

Township of Leeds and the Thousand Islands

Briar Hill Waste Disposal Site

**2024 Annual Monitoring, Development and
Operations Report**



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), in fulfilment of Conditions 6(6) and 6(7) of Amended Environmental Compliance Approval (ECA) No. A442103.

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.

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

Respectfully Submitted,

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1.0 Introduction

The Briar Hill Waste Disposal Site (the Site) operates under Amended Environmental Compliance Approval (ECA) No. A442103 issued by the Ministry of the Environment and Climate Change (now the Ministry of Environment, Conservation and Parks, or Ministry), dated April 14, 2024 (see Appendix C).

The Site is located at 114 Turk Rock Road on part of Lot 18, Concession 11 in the Township of Leeds and the Thousand Islands (TLTI), Ontario (Figure 1 and Figure 2, Appendix A). In accordance with the ECA, a monitoring, development, and operations report (AMR) is to be completed annually and submitted to the District Manager by March 31 of the following calendar year.

Malroz was retained by the TLTI to conduct the semi-annual monitoring of the groundwater and surface water at the Site, and report on the development and operations of the Site. This document presents the methodology, results and interpretation related to the monitoring and sampling program conducted at the Site in 2024. 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

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2.0 Background

The geology, hydrogeology, physiography, and hydrology of the Site are based on a review of collected data, including site observations and previous reports on investigations at the Site by Malroz, previous consultants, and TLTI staff.

2.1 Description of the Site

The Site is located on part of Lot 18, Concession 11, in the Township of Leeds and the Thousand Islands (former Township of Rear of Leads and Lansdowne). The Site is located approximately 3.5 km east of Highway 15 at the Village of Morton River and approximately 5.0 km west of Lyndhurst, Ontario. The site is adjacent to an active sand and gravel pit to the south, an agricultural property and a forested area to the west, and an agricultural/residential property to the north. Turk Rock Road is adjacent to the eastern property boundary, and a forested area is present further to the east.

Geodetic coordinates for the Site entrance are as follows (2013 Site survey):

Zone:	NAD 83, 18T
Easting:	407020.1 m (+/- 0.5 m)
Northing:	4933135.1 m (+/- 0.5 m)

The Site has an approved waste volume of 85,600 cubic meters (including cover); however, this volume does not include the waste deposited prior to May 2003 within the 1.5 hectare area of the old landfill. The Site is actively landfilling non-hazardous waste materials from within the boundaries of TLTI. The current Site property boundary and fill area is shown on Figure 2 (Appendix A).

2.2 Geological Setting

Geological mapping from the Ontario Geological Survey (OGS, 2011) indicates that deep underlying the southern two-thirds of the Site comprises Precambrian granitic gneiss, with the northern portion of the Site underlain by carbonate metasedimentary rocks (OGS, 2011, Hewitt, 1964). Well records for deep wells BW1 and BW2 (Appendix J) suggest two distinct lithologies are present at the Site, with BW1 set in metasedimentary and BW2 in granitic bedrock (Figure 3, Appendix A). The inferred contact between the two lithologies runs approximately southwest to northeast, just north of the active fill area, and transecting the former waste mound.

Several bedrock outcrops are present on-site, mainly in the south portion of the Site by the Tackaberry Pit, as well as in the forested area north of the waste fill area. Water well

records show that the overburden consists of clay and sand, and ranges from approximately 3 to 11 metres thick (Appendix J).

2.3 Hydrogeologic Setting

Groundwater elevation data collected during monitoring program indicates a north to north-westerly flow in the overburden, towards an unnamed tributary of Morton Creek, just north of the Site. Based on monitoring and survey data, the shallow groundwater from the Site appears to discharge to the unnamed Morton Creek tributary north of the Site (Figure 2, Appendix A).

Artesian conditions periodically observed at deeper groundwater well OW15-D suggest an upwards gradient and potential discharge to the Morton Creek tributary located north of the Site. Groundwater elevations in the deeper wells suggest that the deep groundwater flow at the Site is toward the north. However, these wells are not screened within the same unit: BW2-D is screened within the granitic gneiss, BW1 is screened within calcareous metasedimentary bedrock, and OW15-D is screened in the Shallow. The influence of the various geologic units on the bedrock hydrogeology has not been fully assessed.

Three residential wells within 500 m of the Site have been identified: two downgradient residential wells located at 122 Turk Rock Road, and 151 Fortune Line Road, and one upgradient residential well located at 151 Briar Hill Road.

2.4 Surface Water Features

An unnamed tributary to Morton Creek flows east to west and is located north of the Site. The tributary collects surface water run off from the field to the northeast via tile drainage. The stream flows through a culvert under Turk Rock Road (near SW1), and westward past OW17, OW15-S&D, and OW24. The Morton Creek tributary continues west under Fortune Line Road (at SW5) and eventually flows into Morton Creek. From the confluence of Morton Creek and the tributary, Morton Creek flows approximately 3 km and discharges into Whitefish Lake, which is part of the Rideau Waterway.

2.5 Environmental Compliance Requirements

Sampling and inspections must be carried out at least twice per year and deficiencies reported to the Ministry, in accordance with Schedule 2 and 3 of the ECA. The updated monitoring plan is found in Appendix C.

- Volatile organic compound (VOC) analyses occur once annually in the spring, at wells L10, OW15-S, OW15-D, OW19 and OW22.
- Wells L2, L10, and L11 are sampled once annually in the spring.
- Wells at 122 Turk Rock Road and 151 Fortune Line Road be sampled in both the spring and the fall sampling programs if the owners have no objections.
- Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) sampling occurs annually in the spring at leachate well OW22, downgradient wells OW23 and OW24R01, and the two downgradient domestic wells (122 Turk Rock Road and 151 Fortune Line Road).
- Leachate indicator parameters (LIPs) for the Site include alkalinity, total dissolved solids (TDS), ammonia, boron, conductivity, chloride, dissolved organic carbon (DOC), and iron.

The Site must be compliant to Reasonable Use Guideline B-7 and Provincial Water Quality Objectives (PWQOs).

2.6 Complaints

TLTI reportedly received 15 inquiries through their electronic reporting system, none of which were complaints related to Site operations.

2.7 Ministry Correspondence

A Revised ECA was received from the Ministry on April 14, 2024, and is included in Appendix C. An Operations and Closure Plan, including final contours, is being prepared, and will be submitted in 2025.

The 2023 Annual Monitoring Report was reviewed by a Ministry groundwater and surface water specialist, and comments were provided to the Township on December 4, 2024 (Appendix E).

The groundwater review recommended continued monitoring of PFAS locations as in 2023 (including domestic wells), as well as adding OW17 and OW18 to confirm if there are leachate impacts north of the tributary. Development of a groundwater trigger mechanism and contingency plan is recommended. The review agrees that OW1 is better suited as a downgradient well rather than a compliance well.

The surface water reviewer suggested PFAS be included in surface water sampling at all locations in 2025.

3.0 Development and Operations

In accordance with the ECA, the Site is actively landfilling solid non-hazardous waste. The Site also accepts recycling materials, large electric appliances, and metals for bulking and subsequent transfer off-site. No liquid industrial or hazardous wastes are accepted.

The Site operates as a 2.4 hectare waste disposal area and transfer site within a total site area of 16 hectares. The corners of the landfilling area are marked and secured by fencing.

3.1 Waste Disposal Site Description

The Briar Hill Waste Disposal Site operates as an area fill site. On a weekly basis, the waste is contoured, compacted, and covered. The Site has been approved to burn clean wood waste (ECA 2(6)b), following the Ministry's Guideline C-7 Burning at Landfill Sites; however, burning did not occur in 2024.

Waste was previously deposited at the Briar Hill landfill on the northeastern segment of the Site (Figure 2, Appendix A). Following the closure of the former landfill area, filling activities began to the west, near the centre of the property. The leased land located to the west of the Site and the purchased land located to the north of the Site are intended to serve as a CAZ. The registration of the new property as a CAZ is on-going.

Information regarding Site operations in 2024 was provided through attendant logbooks, Site observations, and Site investigations.

3.2 Site Access

The Site is accessed from Turk Rock Road off Briar Hill Road.

3.3 Service Area and Population

Briar Hill is one of three active waste disposal sites serving TLTI (along with the Lansdowne and Escott Landfills). According to the 2021 census, the population of the TLTI was 9,804 (StatCan, 2021).

3.4 Site Operation

The Site operates Mondays, Wednesdays, Thursdays, and Saturdays from 8:30 am to 4:30 pm when a Site Attendant who inspects incoming waste loads for compliance is on duty. No waste is received at the Site outside those hours of operation. The entrance and exit gates are locked during non-operating hours.

Based on the daily attendant logs, waste loads were rejected on three occasions due to oversized wood and waste from outside TLTI. Bags of garbage were left outside the gate on 19 occasions.

Site inspections are carried out during each day of operation by the Site Attendant, and records of these inspections are included in Appendix F. Notable observations from the available 2024 attendant logs include:

- birds, skunks, cats, and/or raccoons on multiple occasions, and
- wind blown litter (efforts to pick up windblown litter were noted).

Litter around the Site is picked up daily by the Site Attendants.

No spills or emergencies, as described by condition 5 of the ECA, occurred at the Site in 2024.

The Site relies on natural attenuation, with no engineered systems for leachate collection or storm water management.

Landfill gas migrating from the Site is not collected by an engineered gas system. An elevated attendant's trailer was installed at the Site to ensure that gas does not accumulate within the enclosed space.

3.5 Phasing of Site Usage

Waste at the Site is compacted using a wheeled compactor and covered with fill bi-weekly. Between bi-weekly compaction events, TLTI personnel apply cover material from an on-site stockpile so that cover is applied weekly. Cover material is brought in from off-site, placed on a compacted portion of the waste fill area.

The Site has two phases of waste filling: a former landfill area in the northeast part of the site, and active fill area in the centre of the Site. Active filling is currently occurring on located on the northeastern edge of the active Site as shown in Figure 2 (Appendix A).

3.6 Record Keeping

Field notes and Site logs are maintained at the Township offices, 1233 Prince Street, Lansdowne, Ontario. Daily Site inspections are conducted by the TLTI staff on days when the landfill was open to the public. Inspection results are recorded on daily site log sheets which are included in Appendix F.

3.7 Waste Diversion

Recycling bins are maintained on Site to divert material from the landfill. Removal and processing of the recycling materials was completed by Environmental 360 Solutions. The hours of operation for the recycling depot are the same hours as those for the landfill.

Tires are not accepted at the Briar Hill Site; however, users are directed to the Lansdowne WDS where the tires are recycled. Tires dumped at the gates of the Site are stockpiled and shipped to the Lansdowne WDS for recycling.

3.8 Remaining Site Capacity

The maximum volumetric capacity approved for the Site is 85,600 m³ as reported in the ECA Section 7(4). This volume includes the waste, daily cover, intermediate cover and final cover. The volume does not include historical volume of waste deposited prior to May 2003 within the 1.5 hectare area of the former landfill (see Figure 2).

Based on a survey completed December 9, 2024, the remaining capacity is approximately 50,147 m³, including cover as shown in Figure 6 (Appendix A). The survey identified approximately 700 m³ of waste and cover deposited in 2024. The estimated remaining capacity of the Site is approximately 39 years using an average rate of fill of approximately 1,288 m³ per year (based on data from 2017-2024).

4.0 Site Surveillance, Monitoring, and Sample Program Scope

The surveillance, monitoring, and sample programs are conducted in accordance with the monitoring plan pursuant to Section 8 of the Site's ECA (Appendix C) and Schedules 2 and 3.

4.1 Site Surveillance

Site inspections are conducted during sampling events. These inspections include a check of operational compliance with the ECA including signage, Site Attendants, hazardous or liquid wastes, vermin, vectors, litter, dust, brush and clean wood burning, and interim cover. In addition, observations of general Site conditions including drainage, surface water, condition of landfill cap, seeps, and on-site structures are noted.

4.2 Well Inspection

Well inspections are undertaken during all sampling events. These inspections include a visual inspection of accessible portions of the well piezometer, monument casing, cap, lock, and well seal. Wells were assigned one of the following conditions:

Poor – well integrity is compromised and the well requires repair

Fair – exhibits some minor deficiencies, however well integrity is not compromised.

Good – the well is in good condition with no obvious signs of damage.

Wells that require attention are reported to the Project Manager for repairs.

4.3 Groundwater Monitoring Program

Prior to sampling, each well is monitored for depth to water, depth to well bottom, and combustible gas vapours. During purging of groundwater, visual and olfactory observations are noted and recorded.

Groundwater sampling was conducted using dedicated Waterra tubing equipped with a foot-valve. Prior to sampling, three well volumes of groundwater were purged from each well, or wells were pumped dry three times. At the completion of purging, water quality was monitored using a Horiba multi-parameter instrument for temperature, pH, dissolved oxygen, oxidizing/reducing potential, conductivity, and turbidity. Samples intended for metals analyses were field-filtered using a disposable 0.45-micron inline filter. Samples were collected into new laboratory prepared sample bottles and submitted to Caduceon Environmental Laboratories (Caduceon) for analyses.

Methane concentrations were calculated based the difference between full gas response and responses in methane elimination mode using an RKI Eagle 2 combustible gas indicator.

As detailed in Schedule 3 of the ECA (Appendix C), the groundwater monitoring plan consists of sixteen shallow monitoring wells (L2, L11, OW1, OW6R1, OW7R1, OW15-D, OW15-S, OW17, OW18, OW19, OW20, OW21, OW22, OW23, OW24R01, OW25), four deep monitoring wells (BW1, BW2-D, BW2-S, and L10), and two deep residential wells (122 Turk Rock Road and 151 Fortune Line Road) analyzed for chemical and field parameters.

Monitoring wells L2, L10, and L11 are sampled once annually in the spring. Volatile organic compounds (VOCs) are analyzed once annually in the spring at wells L10, OW15-S, OW15-D, OW19 and OW22. Monitoring wells OW22, OW23, OW24R01, 122

Turk Rock Road, and 151 Fortune Line Road samples are analyzed for PFAS once annually in the spring.

Background levels are characterized by OW20 and BW2-S. Compliance is evaluated at OW24R1, OW23, and OW18.

This information is summarized in Appendix C.

4.4 Surface Water Monitoring Program

The surface water monitoring program includes collecting samples at three active surface water sampling stations located along the adjacent tributary to Morton Creek: SW1, SW4 and SW5 (Figure 2, Appendix A). Station SW1 is used as the background station. Surface water station locations (UTMs) and observations are summarized in Table 2 (Appendix B).

4.5 Compliance Criteria

Groundwater and surface water monitoring results 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 Ministry B-7 Reasonable Use Policy to evaluate groundwater conditions and compliance. Provincial Water Quality Objectives (PWQO) and the Table A: Assessment Criteria for Waste Disposal Sites and Table B: Alternative Review Criteria (MOE 2010) are used as reference criteria to evaluate surface water conditions and compliance.

Leachate Indicating Parameters (LIPs) at this Site include alkalinity, ammonia, boron, chloride, conductivity, dissolved organic carbon (DOC), iron, and total dissolved solids (TDS). Monitoring well OW22 is considered representative of leachate impacted water within the shallow water table and monitoring well L10 is considered representative of leachate impacted groundwater within the deeper water table at the Site.

Compliance is evaluated by comparing concentrations in the wells considered indicative of leachate impacted groundwater water to OW1, OW18, OW24R01, and OW23 for shallow groundwater and the residential wells at 122 Turk Rock Road and 151 Fortune Line Road for deep groundwater.

4.6 Data Quality Evaluation

Water analyses are undertaken by Caduceon, 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.

Information from both the laboratory and field is validated by Malroz before data analysis.

4.7 Deviations from the Monitoring Plan

The following locations could not be sampled in 2024 due to insufficient water or dry conditions:

- L2 and OW1 during the fall sampling event.

Permission for site access was not granted for access to 122 Turk Rock Road in the spring and fall and therefore could not be sampled.

5.0 Site Inspection Results

Site inspections were undertaken by Malroz during sampling events completed on May 14-15 and October 7-8, 2024.

5.1 Site Inspection

Litter was noted during both the spring and fall sampling events. No seeps were noted; however, ponded water observed during the spring sampling event.

5.2 Well Inspection

Results of the well inspections are summarized in Table 1 (Appendix B). Copies of the site inspections completed by Malroz staff in 2024 are included in Appendix G. Site photographs of sampling locations are presented in Appendix D.

Monitoring wells at the Site were observed to comply with O. Reg. 903.

5.3 Methane

Methane gas headspace vapours were calculated in monitoring wells during each sampling event using measurements from a combustible gas indicator equipped with a methane elimination switch. Methane concentrations were calculated as the difference in concentration between full gas response and methane elimination response.

Methane concentrations are summarized in Table 1, Appendix B. Methane concentrations were generally reported as no measurable response or less than 1% of

the lower explosive limit (LEL) in the monitoring wells during each event, with the following exceptions:

- Methane concentrations at OW19 were detected at approximately 92% and 94% of the LEL during the spring and fall monitoring events, respectively.
- Methane concentrations at OW22 were detected at 1% of the LEL during the spring monitoring event.

Elevated methane concentrations are a byproduct of anaerobic decomposition of organic compounds (in this case anticipated to be waste, but in other locations this may be associated with naturally occurring organic matter). Caution should be exercised when undertaking work within the former and active fill areas as methane gas may accumulate in the soil. Concentrations approaching/or in excess of 100% LEL indicate that explosive conditions may be encountered; however, we note that these readings are measured from a piezometer which has limited air exchange and is screened several metres below ground surface.

6.0 Groundwater Monitoring Program

Groundwater was monitored and sampled in accordance with the monitoring plan (Appendix C). The Site has both shallow (overburden) and deep (bedrock) wells.

6.1 Groundwater Flow

Groundwater elevation contours in shallow and deep aquifers were interpolated based on depth-to-water measurements and piezometer elevations. Results are presented in Figures 4 and 5 (Appendix A).

Shallow groundwater elevation monitoring indicates a predominantly northwesterly flow (Figure 4, Appendix A), similar to previous observations.

Deep groundwater elevation monitoring indicates northerly flow (Figure 5, Appendix A), similar to previous observations.

6.2 Groundwater Quality

Results for the 2024 groundwater chemical analyses are presented in Tables 4 through 7 (Appendix B). Laboratory Certificates of Analysis are provided in Appendix H.

6.2.1 Shallow Groundwater

Analytical results for wells screened in the shallow (overburden) aquifer are summarized in Table 4 (Appendix B); historical trends are summarized in Appendix I.

LIPs are evaluated at leachate impacted well OW22, Northern CAZ compliance well OW18, and Western CAZ compliance wells OW23 and OW24R1. Results are compared to background well OW20:

- Alkalinity concentrations have remained relatively stable the past five years. Alkalinity concentrations at the leachate impacted well OW22 were reported to exceed the maximum ODWS operational guideline of 500 mg/L. Remaining wells reported alkalinity concentrations within the OWDS range. Northern CAZ compliance well OW18 continues to show less seasonable variability. Compliance well OW24R1 in the Western CAZ lands has reported stable results which are similar to trends of background well OW20. Western CAZ compliance well OW23 continues to report alkalinity concentrations below background levels.
- Ammonia concentrations reported at the Western CAZ compliance wells OW23 and OW24R1 were reported to be higher than, however, within an order of magnitude, of concentrations reported at the leachate impacted well OW22 in the spring. In the fall, Western CAZ compliance wells OW23 and OW24R1 reported ammonia concentrations similar to background well OW20 (i.e., below or near the laboratory reporting limit). Ammonia concentrations at compliance well OW18 were reported to be similar to background well OW20 (i.e., below or near the laboratory reporting limit).
- Boron concentrations reported at each well continue to be less than 10% of the ODWS objective of 5 mg/L. Leachate impacted well OW22 reported the highest concentrations of boron; CAZ compliance wells OW18, OW23, and OW24R1 reported concentrations similar to background well OW20.
- Chloride concentrations reported at leachate impacted well OW22 were below the ODWS aesthetic objective of 250 mg/L in both the spring and fall, consistent with previous results. Compliance wells OW18, OW23, and OW24R1 continue to report chloride concentrations similar to concentrations reported at background well OW20.
- Conductivity values reported at the leachate impacted well appear higher than concentrations to background well OW20. Compliance well OW18 reported elevated chloride concentrations in comparison to background well OW20. Western CAZ compliance wells OW32 and OW24R1 continue to report chloride concentrations similar to concentrations reported at background well OW20.
- DOC concentrations reported at leachate impacted well OW22 exceeded the ODWS in both the spring and the fall, consistent with previous results. Compliance wells reported DOC concentrations below the OWDS, trending toward background concentrations reported at well OW20.

