2	-	388	380	8.2	-	-	382	380	2	2	2	8	-	8	-	0.001	<0.005	0.14	-	0.047	<0.0002			
			2008-Jul-11	321	8	-	2	604	320	7.69	-	-	332	-	2	3	0.8	-	26	-	0.05	-	0.0012	0.14	-	0.047	<0.0002			
			2009-Apr-01	330	<0.05	<2	-	1.5	652	342	7.49	-	-	359	10400	1	2	-	<0.1	16	-	0.08	-	0.0006	0.098	-	0.039	<0.0002		
			2010-Oct-21	339	0.09	<2	-	1.3	750	366	8.14	<0.001	-	413	1000	0.2	2	0.3	-	13	-	0.16	-	0.0011	0.141	-	0.065	<0.0002		
			2011-Nov-11	359	<0.05	4	30	0.3	374	458	8.04	<0.001	0.34	458	0.2	1.5	0.3	<0.1	11	-	0.31	-	0.001	0.135	-	0.058	<0.00015			
			2012-Apr-18	361	0.08	3	<5	0.9	675	315	8.19	<0.001	2.98	371	1140	1.1	1.7	0.3	<0.1	14	-	-	-	0.0007	0.103	-	0.057	0.00004		
			2012-Oct-02	333	0.035	6	<5	1.3	628	335	8	-	-	345	2770	0.3	2.2	-	-	13	-	0.00002	0.21	-	0.001	0.127	-	0.067	0.0001	
			2013-Jul-23	381	<0.050	<2.0	<10	<1.0	644	349	8.24	<0.0010	0.77	372	1770	<0.15	<10	<0.50	<0.50	11	-	0.0010	<0.010	0.0010	0.158	-	0.058	<0.00090		
			2013-Oct-23	390	<0.050	<2.0	13	1.4	669	352	7.99	<0.0010	1.2	369	1030	0.16	1.3	-	-	10.3	-	-	-	0.0010	0.133	-	0.059	<0.00090		
			2014-Jun-25	337	<0.050	<2.0	<10	<1.0	653	8.06	<0.0010	1.39	354	2530	<0.15	<2.0	0.13	<0.10	14.6	-	0.0010	<0.010	-	0.0010	0.12	-	0.055	<0.00090		
			2014-Oct-17	361	0.06	<2.0	12	<1.0	615	284	8.07	<0.0010	1.79	316	5370	<0.15	<2.0	0.10	11.6	-	0.0010	<0.010	-	0.0010	0.112	-	0.063	<0.00090		

Location	PARAMETERS	UNITS	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Un-ionized (field)*	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
			0.02	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.02	0.02	0.01	0.01	0.1	0.01	0.01	0.0001	0.001	0.001	0.00005	0.05	0.005	0.01	0.0005	0.0001	0.005	5.40	6.5 - 8.5	15.40		0.001
			RUL (2020)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
OW 11	Date	Type	Sample ID	65.1	nd	-	0.0006	nd	nd	0.034	-	-	3.7	-	-	nd	10.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2003-Sep-01			59	nd	-	0.0006	nd	0.0011	-	-	-	2.2	-	-	nd	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
OW 12	Date	Type	Sample ID	42.7	nd	-	0.0011	nd	0.0014	-	-	-	4.5	-	-	nd	18	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2003-Sep-01			38.3	nd	-	0.0008	nd	0.001	-	-	-	2.1	-	-	nd	19.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OW 13	Date	Type	Sample ID	69.5	nd	-	0.0009	nd	0.036	-	-	-	3.0	-	-	nd	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2003-Sep-01			96.3	nd	-	0.0008	nd	0.0011	-	-	-	2.5	-	-	nd	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OW 14	Date	Type	Sample ID	166	<0.002	-	<0.002	1.82	0.00018	-	-	-	5	-	-	nd	54.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2011-Nov-11			133	0.0012	-	0.0009	2.99	0.00026	-	-	-	3.6	-	-	nd	45.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW101	Date	Type	Sample ID	97.1	<0.001	0.0008	0.0004	0.198	0.00009	23.6	0.156	<0.01	<0.01	3.1	-	6.24	<0.0001	10.7	1.62	<0.00005	<0.05	<0.005	<0.01	0.0148	0.0006	<0.005	7.35	7.96	0.00	6.86	<0.001
	2020-Apr-15			90.5	<0.001	0.0008	0.0004	0.198	0.00009	22.9	0.157	<0.01	<0.01	3.2	-	6.40	<0.0001	10.5	1.53	<0.00005	<0.05	<0.005	<0.01	0.0140	0.0002	<0.005	7.13	13.38	6.12	0.622	<0.001

Notes: * - denotes not analyzed
 "RL" denotes reporting limit
 "<" denotes results below reporting limit
 "OW#" and "MW#" denotes overburden monitoring well
 "DUP" denotes duplicate sample
 "LF" denotes low flow sampling method used
 groundwater samples analyzed for metals were field filtered using 0.45 micron filters
 pH the local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
 [1] Un-ionized Ammonia calculated using field parameters for pH and temperature
 AO indicates aesthetic objective OG indicates operational guideline CS Chemical standards
 Malroz was not able to denote concentration exceeds the Ontario Drinking Water Standards

Data input: MW
Data Check: CMM

Location	PARAMETERS	UNITS																																	
		RL (2020)																																	
		PWQO (mg/L)																																	
		Table A: Aquatic Protection Value (mg/L)																																	
		Table B: Canadian Water Quality Guideline (mg/L)																																	
Date	Type	Sample ID	Alkalinity	Ammonia	Ammonia, un-ionized	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Phosphorus, total (resolved phosphate)	TDS	TSS	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium				
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
			5	0.01	0.01	3	5	0.2	1	1	6.5-8.5	0.001	0.01	0.002	3	3	0.1	0.5	0.05	0.05	1	0.0002	0.01	0.0001	0.0001	0.001	0.002	0.005	0.000015	0.02	0.001				
			(note a)	0.020							6.5-8.5	0.001	0.02					180			100	0.0002	0.075	0.02	0.005		(note d)	0.200	0.0005	(note f)					
				0.100							6.0-9.0	0.04 ^(b)							2.9	0.06							1.50	0.000017							
SW4	2003-Sep-01		181	nd	nd	0.7	-	4.4	404			nd	-	262	12	0.37	12.7	0.4	nd	28	-	1.23	-	nd	0.094	-	0.016	nd	52.4	nd					
	2004-Jun-01	DUP	152	0.03	nd	0.8	-	9	314			0.074	-	196	19	0.57	7.5	nd	-	10.6	-	1.13	-	nd	0.062	-	0.015	nd	40.3	nd					
	2004-Oct-01		138	0.04	nd	nd	-	12.6	361			0.264	-	264	147	1.14	15.9	nd	-	32.1	-	7.82	-	nd	0.154	-	0.01	0.0001	43.5	0.012					
	2005-Jun-01		173	0.29	nd	nd	-	3.7	388			0.091	-	261	31	0.6	15.2	nd	-	16.7	-	1.6	-	nd	0.077	-	0.02	nd	45.5	nd					
	2005-Oct-01		121	0.07	nd	nd	-	4.3	249			0.041	-	188	8	0.4	7	nd	-	9	-	0.48	-	nd	0.044	-	nd	nd	33	nd					
	2006-Apr-01		228	nd	nd	nd	-	5	565			0.3	-	371	630	0.5	51	nd	-	12	-	0.001	0.22	-	0.001	0.22	-	0.013	0.0002	79	0.021				
	2006-Oct-01		101	0.16	<0.02	<2	-	12.7	262			0.071	-	180	<1	1.1	7	0.2	-	23	-	1.1	-	nd	<0.001	0.053	-	0.014	<0.0001	31	<0.005				
	2007-May-01		164	<0.05	<0.05	<2	-	6.2	363			0.01	-	240	5	0.6	7.1	0.1	-	9	-	0.14	-	nd	<0.0005	0.046	-	0.018	<0.0001	45.3	<0.002				
	2007-Oct-01		160	0.1	<0.05	<2	-	14.5	556			0.01	-	357	1.4	1.4	7.9	0.1	-	88	-	0.3	-	nd	<0.05	0.062	-	0.012	<0.0005	60	<0.002				
	2008-Jul-11		151	<0.05	<0.05	<2	-	2.3	380			0.01	-	209	22	0.1	19	0.2	-	11	-	0.39	-	nd	<0.0005	0.088	-	0.011	<0.0001	33.2	<0.002				
	2008-Nov-01		99	<0.05	<0.05	<2	-	10	258			0.03	-	142	8	0.9	8	0.3	-	14	-	1.34	-	nd	<0.0005	0.056	-	<0.005	<0.005	29.4	0.005				
	2009-Apr-01		107	<0.05	<0.05	<2	-	27	9.5	253			0.11	-	139	28	0.6	8	0.2	-	8	-	0.00002	-	<0.0005	0.056	-	0.012	<0.0005	49	<0.001				
	2009-Nov-19		160	<0.05	<0.05	<2	-	28	8.5	400			0.01	-	220	<2	0.6	14	0.1	-	<0.1	9	-	nd	<0.0002	0.24	-	<0.0005	<0.001	43.5	<0.002				
	2010-Jul-01		153	0.07	<0.05	<2	-	53	19.9	336			0.07	-	8	1.2	4	0.1	-	<0.1	9	-	0.48	-	nd	0.001	0	-	0.019	0.0001	41	<0.002			
	2010-Oct-19		104	<0.01	<0.01	<2	-	33	12	257			0.04	-	141	2	0.5	6	0.1	-	<0.1	13	-	<0.0002	0.67	-	<0.0005	0.047	-	0.013	0.0001	27.7	<0.002		
	2011-Apr-01		83	<0.01	<0.01	<2	-	30	7.5	253			0.05	-	169	8	1.6	6	0.1	-	<0.1	32	-	<0.0002	0.48	-	<0.0005	0.041	-	0.013	0.0002	6	0.003		