- Iron concentrations reported at compliance wells OW23 and OW24R01 exceeded the OWDS aesthetic objective of 0.3 mg/L during both the spring and the fall sampling events, and nearly an order of magnitude greater than the leachate impacted well OW22 in the spring. Given that iron concentrations between the landfill area and wells OW23 and OW24R1 increase with distance from the landfill, iron may originate from a natural source, such as granitic bedrock and soils. Iron concentrations reported at compliance well OW18 are similar to concentrations reported at background well OW20.
- TDS concentrations reported at leachate impacted well OW22 exceeded the ODWS during the spring and fall sampling events, consistent with previous results. Compliance monitoring wells continue to report TDS concentrations below the OWDS. TDS concentrations at compliance wells OW23 and OW24R1 in the Western CAZ lands show a stable trend and are similar to background well OW20.

Concentrations of parameters above the OWDS which are not LIPs included hardness at each well, including the background well OW20, and manganese which exceeded the ODWS at OW15-D, OW22, and OW7R1. These parameters may be influenced by natural sources, such as overburden and bedrock.

At this time, there is little evidence of leachate impact in the overburden compliance wells in our opinion.

6.2.2 Deep Groundwater

Analytical results for wells screened in the deep (bedrock) aquifer are summarized in Table 5 (Appendix B); historical trends are summarized in Appendix I.

LIPs are evaluated at leachate impacted well L10, on-site downgradient well BW1, and compliance wells 122 Turk Rock Road¹ and 151 Fortune Line Rd. Results are compared to background well BW2-S:

- The low hardness and elevated sodium and TDS observed at 151 Fortune Line Road in 2024 indicate a potential that samples are being collected post water softener. Discussion with the homeowner should take place to verify they are providing a pre-treatment location for sample collection.
- Alkalinity concentrations have remained relatively stable for the past five years. Alkalinity concentrations at the leachate impacted well L10 were reported to exceed the maximum ODWS operational guideline of 500 mg/L. Alkalinity

¹ Permission to test 122 Turk Rock Rd. was not granted in 2024.

concentrations at compliance well 151 Fortune Line Road were reported to be lower than background well BW2-S and downgradient well B1, all of which are within the ODWS guideline.

- Ammonia concentrations reported at leachate impacted well L10 are significantly higher than the other wells. Downgradient well BW1 shows an order of magnitude reduction in concentration, indicating attenuation is occurring between the wells. The compliance residential well at 151 Fortune Line Road reported a similar ammonia concentration to background well BW2-S.
- Boron concentrations at each well continue to be reported significantly below the OWDS of 5 mg/L. Leachate impacted well L10 reported boron concentrations greater than the downgradient well BW1, indicating attenuation is occurring between the wells. The compliance residential well at 151 Fortune Line Road reported boron concentrations higher than concentrations reported at background well BW2-S, however, less than 10% of the OWDS.
- Chloride concentrations at the compliance residential well at 151 Fortune Line Road were reported to be below the ODWS of 250 mg/L during both sampling events, but higher than remaining bedrock wells. Leachate impacted well L10 reported chloride concentrations an order of magnitude below the ODWS, and lower than background well BW2, indicating that the chloride at 151 Fortune Line Road may not be indicative of landfill leachate, but from other sources such as the bedrock or road salt.
- Conductivity results at leachate impacted well L10 have remained relatively stable for the past five years, and continue to report results significantly higher than remaining bedrock wells. The downgradient well BW1 reported conductivity values lower than L10, and similar to the background levels, indicating attenuation. The compliance residential well at 151 Fortune Road reported conductivity results above the background well BW2-S. This data indicates road salt or a potential natural contribution to conductivity in groundwater as impacting 151 Fortune Road, rather than the result of landfill leachate.
- DOC concentrations were reported to exceed the ODWS aesthetic objective of 5 mg/L in leachate impacted well L10, and significantly reduced to near the OWDS in downgradient well BW1 (at which concentrations exceeded the ODWS, which is consistent with periodic exceedances in historical results). Compliance residential well 151 Fortune Road had concentrations below the OWDS.
- Iron concentrations at leachate impacted well L10 and downgradient well BW1 were reported to exceed the OWDS aesthetic objective of 0.3 mg/L during both the spring and the fall sampling events, consistent with previous results. Iron concentrations at compliance well BW1 continue to be significantly lower than the

leachate impacted well, which may be evidence of attenuation. The concentrations at compliance well 151 Fortune Line Road are similar to background well BW2-S, and below the ODWS.

- TDS concentrations reported at leachate impacted well L10 exceeded the ODWS during the spring and fall sampling event, which is consistent with previous results. Given that TDS concentrations are significantly lower at downstream well BW1 (although exceeding the ODWS), this may be evidence that attenuation is occurring. TDS concentrations reported at BW1 consistently vary seasonally, with spring concentrations reported above the ODWS, and fall concentrations below in 2024. Background well BW2-S remains near the aesthetic objective, consistent with previous years. Compliance well 151 Fortune Line Road results continue to report TDS concentrations above the ODWS aesthetic objective. The data indicates a potential natural contribution to TDS in groundwater, rather than the result of landfill leachate.

Concentrations of parameters above the ODWS which are not LIPs include hardness at each well, including the background wells BW2-D and BW2-S; manganese leachate impacted well L10 and downgradient well BW1; and sodium I at residential compliance well 151 Fortune Line Road. These parameters may be influenced by natural sources, such as overburden and bedrock, or by road salt.

At this time, there is little evidence of leachate impact in the bedrock compliance wells, and the monitoring wells appear to provide adequate coverage. A review of the sample collection location at 151 Fortune Line Road should be conducted in spring 2025.

6.2.3 Volatile Organic Compound Analyses

Monitoring wells sampled for VOC analysis included OW15-S, OW15-D, OW22, in overburden and L10 in Bedrock. Each well reported results for each VOC parameter below the laboratory detection limits during the spring 2024 sampling event. The results are summarized in Table 6 (Appendix B).

6.2.4 PFAS Results

PFAS was analyzed at shallow leachate impacted well OW22, shallow compliance wells OW23 and OW24R1, and deep compliance well 151 Fortune Line Road in the spring. The results are summarized in Table 7 (Appendix B).

Shallow Wells

Concentrations reported for several PFAS compounds at leachate impacted well OW22 exceeded the laboratory reporting limits during the spring sampling event. Two PFAS

compounds, perfluorohexanoic acid (PFHxA) and perfluoropentanoic acid (PFPeA) exceeded the Health Canada PFAS Screening Values in the spring, and were below detection limits in the fall. The sum of all reported PFAS compound concentrations at leachate impacted well O22 in the spring exceeds the MECP Drinking Water Screening Values for Perfluorinated Chemicals standard of 0.7 µg/L in OW22. Compliance wells OW23 and OW24R1 reported concentrations of all analyzed PFAS compounds below the laboratory reporting limit.

Deep Wells

The residential compliance well at 151 Fortune Line Road reported concentrations of all analyzed PFAS compounds below the laboratory reporting limit.

The PFAS sampling program indicates that leachate is not spreading into downgradient drinking water wells nor spreading beyond the surface water feature located north of the Site.

7.0 Surface Water Monitoring Program

The surface water monitoring program at the Site is characterized by three sampling stations: SW1, SW4, and SW5. Coordinates (UTM) for each of the surface water stations are presented in Table 6 (Appendix B). Results of the surface water analyses are presented in Table 7 (Appendix B).

7.1 Surface Water Flow

Surface water flows from east to west in a Morton Creek tributary north of the site in the Northern and Western CAZs (see Figure 2, Appendix A).

7.2 Surface Water Quality

Analytical results for surface water stations are summarized in Table 8 (Appendix B); historical trends are summarized in Appendix I.

LIPs were evaluated at stations SW4 and SW5, and compared to background station SW1:

- Alkalinity concentrations reported at compliance stations SW4 and SW5 continue to remain relatively stable and similar to each other, and are within 25% of the background concentration (reported at SW1) which constitutes the PWQO standard for alkalinity.
- Ammonia concentrations reported at compliance station SW4 were elevated when compared to background station SW1 and compliance station SW5 during

the spring sampling event, but all stations reported similar concentrations (i.e. within an order of magnitude) during the fall sampling event.

- Boron concentrations reported at compliance stations SW4 and SW5 continue to remain relatively stable and are similar to each other, below the PWQO of 0.2 mg/L. Boron concentration at background station SW1 were lower, however, similar (i.e., within an order of magnitude) to concentrations at the other stations.
- Chloride concentrations reported at compliance stations SW4 and SW5 continue to be relatively stable and are similar to the background station SW1.
- Conductivity values reported at compliance stations SW4 and SW5 continue to be relatively stable and are similar to concentrations at the background station SW1.
- DOC concentrations reported at compliance stations SW4 and SW5 continue to be relatively stable and are similar to concentrations at the background station SW1
- Iron concentrations reported at compliance stations SW4 are similar to concentrations at background station SW1, and exceeded the PWQO of 0.3 mg/L in the spring. Compliance station SW5 exceeded the PWQO for iron during the spring sampling event, however, concentrations were below those reported at background station SW1 during both sampling events. Concentrations of iron at compliance stations SW4 and SW5, as well as background station SW1 met PWQO during the fall sampling event.
- TDS concentrations reported at compliance stations SW4 and SW5 continue to be relatively stable and are similar to concentrations reported at background station SW1 during the spring sampling event, and slightly above background concentrations during the fall sampling event.

Concentrations of phosphorus, which is not a LIP, were above the PWQO at all three stations (including the background surface water station SW1) during the spring and fall sampling events. Concentrations of cadmium were reported to exceed the Table B: Alternative Review Criteria's standard of 0.000017 mg/L at background surface water station SW1 and SW4 during the spring sampling event.

Considering the background conditions, the leachate impacts to surface water do not appear significant, and the monitoring program remains appropriate.

8.0 Reasonable Use Policy/ Guideline B-7 Assessment and Action Plan

The reasonable use policy (RUP) provides a mechanism to calculate the reasonable use limits (RUL) for the Site using historical data from background well BW2S for shallow wells, OW20 for deep wells, and corresponding drinking water criteria per Ministry Guideline B-7.

RULs for the following parameters were exceeded at one or more of the wells during the spring and/or fall sampling events:

- Shallow compliance well OW18 exceeded the RULs for TDS, and hardness during the spring and the fall sampling events, and DOC during the spring sampling event.
- Shallow compliance well OW23 exceeded the RUL for hardness during both sampling events.
- Shallow compliance well OW24R01 exceeded the RULs for hardness, iron, and manganese during the spring and fall sampling events, and DOC during the spring sampling event.
- Deep compliance well 151 Fortune Line Road exceeded the RULs for TDS and sodium during the spring and fall sampling events.

Although RULs suggest that the Site is non-compliant with Ministry Guideline B-7, analysis of chemistry infers attenuation is occurring, and the data does not indicate that the exceedances of the RUL are leachate related, with some instances in which the background levels are higher than the RULs (shallow background well OW20 and deep background well BW2-S reported hardness concentrations above the RUL).

Iron, hardness, and TDS may be influenced by non-leachate factors such as background contributions from the bedrock and soils common to the area. The influence of leachate on metal concentrations cannot be definitively determined and trends in concentrations should continue to be monitored.

Leachate impacted groundwater seems to discharge into the Morton Creek tributary, protecting the domestic wells to the north of the CAZ. Chemistry suggests attenuation is occurring between the waste areas and the wells on the perimeter of the CAZ. The proposed western CAZ land procurement (shown in Figure 2) is ongoing.

9.0 Conclusions and Recommendations

The Briar Hill WDS is an active site currently accepting non-hazardous solid waste, operating in compliance with the ECA. Based on the approved capacity of the Site and the volume of waste deposited to date, the landfill has an estimated lifespan of 39 years. The remaining capacity will be further reviewed in summer 2025.

The shallow groundwater typically flows northwesterly from the landfill. Deep groundwater typically flows northward. Attenuation of the leachate in the subsurface appears to be occurring.

Ministry Guideline B-7 has been applied to the Site. Results indicate that some compliance wells and the background well exceeded the RULs. An analysis of the groundwater chemistry indicates that RUL exceedances may include contributions from the bedrock and soils common to the area. PFAS analyses did not show impact to the two drinking water wells sampled. Groundwater analyses results from the sampling do not indicate significant leachate impacts in the groundwater extending beyond the north creek.

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

The following recommendations are provided for the Briar Hill WDS monitoring program:

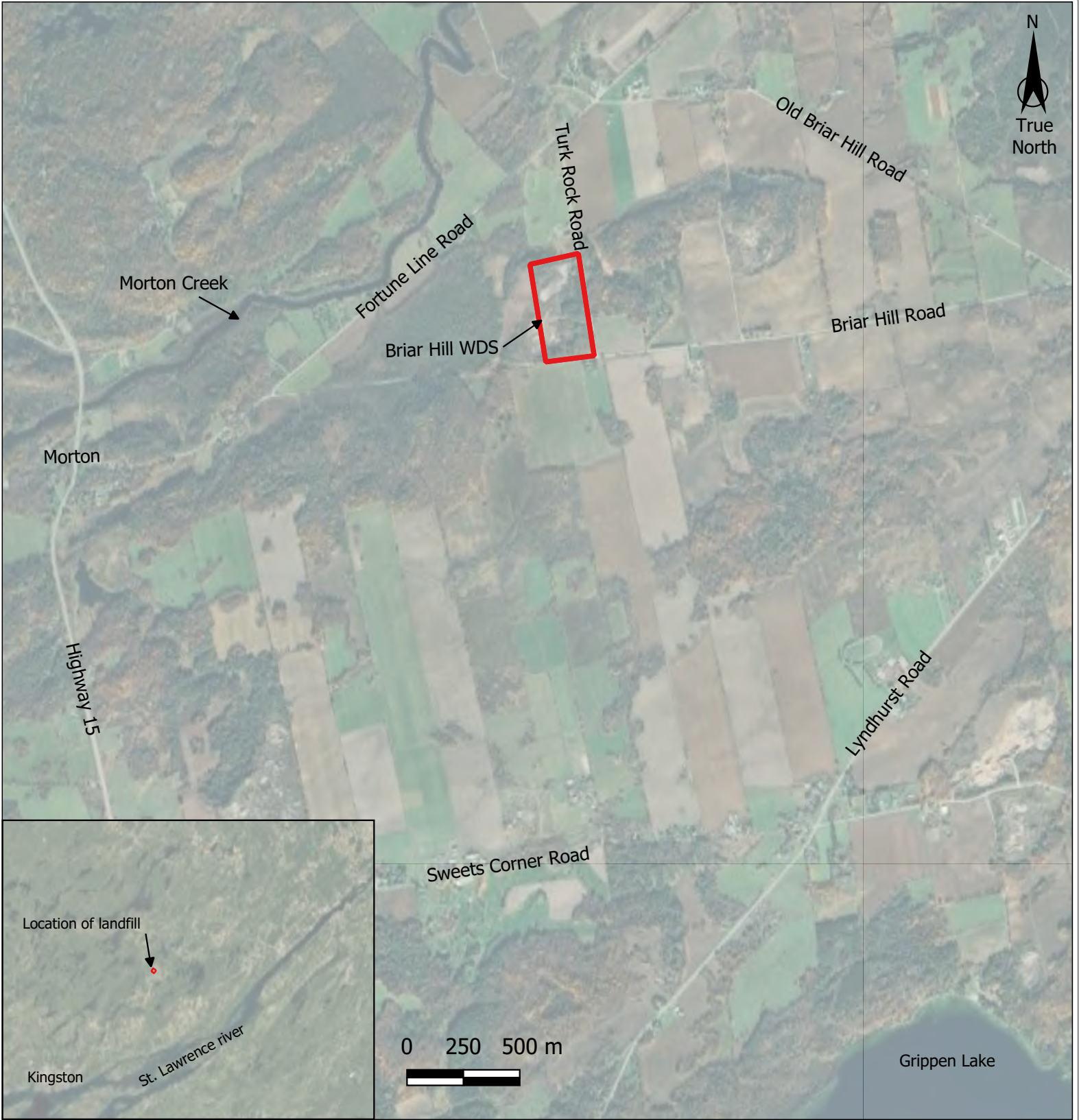
- Continue the program to obtain the Western CAZ.
- Evaluate the need for groundwater and surface water triggers and submit to the Ministry following the purchase of additional CAZ lands.
- Prepare a closure plan for the Site, including final contours, rescoping the monitoring plan, and development of trigger mechanisms once the CAZ land registration is complete.
- Review capacity data.
- Evaluate if the sampling location for 151 Fortune Line Road is pre or post water softener.
- Submit samples collected at monitoring wells OW17 and OW18 and all surface water stations for PFAS analysis (in addition to monitoring wells previously included in the PFAS sampling program), per request from the MECP.

10.0 References

- Day, Andrew (2012-2014). 2012-2014 Annual Groundwater and Surface Water Monitoring Report for Briar Hill WDS (ECA No. 442103), Township of Leeds and the Thousand Islands.
- Hewitt, D.F. (1964) Geological notes for maps Nos. 2053 and 2054 Madoc-Gananoque Area, Ministry of Natural Resources, GC 12, 33p (reprinted 1974). Accompanied by Maps 2053 and 2054, scale 1:126,720.
- Malroz Engineering Inc. (2015-2024). 2015-2023 Annual Monitoring, Development and Operations Reports for Briar Hill WDS for 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, and 2024.
- Ontario Geological Survey (2011). Bedrock geology of Ontario, Ontario Geological Survey, Miscellaneous Release–Data 126 - Revision 1, map scale 1:250,000.
- Ontario Ministry of the Environment (2010). Technical Guidance Document: Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water, November 2010.
- Province of Ontario (2023) Ontario Drinking Water Standards (ODWS) from Ontario Regulation 169/03 of the Safe Drinking Water Act (2002). Last amendment: O. Reg. 373/15.
- Statistics Canada (2023) Leeds and the Thousand Islands Census Profile. 2021 Census of Population. Statistics Canada Catalogue no. 98-316-X2021001. Ottawa. Released February 8, 2023.
<https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/index.cfm?Lang=E> (accessed March 15, 2023).