	2011-Nov-11		166	<0.01	<0.01	<2	-	39	10.1	389			0.05	-	214	10	0.68	7.4	0.1	-	<0.1	18	-	0.0005	0.05	-	0.0002	0.071	-	0.011	0.0004	55.5	<0.002		
	2012-Apr-19		193	<0.01	<0.01	<2	-	10	9.7	419			0.09	-	230	6	0.3	8.4	0.1	-	<0.1	12	-	<0.0002	0.01	-	0.0004	0.044	-	0.04	0.0003	-	<0.002		
	2012-Oct-20		162	0.04	<0.01	<3	-	14.3	453			0.05	-	241	8	0.4	15.2	0.4	-	<0.1	5.2	-	0.0003	0.45	-	0.0003	0.075	-	<0.005	<0.0003	59.2	0.003			
	2013-Jun-22		208	0.641	0.00336	<2.0	40	-	462			0.001	0.321	-	262	94	15.3	19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	2013-Jul-22	DUP	205	0.664	0.00348	<2.0	51	-	463			0.002	0.328	-	258	101	1.5	19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
	2013-Oct-23		144	0.129	0.00051	<2.0	42	-	358			<0.010	0.06	-	244	4	0.91	10.3	0.11	-	<0.10	29.1	-	<0.010	1.17	-	<0.010	0.1747	-	0.015	<0.00090	44.3	0.00177		
	2014-Jun-12		107	0.06	0.00029	2.1	54	-	228			0.0012	0.212	-	169	8	1.26	6.4	<0.10	<0.10	<0.10	5.2	-	<0.010	1.52	-	<0.010	0.4969	-	0.012	<0.00090	27.7	0.00128		
	2014-Jun-12	DUP	102	0.639	0.00328	<2.0	63	-	228			<0.010	0.189	-	162	11	1.18	6.4	<0.10	<0.10	<0.10	5.5	-	<0.010	1.3	-	<0.010	0.4443	-	0.02	<0.00090	28.4	0.00189		
	2014-Oct-16		163	<0.050	<0.00022	2.7	78	-	18.8	340			<0.010	0.113	-	261	93.3	1.77	14.9	0.2	-	<0.10	2.8	-	<0.010	3.23	-	<0.010	0.103	-	0.028	0.000118	45.2	0.0045	
	2015-May-27		194	0.1	<0.05	<2	42	-	7.2	8			0.003	0.18	-	117	nd	nd	nd	nd	nd	nd	-	nd	0.607	-	nd	nd	0.022	-	0.016	0.0004	57.1	<0.002	
	2015-Nov-06		172	0.03	0.0005	nd	29	-	12.1	7.6			nd	0.04	nd	266	4	0.7	21	0.3	-	nd	-	nd	0.002	0.003	-	nd	0.073	-	0.023	nd	50.9	nd	
	2016-Nov-09		100	0.06	-	3	38	-	9.8	391			<0.001	0.09	0.01	252	26	1.2	17	<0.1	<0.05	67	-	<0.0010	-	-	<0.001	0.066	-	0.017	<0.0001	41.9	<0.001		
	2017-Aug-01		151	0.23	0.003	9	103	-	32.4	288			0.005	0.19	0.05	242	85	2.7	3	<0.1	<0.05	9	-	<0.0010	0.251	-	<0.0005	0.001	0.089	-	<0.0005	0.058	0.0001	40.7	0.001
	2017-Nov-13		129	0.05	0.0004	8	34	-	8.9	271			<0.001	0.03	0.01	180	8	0.6	6	<0.1	<0.05	13	-	<0.0010	0.233	-	<0.0005	0.043	<0.0005	0.025	<0.0001	32.8	<0.001		
	2018-May-30		167	0.05	<0.01	<2	35	-	10.4	369			<0.001	0.14	0.05	190	10	0.9	12.1	<0.05	<0.05	8	-	<0.0002	<0.01	0.0004	0.0006	0.045	<0.0001	0.02	0.000015	40.2	<0.001		
	2018-Nov-12		121	0.04	<0.01	6	31	-	13.5	343			<0.002	0.11	0.07	176	4	0.8	16.3	0.79	<0.05	28	-	<0.0002	0.05	0.0003	0.0003	0.082	<0.002	0.008	0.00028	46	0.001		
	2019-Apr-01		99	0.07	<0.01	<3	39	-	13.8	236			<0.001	0.10	0.038	121	12	1.0	8.2	<0.05	5	-	<0.0002	0.03	-	<0.0001	0.0003	0.040	<0.002	0.009	<0.00041	29.3	0.002		
	2019-Nov-25		93	0.04	<0.01	<3	18	-	10	236			<0.001	0.06	0.054	121	<3	0.6	8.2	0.19	<0.05	12	-	0.0002	0.06	-	0.0002	0.043	-	0.008	0.00035	27.6	0.001		
	2020-Apr-14		91	0.06	<0.01	<3	12	-	10.0	222			<0.001	0.18	0.118	113	22	1.1	8.0	0.21	<0.05	6	-	<0.0002	0.08	-	0.0003	0.069	-	0.092	0.00044	33.5	0.002		
	2020-Oct-20		235	0.04	<0.01	<3	40	-	14.3	453			<0.001	0.35	0.255	52	1.7	21.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0002	0.03										

Location	PARAMETERS		UNITS																													
			mg/L (2020)																													
			RWQO (mg/L)																													
			Table A: Aquatic Protection Value (mg/L)																													
Date		Table B: Canadian Water Quality Guideline (mg/L)																														