Appendix A

Figures

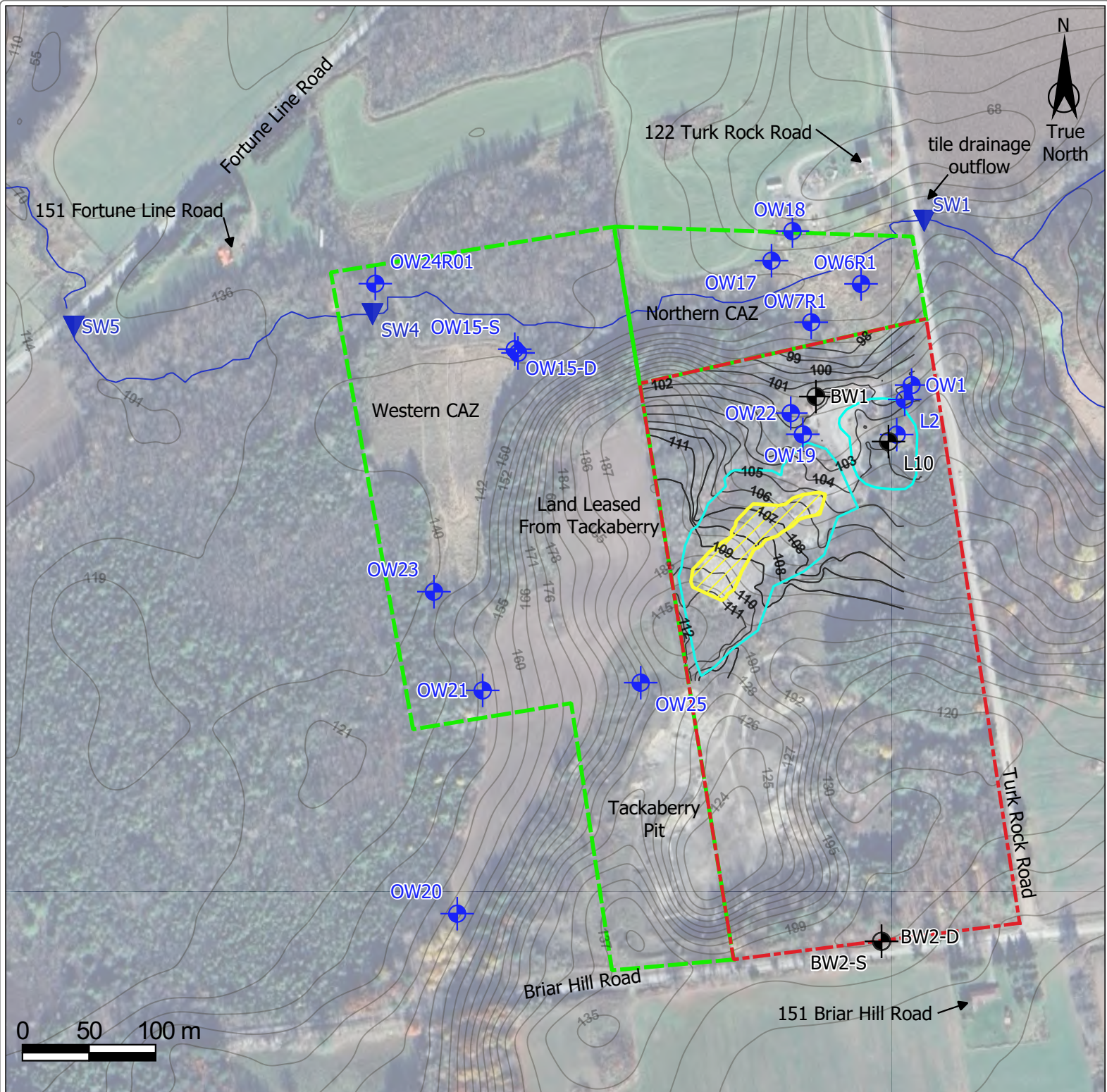


Legend

 approximate site boundary

R0	2025-03-21	issued in final	TV	PRK
Rev	Date	Description	By	Chkd
Site Location Plan				
2024 Monitoring, Development, and Operations Report Briar Hill Waste Disposal Site Township of Leeds and the Thousand Islands				

Data Sources: Figure based on Malroz field observations and Google Earth imagery; topographic contours based on Digital Raster Aquisition Project Eastern Ontario, MNRF, 2014; stream based on Ontario Hydro Network, MNRF, 2020.



Legend

- approximate site boundary
- approximate CAZ boundary
- approximate total landfill area
- current landfill area
- approximate topographic contours (MNRF, 2014)
- approximate topographic contours
- ⊕ approximate deep monitoring well locations
- ⊕ approximate shallow monitoring well location
- ▼ approximate surface water monitoring locations
- stream

R0	2025-03-21	issued in final	TV	PRK
Rev	Date	Description	By	Chkd

Site Plan

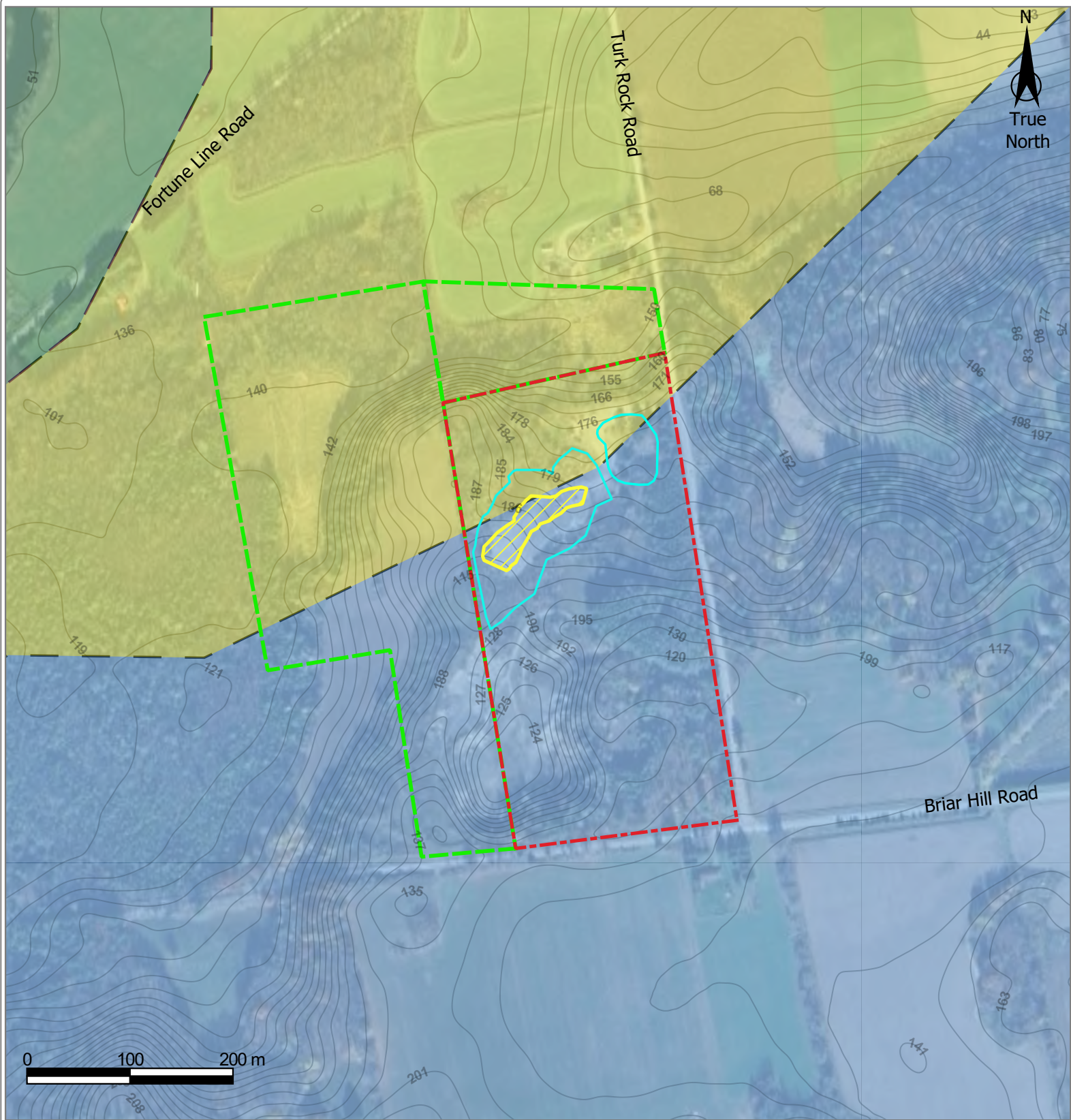
2024 Monitoring, Development, and Operations Report
Briar Hill Waste Disposal Site
Township of Leeds and the Thousand Islands

File: 1036-127.00

Figure
2



Data Sources: Figure based on Malroz field observations and Google Earth imagery; topographic contours based on Digital Raster Acquisition Project Eastern Ontario, MNRF, 2014; stream based on Ontario Hydro Network, MNRF, 2020.



Legend

Lithology

- Conglomerate, wacke, quartz arenite, arkose, limestone, siltstone, chert, minor iron formation, minor metavolcanic rocks
- Granitic gneisses with metasedimentary xenoliths, migmatites, injection gneisses, pegmatites
- Marble, calc-silicate rocks, skarn, tectonic breccias

Site Details

- approximate site boundary
- approximate CAZ boundary
- approximate total landfill area
- current landfill area
- approximate topographical contours (MNR, 2014)
- approximate lithologic contact

R0	2025-03-21	issued in final	TV	PRK
Rev	Date	Description	By	Chkd

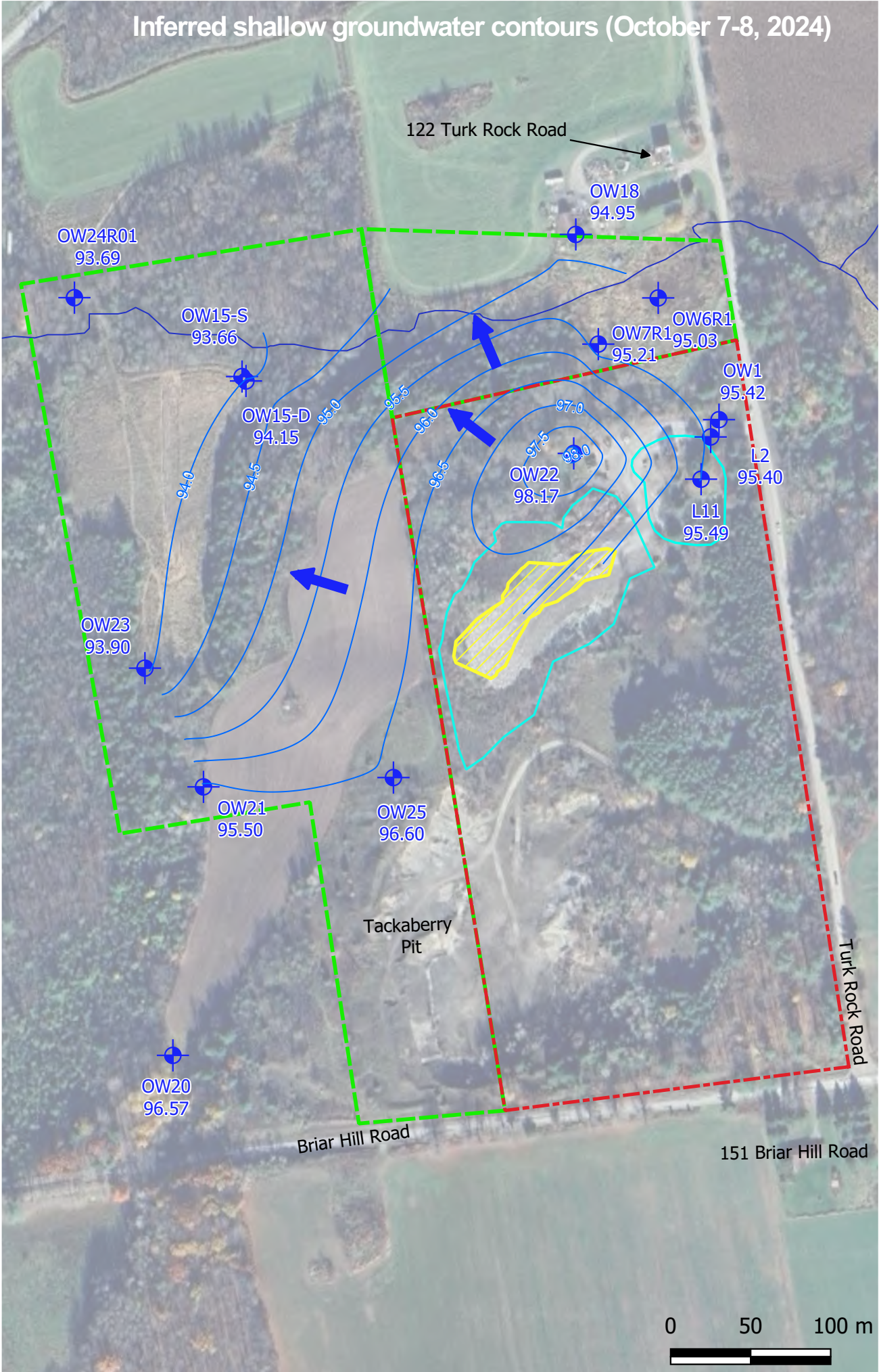
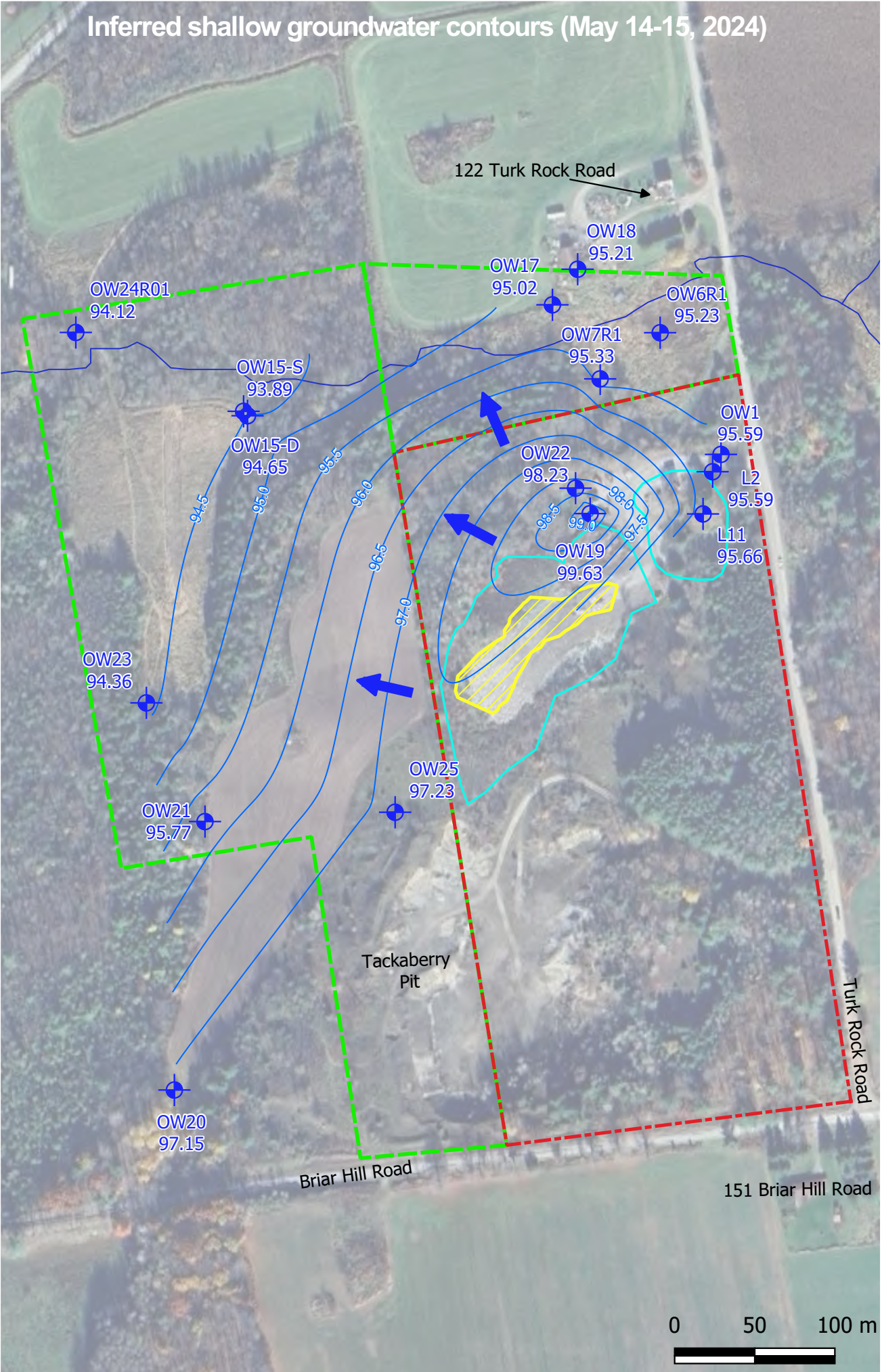
Bedrock Geology

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File: 1036-127.00

Figure
3





North

Legend

- approximate site boundary
- approximate CAZ boundary
- approximate total landfill area
- approximate current landfill area
- approximate location of shallow groundwater well location and elevation (masl)
- stream
- inferred groundwater contour (masl; 0.5 m intervals)
- inferred direction of groundwater flow

Data Sources: Figure based on Malroz field observations and Google Earth imagery; Groundwater contours interpolated using Surfer software.

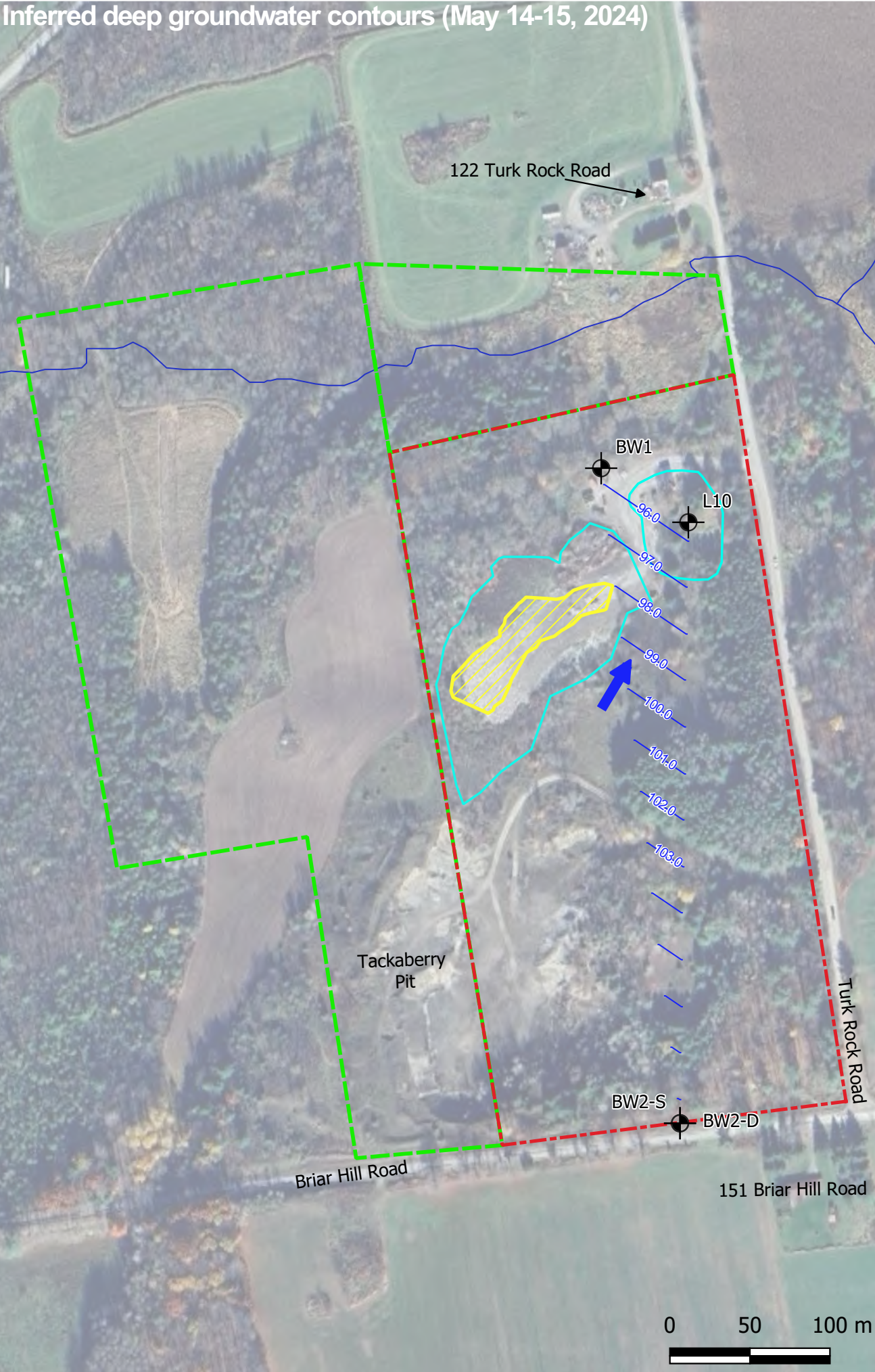
R0	2025-03-21	issued in final	TV	PRK
Rev	Date	Description	By	Chkd

Inferred Shallow Groundwater Contours

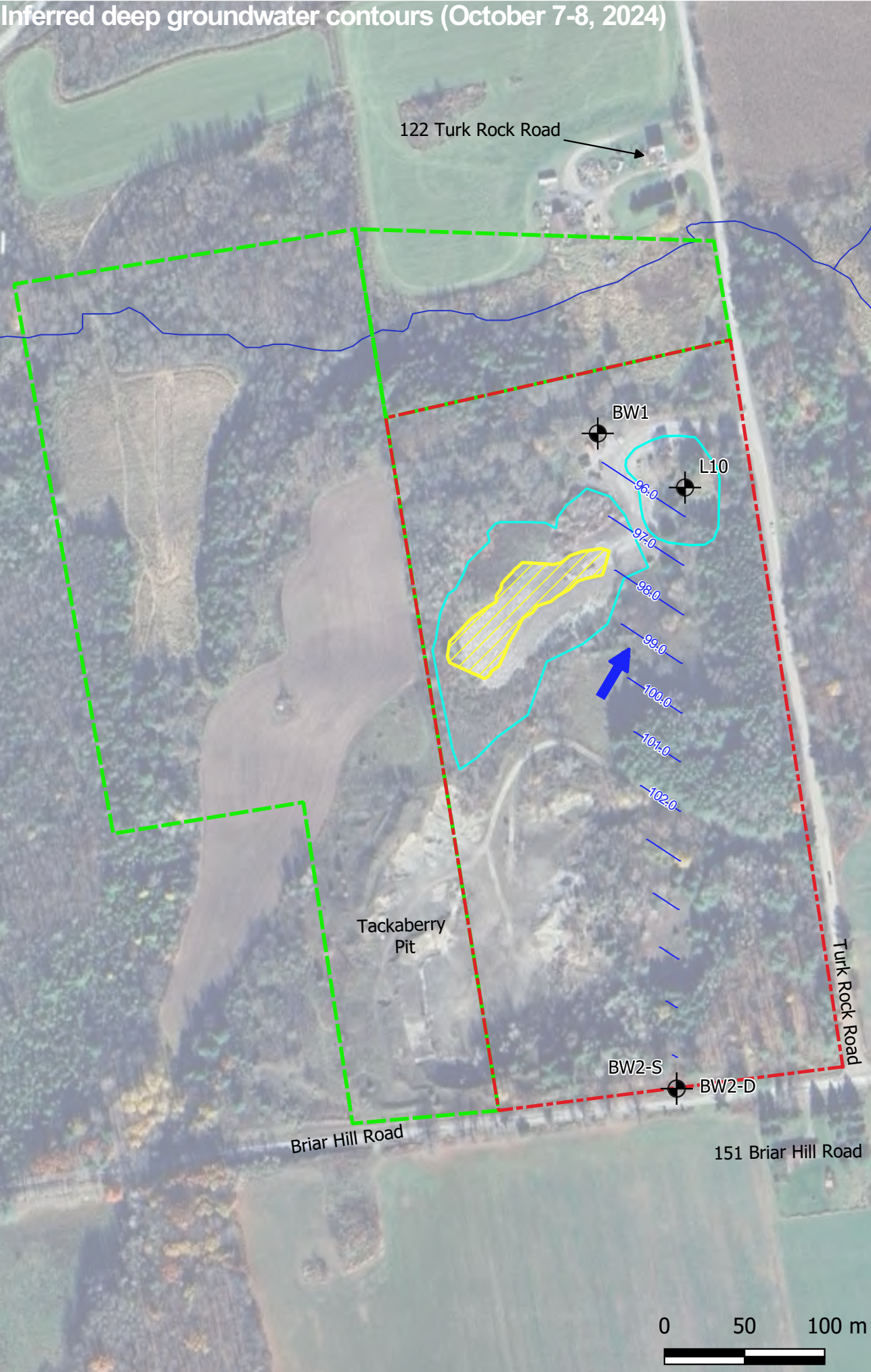
2024 Monitoring, Development, and Operations Report
Briar Hill Waste Disposal Site
Township of Leeds and the Thousand Islands

File:1036-127.00

Inferred deep groundwater contours (May 14-15, 2024)



Inferred deep groundwater contours (October 7-8, 2024)



N

North

Legend

approximate site boundary

approximate CAZ boundary

approximate total landfill area

approximate current landfill area

approximate location of shallow groundwater well location and elevation (masl)

stream

inferred groundwater contour (masl; 1.0 m intervals)

inferred direction of groundwater flow

Data Sources: Figure based on Malroz field observations and Google Earth imagery; Groundwater contours interpolated using Surfer software.

R0	2025-03-21	issued in final	TV	PRK
Rev	Date	Description	By	Chkd

Inferred Deep Groundwater Contours

2024 Monitoring, Development, and Operations Report
Briar Hill Waste Disposal Site
Township of Leeds and the Thousand Islands

Appendix B

Tables

Table 1
Well Inspection Observations 2024

Location	UTMs (NAD83, Zone 18T) [1]		Well Type Protective Casing	Well Construction Material	Well Integrity [2]			Well Observations [2]
	Easting	Northing			Locked	Capped	Condition [3]	
OW1	407025	4933152	none	2" schedule 40 PVC	Y	J-Plug	fair	-
OW6R1	406990	4933223	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW7R1	406943	4933201	steel monument	2" schedule 40 PVC	Y	J-Plug	good	iron staining observed on piezometer
OW15-S	406679	4932999	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW15-D	406679	4932999	steel monument	2" schedule 40 PVC	Y	J-Plug	good	iron staining observed on piezometer
OW17	406928	4933232	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW18	406939	4933253	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW19	406713	4933030	none	2" schedule 40 PVC	Y	J-Plug	fair	-
OW20	406678	4932745	none	2" schedule 40 PVC	Y	J-Plug	good	-
OW21	406711	4932922	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW22	406837	4933032	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW23	406679	4932999	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW24R01	407033	4933275	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
OW25	406821	4932928	steel monument	2" schedule 40 PVC	Y	J-Plug	good	-
BW1	406962	4933139	steel monument	2" schedule 40 PVC	Y	Slip cap	good	-
BW2-S	407004	4932730	flush mount	2" schedule 40 PVC	N	J-Plug	good	nested with BW2-D
BW2-D	407004	4932730	flush mount	1.5" schedule 40 PVC	N	J-Plug	good	nested with BW2-S
L2	407022	4933138	none	2" schedule 40 PVC	Y	J-Plug	fair	-
L10	407009	4933106	none	2" schedule 40 PVC	Y	J-Plug	fair	-
L11	407016	4933111	none	2" schedule 40 PVC	Y	J-Plug	fair	-

Notes: [1] Coordinates based on survey data obtained from 2017 survey completed by Malroz

[2] Well inspection completed on May 14-15, 2024 and October 7-8, 2024

[3] Well conditions ranked as: good (no maintenance required), fair (minor maintenance required), poor (requires maintenance or abandonment)

- not applicable

Data Input: TV

Data Check: PRK

Table 2
Surface Water Station Observations

		Coordinates (NAD 1983, UTM Zone 18N)				Flow Conditions		Notes
		2024-05-14	2024-10-07			2024-05-14	2024-10-07	
Location	Northing (m)	Easting (m)	Northing (m)	Easting (m)				
SW1	4933275	467036	4933275	467036	lotic	lotic		Located upstream from the Briar Hill landfill, adjacent to Turk Rock Road. SW1 is intended to represent background surface water quality for the landfill site.
SW4	4933211	406633	4933211	406633	lotic	lotic		Located approximately 300m downstream from the Briar Hill landfill waste area, in a forested area between two agricultural fields. SW4 is located downstream of the culvert running under the agricultural access road, in the vicinity of OW24, northwest of the site.
SW5	4933197	406403	4933197	406403	lotic	lentic		Located approximately 500m downstream from the Briar Hill landfill waste area, next to Fortune Line Road. SW5 is located upstream of the culvert running under Fortune Line Road.

Note: surface water station locations recorded using a Garmin 64SX handheld GPS

Data Input: TV
 Data Check: BB

Table 3
Groundwater Monitoring Observations

Date	DTW	TOP	Grade	Groundwater	Methane	Purge Water Observations		
Location	(mbTOP)	Elevation (masl)	Elevation (masl) [1]	Elevation (masl)	Concentration (%LEL)	Colour	Odour	Sediment
2024-05-14 to 15 Shallow Monitoring Wells								
L2	7.65	103.24	102.23	95.59	nr	cloudy brown	none	abundant
L11	8.84	104.50	103.38	95.66	nr	none	musty	none
OW1	7.20	102.79	101.85	95.59	nr	cloudy brown	none	abundant
OW6R1	0.94	96.17	95.59	95.23	nr	cloudy brown	none	abundant
OW7R1	1.45	96.78	96.05	95.33	nr	orange brown	none	trace
OW15-D	0.05	94.70	-	94.65	nr	dark grey	earthy	abundant
OW15-S	0.74	94.63	94.04	93.89	nr	light grey	earthy	abundant
OW17	0.94	95.96	94.87	95.02	<1	cloudy brown	none	abundant
OW18	1.96	97.17	96.18	95.21	nr	cloudy brown	none	abundant
OW19	3.77	103.40	102.30	99.63	92	light brown	sulphur	trace
OW20	3.67	100.82	99.96	97.15	nr	light grey	none	trace
OW21	1.43	97.20	96.48	95.77	nr	light brown	earthy	trace
OW22	4.76	102.99	102.18	98.23	1	none	none	none
OW23	0.69	95.05	94.04	94.36	<1	none	none	none
OW24R01	0.58	94.70	93.74	94.12	nr	none	none	none
OW25	9.77	107.00	106.30	97.23	nr	medium brown	organic	abundant
2024-05-14 to 15 Deep Monitoring Wells								
BW1	7.13	102.83	101.87	95.70	nr	none	none	none
BW2-D	8.80	114.13	-	105.33	<1	none	none	none
BW2-S	5.63	114.13	-	108.50	nr	cloudy	none	trace
L10	8.61	104.20	103.41	95.59	<1	cloudy brown	none	some
2024-10-07 to 08 Shallow Monitoring Wells								
L2	7.84	103.24	102.23	95.40	nr	insufficient water to collect sample		
L11	9.01	104.50	103.38	95.49	nr	light brown	organic	some
OW1	7.37	102.79	101.85	95.42	nr	insufficient water to collect sample		
OW6R1	1.14	96.17	95.59	95.03	nr	cloudy grey	none	abundant
OW7R1	1.57	96.78	96.05	95.21	nr	cloudy brown	none	abundant
OW15-D	0.55	94.70	-	94.15	nr	cloudy grey	none	abundant
OW15-S	0.97	94.63	94.04	93.66	nr	grey	none	abundant
OW18	2.22	97.17	96.18	94.95	nr	grey	none	abundant
OW19	3.77	103.40	102.30	99.63	94	insufficient water to collect sample		
OW20	4.25	100.82	99.96	96.57	nr	cloudy grey	none	abundant
OW21	1.70	97.20	96.48	95.50	nr	brown	none	abundant
OW22	4.82	102.99	102.18	98.17	nr	none	none	none
OW23	1.15	95.05	94.04	93.90	nr	none	none	none
OW24R01	1.01	94.70	93.74	93.69	[2]	none	none	none
OW25	10.40	107.00	106.30	96.60	nr	cloudy brown	none	abundant
2024-10-07 to 08 Deep Monitoring Wells								
BW1	7.35	102.83	101.87	95.48	nr	none	none	none
BW2-D	9.39	114.13	-	104.74	[2]	none	none	none
BW2-S	6.50	114.13	-	107.63	[2]	grey	none	abundant
L10	8.79	104.20	103.41	95.41	<1	none	none	none

Notes: %LEL denotes lower explosive limit
 DTW denotes depth to water
 masl denotes meters above mean sea level
 mbTOP denotes meters below top of piezometer
 nr denotes no response from full gas response
 - denotes data not available
 [1] elevation of wells based on survey data provided by the Township of Leeds and the Thousand Islands and Malroz 2017 survey
 [2] headpace vapours unable to be measured due to equipment malfunction

Data Input: TV
 Data Check: BB

Table 4
Overburden Groundwater Analytical Results

				Location	L11		L2		OW1		OW15-S		OW15-D		OW17	
				Sample ID	24-W025	24-W040	24-W012	-	24-W013	-	24-W001	24-W047	24-W002	24-W029	24-W022	24-W052
				Date	2024-05-16	2024-10-08	2024-05-14	2024-10-08	2024-05-14	2024-10-08	2024-05-14	2024-10-07	2024-05-14	2024-10-07	2024-05-15	2024-10-12
Parameters	Units	R.L.	ODWS	RULs (2024)	Former Landfill Leachate		Downgradient		Downgradient		Western CAZ		Western CAZ		North CAZ	
Alkalinity	mg/L	5	30-500	OG	366	578	490	286	dry conditions	350	544	523	567	553	275	323
Total Dissolved Solids	mg/L	3	500	AO	373	628	551	619		849	662	679	699	720	500	383
Conductivity	µS/cm	1				1170	1030	1150		1560	1230	1260	1290	1330	940	734
pH	pH Units	-	6.5 - 8.5	OG		7.43	7.72	7.81		7.91	7.86	7.77	7.59	7.57	7.97	8.00
Chloride	mg/L	0.5	250	AO	126	8.8	27.7	191		278	71.3	73.7	75.3	77.3	87.9	20.5
N - Nitrate	mg/L	0.05	10	CS	2.55	5.97	3.15	0.32		1.26	<0.05	<0.05	<0.05	<0.05	3.19	<0.05
N - Nitrite	mg/L	0.05	1	CS	0.29	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	500	AO	261	21	17	22		15	47	48	48	49	77	48
BOD	mg/L	3				3	4	6		<3	4	<3	<3	<3	<3	<3
Total Suspended Solids	mg/L	3				560	3500	1060		142	16900	27900	3660	3280	514	38300
Phosphorus (total)	mg/L	0.01				0.50	0.43	0.64		0.11	13.4	19.9	3.99	1.43	1.48	9.08
Total Kjeldahl - N	mg/L	0.1				1.0	0.9	2.2		0.1	1.2	1.2	1.4	1.4	0.4	2.5
Ammonia (N)	mg/L	0.05				0.10	0.31	0.10		<0.05	0.08	<0.05	1.24	1.18	0.06	<0.05
DOC	mg/L	0.2	5	AO	3.23	6.6	4.9	2.7		1.9	5.1	4.3	6.8	6.2	4.2	3.3
Phenols	mg/L	0.001				<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5				94	38	98		38	387	205	79	60	39	159
Hardness	mg/L	0.02	80-100	OG	176	619	568	442		546	600	643	598	640	244	333
Aluminum	mg/L	0.01	0.1	OG	0.070	0.06	0.05	0.05		0.05	0.06	0.05	0.05	0.05	0.03	0.02
Barium	mg/L	0.001	1	CS	0.381	0.609	0.518	0.509		0.758	0.312	0.339	0.460	0.489	0.027	0.321
Boron	mg/L	0.005	5	CS	1.26	0.108	0.046	0.009		0.021	0.242	0.276	0.308	0.328	0.014	0.049
Calcium	mg/L	0.02				188	167	125		142	132	145	151	164	63.6	71.5
Iron	mg/L	0.005	0.3	AO	0.184	<0.005	<0.005	<0.005		<0.005	1.56	2.21	2.10	2.25	0.031	<0.005
Magnesium	mg/L	0.02				36.4	36.6	31.7		46.2	66.0	67.9	53.4	55.7	20.7	37.5
Manganese	mg/L	0.001	0.05	AO	0.034	<0.001	0.026	<0.001		<0.001	0.044	0.045	0.253	0.293	0.002	0.031
Potassium	mg/L	0.1				9.5	5.9	1.6		2.9	3.3	3.8	9.2	9.0	4.5	2.1
Sodium	mg/L	0.2	200	AO [1]	102	8.5	13.5	52.2		104	41.6	43.7	51.6	54.4	94.3	13.3
Strontium	mg/L	0.001				0.401	0.288	0.192		0.208	0.773	0.792	0.615	0.606	0.188	0.312
Zinc	mg/L	0.005	5	AO	2.503	0.007	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005
Arsenic	mg/L	0.0001	0.01	CS	0.0028	<0.0001	<0.0001	0.0002		<0.0001	0.0007	0.0004	0.0009	0.0008	0.0010	0.0001
Cadmium	mg/L	0.000015	0.005	CS	0.001	0.000052	0.000047	<0.000015		<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000047	0.000018
Chromium	mg/L	0.001	0.05	CS	0.013	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001				0.0023	0.0027	0.0002		0.0002	0.0005	0.0004	0.0008	0.0010	0.0002	0.0002
Copper	mg/L	0.0001	1	AO	0.5003	0.0037	0.0023	0.0009		0.0023	0.0015	0.0001	0.0007	0.0002	0.0032	0.0009
Lead	mg/L	0.00002	0.01	CS	0.0026	0.00010	0.00005	<0.00002		0.00005	0.00004	0.00003	0.00005	0.00005	0.00008	0.00003
Silver	mg/L	0.0001				<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	0.02	CS	0.0059	0.00091	0.00079	0.00018		0.00062	<0.00005	<0.00005	0.00246	0.00256	0.00688	0.00060
Vanadium	mg/L	0.0001				0.0002	0.0002	0.0002		<0.0001	0.0002	0.0001	0.0001	0.0001	0.0002	0.0001
Mercury	mg/L	0.00002	0.001	CS	0.0003	0.00002	<0.00002	<0.00002		0.00004	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Temperature (field)	C°	-	15	AO		22.91	-	15.80		15.16	13.89	13.41	9.30	10.53	9.88	12.69
pH (field)	-	-	6.5-8.5	OG		7.52	-	7.88		7.75	6.69	7.03	6.91	6.78	7.22	6.74
DO (field)	mg/L	-				8.51	-	3.17		6.97	2.49	1.65	1.26	1.07	5.99	12.48
Conductivity (field)	mS/cm	-				1.03	-	0.958		1.43	0.98	1.19	1.28	1.23	0.726	0.631
Un-ionized Ammonia (field) [2]	mg/L	0.001				0.002	-	0.002		<0.001	<0.001	<0.001	0.002	0.001	<0.001	<0.001

Notes:

R.L. denotes reporting limit

RUL denotes reasonable use limit as described by Guideline B-7

CAZ denotes Contaminant Attenuation Zone

Dup. denotes duplicate sample

<# denotes results below reporting limit

- denotes not analyzed / not applicable

Groundwater samples analyzed for metals were field filtered using 0.45 micron filters

[1] The local medical health officer should be notified when the sodium concentration exceeds 20 mg/L

[2] Unionized Ammonia calculated using field parameters for pH and temperature

Bold data denotes exceedance of RUL

Orange shading denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020) OG = Operational Guideline AO = Aesthetic Objective, CS = Chemical Standard

(table cont'd)