Type	Sample ID	Alkalinity	Ammonia	Ammonia, un-ionized	BOD	COD	DOC	Conductivity	Hardness	pH	Phenols	Phosphorus (total)	Phosphorus, total (dissolved phosphate)	TDS	TSS	N - Total Kjeldahl	Chloride	N - Nitrate	N - Nitrite	Sulphate	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium		
		5	0.01	0.01	3	5	0.2	1	1		0.001	0.01	0.002	3	3	0.1	0.5	0.05	0.05	1	0.0002	0.01	0.0001	0.0001	0.001	0.001	0.001	0.0015	0.02	0.001		
		(note a)	0.020							6.5-8.5	0.001	0.02					180	2.9	0.06	100				0.15	2.300	3.550	0.00021	0.02	0.001			
				0.100						6.0-9.0	0.04 ^(b)						128	2.9	0.06					0.15	2.300	3.550	0.00017		0.064			
SW7	2003-Sep-01		26	0.13	nd	2.6	-	15.5	79	-	-	0.232	-	76	157	0.96	2.4	nd	nd	7.4	-	5.15	-	nd	0.077	-	0.026	0.001	8.4	0.017		
	2004-Jun-01		48	nd	nd	3	-	8.4	112	-	8.4	0.252	-	84	64	0.59	1.6	nd	nd	5.2	-	6.93	-	nd	0.098	-	0.009	0.002	13	0.008		
	2004-Oct-01		49	0.08	nd	0.2	-	11.5	137	-	11.5	0.106	-	106	32	0.086	9.7	nd	nd	5.3	-	1.91	-	nd	0.035	-	nd	nd	12.9	nd		
	2005-Oct-01		89	nd	nd	nd	-	10.1	278	-	10.1	0.044	-	170	2	0.7	31	nd	-	9	-	0.16	-	nd	0.028	-	0.012	nd	23	nd		
	2006-Apr-01		263	2.27	nd	6	-	29.9	469	-	29.9	2.2	-	295	4100	2	8	nd	-	nd	-	110	-	0.012	1.6	-	0.059	0.003	120	0.18		
	2006-Oct-01		35	0.18	-0.02	-2	-	11.3	111	-	11.3	1.6	-	74	780	6	3	-	-	14	-	33	-	0.002	0.41	-	0.015	0.0015	20	0.052		
	2007-May-01		194	0.53	-0.05	42	-	15.3	464	-	15.3	18.1	-	396	3750	80	38.4	-	-	-	-	0.01	-	0.0088	1.89	-	0.1	0.002	31.2	0.06		
	2007-Oct-01		56	0.17	-0.05	-2	-	18.3	622	-	18.3	0.07	-	410	20	1	0.086	-	-	-	102	-	1.15	-	-0.02	0.078	-	0.041	-0.0005	44.7	0.002	
	2008-Jul-11		95	-0.05	-0.05	3	-	17	432	-	17	0.07	-	238	6	0.9	69	-	-	-	8	-	0.03	-	0.0007	0.04	-	0.019	-0.0001	20.5	-0.002	
	2008-Nov-01		80	-0.119	-0.05	13	-	4.4	14.9	-	4.4	0.003	0.1	-	166	-	0.5	21	-	-	10	-	0.21	-	-0.03	0.027	-	-0.005	-0.005	25.2	0.003	
	2009-Apr-01		63.4	-0.05	-0.05	-2	18	7.9	300	-	7.9	0.01	-	165	2	0.4	46	0.1	-0.1	7	-	-0.0002	0.056	-	-0.0005	0.026	-	0.011	0.001	22.4	-0.001	
	2009-Nov-19		100	-0.05	-0.05	-2	38	11.9	350	-	11.9	-0.001	-0.01	-	192	-	0.9	42	-0.1	-0.1	11	-	0.04	-	-0.0005	0.027	-	0.005	-0.001	25.4	-0.002	
	2010-Jul-01		89	0.06	-0.05	2	38	14.1	266	-	14.1	-0.001	0.16	-	8	0.7	24	-	-	1	-	-	-	-0.0005	0.033	-	0.019	0.002	23.6	-0.002		
	2010-Oct-01		72	-0.01	-0.01	-2	29	11.3	221	-	11.3	-0.001	0.03	-	122	8	0.4	18	-0.1	-0.1	6	-	-0.0002	0.12	-	-0.0002	0.021	-	0.014	-0.001	18	-0.002
	2011-Apr-01		59	-0.05	-0.05	-2	20	6.6	235	-	6.6	-0.001	0.02	-	129	2	0.4	27	-0.1	-0.1	6	-	-0.0002	0.27	-	0.0001	0.026	-	0.01	-0.0002	20.7	0.002
	2011-Apr-01	DUP	59	-0.05	-0.05	-2	18	6.4	238	-	6.4	-0.001	0.01	-	131	6	0.3	28	0.1	-0.1	6	-	-0.0002	0.28	-	0.0002	0.026	-	0.008	-0.0002	20.7	-0.002
	2011-Nov-11		96	0.04	-0.01	-2	35	14	289	-	14	-0.001	0.02	-	155	40	0.2	24	-	-	10	-	0.02	-	-0.0002	0.024	-	-0.005	-0.0002	23.6	0.004	
	2012-Apr-18		98	-0.01	-0.01	5	18	8.5	322	-	8.5	-0.001	0.1	-	177	4	0.9	34.3	-0.1	-0.1	5	-	-0.0002	-0.01	-	0.0003	0.02	-	0.012	0.0003	-	-0.002
	2012-Apr-18	DUP	97	-0.01	-0.01	5	15	8.6	322	-	8.6	-0.001	0.07	-	177	4	0.8	34.3	0.2	-0.1	5	-	-0.0002	-0.01	-	0.0003	0.02	-	0.011	-0.0002	-	-0.002
	2012-Oct-04		80	0.119	-0.05	13	44	14.9	351	-	14.9	0.003	1.17	-	468	78	5.1	133	-	-	141	-	-	-	-0.0002	0.6	-	0.121	-0.0004	65.4	-0.002	
	2012-Oct-04	DUP	83	0.104	-0.005	9	44	10.3	822	-	10.3	-0.001	0.72	-	452	70	2.8	134	0.1	-0.1	128	-	-0.0002	0.54	-	0.0006	0.092	-	0.109	0.0004	64	0.002
	2013-Jul-22		107	-0.050	-0.00015	-2.0	30	30	301	-	30	-0.001	0.095	-	194	22.8	1	33	-0.50	-0.10	-0.001	0.092	-	-0.001	0.0221	-	0.015	-0.00090	26.4	-0.00050		