Table 4 (cont'd)
Overburden Groundwater Analytical Results

					Location	OW18		OW20		OW21		OW22		OW23	
					Sample ID	24-W021	24-W050	24-W007	24-W051	24-W005	24-W032	24-W015	24-W039	24-W027	24-W030
					Date	2024-05-14	2024-10-08	2024-05-14	2024-10-08	2024-05-14	2024-10-07	2024-05-14	2024-10-08	2024-05-16	2024-10-08
Parameters	Units	R.L.	ODWS		RULs (2024)	Compliance North CAZ		Background		Western CAZ		Leachate Impacted		Compliance Western CAZ	
Alkalinity	mg/L	5	30-500	OG	366	320	302	252	230	202	194	621	626	208	201
Total Dissolved Solids	mg/L	3	500	AO	373	388	374	246	244	236	241	909	913	250	252
Conductivity	µS/cm	1				743	719	476	472	456	467	1660	1670	484	487
pH	pH Units	-	6.5 - 8.5	OG		7.96	8.04	8.03	8.16	7.94	8.09	7.58	7.58	8.03	8.09
Chloride	mg/L	0.5	250	AO	126	14.6	20.3	1.2	1.1	10.2	11.0	140	131	6.3	5.9
N - Nitrate	mg/L	0.05	10	CS	2.55	1.32	<0.05	<0.05	<0.05	3.94	4.18	8.74	8.05	0.05	<0.05
N - Nitrite	mg/L	0.05	1	CS	0.29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	500	AO	261	59	54	17	19	13	13	37	31	36	40
BOD	mg/L	3				<3	<3	<3	<3	<3	<3	<3	<3	5	<3
Total Suspended Solids	mg/L	3				46500	186000	1440	3640	544	2460	<3	5	6	4
Phosphorus (total)	mg/L	0.01				6.14	5.45	1.27	1.34	0.40	0.64	0.03	0.08	0.01	0.04
Total Kjeldahl - N	mg/L	0.1				0.5	1.4	0.2	0.2	0.2	0.2	1.2	1.4	<0.1	0.2
Ammonia (N)	mg/L	0.05				<0.05	0.06	<0.05	<0.05	0.15	<0.05	0.09	0.12	0.14	0.09
DOC	mg/L	0.2	5	AO	3.23	3.4	2.2	2.0	1.7	2.4	1.4	11.6	9.8	2.4	3.6
Phenols	mg/L	0.001				0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5				141	85	43	44	33	27	42	28	<5	<5
Hardness	mg/L	0.02	80-100	OG	176	373	392	252	260	232	249	617	626	242	261
Aluminum	mg/L	0.01	0.1	OG	0.070	0.04	0.03	0.02	0.02	0.03	0.02	0.06	0.06	0.02	0.02
Barium	mg/L	0.001	1	CS	0.381	0.229	0.199	0.138	0.159	0.260	0.287	0.336	0.316	0.119	0.126
Boron	mg/L	0.005	5	CS	1.26	0.027	0.018	<0.005	0.007	0.020	0.022	0.297	0.340	0.059	0.073
Calcium	mg/L	0.02				90.3	90.8	54.9	57.4	56.8	61.9	182	186	54.1	57.7
Iron	mg/L	0.005	0.3	AO	0.184	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	0.030	0.167	0.117	0.104
Magnesium	mg/L	0.02				35.9	40.1	28.0	28.4	22.0	22.9	39.2	39.4	26.0	28.3
Manganese	mg/L	0.001	0.05	AO	0.034	0.002	0.015	0.002	0.010	<0.001	<0.001	0.243	0.452	0.013	0.015
Potassium	mg/L	0.1				13.0	2.6	1.6	1.6	1.2	1.4	28.9	29.7	1.8	2.0
Sodium	mg/L	0.2	200	AO [1]	102	8.4	8.4	4.6	4.7	3.4	3.7	130	127	6.3	6.8
Strontium	mg/L	0.001				0.203	0.173	0.136	0.138	0.116	0.121	0.499	0.504	0.426	0.501
Zinc	mg/L	0.005	5	AO	2.503	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	0.01	CS	0.0028	0.0003	0.0002	0.0002	0.0001	<0.0001	<0.0001	0.0003	0.0003	0.0005	0.0006
Cadmium	mg/L	0.000015	0.005	CS	0.001	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000026	0.000031	<0.000015	<0.000015
Chromium	mg/L	0.001	0.05	CS	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001				0.0003	0.0005	0.0001	0.0002	0.0001	0.0001	0.0008	0.0018	<0.0001	0.0001
Copper	mg/L	0.0001	1	AO	0.5003	0.0029	0.0007	0.0013	0.0006	0.0011	0.0004	0.0068	0.0050	0.0002	0.0002
Lead	mg/L	0.00002	0.01	CS	0.0026	0.00004	<0.00002	0.00002	<0.00002	<0.00002	<0.00002	0.00008	0.00013	<0.00002	<0.00002
Silver	mg/L	0.0001				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	0.02	CS	0.0059	0.00325	0.00315	0.00180	0.00132	0.00059	0.00061	0.00059	0.00080	0.00064	0.00048
Vanadium	mg/L	0.0001				0.0005	0.0003	<0.0001	<0.0001	0.0005	0.0005	<0.0001	<0.0001	<0.0001	<0.0001
Mercury	mg/L	0.00002	0.001	CS	0.0003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00003	<0.00002	<0.00002	<0.00002
Temperature (field)	C°	-	15	AO		8.44	10.53	10.89	11.02	11.80	12.28	19.33	12.16	14.78	14.41
pH (field)	-	-	6.5-8.5	OG		7.10	7.78	7.26	8.17	7.24	7.97	6.14	6.92	7.20	7.44
DO (field)	mg/L	-				2.55	1.10	1.08	2.55	9.12	5.68	0.00	0.00	0.00	0.00
Conductivity (field)	mS/cm	-				0.736	0.688	0.464	0.449	0.430	0.445	1.62	1.62	0.490	0.459
Un-ionized Ammonia (field) [2]	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Notes: R.L. denotes reporting limit
RUL denotes reasonable use limit as described by Guideline B-7
CAZ denotes Contaminant Attenuation Zone
Dup. denotes duplicate sample
<# denotes results below reporting limit
- denotes not analyzed / not applicable
Groundwater samples analyzed for metals were field filtered using 0.45 micron filters
[1] The local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
[2] Unionized Ammonia calculated using field parameters for pH and temperature

Bold data denotes exceedance of RUL

Orange shading denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020) OG = Operational Guideline AO = Aesthetic Objective, CS = Chemical Standard

(table cont'd)

Table 4 (cont'd)
Overburden Groundwater Analytical Results

					Location	OW24R01		OW25		OW6R1		OW7R1		QA/QC			
					Sample ID	24-W004	24-W045	24-W010	24-W033	24-W018	24-W048	24-W019	24-W049	24-W026	24-W028	24-W031	24-W046
					Date	2024-05-14	2024-10-07	2024-05-14	2024-10-07	2024-05-15	2024-10-08	2024-05-15	2024-10-08	Dup. of 24-W025	Dup. of 24-W027	Dup. of 24-W030	Dup. of 24-W045
Parameters	Units	R.L.	ODWS		RULs (2024)	Compliance Western CAZ		Western CAZ		North CAZ		North CAZ					
Alkalinity	mg/L	5	30-500	OG	366	254	244	226	179	415	388	316	452	578	210	203	244
Total Dissolved Solids	mg/L	3	500	AO	373	287	289	218	182	589	553	424	710	627	251	250	293
Conductivity	µS/cm	1				554	558	422	354	1100	1040	807	1310	1160	486	483	565
pH	pH Units	-	6.5 - 8.5	OG		7.90	8.04	8.05	8.09	7.71	7.91	7.74	7.76	7.37	8.13	8.14	8.03
Chloride	mg/L	0.5	250	AO	126	5.7	6.1	0.9	<0.5	103	86.4	39.1	93.0	8.9	6.3	6.1	6.0
N - Nitrate	mg/L	0.05	10	CS	2.55	<0.05	<0.05	0.24	0.21	1.01	1.05	0.06	<0.05	6.03	0.07	<0.05	<0.05
N - Nitrite	mg/L	0.05	1	CS	0.29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	500	AO	261	41	42	4	3	19	19	54	109	21	36	40	42
BOD	mg/L	3				4	<3	<3	<3	<3	<3	<3	<3	3	<3	<3	<3
Total Suspended Solids	mg/L	3				14	36	20600	185	3640	1980	330	82	1320	<3	4	36
Phosphorus (total)	mg/L	0.01				0.07	0.08	0.94	0.05	1.09	0.47	0.18	0.05	0.52	0.01	0.05	0.08
Total Kjeldahl - N	mg/L	0.1				0.3	0.2	0.6	<0.1	0.4	0.2	1.8	2.0	1.1	<0.1	0.1	0.2
Ammonia (N)	mg/L	0.05				0.15	0.05	<0.05	<0.05	0.18	<0.05	1.71	1.56	0.11	0.05	0.10	<0.05
DOC	mg/L	0.2	5	AO	3.23	3.3	2.8	2.2	1.2	3.3	2.7	6.5	7.7	6.0	2.1	2.4	2.9
Phenols	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5				13	6	88	11	52	18	27	23	89	5	<5	8
Hardness	mg/L	0.02	80-100	OG	176	282	304	197	201	446	434	293	533	613	241	260	304
Aluminum	mg/L	0.01	0.1	OG	0.070	0.03	0.03	0.03	0.02	0.04	0.04	0.03	0.05	0.07	0.02	0.02	0.03
Barium	mg/L	0.001	1	CS	0.381	0.243	0.265	0.359	0.374	0.759	0.732	0.255	0.482	0.604	0.118	0.126	0.264
Boron	mg/L	0.005	5	CS	1.26	0.045	0.050	0.008	0.010	0.066	0.075	0.229	0.336	0.110	0.060	0.069	0.050
Calcium	mg/L	0.02				70.9	77.8	50.5	52.0	125	123	83.7	154	185	53.5	57.4	77.7
Iron	mg/L	0.005	0.3	AO	0.184	0.820	0.908	0.007	<0.005	0.005	<0.005	0.439	0.694	<0.005	0.118	0.129	0.924
Magnesium	mg/L	0.02				25.4	26.7	17.3	17.4	32.6	31.0	20.5	36.3	36.5	26.2	28.2	26.6
Manganese	mg/L	0.001	0.05	AO	0.034	0.039	0.045	<0.001	<0.001	0.001	0.002	0.327	0.571	<0.001	0.013	0.014	0.045
Potassium	mg/L	0.1				1.4	1.5	1.1	1.0	2.7	2.8	16.3	25.5	9.6	1.8	2.0	1.5
Sodium	mg/L	0.2	200	AO [1]	102	7.6	8.0	2.9	1.3	61.5	57.6	47.0	79.7	8.5	6.3	6.9	8.0
Strontium	mg/L	0.001				0.557	0.572	0.066	0.059	0.305	0.288	0.291	0.523	0.404	0.429	0.500	0.570
Zinc	mg/L	0.005	5	AO	2.503	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	0.01	CS	0.0028	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.0002	<0.0001	0.0005	0.0006	<0.0001
Cadmium	mg/L	0.000015	0.005	CS	0.001	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000039	0.000045	0.000060	<0.000015	<0.000015	<0.000015
Chromium	mg/L	0.001	0.05	CS	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001				0.0001	0.0002	0.0002	0.0001	0.0003	0.0004	0.0045	0.0087	0.0022	<0.0001	0.0001	0.0002
Copper	mg/L	0.0001	1	AO	0.5003	0.0007	0.0002	0.0009	0.0005	0.0023	0.0011	0.0031	0.0028	0.0042	<0.0001	<0.0001	0.0001
Lead	mg/L	0.00002	0.01	CS	0.0026	0.00002	<0.00002	0.00002	0.00004	0.00004	0.00002	0.00007	0.00005	0.00011	<0.00002	<0.00002	<0.00002
Silver	mg/L	0.0001				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	0.02	CS	0.0059	<0.00005	<0.00005	0.00334	0.00019	0.00046	0.00050	0.00041	0.00078	0.00090	0.00065	0.00046	<0.00005
Vanadium	mg/L	0.0001				<0.0001	<0.0001	0.0001	<0.0001	0.0002	0.0003	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001
Mercury	mg/L	0.00002	0.001	CS	0.0003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00003	<0.00002	<0.00002	<0.00002	<0.00002
Temperature (field)	C°	-	15	AO		-	17.02	10.88	11.23	8.99	12.41	11.11	12.81	22.91	14.78	14.41	17.02
pH (field)	-	-	6.5-8.5	OG		8.00	7.09	7.67	7.95	6.88	7.61	7.54	7.33	7.52	7.20	7.44	7.09
DO (field)	mg/L	-				0.00	0.00	9.02	6.45	3.97	2.75	0.00	1.16	8.51	0.00	0.00	0.00
Conductivity (field)	mS/cm	-				0.515	0.506	0.411	0.360	1.06	0.961	0.741	1.15	1.03	0.490	0.459	0.506
Un-ionized Ammonia (field) [2]	mg/L	0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.012	0.008	0.002	<0.001	<0.001	<0.001

Notes:

R.L. denotes reporting limit
RUL denotes reasonable use limit as described by Guideline B-7
CAZ denotes Contaminant Attenuation Zone
Dup. denotes duplicate sample
<# denotes results below reporting limit
- denotes not analyzed / not applicable

Groundwater samples analyzed for metals were field filtered using 0.45 micron filters
[1] The local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
[2] Unionized Ammonia calculated using field parameters for pH and temperature

Bold data denotes exceedance of RUL

Orange shading denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020) OG = Operational Guideline AO = Aesthetic Objective, CS = Chemical Standard

Data Input: TV
Data Check: BB

Malroz Engineering Inc.

Table 5
Bedrock Groundwater Analytical Results

					Location Sample ID	BW1		BW2-D		BW2-S		L10		151 Fortune Line Rd.	
					Date RUL (2024)	24-W014 2024-05-15	24-W042 2024-10-08	24-W023 2024-05-15	24-W038 2024-10-07	24-W022 2024-05-15	24-W037 2024-10-07	24-W017 2024-05-15	24-W041 2024-10-08	24-W009 2024-05-14	24-W034 2024-10-07
Parameters	Units	R.L.	ODWS			Downgradient		Background		Background		Leachate Impacted		Compliance	
Alkalinity	mg/L	5	30-500	OG	379	444	341	212	239	275	262	788	771	206	215
Total Dissolved Solids	mg/L	3	500	AO	580	543	451	277	332	500	513	1020	1030	682	752
Conductivity	µS/cm	1				1020	855	535	639	940	963	1850	1880	1260	1380
pH	pH Units	-	6.5 - 8.5	OG		7.82	7.93	8.12	8.09	7.97	8.05	7.53	7.67	8.07	8.08
Chloride	mg/L	0.5	250	AO	166	41.1	44.8	34.4	39.1	87.9	88.4	113	119	156	187
N - Nitrate	mg/L	0.05	10	CS	7.19	<0.05	<0.05	1.07	3.97	3.19	3.27	<0.05	<0.05	<0.05	<0.05
N - Nitrite	mg/L	0.05	1	CS	0.29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	500	AO	327	49	42	15	18	77	84	87	83	158	167
BOD	mg/L	3				<3	<3	<3	<3	<3	<3	3	<3	<3	<3
Total Suspended Solids	mg/L	3				10	9	<3	5	514	710	62	65	<3	<3
Phosphorus (total)	mg/L	0.01				0.04	0.06	0.04	0.02	1.48	0.46	0.06	0.05	0.02	0.01
Total Kjeldahl - N	mg/L	0.1				1.9	1.9	0.1	0.2	0.4	0.3	14.1	21.9	0.2	0.2
Ammonia (N)	mg/L	0.05				1.78	1.57	0.07	<0.05	0.06	<0.05	13.9	13.7	0.09	<0.05
DOC	mg/L	0.2	5	AO	4.0	7.3	5.9	1.6	1.8	4.2	2.8	15.1	15.9	3.3	1.9
Phenols	mg/L	0.001				<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5				18	8	9	<5	39	90	87	53	21	11
Hardness	mg/L	0.02	80-100	OG	198	451	385	256	309	244	294	747	781	1.21	1.68
Aluminum	mg/L	0.01	0.1	OG	0.080	0.04	0.04	0.03	0.03	0.03	0.03	0.08	0.06	0.01	<0.01
Barium	mg/L	0.001	1	CS	0.267	0.181	0.148	0.154	0.170	0.027	0.03	0.126	0.129	<0.001	<0.001
Boron	mg/L	0.005	5	CS	1.26	0.874	0.858	0.005	0.009	0.014	0.016	1.22	1.24	0.419	0.442
Calcium	mg/L	0.02				120	103	66.2	77.0	63.6	75.9	202	213	0.38	0.54
Iron	mg/L	0.005	0.3	AO	0.186	1.22	0.772	<0.005	<0.005	0.031	<0.005	7.87	7.94	0.034	0.024
Magnesium	mg/L	0.02				36.7	31.1	22.0	28.3	20.7	25.4	58.7	60.5	0.06	0.08
Manganese	mg/L	0.001	0.05	AO	0.032	0.177	0.146	0.001	0.008	0.002	<0.001	0.062	0.060	0.002	0.001
Potassium	mg/L	0.1				5.9	5.6	1.6	1.7	4.5	3.3	37.5	37.3	0.5	0.3
Sodium	mg/L	0.2	200	AO [1]	164	41.0	38.0	9.1	16.4	94.3	96.6	102	104	284	316
Strontium	mg/L	0.001				3.28	2.74	0.149	0.176	0.188	0.219	0.877	0.878	0.012	0.016
Zinc	mg/L	0.005	5	AO	2.504	<0.005	<0.005	<0.005	0.008	0.021	0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	0.01	CS	0.0029	0.0003	0.0002	<0.0001	0.0002	0.0010	0.0009	0.0002	0.0004	<0.0001	<0.0001
Cadmium	mg/L	0.000015	0.005	CS	0.001	<0.000015	<0.000015	<0.000015	<0.000015	0.000047	0.00005	<0.000015	<0.000015	<0.000015	<0.000015
Chromium	mg/L	0.001	0.05	CS	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Cobalt	mg/L	0.0001				0.0004	0.0003	0.0001	0.0002	0.0002	0.0002	0.0008	0.0019	0.0008	0.0001
Copper	mg/L	0.0001	1	AO	0.5009	0.0006	0.0003	0.0009	0.0007	0.0032	0.0007	0.0006	0.0005	0.0034	0.0006
Lead	mg/L	0.00002	0.01	CS	0.0026	0.00004	<0.00002	<0.00002	<0.00002	0.00008	<0.00002	0.00005	<0.00004	0.00007	0.00003
Silver	mg/L	0.0001				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	0.02	CS	0.0130	0.00151	0.00108	0.00059	0.00175	0.00688	0.00848	0.00050	0.00105	<0.00005	<0.00005
Vanadium	mg/L	0.0001				<0.0001	<0.0001	0.0005	0.0005	0.0002	0.0003	0.0008	0.0018	<0.0001	<0.0001
Mercury	mg/L	0.00002	0.001	CS	0.0003	<0.00002	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00003	<0.00002	<0.00002	<0.00002
Temperature (field)	C°	-	15	AO		12.28	10.81	11.64	10.05	12.91	11.88	13.86	10.05	16.75	12.08
pH (field)	-	-	6.5-8.5	OG		7.83	7.64	8.16	7.66	7.94	7.68	7.54	7.00	8.54	8.43
DO (field)	mg/L	-				0.00	0.00	0.00	1.58	1.77	3.25	1.77	0.68	0.00	3.23
Conductivity (field)	mS/cm	-				0.894	0.825	0.498	0.618	0.825	0.907	1.72	1.80	1.21	1.29
Un-ionized Ammonia (field) [2]	mg/L	0.01				0.026	0.013	0.002	<0.001	0.001	<0.001	0.120	0.025	0.009	<0.001

Notes: R.L. denotes reporting limit
RUL denotes reasonable use limit as described by Guideline B-7
CAZ denotes Contaminant Attenuation Zone
<# denoted results below reporting limit
- denotes not analyzed / not applicable
Groundwater samples analyzed for metals were field filtered using 0.45 micron filters
[1] The local medical health officer should be notified when the sodium concentration exceeds 20 mg/L
[2] Unionized Ammonia calculated using field parameters for pH and temperature

Bold data denotes exceedance of RUL
Orange shading denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020) OG = Operational Guideline AO = Aesthetic Objective, CS = Chemical Standard

Data Input: TV
Data Check: BB

Table 6
Groundwater VOC Analytical Results

Parameters	Units	RL (May, 2024)	ODWS	Overburden Wells				Bedrock Wells	
				Location	OW15-S	OW15-D	OW22	L10	
				Sample ID Date	24-W001 2024-05-14	24-W002 2024-05-14	24-W015 2024-05-14	24-W017 2024-05-14	
					Western CAZ	Western CAZ	Leachate Impacted	Leachate Impacted	
Acetone	µg/L	30			<30	<30	<30	<30	
Benzene	µg/L	0.5	1 CS		<0.5	<0.5	<0.5	<0.5	
Bromobenzene	µg/L	0.4			<0.4	<0.4	<0.4	<0.4	
Bromodichloromethane	µg/L	2			<2	<2	<2	<2	
Bromoform	µg/L	5			<5	<5	<5	<5	
Bromomethane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
Carbon tetrachloride	µg/L	0.2	2 CS		<0.2	<0.2	<0.2	<0.2	
Chloroethane	µg/L	3			<3	<3	<3	<3	
Chlorobenzene	µg/L	0.5	80 CS		<0.5	<0.5	<0.5	<0.5	
Chloroform	µg/L	1			<1	<1	<1	<1	
Chloromethane	µg/L	2			<2	<2	<2	<2	
2-Chlorotoluene	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
4-Chlorotoluene	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
1,2-Dibromo-3-Chloropropane	µg/L	0.6			<0.6	<0.6	<0.6	<0.6	
Dibromochloromethane	µg/L	2			<2	<2	<2	<2	
Dichlorodifluoromethane	µg/L	2			<2	<2	<2	<2	
1,2-Dichlorobenzene	µg/L	0.5	200 CS		<0.5	<0.5	<0.5	<0.5	
1,3-Dichlorobenzene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,4-Dichlorobenzene	µg/L	0.5	5 CS		<0.5	<0.5	<0.5	<0.5	
1,1-Dichloroethane	µg/L	0.5			<0.5	<0.5	<0.5	1.5	
1,2-Dichloroethane	µg/L	0.5	5 CS		<0.5	<0.5	<0.5	<0.5	
1,1-Dichloroethylene	µg/L	0.5	14 CS		<0.5	<0.5	<0.5	<0.5	
cis-1,2-Dichloroethylene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
trans-1,2-Dichloroethylene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,2-Dichloropropane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,3-Dichloropropane	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
2,2-Dichloropropane	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
cis-1,3-Dichloropropylene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,3-Dichloropropylene,trans	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,3-Dichloropropene, cis+trans	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,1-Dichloropropene	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
Ethylbenzene	µg/L	0.5	140 CS		<0.5	<0.5	<0.5	<0.5	
Hexachlorobutadiene	µg/L	0.6			<0.4	<0.4	<0.4	<0.4	
n-Hexane	µg/L	5			<5	<5	<5	<5	
Methyl Ethyl Ketone	µg/L	20			<2	<2	<2	<2	
Isopropylbenzene	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
4-Isopropyltoluene	µg/L	0.2			<0.2	<0.2	<0.2	<0.2	
Methyl Butyl Ketone	µg/L	5			<5	<5	<5	<5	
Methyl Isobutyl Ketone	µg/L	20			<20	<20	<20	<20	
Methyl-t-butyl Ether	µg/L	2			<2	<2	<2	<2	
Methylene Chloride	µg/L	5			<5	<4	<5	<5	
Naphthalene	µg/L	0.4			<0.4	<0.4	<0.4	<0.4	
n-Butylbenzene	µg/L	0.4			<0.4	<0.4	<0.4	<0.4	
n-Propylbenzene	µg/L	0.1			<0.1	<0.1	<0.1	<0.1	
sec-Butylbenzene	µg/L	0.1			<0.1	<0.1	<0.1	<0.1	
Styrene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
tert-Butylbenzene	µg/L	0.1			<0.1	<0.1	<0.1	<0.1	
1,1,1,2-Tetrachloroethane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
Tetrachloroethylene	µg/L	0.5	10 CS		<0.5	<0.5	<0.5	<0.5	
Toluene	µg/L	0.5	60 CS		<0.5	<0.5	<0.5	<0.5	
1,2,3-Trichlorobenzene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,2,4-Trichlorobenzene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,1,1-Trichloroethane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,1,2-Trichloroethane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
Trichloroethylene	µg/L	0.5	5 CS		<0.5	<0.5	<0.5	<0.5	
Trichlorofluoromethane	µg/L	5			<5	<5	<5	<5	
1,2,3-Trichloropropane	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
1,2,4-Trimethylbenzene	µg/L	1			<1	<1	<1	<1	
1,3,5-Trimethylbenzene	µg/L	0.1			<0.1	<0.1	<0.1	<0.1	
Vinyl chloride	µg/L	0.2	1 CS		<0.2	<0.2	<0.2	<0.2	
m+p-Xylenes	µg/L	1			<1	<1	<1	<1	
o-Xylene	µg/L	0.5			<0.5	<0.5	<0.5	<0.5	
Xylenes (Total)	µg/L	1.1	90 90		<1.1	<1.1	<1.1	<1.1	

Notes: AO aesthetic objective OG operational objective CS chemical standards

RL denotes reporting limit

Orange shading denotes 2003 Ontario Drinking Water Quality Standards (ODWS) (as updated in 2020)

Data Input: TR

Data Check: BB

Table 7
Groundwater PFAS Analytical Results

Parameters	Units	L.O.R (2024)	Health Canada PFAS Screening Values	MECP Drinking Water Screening Values for Perfluorinated Chemicals	Location	OW22	OW23	OW24R01	151 Fortune Line Rd.
					Sample ID	24-W015	24-W008	24-W004	24-W009
					Date	2024-05-14	2024-05-14	2024-05-14	2024-05-14
					Leachate Impacted	Compliance Western CAZ	Compliance Western CAZ	Compliance Western CAZ	Compliance
eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11Cl-PF3OUdS]	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
N-Et PFO sulfonamide (EtFOSA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
N-Et PFO sulfonamidoacetic acid(EtFOSAA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
N-Et PFO sulfonamidoethanol (EtFOSE)	ug/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
4:2 Fluorotelomer sulfonic acid(4:2 FTS)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
6:2 Fluorotelomer sulfonic acid(6:2 FTS)	µg/L	0.02	0.2		<0.02	<0.02	<0.02	<0.02	<0.02
8:2 Fluorotelomer sulfonic acid(8:2 FTS)	µg/L	0.02	0.2		<0.02	<0.02	<0.02	<0.02	<0.02
hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9Cl-PF3ONS]	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
hexafluoropropylene oxide dimer acid [HFPO-DA] (GenX)	µg/L	1			<1	<1	<1	<1	<1
N-Me PFO sulfonamide (MeFOSA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
N-Me PFO sulfonamidoacetic acid(MeFOSAA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
N-Me PFO sulfonamidoethanol (MeFOSE)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.02	15		0.056	<0.02	<0.02	<0.02	<0.02
Perfluorobutanoic acid (PFBA)	µg/L	0.1	30		<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	µg/L	0.02	0.2		0.056	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.02	0.6		0.04	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	µg/L	0.02	0.2		0.286	<0.02	<0.02	<0.02	<0.02
perfluorononanesulfonic acid [PFNS]	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorononanoic acid (PFNA)	µg/L	0.02	0.02		<0.02	<0.02	<0.02	<0.02	<0.02
perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonamide (PFOSA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.02	0.6		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	µg/L	0.02	0.2		0.1080	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentanoic acid (PFPeA)	µg/L	0.02	0.2		0.28	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02			<0.02	<0.02	<0.02	<0.02	<0.02
PFOA & PFOS [1]	-	-	1		0.270	<0.02	<0.02	<0.02	<0.02
Sum of all reported PFAS compound concentrations [2]	µg/L	0.005		0.7	0.826	<	<	<	<

Notes: L.O.R. denotes limit of reporting

Orange denotes concentration exceeds the Health Canada PFAS Screening Values

Bold data denotes concentration exceeds MECP Drinking Water Screening Values for Perfluorinated Chemicals

[1] Sum of the two parameters PFDA and PFOS

[2] Sum of all reported PFAS compound concentrations calculated as the highest detection limit for each sample

Data Input: TR

Data Check: BB

Table 8
Surface Water Analytical Results

				Location		SW1		SW4		SW5	
				Sample ID		24-W011	24-W036	24-W003	24-W044	24-W006	24-W035
				Date		2024-05-14	2024-10-07	2024-05-14	2024-10-07	2024-05-14	2024-10-07
Parameters	Units	R.L.	PWQO (mg/L)	Table A: Assessment Criteria for Waste Disposal Sites (mg/L)	Table B: Alternative Review Criteria (mg/L)	Background		Western CAZ		Offsite Downstream	
Alkalinity	mg/L	5	[2]			215	236	233	265	239	263
Total Dissolved Solids	mg/L	3				234	270	254	311	254	308
Conductivity	µS/cm	1				452	522	491	599	490	594
pH	pH Units	-	6.5-8.5	6.0 - 9.0		8.08	8.28	8.05	8.28	8.12	8.36
Chloride	mg/L	0.5		180	128	7.0	10.0	9.8	18.3	10.1	18.2
N - Nitrate	mg/L	0.05			2.9	1.24	0.56	1.13	0.85	0.97	0.84
N - Nitrite	mg/L	0.05			0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1		100		13	23	14	26	12	25
BOD	mg/L	3				4	<3	5	<3	4	<3
Total Suspended Solids	mg/L	3				20	<3	14	102	11	3
Phosphorus (total)	mg/L	0.01	0.02			0.06	0.05	0.07	0.03	0.06	0.04
Total Kjeldahl - N	mg/L	0.1				0.8	0.9	0.8	0.4	0.6	0.4
Ammonia (N)	mg/L	0.05				0.09	0.06	0.17	0.10	0.13	<0.05
Ammonia, unionized (lab)	mg/L	0.01	0.02	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DOC	mg/L	0.2				6.6	4.8	6.9	4.9	8.0	6.0
Phenols	mg/L	0.001	0.001	0.04 [3]	0.004 [3]	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
COD	mg/L	5				38	12	33	20	31	11
Hardness	mg/L	1				227	278	246	294	246	303
Aluminum	mg/L	0.01	0.075 [4]			0.03	0.02	0.03	0.02	0.03	0.02
Barium	mg/L	0.001		2.3		0.137	0.228	0.150	0.237	0.145	0.240
Boron	mg/L	0.005	0.2	3.55	1.5	0.014	0.022	0.026	0.056	0.024	0.057
Calcium	mg/L	0.02				57.0	67.9	62.5	73.6	62.9	76.1
Iron	mg/L	0.005	0.3	1		0.734	0.217	0.710	0.270	0.519	0.243
Magnesium	mg/L	0.02				20.5	26.3	21.9	26.7	21.6	27.4
Manganese	mg/L	0.001				0.087	0.031	0.120	0.038	0.101	0.024
Potassium	mg/L	0.1				1.3	2.4	1.7	3.9	1.6	4.0
Sodium	mg/L	0.2				5.4	6.6	7.3	12.0	7.3	12.3
Strontium	mg/L	0.001				0.230	0.275	0.243	0.285	0.256	0.300
Zinc	mg/L	0.005	0.02	0.089	0.03	0.019	<0.005	0.016	0.005	0.015	<0.005
Arsenic	mg/L	0.0001	0.005	0.15		0.0003	0.0003	0.0003	0.0002	0.0003	0.0002
Cadmium	mg/L	0.000015	0.0005 [5]	0.00021	0.000017	0.000024	<0.000015	0.000022	<0.000015	0.000017	<0.000015
Chromium	mg/L	0.001	[6]	0.064		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001	0.0009			0.0004	0.0002	0.0005	0.0004	0.0004	0.0003
Copper	mg/L	0.0001	0.005 [7]	0.0069		0.0012	0.0006	0.0011	0.0007	0.0011	0.0007
Lead	mg/L	0.00002	0.005 [8]	0.002		0.00039	0.00008	0.00030	0.00006	0.00020	0.00006
Nickel	mg/L	0.0002	0.025			0.0006	0.0004	0.0007	0.0009	0.0007	0.0010
Silver	mg/L	0.0001	0.0001			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Vanadium	mg/L	0.0001	0.006			0.0020	0.0007	0.0016	0.0004	0.0015	0.0005
Mercury	mg/L	0.00002	0.0002			<0.00002	<0.00002	0.00003	<0.00002	0.00003	<0.00002
Temperature (field)	C°	-				15.01	13.20	13.71	11.50	14.04	13.79
pH (field)	-	-	6.5-8.5	6.0 - 9.0		8.20	8.28	8.15	8.13	8.39	8.26
DO (field)	mg/L	-	[9]			8.06	5.38	8.40	8.60	10.01	6.25
Conductivity (field)	uS/cm	-				0.433	0.506	0.433	0.595	0.462	0.578
Un-ionized Ammonia (field) [1]	mg/L	0.01	0.02	0.1		0.004	0.003	0.006	0.003	0.008	<0.001

Notes: R.L. denotes reporting limit

- denotes not analyzed / not applicable

<# denotes results below reporting limit

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

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

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

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

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

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

[7] Copper criteria <20 mg/L Hardness = 0.001 mg/L, >20 mg/L Hardness = 0.005 mg/L

[8] Lead criteria: <20 mg/L Hardness = 0.005 mg/L, 20 to 40 mg/L Hardness = 0.010 mg/L, 40 to 80 mg/L Hardness = 0.020 mg/L, >80 mg/L Hardness = 0.025 mg/L

[9] 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

Orange shading denotes concentration exceeds the 2003 Ontario Drinking Water Quality Standards (as updated in 2020) OG = Operational Guideline AO = Aesthetic Objective, CS = Chemical Standard

Bold 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)

Red text 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: TV

Data Check: BB

Appendix C

ECA and Monitoring Plan

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A442103
Issue Date: April 14, 2024

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

Site Location: 114 Turk Rock Rd
Leeds and the Thousand Islands Township, United Counties of Leeds and Grenville
K0E 1N0

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 2.4 hectare waste disposal landfilling/transfer site within a total site area of 16 hectares.

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

"Adverse Effect" means adverse effect as defined in the EPA;

"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. 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;

"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;

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

“Site” means the entire waste disposal site, including the buffer lands, and contaminant attenuation zone at Briar Hill Landfill Site, Ward 2, Township of Leeds and the Thousand Islands, Lot 18, Concession 11, 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, as defined in the EPA, 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 the 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 thirty (30) 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 or the Township Municipal office 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 or the Township Municipal office 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 the working face and recycling areas.
4. The Owner shall provide signs at recycling area 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:

Monday 8:30 a.m. - 4:45 p.m.
Wednesday 8:30 a.m. - 4:45 p.m.
Thursday 8:30 a.m. - 4:45 p.m.
Saturday 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.

Stormwater Management

12. The Site shall be maintained to prevent erosion or washing of fill, liner or cover material. Regular grading shall be carried out to drain rain water and snow melt water from fill areas and to prevent standing water.

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

Daily Log Book

1. A daily 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) of all waste and cover material received at the *Site*.
 - b. Notwithstanding condition 6.1.a, for household users a count of number of users and an estimated quantity of waste may be recorded;
 - c. the area of the *Site* in which waste disposal operations are taking place;
 - d. a record of litter collection activities and the application of any dust suppressants;
 - e. a record of the daily inspections; and
 - f. 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.
2. 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

3. 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.
4. A record of the inspections shall be kept in a daily 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.
5. A record shall be kept in the daily log book of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

Annual Report

6. A written report on the development, operation and monitoring of the *Site*, shall be

completed annually (Annual Report). The Annual Report shall be submitted to the District Manager, by March 31st of the year following the period being reported upon.

7. The Annual Report shall include but not be limited to the following information:
 - a. the results and an interpretive analysis of the results of all leachate, groundwater, surface water and landfill gas monitoring, including an assessment of the need to amend the monitoring programs;
 - b. In the event that the results of the monitoring program are such that an off-site exceedance of the RUP, ODWS, PWQO or 30 ng/L PFAS value can reasonably be predicted to occur, the Owner shall include:
 - i. the details of any such predicted off-site exceedance, including the assumptions upon which the prediction is based;
 - ii. a discussion of the modifications, if any, to intended operations which would be necessary to prevent the predicted off-site exceedance;
 - iii. a discussion of the modifications, if any, which should be made to the monitoring program; and
 - iv. a discussion of other mitigation measures or contingency actions, if any, which may be necessary to prevent off-site impacts and/or establishment of a Contamination Attenuation Zone (CAZ).
 - c. an assessment of the operation and performance of all engineered facilities, the need to amend the design or operation of the Site, and the adequacy of and need to implement the contingency plans;
 - d. site plans showing the existing contours of the Site; areas of landfilling operation during the reporting period; areas of intended operation during the next reporting period; areas of excavation during the reporting period; the progress of final cover, vegetative cover, and any intermediate cover application; facilities existing, added or removed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;
 - e. calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the Site during the reporting period and a calculation of the total volume of Site capacity used during the reporting period;
 - f. a calculation of the remaining capacity of the Site and an estimate of the remaining Site life;
 - g. a summary of the weekly, maximum daily and total annual quantity (tonnes) of waste received at the Site and recyclables transferred from the Site;
 - h. a summary of any complaints received and the responses made;
 - i. a discussion of any operational problems encountered at the Site and corrective action taken;
 - j. any changes to the Design and Operations Report and the Closure Plan that have been approved by the Director since the last Annual Report;
 - k. a report on the status of all monitoring wells and a statement as to compliance with Reg. 903; and

1. any other information with respect to the Site which the District Manager may require from time to time.

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 three (3) business days from their occurrence.

Capacity

4. Maximum volumetric capacity approved for the Site, consisting of the waste, daily cover, intermediate cover and the final cover is 85,600 cubic metres. This volume does not include the historical volume of waste deposited prior to May 2003 within the 1.5 hectare area of the old landfill.

Service Area

5. Only waste that is generated within the boundaries of the Township of Leeds and the Thousand Islands may be accepted at the Site.

Design and Operations Report

6. Within one hundred and eighty (180) days from the date of this Approval, the Owner shall submit for the Director's approval, a Design and Operations Report that includes as a minimum the following information:
 - a. proposed landfill design including the footprint, final contours, capacity and an estimate of the amount of existing waste;
 - b. an estimate of waste types and quantities to be landfilled at the site and recycling and resource recovering activities at the Site;
 - c. location and description of the access road and the on-site roads at the Site;
 - d. description and location of the fencing and the gate(s);
 - e. screening of the Site from the public, both visual and the protection from the noise

- impact;
- f. details of the clean surface water drainage from the Site and any works required to prevent extraneous surface water from contacting the active working face;
- g. description of the fill method, the equipment used at the Site, the areas used for various fill methods of landfilling, and timelines for various phases of the Site development;
- h. the operating hours of the Site and the hours for the various activities to be undertaken at the Site, including waste compaction, waste coverage and other activities within the Site;
- i. details on winter operations;
- j. the equipment used and the procedures used for waste deposition, spreading and covering;
- k. details on supervision and monitoring of the activities at the Site;
- l. details on handling of other wastes, including the types and amounts of wastes handled, storage locations, storage facility design/description and the frequency of removal from the Site;
- m. details on housekeeping practices undertaken to control noise, dust, litter, odour, rodents, insects and other disease vectors, scavenging birds or animals;
- n. details on the closure of the Site, including the description of the final cover and its estimated permeability, its thickness, the source of the final cover material, the thickness of the top soil and the vegetation proposed for the closed waste mound, as well as the timeframe for the progressive waste coverage;
- o. monitoring program for the surface and ground water;
- p. site-specific trigger mechanism program for the implementation of the groundwater and surface water, contingency measures and a description of such measures;
- q. landfill gas control or management required at the Site;
- r. maintenance activities proposed for the Site and for the monitoring well network, including the type of the activities, the frequency of the activities and the personnel responsible for them;
- s. inspection activities proposed for the Site, including the frequency of the activities and the personnel responsible for them;
- t. details of training provided for the personnel responsible for the activities at the Site;
- u. contingency plans for the emergency situations that may occur at the Site;
- v. storm water management, including the location and the design of any works required; and
- w. any other information relevant to the design and operation of the Site or the information required by the District Manager.