	2013-Oct-23		111	0.122	0.00048	-2.0	38	18.2	340	-	18.2	-0.001	0.04	-	198	-2.0	0.65	39.5	-0.10	-0.10	7.3	-	-0.0010	0.034	-	-0.0010	0.0275	-	0.013	-0.00090	28.6	-0.00050
	2013-Oct-23	DUP	104	0.124	0.00049	-2.0	38	18.4	341	-	18.4	-0.001	0.041	-	199	-2.0	0.65	39.5	-0.10	-0.10	7.2	-	-0.0010	0.034	-	-0.0010	0.028	-	0.013	-0.00090	28.6	-0.00050
	2014-Jun-12		117	0.123	0.00064	-2.0	39	<10	327	-	<10	-0.001	0.211	-	204	3.6	1.04	35.3	-0.10	-0.10	3.7	-	-0.0010	0.065	-	-0.0010	0.0335	-	0.02	-0.00090	33.9	-0.00050
	2014-Oct-16		109	-0.050	-0.00024	-2.0	45	15.4	290	-	15.4	-0.001	0.032	-	188	6	0.84	33.1	-0.10	-0.10	5.3	-	-0.0010	0.02	-	-0.0010	0.026	-	0.016	-0.00054	24.2	-0.00050
	2015-May-27		107	0.13	-0.02	-2	46	20.6	311	-	20.6	0.002	0.13	0.01	296	9	1.02	60	-0.1	-0.1	143	-	-	-	-0.0002	0.029	-	0.012	0.002	23.9	0.004	
	2015-Nov-06		98	0.04	0.0004	nd	31	12.6	7.4	-	12.6	0.02	0.01	217	82	0.6	72	nd	nd	2	-	-	-	-	-	-	-	0.014	nd	28.3	nd	
2015-Nov-06	DUP	93	0.04	0.0004	nd	30	12.5	7.3	-	12.5	0.02	0.01	227	37	0.6	71	nd	nd	10	-	-	-	-	-	-	-	0.013	nd	28.9	nd		
2016-Nov-09		20.08	0.06	0.0004	nd	40	18	7.4	88	-	0.008	0.11	0.07	372	5	1.08	105	-0.1	-0.1	64	-	-0.0010	0.025	-	-0.0010	0.025	-	0.001	0.023	23.9	-0.001	
2017-Aug-01		95	0.05	0.0008	-2	48	17.2	230	-	17.2	0.003	0.06	0.03	110	3	0.8	17	-0.1	-0.05	1	-	-	-	-0.0005	-0.0005	-0.001	0.023	-0.0005	23.9	-0.001		
2017-Nov-13		76	0.04	0.0004	-2	32	11	198	-	11	-0.001	0.11	-0.01	140	6	0.5	14	-0.1	-0.05	6	-	-0.0010	0.059	-0.0005	-0.001	0.017	-0.0005	0.016	-0.0001	18.1	-0.001	
2018-May-30		105	0.03	0.001	-2	39	13.2	447	7.69	13.2	-0.001	0.11	0.04	231	6	0.8	77.7	-0.05	-0.05	1	-	-0.0002	0.01	-0.0001	0.004	0.03	< 0.0001	0.016	< 0.00015	27.5	-0.001	
2018-Nov-12		92	0.04	0.001	-2	35	11.4	458	-	11.4	-0.001	0.03	0.02	251	-3	0.6	39.3	-0.1	-0.1	14	-	-0.0002	0.08	-0.0001	0.002	< 0.0002	0.038	< 0.0002	33.3	0.001		
2019-Apr-30		59	0.07	-0.01	-3	30	7.75	7.6	7.75	7.6	-0.001	0.03	0.015	142	-3	4.4	20.5	-0.05	-0.05	5	-	-0.0002	0.02	0.0001	0.0002	0.023	< 0.0002	0.009	< 0.00015	19.7	0.002	
2019-Nov-25	19-W016	68	0.05	-0.01	-3	20	10.2	209	7.4	10.2	-0.001	0.02	0.022	107	-3	4.4	20.5	0.11	-0.05	6	-	-0.0002	0.05	-	0.0001	0.021	-	0.008	< 0.00015	20.2	-0.001	
2020-Apr-14	20-W034	78	0.03	-0.01	-3	15	8.8	328	9.6	8.8	-0.001	0.05	0.048	168	-3	0.5	51.2	-0.05	-0.05	5	-	-0.0002	0.02	-	0.0002	0.042	-	0.098	< 0.00015	31.8	-0.001	
2020-Oct-20	20-W039	127	0.02	-0.01	-3	38	6.6	652	151	6.6	-0.001	0.09	0.014	339	5	1.1	121	-0.05	-0.05	6	-	-0.0002	-0.01	-	0.0004	0.051	-	0.008	0.00017	43.8	0.001	
SW8	2004-Jun-01		128	0.05	nd	2.6	-	27.5</																								

Location	PARAMETERS	UNIT	Cadmium	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	pH (field)	Temperature (field)	Dissolved Oxygen (field)	Conductivity (field)	Ammonia, Unionized (field)		
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	°C	mg/L	mS/cm	mg/L	
			RL (R228)	0.0001	0.0001	0.005	0.0002	0.02	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.0001	0.2	0.001	0.00005	0.05	0.005	0.01	0.0005	0.005	0.005					0.001
			PWQO (mg/L)	0.0009	0.0005 ²	0.3	0.005 ²			0.04	0.025			0.1		0.0001			0.0003	0.05	0.005	0.03	0.005	0.006	0.02	6.5-8.5		(note 1)		0.02
			Table A: Aquatic Protection Value (mg/L)	0.0069	1.000	0.002																			0.089	6.0-9.0				
Table B: Canadian Water Quality Guideline (mg/L)																							0.030							
Date	Type	Sample ID																												