Cover

7. Alternative materials to soil may be used as weekly and interim cover material, based on an application with supporting information and applicable fee for a trial use or permanent use, submitted by the Owner to the Director, copied to the District Manager and as

approved by the Director via an amendment to this Approval. The alternative material shall be non-hazardous according to Reg. 347 and will be expected to perform at least as well as soil in relation to the following functions:

- a. Control of blowing litter, odours, dust, landfill gas, gulls, vectors, vermin and fires;
- b. Provision for an aesthetic condition of the landfill during the active life of the Site;
- c. Provision for vehicle access to the active tipping face; and
- d. Compatibility with the design of the Site for groundwater protection, leachate management and landfill gas management.

8. Cover material shall be applied as follows:

- a. **Weekly Cover** - Weather permitting, deposited waste shall be covered **weekly** in a manner acceptable to the District Manager 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 medium permeability and 150 millimetres of top soil (vegetative cover) shall be placed. Fill areas shall be progressively completed and rehabilitated as landfill development reaches final contours.

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 ground water in accordance with the monitoring programs outlined in Schedules 2 and 3.
4. All groundwater PFAS sampling results shall be compared for compliance to a standard of 30 ng/L for the sum of all detected PFAS compounds in each sample. The District Manager, with the guidance of the MECP's Technical Assessment and Standards Development Branch, may change this compliance standard without approval of the Director.
5. 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.

Notification

6. If a result of any sample collected from the untreated residential water supply at 122 Turk Rock Road or 151 Fortune Line Road has a total PFAS concentration at or greater than 30 ng/L, the Owner shall immediately notify the District Manager.

Groundwater Wells and Monitors

7. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
8. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.
9. 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

10.
 - a. Within three (3) months from acquiring contaminant attenuation zone to the west of the fill area, 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 three (3) months from acquiring contaminant attenuation zone to the west of the fill area, 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.
11. 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.
12. 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.
13. 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

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

15. 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. At least two (2) years prior to closure, the Owner shall submit to the Director for approval, with copies to the District Manager, a detailed Site closure plan pertaining to the termination of landfilling operations at this Site, post-closure inspection, maintenance and monitoring, and end use. The plan shall include the following as a minimum but are not limited to:
 - a. a plan showing Site appearance after closure;
 - b. a description of the proposed end use of the Site, that shall include a discussion on the Environmental Assessment commitments (if applicable) to dedicate portion of the lands within the Site that are not required for site post-closure operations and monitoring, to be used for community recreational purpose;
 - c. a description of how pollinator friendly plants were considered in the final vegetative cover for the landfill and/or in the landscaping within the Site;
 - d. a description of the procedures for closure of the Site:
 - i. advance notification of the public of the landfill 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;
 - v. removal of unnecessary landfill-related structures, buildings and facilities; and
 - vi. final construction of any control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;
 - e. a schedule indicating the time-period for implementing sub-conditions i to vi above.
 - f. descriptions 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;
 - ii. record keeping and reporting; and
 - iii. complaint contact and response procedures;
 - g. an assessment of the adequacy of and need to implement the contingency plans for leachate and methane gas; and

- h. an updated estimate of the Contaminating Life Span of the Site, based on the results of the monitoring programs to date.
- 2. The Site shall be closed in accordance with the closure plan as approved by the Director.

10. WASTE DIVERSION

- 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. Propane cylinders shall be stored in a segregated area in a manner which prevents cylinders from being knocked over or cylinder valves from breaking.
- 4. The Owner shall transfer waste and recyclable materials from the Site as follows:
 - a. recyclable materials shall be transferred off-site once their storage bins are full;
 - b. scrap metal shall be transferred off-site at least twice a year;
 - c. 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

- d. storage capacity of its bunker; and immediately, in the event that waste is creating an odour or vector problem.
- 5. The Owner shall notify the appropriate contractors that waste and recyclable wastes that are to be transferred off-site are ready for removal. Appropriate notice time, as determined by the contract, shall be accommodated in the notification procedure.
- 6. Collection, storage and transfer of Waste Electrical and Electronic Equipment shall be in accordance with the documents in the Schedule 1. If there is any discrepancy between the guideline titled "Collection Site Organizing & Operating Waste Electrical and Electronic Equipment (WEEE) Guidebook" dated November 2012 as amended prepared by Ontario Electronic Stewardship and the documents in Schedule 1, the guideline shall take precedence.

Schedule 2
Surface Water Monitoring Plan

Monitoring Locations :SW1, SW4 & SW5	
frequency: Spring and Fall	
Lab Parameters	
Alkalinity	Arsenic
Ammonia	Barium
Ammonia (UI)(N)	Boron
BOD	Cadmium
COD	Chromium
DOC	Calcium
Conductivity	Cobalt
Hardness	Copper
pH	Iron
Phenols	Lead
Phosphorous, total	Magnesium
Phosphorous, total dissolved	Manganese
TDS	Nickel
TSS	Potassium
Total Kjeldahl - N	Silver
Chloride	Sodium
Nitrate	Strontium
Nitrite	Vanadium
Sulphate	Zinc
Aluminum, dissolved	
Mercury, dissolved	
Field Parameters	
pH	
N-NH3 unionized (Calc)	
Temperature	
Dissolved Oxygen	
Conductivity	

Schedule 3
Groundwater Monitoring Plan
Table 3.1

Spring and Fall Sampling: BW1, BW2(s/d), OW1, OW6R1, OW7R1, OW15(s/d), OW17, OW18, OW19, OW20, OW21, OW22, OW23, OW24R01, OW25, Residential well at 122 Turk Rock Road	
Spring annually :L2, L10, L11	
Lab Parameters	
Alkalinity	Arsenic
Ammonia	Barium
BOD	Boron
COD	Cadmium
DOC	Chromium
Conductivity	Calcium
Hardness	Cobalt
pH	Copper
Phenols	Iron
Phosphorous, total	Lead
TDS	Magnesium
TSS	Manganese
Total Kjeldahl - N	Potassium
Chloride	Silver
Nitrate	Sodium
Nitrite	Strontium
Sulphate	Uranium
Mercury	Vanadium
Aluminum	Zinc
Field Parameters	
pH	
N-NH3 unionized (Calc)	
Temperature	
Dissolved Oxygen	
Conductivity	

Table 3.2
Annual Spring and VOC

Groundwater VOCs (L10, OW15 -S, OW15-D, OW19, OW22)	
Acetone	Ethylbenzene
Benzene	Hexachlorobutadiene
Bromobenzene	Hexane
Bromodichloromethane	Isopropylbenzene
Bromoform	4-Isopropyltoluene
Bromomethane	Methyl Butyl Ketone
Carbon Tetrachloride	Methyl Ethyl Ketone
Chloroethane	Methyl Isobutyl Ketone
Chloroform	Methyl tert-butyl ether
Chloromethane	Chlorobenzene
2-Chlorotoluene	Naphthalene
4-Chlorotoluene	n-Butylbenzene
1,2-Dibromo-3-Chloropropane	n-Propylbenzene
Dibromochloromethane	sec-Butylbenzene
1,2-Dibromoethane	Styrene
Dibromomethane	tert-Butylbenzene
1,2-Dichlorobenzene	1,1,1,2-Tetrachloroethane
1,3-Dichlorobenzene	1,1,2,2-Tetrachloroethane
1,4-Dichlorobenzene	Tetrachloroethylene Toluene
Dichlorodifluoromethane	1,2,3-Trichlorobenzene
1,1-Dichloroethane	1,2,4-Trichlorobenzene
1,2-Dichloroethane	1,1,1-Trichloroethane
1,1-Dichloroethylene	1,1,2-Trichloroethane
cis-1,2-Dichloroethylene	Trichloroethylene
trans-1,2-Dichloroethylene	Trichlorofluoromethane
Methylene Chloride	1,2,3-Trichloropropane
1,2-Dichloropropane	1,2,4-Trimethylbenzene
1,3-Dichloropropane	1,3,5-Trimethylbenzene
2,2-Dichloropropane	Vinyl Chloride
cis-1,3-Dichloropropene	m/p-Xylene
trans-1,3-Dichloropropene	o-Xylene
1,3-Dichloropropene, total	Xylenes, total
1,1-Dichloropropene	

Table 3.3
Table 3.3-Annual Sampling and PFAS

Groundwater PFAS: 122 Turk Rock Road and 151 Fortune Line Road, OW22, OW23, and OW24R01
eicosafluoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11Cl-PF3OUdS] ethyl perfluorooctanesulfonamide, n- [NEtFOSA] ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA] ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE] fluorotelomer sulfonic acid, 10:2 [10:2 FTS] fluorotelomer sulfonic acid, 4:2 [4:2 FTS] fluorotelomer sulfonic acid, 6:2 [6:2 FTS] fluorotelomer sulfonic acid, 8:2 [8:2 FTS] hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9Cl-PF3ONS] hexafluoropropylene oxide dimer acid [HFPO-DA] (GenX) methyl perfluorooctanesulfonamide, n- [NMeFOSA] methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA] methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE] perfluorobutanesulfonic acid [PFBS] perfluorobutanoic acid [PFBA] perfluorodecanesulfonic acid [PFDS] perfluorodecanoic acid [PFDA] perfluorododecanoic acid [PFDoA] perfluoroheptanesulfonic acid [PFHpS] perfluoroheptanoic acid [PFHpA] perfluorohexanesulfonic acid [PFHxS] perfluorohexanoic acid [PFHxA] perfluorononanesulfonic acid [PFNS] perfluorononanoic acid [PFNA] perfluorononanoic acid, 4,8-dioxa-3H- [ADONA] perfluorooctanesulfonamide [PFOSA] perfluorooctanesulfonic acid [PFOS] perfluorooctanoic acid [PFOA] perfluoropentanesulfonic acid [PFPeS] perfluoropentanoic acid [PFPeA] perfluorotetradecanoic acid [PFTeDA] perfluorotridecanoic acid [PFTrDA] perfluoroundecanoic acid [PFUnA]

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 Conditions 1.3 and 7.6 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 Condition 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 and 6.3 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 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.
- The reason for condition 2.12 is to ensure the stormwater within the Site is managed in a manner which does not result in a hazard or nuisance to the natural environment.

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

- The reason for Conditions 6.1 and 6.2 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 6.4 and 6.5 is to ensure that detailed records of Site inspections are recorded and maintained for inspection and information purposes.

- The reasons for Conditions 6.6 and 6.7 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 7.5 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.
- Condition 7.7 is to provide the Owner the process for getting the approval for alternative daily and intermediate cover material.
- The reasons for Condition 7.8 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.

LANDFILL MONITORING

- Reasons for Condition 8.1 are to ensure that off-site migration of 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, 8.4, 8.5 and 8.6 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 8.7, 8.8 and 8.9 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 8.10 to 8.13 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 8.14 and 8.15 are included to streamline the approval of the changes to the monitoring plan.

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 ensure that the recyclable materials 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). A442103 issued on August 20, 2015

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land 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 ("the Notice") 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:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

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 Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.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 14th day of April, 2024



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.
, Malroz Engineering Inc.

Appendix D

Photos



1. View of the landfill sign at front gate.
(May 2024)



2. Brush and leaf pile.
(May 2024)



3. Active waste pile.
(May 2024)



4. Wind-blown litter scattered south of
active waste pile.
(May 2024)



5. Ponded water in fill area.
(May 2024)



6. OW22.
(May 2024)



7. OW19 and OW22.
(May 2024)



8. BW1.
(October 2024)



9. OW6R1.
(October 2024)



10. OW1.
(October 2024)



11. SW5.
(October 2024)



12. SW4.
(October 2024)

Appendix E

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

August 8, 2024

TO: N. Matthews
Environmental Compliance Officer
Kingston District Office
Eastern Region

FROM: Amanda Tse
Hydrogeologist (Acting)
Technical Support Section
Eastern Region

RE: Briar Hill Waste Disposal Site
2023 Annual Monitoring, Development, and Operations Report
114 Turk Rock Road
Part of Lot 18, Concession 11
Township of Leeds and the Thousand Islands
Amended Environmental Compliance Approval A442103

Purpose

I have reviewed the 2023 Annual Monitoring, Development, and Operations Report for the Briar Hill Waste Disposal Site (site) dated March 2024 and completed on behalf of the Township of Leeds and the Thousand Islands by Malroz Engineering Inc. (Malroz). I reviewed the report to evaluate the results and interpretations of the 2023 groundwater monitoring program and to determine site compliance with MOE Guideline B-7 / Reasonable Use Concept (RUC).

Summary

- The conceptual model for groundwater flow / contaminant transport is discharge of shallow impacted groundwater to the Morton Creek tributary located north of the landfill. Due to PFAS detections in compliance well OW24R01 (at levels not exceeding the Ministry's drinking water guideline) located north of the Morton Creek tributary, it is my interpretation that not all leachate impacted groundwater discharges to the surface water feature within the CAZ.
- Water quality results from 2023 groundwater monitoring locations indicate there were ODWS exceedances of hardness, TDS, chloride, aluminum, alkalinity, DOC, iron, manganese, temperature (field), and pH (field) in the downgradient monitoring wells. VOC detections in the downgradient monitoring wells were below detection limits; however, there were detections of PFAS at compliance monitoring well OW24R01.
- Natural attenuation appears to be occurring as wells closer to the waste mounds had higher concentrations than those further from the waste mounds.

- RUC exceedances were observed in downgradient compliance monitoring wells for DOC, hardness, TDS, chloride, aluminum, barium, nitrate, sodium, iron, and manganese.
- A regional surface water specialist should be consulted with respect to this site's conformance with other water management policies.
- Domestic drinking water well results indicate exceedances of ODWS for hardness, TDS, sodium, temperature (field), pH (field). Detections of PFAS were below detection limits in the residential wells. I recommend continual monitoring of the groundwater quality at the domestic wells, including PFAS monitoring at the same locations monitored in 2023 with the addition of OW17 and OW18 to confirm if there are leachate impacts north of the tributary.
- I recommend the consultants submit a groundwater trigger mechanism and contingency plan for Ministry approval.
- I do not recommend any changes to the sampling and monitoring frequency for the landfill.
- Malroz has recommended that OW1 be reclassified as a downgradient well rather than a compliance well due to its proximity to the landfill, potential impacts from the roadway, and distance from CAZ perimeters. I agree that OW1 is likely better suited as a downgradient well.

Site Description

The Briar Hill Waste Disposal Site (WDS) operates as a solid non-hazardous waste disposal site and is located at 114 Turk Rock Road on part of Lot 18, Concession 11, within the Township of Leeds and the Thousand Islands, Ontario. The WDS is approved by amended Environmental Compliance Approval (ECA) A442103 and operates as a 2.4 hectare (ha) landfill area within a total site area of 16 ha. Prior to May 2003, waste was previously deposited at the Briar Hill WDS on the northeastern segment of the site (1.5 ha landfill area). Following the closure of the former landfill area, filling activities began to the west, near the centre of the property. The leased land located to the west of the site and the purchased land located to the north of the site are intended to serve as contamination attenuation zone (CAZ). The registration of the new property as a CAZ is on-going. The site is adjacent to an active sand and gravel pit to the south, an agricultural property and a forested area to the west, and an agricultural / residential property to the north. Turk Rock Road is adjacent to the eastern property boundary and a forested area is present further to the east. A portion of the shallow groundwater from the site appears to discharge to the unnamed Morton Creek tributary north of the site within the CAZ.

Environmental Compliance Approval

The Briar Hill WDS is an active landfill as described in ECA No. A442103, which was issued on August 20, 2015 and revised in 2024. The ECA permits the operation of a 2.4 ha landfilling area within a total 16 ha site. Prior to May 2003, waste was previously deposited within a 1.5 ha landfill area which has since been closed.

Geology

Based on Ontario Geological Survey (OGS) mapping, the Briar Hill WDS is underlain by glaciomarine deposits (clay and silt) and glaciofluvial deposits (sand and gravel). Overburden thickness varies and overlies Precambrian granitic gneiss in the southern two-thirds of the site, with the northern portion of the site underlain by carbonate metasedimentary rocks.

Based on historical drilling programs, the overburden is generally described as a fine-grained material (clay and sand). Several bedrock outcrops are present on-site in the southern portion of the site and in the forested area north of the waste fill area.

Hydrogeology

The site is located within the Great Lakes - St. Lawrence River watershed with the closest significant, permanent water body being an unnamed tributary of Morton Creek, located just north of the site.

Based on potentiometric groundwater levels measured in 2023, Malroz interprets the shallow groundwater from the site appears flow north and discharges to the unnamed Morton Creek tributary. Artesian conditions periodically observed at deeper groundwater well OW15-D suggests an upwards gradient and potential discharge to the Morton Creek tributary.

Background Water Quality

Background water quality is characterized by shallow monitoring well OW20 and deep monitoring wells BW2-S and BW2-D.

Ontario Drinking Water Standards (ODWS) were exceeded in the shallow background monitoring well OW20 for hardness. The deep background monitoring well BW2-S ODWS exceedances included hardness, total dissolved solids (TDS), and temperature while BW2-D only exceeded the ODWS for hardness.

Leachate Quality

Leachate Indicating Parameters (LIPs) at this site are alkalinity, ammonia, boron, chloride, conductivity, dissolved organic carbon (DOC), iron, and total dissolved solids (TDS). Monitoring well OW22 is considered representative of leachate impacted water within the shallow water table and monitoring well L10 is considered representative of leachate impacted groundwater within the deeper water table at the site. I also note that shallow monitoring well L11 is used to assess landfill leachate from the former landfill area.

Monitoring Well	ODWS Non-Conformance	
	Spring 2023	Fall 2023
Shallow Monitoring Wells		
OW22 (active landfill)	-Alkalinity -Dissolved Organic Carbon (DOC)	-Alkalinity -DOC

	-Hardness -Total Dissolved Solids (TDS) -Manganese	-Hardness -TDS -Manganese -Temperature
L11 (former landfill)	-Alkalinity -Hardness -TDS	-Alkalinity -DOC -Hardness -TDS
Deep Monitoring Well		
L10 (former landfill)	-Alkalinity -DOC -Hardness -TDS -Iron -Manganese	-Alkalinity -DOC -Hardness -TDS -Iron -Manganese

Downgradient Water Quality

Several monitoring wells were installed downgradient of the waste mounds to compare water quality against the ODWS. ODWS exceedances are outlined in the table below:

Monitoring Well	ODWS Non-Conformance	
	Spring 2023	Fall 2023
Shallow Monitoring Wells		
L2	-Hardness	Dry
OW1	-Hardness -TDS -Chloride	-Hardness -TDS -Chloride -Temperature (field)
OW19	-Alkalinity -DOC -Hardness -TDS -Iron -Manganese -pH (field)	Dry
OW22	-Alkalinity -DOC -TDS -Manganese	-Alkalinity -DOC -TDS -Manganese -Temperature (field)
OW7R1	-Hardness -Iron -Manganese	-Alkalinity -DOC -Hardness -TDS -Iron -Manganese
OW6R1	-Hardness -TDS	-DOC -Hardness -TDS
OW17	-Hardness -Manganese	-DOC -Hardness

		-Manganese
OW18	-Hardness -TDS	-DOC -Hardness -TDS
OW15S	-Alkalinity -Hardness -TDS -Iron	-Alkalinity -DOC -Hardness -TDS -Aluminum -Iron -Manganese
OW15D	-Alkalinity -Hardness -TDS -Iron -Manganese	-Alkalinity -DOC -Hardness -TDS -Iron -Manganese
OW24R01	-Hardness -Iron	-DOC -Hardness -Iron -Temperature (field)
OW25	-Hardness	-Hardness
OW23	-Hardness	-DOC -Hardness
OW21	-Hardness	-Hardness
Deep Monitoring Well		
BW1	-Hardness -TDS -Chloride -Iron -Manganese	-Hardness -Iron -Manganese

The 2023 sampling program indicated exceedances of ODWS for several LIPs.