2001-Jun-01			0.001	0.018	2	0.005	11	0.075	-	nd	1.8	-	-	0.0006	11	-	-	-	-	-	-	-	-	-	-	-	-	0.06		
2001-Nov-01			0.0007	0.0035	1.29	0.0008	37	0.069	-	0.003	6.3	-	-	nd	43.1	-	-	-	-	-	-	-	-	-	-	-	-	0.011		
2003-Jun-01			0.0024	0.006	5.76	0.0029	0.282	13.6	-	0.005	3.3	-	-	nd	9.6	-	-	-	-	-	-	-	-	-	-	-	-	0.024		
2003-Sep-01			0.0008	0.016	18.6	0.012	13.6	0.279	-	0.017	7	-	-	nd	4.2	-	-	-	-	-	-	-	-	-	-	-	-	0.065		
2004-Jun-01			0.0008	0.0027	1.98	0.0013	12.7	0.08	-	0.002	5.6	-	-	nd	8	-	-	-	-	-	-	-	-	-	-	-	-	0.02		
2004-Oct-01			0.0013	0.0035	2.97	0.0015	11.9	0.174	-	0.003	10.7	-	-	nd	9.6	-	-	-	-	-	-	-	-	-	-	-	-	0.019		
2005-Oct-01			0.0074	0.015	19	0.0098	12	1	-	0.013	8.7	-	-	nd	6.4	-	-	-	-	-	-	-	-	-	-	-	-	0.064		
2006-Apr-01			-	0.004	2.6	0.0015	16	0.1	-	0.002	5.1	-	-	nd	12	-	-	-	-	-	-	-	-	-	-	-	-	0.012		
2006-Oct-01			-	0.012	17	0.0072	12	0.67	-	0.01	7.1	-	-	<0.0001	7.6	-	-	-	-	-	-	-	-	-	-	-	-	0.055		
2006-Oct-01	DUP		-	0.009	13	0.0058	11	0.58	-	0.007	6.7	-	-	<0.0001	7.7	-	-	-	-	-	-	-	-	-	-	-	-	0.046		
2007-May-01			-	0.05	0.993	0.0218	10.9	0.713	-	0.02	4.6	-	-	<0.0001	19.4	-	-	-	-	-	-	-	-	-	-	-	-	0.227		
2008-Nov-01			-	<0.002	1.27	<0.02	11.6	0.251	-	<0.01	14.1	-	-	<0.005	13.6	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2009-Apr-01			<0.0005	0.0754	1.04	0.0002	12	0.104	-	<0.01	5.6	-	-	<0.0001	12.9	-	-	-	-	-	-	-	-	-	-	-	-	0.1		
2009-Nov-19			-	0.0027	4.01	-	10.8	0.598	-	<0.01	11.3	-	-	<0.0001	11.3	-	-	-	-	-	-	-	-	-	-	-	-	0.02		
2010-Jul-10			-	0.0085	5.37	-	6.86	0.339	-	0.033	1.5	-	-	<0.0001	1.8	-	-	-	-	-	-	-	-	-	-	-	-	0.275		
2010-Jul-10	DUP		-	0.0022	2.48	-	5.74	0.221	-	0.01	0.9	-	-	<0.0001	2.5	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2010-Oct-19			<0.0005	0.002	0.845	0.0003	7.8	0.289	-	<0.01	7.5	-	-	<0.0001	7.3	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2010-Oct-19	DUP		<0.0005	0.001	0.995	0.0003	7.77	0.291	-	<0.01	7.5	-	-	<0.0001	7.2	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2011-Apr-01			<0.0001	0.0008	0.599	0.00007	7.11	0.015	-	<0.01	2.8	-	-	<0.0002	7.4	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2011-Nov-11			0.0002	0.0011	0.571	0.00051	13	0.085	-	<0.01	7.8	-	-	<0.0002	15	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2012-Apr-19			0.0006	0.018	0.00003				-			-	-			-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2013-Oct-23			<0.00050	0.002	2.03	0.00121	6.96	0.0523	-	<0.010	8.6	-	-	<0.0010	8.29	-	-	-	-	-	-	-	-	-	-	-	-	0.038		
2014-Jun-12			0.00069	0.002	2.03	0.00121	6.96	0.0523	-	<0.010	8.6	-	-	<0.0010	8.29	-	-	-	-	-	-	-	-	-	-	-	-	0.0339		
2014-Oct-16			0.0025	0.009	5.27	0.00323	8.39	0.197	-	0.006	7.2	-	-	<0.0010	10.3	-	-	-	-	-	-	-	-	-	-	-	-	0.402		
2014-Oct-16	DUP		0.0026	0.0072	5.81	0.00305	8.27	0.202	-	0.0064	7.3	-	-	<0.0010	3.99	-	-	-	-	-	-	-	-	-	-	-	-	0.0231		
2015-Nov-03			0.0013	0.0043	2.68	0.002	8.36	0.066	-	0.003	13.9	-	-	nd	10.1	0.095	-	-	-	-	-	-	-	-	-	-	-	0.014		
2001-Jun-01			0.001	0.0035	8.2	0.005	46	0.31	-	0.005	35	-	-	nd	50	-	-	-	-	-	-	-	-	-	-	-	-	0.09		
2001-Nov-01			0.0004	0.0027	19.3	0.0022	39	0.54	-	0.002	10.8	-	-	0.0002	45.5	-	-	-	-	-	-	-	-	-	-	-	-	0.077		
2003-Jun-01			0.0019	0.003	2.69	0.0038	1.24	48.7	-	0.005	19.1	-	-	nd	57	-	-	-	-	-	-	-	-	-	-	-	-	0.076		
2003-Sep-01			0.0005	0.0019	20.6	0.0013	53.3	0.831	-	0.002	20.6	-	-	nd	58.7	-	-	-	-	-	-	-	-	-	-	-	-	0.029		
2005-Oct-01			0.0021	0.005	17	0.0027	32	0.54	-	0.006	8.4	-	-	nd	39	-	-	-	-	-	-	-	-	-	-	-	-	0.051		
2005-Oct-01			0.0013	0.003	16	0.0017	34	0.57	-	0.005	8.7	-	-	nd	43	-	-	-	-	-	-	-	-	-	-	-	-	0.048		
2006-Apr-01			-	0.011	43	0.0058	53	0.73	-	0.009	12	-	-	nd	42	-	-	-	-	-	-	-	-	-	-	-	-	0.096		
2006-Oct-01			-	0.003	11	0.0017	34	0.51	-	0.004	7.5	-	-	<0.0001	60	-	-	-	-	-	-	-	-	-	-	-	-	0.061		
2007-May-01			-	0.02	17.9	0.0041	57.9	1.16	-	<0.01	12.6	-	-	<0.0001	58.7	-	-	-	-	-	-	-	-	-	-	-	-	0.025		
2008-Nov-01			-	0.003	29.9	<0.02	34.2	0.578	-	<0.01	9.3	-	-	<0.005	41.5	-	-	-	-	-	-	-	-	-	-	-	-	0.049		
2009-Apr-01			<0.0005	0.0012	21.2	0.0006	42	0.582	-	<0.01	9.6	-	-	<0.0001	41.3	-	-	-	-	-	-	-	-	-	-	-	-	0.018		
2009-Nov-19			-	0.0043	45	-	29.7	0.479	-	<0.01	8.4	-	-	<0.0001	40.4	-	-	-	-	-	-	-	-	-	-	-	-	0.121		
2010-Jul-01			-	0.0063	24.3	-	40.7	0.558	-	0.03	10.9	-	-	<0.0001	35.8	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2010-Oct-19			<0.0005	0.0184	8.26	0.0096	27.5	0.327	-	<0.01	7.2	-	-	<0.0001	33.2	-	-	-	-	-	-	-	-	-	-	-	-	<0.005		
2011-Apr-01			0.0006	0.0049	11.3	0.00195	29.7	0.401	-	<0.01	6.3	-	-	<0.0002	34	-	-	-	-	-	-	-	-	-	-	-	-	0.059		
2011-Nov-11			0.0001	0.0005	29.1	0.00036	40.1	0.385	-	<0.01	8.4	-	-	<0.0002	50.9	-	-	-	-	-	-	-	-	-	-	-	-	0.013		
2014-Jun-12			0.00091	<0.0010	5.93	<0.00050	37.2	0.702	-	0.0026	8.2	-	-	<0.0010	33	-	-	-	-	-	-	-	-	-	-	-	-	<0.0030		
2014-Oct-16			0.00065	0.0017	15.4	0.00083	35.3	0.418	-	0.0027	11.9	-	-	<0.0010	38.4	-	-	-	-	-	-	-	-	-	-	-	-	0.0138		
2015-May-27			0.0029	0.0051	29.5	0.0053	52.9	0.424	-	0.004	14.3	-	-	nd	50.1	0.516	-	-	-	-	-	-	-	-	-	-	-	0.0081		
2015-May-27	DUP																													

Historical Groundwater VOC Analyses

Monitoring Location	Parameters	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	Dichlorodifluoromethane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	1,2-Dichloroethylene, total	1,2-Dichloropropane	cis-1,3-Dichloropropylene	trans-1,3-Dichloropropylene	1,3-Dichloropropene, cis+trans	cis-1,2-Dichloroethylene	cis-1,2-Dichloroethylene	1,2-Dibromo-3-Chloropropane	1,3-Dichloropropane	2,2-Dichloropropane			
		Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
		RL (2020)	30	0.5	-	2	5	0.5	0.2	0.5	3	1	2	-	-	2	2	0.2	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-	-	-	-	
		ODWS		1					2	80										200		5	5	14															
Date	Sample ID																																						
BW1	2016-Nov-09	-	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	
	2017-Aug-01	17-W005	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	
	2017-Nov-13	17-W023	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	
	2018-May-30	18-W002	< 2	< 0.5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.2	< 0.2	< 0.1	< 0.3	< 0.3	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2020-Apr-14	20-W008	< 30	< 0.5	-	< 2	< 5	< 0.5	< 0.2	< 0.5	< 3	< 1	< 2	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
BW3	2016-Nov-09	-	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
	2017-Aug-01	17-W016	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2017-Nov-13	17-W037	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2018-May-30	18-W012	< 2	< 0.5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.2	< 0.2	< 0.1	< 0.3	< 0.3	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2016-Nov-09	-	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
2017-Aug-01	DUP	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
2017-Nov-13	17-W004	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
2018-May-30	17-W019	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
2018-May-30	18-W004	< 2	< 0.5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.2	< 0.2	< 0.1	< 0.3	< 0.3	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
2016-Nov-15	-	< 5.0	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 1.0	< 0.5	< 3.0	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
2020-Apr-14	20-W011	< 30	0.8	-	< 2	< 5	< 0.5	< 0.2	< 0.5	< 3	< 1	< 2	-	-	< 0.5	< 1.0	< 0.2	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	

Historical Groundwater VOC Analyses

Monitoring Location	Parameters		1,1-Dichloroethene	Ethyl Benzene	Hexachlorobutadiene	n-Hexane	Isopropylbenzene	4-Isopropyltoluene	Methyl Ethyl Ketone	Methyl Butyl Ketone	Methyl Isobutyl Ketone	Methyl-H-butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethylene	Trichlorofluoromethane	1,3,5-Trimethylbenzene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Vinyl chloride	m-p-Xylenes	o-Xylene	Xylenes (Total)	
	Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	RL (2020)		-	0.5	-	5	-	-	-	20	5	20	2	5	-	-	-	-	0.5	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.1	-	-	-	-	0.2	1	0.5	1.1
	ODWS		-	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	60	-	-	-	-	-	-	-	-	1	1	0.5	90	
	Date	Sample ID																																			
BW1	2016-Nov-09	-	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2017-Aug-01	17-W005	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2017-Nov-13	17-W023	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2018-May-30	18-W002	<0.2	<0.5	<1	<1	<0.2	<0.4	<1	<10	<1	<1	<0.3	<0.7	<0.7	<0.4	<0.5	<0.5	<0.1	<0.1	<0.4	<0.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.1	<0.1	<0.4
2020-Apr-14	20-W008	-	<0.5	-	<5	-	-	<20	<5	<20	<2	<5	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.1	-	-	-	-	<0.2	<1.0	<0.5	<1.1		
BW3	2016-Nov-09	-	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2017-Aug-01	17-W016	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2017-Nov-13	17-W037	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2018-May-30	18-W012	<0.2	<0.5	<1	<1	<0.2	<0.4	<1	<10	<1	<1	<0.3	<0.7	<0.7	<0.4	<0.5	<0.5	<0.1	<0.1	<0.4	<0.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.1	<0.4	
BW4	2016-Nov-09	-	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2017-Aug-01	17-W004	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2017-Nov-20	17-W019	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2018-May-30	18-W004	<0.2	<0.5	<1	<1	<0.2	<0.4	<1	<10	<1	<1	<0.3	<0.7	<0.7	<0.4	<0.5	<0.5	<0.1	<0.1	<0.4	<0.2	<0.5	<0.1	<0.1	<0.1	<0.1	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.1	<0.4	
OW14	2016-Nov-15	-	-	<0.5	-	<1.0	-	-	<5.0	<10.0	<5.0	<2.0	<5.0	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
	2020-Apr-14	20-W011	-	<0.5	-	<5	-	-	<20	<5	<20	<2	<5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.1	-	-	-	-	<0.2	<1.0	<0.5	<1.1	

Notes: "-" denotes not analyzed
 "RL" denotes reporting limit
 "<" denotes results below reporting limit
 "BW#" denote bedrock monitoring well
 "OW#" denotes overburden monitoring well
 denotes concentration exceeds the Ontario Drinking Water Standards
 Malroz was not able to independently validate historic chemistry and exceedances, provided by the Township of Leeds and the Thousand Islands

Data Input: MW
 Data Check: JMP