Within the shallow groundwater, Malroz evaluated LIPs at leachate impacted well OW22, compliance well OW1, Northern CAZ well OW7R1, Northern CAZ compliance well OW18, and Western CAZ compliance well OW24R01.

- Alkalinity concentrations are consistent with previous years. Leachate wells exceeded the ODWS for alkalinity in addition to the downgradient well close to the active waste mound (OW19) and select wells within the CAZ (OW7R1 and OW15S/D).
- Ammonia concentrations are relatively low with concentrations decreasing with distance from the waste mound suggesting natural attenuation is occurring. There were no ODWS exceedances.
- Boron concentrations remained low, consistent with historical results and there were no ODWS exceedances.
- Chloride concentrations only exceeded ODWS in compliance well OW1 which was higher than the leachate wells indicating that leachate is not likely the source of the exceedance. This well is near a road and road salt is a possible contributor to the high chloride concentrations historically observed.

- Conductivity in the leachate wells is primarily elevated above the downgradient wells (with the exception of OW1 which was slightly higher than the former landfill leachate well L11).
- DOC increased in concentration for all wells in the fall when compared to historical results. There were several ODWS exceedances in the fall (including the compliance wells) and a couple in the spring. It is noted that DOC concentrations decrease with distance suggesting natural attenuation is occurring.
- Iron concentrations in select downgradient wells (OW19, OW7R1, OW15S/D, and OW24R01) exceeded the ODWS and were significantly elevated above the leachate wells suggesting iron may be attributed to natural sources such as granitic bedrock and soils.
- TDS concentration trends appear consistent with previous years. ODWS exceedances were observed in leachate wells as well as select downgradient wells including OW1, OW19, OW7R1, OW6R1, OW18, and OW15S/D. Concentrations appear to decrease with distance.

There were also non-LIP ODWS exceedances observed for hardness in all monitoring wells (including background), manganese in OW7R1, OW17, and OW15S/D, as well as aluminum in OW15S. Malroz interprets these exceedances may be influenced by natural sources.

Within the deep groundwater, Malroz evaluated LIPs at leachate impacted well L10, on-site downgradient well BW1, and compliance wells 122 Turk Rock Road and 151 Fortune Line Road. Comparison of compliance wells are provided in the Residential Groundwater Quality section of this memo.

- Alkalinity concentrations were similar to previous years with the only ODWS exceedance observed in the leachate well.
- Ammonia concentrations in the leachate well are significantly higher than the upgradient and downgradient wells, but below ODWS.
- Boron concentrations in all wells were below ODWS; however, the leachate well had the highest boron concentrations.
- Chloride concentrations at the leachate well were above background but below ODWS. Concentrations at BW1 were double the ODWS in the spring but fell to background levels in the fall.
- Conductivity in the leachate well is significantly greater than all other wells and is consistent with previous years.
- DOC concentrations were greater than ODWS in the leachate well. All other wells were below ODWS. The fall sampling showed an increase in concentrations, similar to the shallow well results.
- Iron concentrations exceeded the ODWS in the leachate well as well as the downgradient well BW1. Natural attenuation seems to be occurring due to the lower concentrations observed downgradient.
- TDS concentrations are consistent with historical concentrations. ODWS exceedances were observed in BW2-S (fall only), L10 (spring and fall), and B1 (spring only).

Volatile Organic Compounds (VOCs) were also assessed in monitoring wells OW22, OW15S/D, and L10. All parameters were below detection limits with the exception of L10, the deep leachate well, which had a detection of 1,1-Dichloroethane and cis-1,1-Dichloroethylene above detection limits in the spring and fall.

Per- and polyfluoroalkyl substances (PFAS) were assessed in OW22, OW23, OW24R01, 122 Turk Rock Road, and 151 Fortune Line Road. Several PFAS were detected in the leachate impacted well OW22. The remaining wells were below detection limits with the exception of compliance well OW24R01 which had two detections of PFAS compounds totaling to 0.009 µg/L. Based on the PFAS sampling program, Malroz interprets the leachate is not spreading into downgradient drinking water wells nor spreading beyond the surface water feature located north of the site. I agree with the interpretation that leachate is not spreading into downgradient drinking water wells; however, there are low level PFAS impacts located north of the Morton Creek tributary in OW24R01. This may suggest that not all groundwater is discharging to surface water located within the CAZ. The groundwater monitoring program includes annual PFAS monitoring at the same locations monitored in 2023. I recommend taking additional confirmatory PFAS samples from OW17 and OW18 to assess if leachate is potentially affecting groundwater north of the tributary.

Residential Groundwater Quality

Two domestic water supply wells, 122 Turk Rock Road and 151 Fortune Line Road, were included in the 2023 monitoring program. 122 Turk Rock Road is located immediately north of the northern CAZ while 151 Fortune Line Road is located northwest of the western CAZ.

Monitoring Well	ODWS Non-Conformance	
	Spring 2023	Fall 2023
122 Turk Rock Rd.	-Hardness -pH (field)	Site access not granted
151 Fortune Line Rd.	-Hardness -TDS -Sodium	-Hardness -TDS -Sodium -Temperature (field) -pH (field)

Of the LIPs, boron was slightly elevated above background, but remained below ODWS maximum concentrations. Chloride at 151 Fortune Line Road spiked to levels even exceeding the leachate well in the spring (below ODWS) but decreased to lower than background in the fall. The elevated chloride at 151 Fortune Line Road may be attributed to other sources such as road salting. This is further supported by conductivity being slightly elevated above background (but below ODWS) and sodium exceeding ODWS in compliance well 151 Fortune Line Road. It is also noted that there were exceedances of TDS at 151 Fortune Line Road similar to previous years. Malroz interprets the TDS exceedance to potentially be naturally occurring. All other LIPs were similar to or lower than background. In addition, it is noted that PFAS were not detected in the two residential wells sampled.

Regulatory Evaluation (Guideline B-7)

Malroz completed a Guideline B-7 assessment using compliance monitoring wells OW1 (shallow east), OW18 (shallow north), OW23 (shallow west), OW24R01 (shallow northwest), 151 Fortune Line Road (deep northwest), and 122 Turk Rock Road (deep north) to assess the reasonable use limits (RUL). Malroz interprets the conceptual model for groundwater flow / contaminant transport is the on-site discharge to the Morton Creek tributary located north of the waste mound within the CAZ, which ultimately flows towards Morton Creek. The primary leachate migration pathway is through groundwater before discharging to surface water.

Monitoring Well	RUC Non-Conformance	
	Spring 2023	Fall 2023
OW1 (shallow east)	-Hardness -TDS -Chloride -Barium -Sodium	-DOC -Hardness -TDS -Chloride -Aluminum -Barium -Sodium
OW18 (shallow north)	-DOC -Hardness -TDS -Nitrate	-DOC -Hardness -TDS
OW23 (shallow west)	-Hardness	-DOC -Hardness
OW24R01 (shallow northwest)	-Hardness -Iron -Manganese	-DOC -Hardness -Iron -Manganese
151 Fortune Line Road (deep northwest)	-TDS -Sodium	-DOC -TDS -Sodium
122 Turk Rock Road (deep north)	-Hardness	Dry

Although RULs suggest the site is non-compliant with Guideline B-7, Malroz interprets natural attenuation is occurring and the exceedances of the RUL are not leachate related with some instances where the background levels are higher than the RULs. I note that only hardness and DOC (OW20 only in the fall sampling event) exceeded the RULs in the background wells.

I can agree that it may be possible for some RUL exceedances to be attributed to other sources such as iron (which was localized and greatly exceeded the leachate wells), hardness (which was exceeded in the background wells), and sodium (which was exceeded in wells closest to the road (OW1 and 122 Turk Rock Road)); however, it may be possible for leachate impacts to be observed in the compliance wells located downgradient of the landfill (e.g., OW24R01) based on PFAS results.

It is noted that the consultants are requesting that OW1 be reclassified as a downgradient well rather than a compliance well due to its proximity to the landfill, potential impacts from the roadway, and distance from CAZ perimeters. I agree that OW1 is likely better suited as a downgradient well.

In summary, there were several observations of LIPs at downgradient monitoring wells with some exceedances of RULs. It is noted that there were two PFAS compound detections in OW24R01 which is located north of the Morton Creek tributary. This may suggest that not all leachate impacted groundwater discharges to the Morton Creek tributary. Due to the detection of PFAS in the compliance well located north of the Morton Creek tributary, I recommend additional PFAS sampling at OW17 and OW18. However, PFAS detections were below detection limits at all residential wells, so it does not seem like the residential wells are being impacted by leachate at the time of the sampling event. A regional surface water specialist should be consulted with respect to this site's conformance with other water management policies.

Groundwater – Surface Water Interaction

A portion of shallow groundwater at the site is interpreted to discharge to the Morton Creek tributary and as such, there is potential for impact to these surface water features.

The regional surface water specialist was consulted with respect to the interpretations made regarding groundwater - surface water interactions. Comments on surface water conditions will be provided in a separate memorandum.

Trigger Mechanisms and Contingency Plans

There is no trigger mechanism or contingency plan for the Briar Hill WDS. I recommend a trigger mechanism and contingency plan be developed and submitted to the Ministry.

Groundwater Monitoring Program

Groundwater monitoring is currently conducted during the spring and fall each year with VOC and PFAS sampling conducted annually for select monitoring wells. Malroz has not recommended any changes to this sampling or reporting frequency.



A. Tse, B.A.Sc., P.Eng.
KMS/AJT

ec: R. Sacilotto
K. Stephenson

V. Castro

C. Klein

c: ECHO reference number: 1-356947052

**Ministry of the
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Conservation and Parks**
Eastern Region
1259 Gardiners Road, Unit 3
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et des Parcs**
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ou 1 800 267-0974



MEMORANDUM

September 18, 2024

TO: Nathalie Matthews
Sr. Environmental Officer
Kingston District Office
Eastern Region

FROM: Dana Cruikshank
Surface Water Specialist
Water Resources Unit
Eastern Region

RE: 2023 Annual Monitoring, Development and Operations Report WDS.
Briar Hill Waste Disposal Site
114 Turk Rock Road
Corporation of the Twp. Of Leeds and the Thousand Islands
Certificate of Approval # A442103
ECHO Ref #:1-35736885

I have reviewed the above report prepared by Malroz dated March 2024 with respect to surface water concerns only.

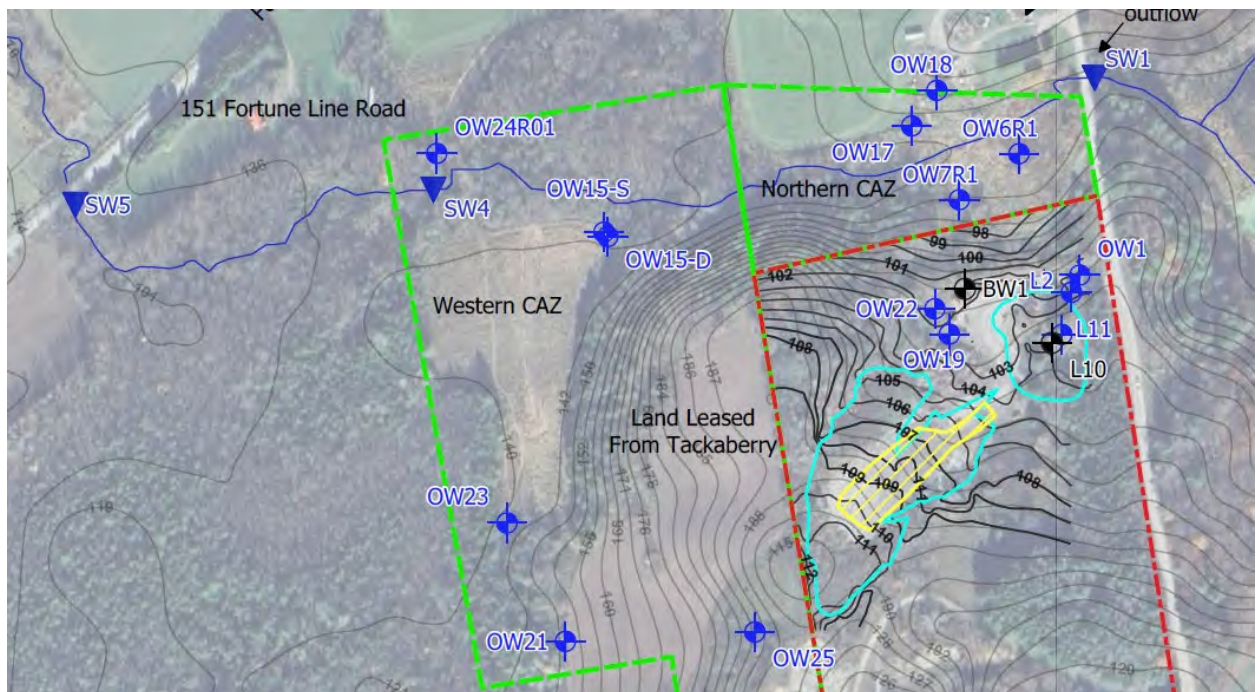
Report Overview:

For 2023 Malroz reports;

- Briar Hill WDS has operated since 1972 and has a current active footprint of 2.4 ha and includes the old 1.5 ha landfill site located south of the entrance gate and a transfer site for a total area of 16 ha. The site accepts non-hazardous waste.
- The landfill at current rate of filling has 37 years of operation remaining.
- Groundwater flows in a north to northwesterly direction and landfill leachate has impacted the overburden aquifer which discharges to a westward flowing creek just north of the site. This creek is a tributary to Morton Creek.
- Artesian conditions suggest an upwards gradient and potential discharge to the Morton Creek tributary located north of the Site.
- An unnamed tributary to Morton Creek flows east to west and is located north of the Site. The tributary collects surface water run off from the field to the northeast via tile drainage. The stream flows through a culvert under Turk Rock Road (near SW1), and westward past OW17, OW15-S&D, and OW24. The unnamed stream

continues west under Fortune Line Road (at SW5) and eventually flows into Morton Creek. From the confluence of Morton Creek and the unnamed stream, Morton Creek flows approximately 3 km and discharges into Whitefish Lake, which is part of the Rideau Waterway.

- Leachate Indicator Parameters (LIPs) are defined by elevated concentrations for alkalinity, ammonia, DOC, conductivity, TKN, chloride, TDS, boron and iron in the leachate well compared to background.
- The Site relies on natural attenuation, with no engineered systems for leachate collection or storm water management.
- Although RULs suggest that the Site is non-compliant with Ministry Guideline B-7, analysis of chemistry infers attenuation is occurring.
- The PFAS sampling program indicates that leachate is not spreading beyond the surface water feature located north of the Site or into downgradient drinking water wells.
- Three surface water stations are located in the creek that flows to the north side of the property. SW1 represents background, SW4 is near northwestern boundary of the site (200 m downstream) and SW5 (400 m downstream) is located in the creek before it enters Morton Creek.



- Groundwater and surface water are sampled in the spring and fall.

- LIPs were evaluated at stations SW4 and SW5, and compared to background station SW1:
 - Alkalinity, TDS, DOC, and conductivity measurements at compliance stations SW4 and SW5 appear similar to background station SW1.
 - Chloride concentrations at compliance stations SW4 and SW5 are similar to the background station SW1, and below the PWQOs.
 - Ammonia concentration measured at compliance station SW4 is elevated above background station SW1 and compliance station SW5 in the spring, but all stations are similar in concentration in the fall.
 - Iron concentrations in compliance stations SW4 and SW5 are very similar to concentrations from background station SW1, and all three stations exceed the PWQO of 0.3 mg/L.
 - Boron concentrations in compliance stations SW4 and SW5 are similar to the background station SW1, and below the PWQO of 0.2 mg/.
 - PWQO exceedances for total phosphorus, iron and aluminum have been consistently found at the background monitor SW1. Similar PWQO exceedances are found at the two downstream stations.
- Concludes downstream surface water stations do not show significant evidence of leachate impact compared to the background station.
- The following recommendations were provided;
 - Reclassify compliance well OW1 to a downgradient well due to its proximity to the landfill as well as the distance from the CAZ perimeters.
 - Continue the program to purchase the Western CAZ.
 - Evaluate the need for groundwater and surface water triggers and submit to the Ministry following the purchase of additional CAZ lands.
 - Prepare a closure plan for the Site, including rescoping the monitoring plan and development of trigger mechanisms once the CAZ land registration is complete

Reviewer's Comments

The document, Ontario Ministry of the Environment (2010). Technical Guidance Document: Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water, November 2010 was an internal document circulated for comment but has never been adopted by MECP. Therefore any reference to this document should be ignored.

The reviewer averaged the data for SW1, SW4 and SW5 for selected parameters from 2013 to 2023. The averaged concentrations for 2013-2022 were also compared to the 2023 average concentrations for each station. The data was manipulated so that in cases where the reported value was less than the Method Detection Limit (MDL) then the MDL number was assumed to be the reported value using the precautionary principle. The cells with a red number indicate averages that exceeded PWQO or CWQG. Percentage differences in average concentrations were calculated between each surface water stations for the 2013 to 2023 time period. Cells highlighted yellow in Table 1 indicate differences of average concentration of greater than 25% (deemed significant by the reviewer) between upstream and downstream stations. Cells

highlighted green in Table 1 indicate differences of average concentration of greater than 25% (deemed significant by the reviewer) where downstream average concentrations were better than upstream stations. Parameters shaded grey are considered LIPs by Malroz. The column sparklines column show the relative average concentrations for each parameter between the three stations as you move upstream to downstream.

Table 1: Average Concentrations of Water Quality Parameters at Briar Hill WDS, (2013-2023).

Paramter	Units	Average Concentrations			Relative Conc	Percentage Differences		
		SW1	SW4	SW5		SW1 vs SW4	SW1 vs SW5	SW4 vs SW5
Alkalinity	mg/L	201	219	221		-9	-10	-1
N - Ammonia	mg/L	0.07	0.11	0.11		-59	-57	1
Ammonia, unionized (lab)	mg/L	0.121	0.065	0.059		46	51	8
BOD	mg/L	2.43	3.32	3.28		-37	-35	1
COD	mg/L	25.45	35.56	33.65		-40	-32	5
DOC	mg/L	7.15	10.46	10.11		-46	-41	3
Conductivity	µmho/cm	438	479	482		-9	-10	-1
Hardness	mg/L	225	237	240		-5	-7	-1
pH	pH Units	8.05	8.06	8.07		0	0	0
Phenols	mg/L	0.001	0.001	0.001		-4	-2	3
Phosphorus (total)	mg/L	0.06	0.08	0.08		-26	-17	7
Phosphorus, total dissolved	mg/L	0.02	0.04	0.04		-76	-58	10
Total Dissolved Solids	mg/L	249	286	284		-15	-14	1
Total Suspended Solids	mg/L	90	26	24		71	73	8
Total Kjeldahl - N	mg/L	0.62	0.80	0.78		-30	-27	3
Chloride	mg/L	7.4	10.7	10.7		-44	-44	0
N - Nitrate	mg/L	1.16	0.79	0.90		32	22	-14
N - Nitrite	mg/L	0.19	0.14	0.13		23	28	7
Sulphate	mg/L	19.95	20.34	20.61		-2	-3	-1
Aluminum	mg/L	0.05	0.04	0.04		17	21	4
Mercury	mg/L	0.0001	0.0056	0.0051		-9861	-8869	10
Arsenic	mg/L	0.0006	0.0006	0.0006		-9	-2	6
Barium	mg/L	0.127	0.149	0.147		-17	-15	1
Boron	mg/L	0.016	0.026	0.025		-63	-60	2
Cadmium	mg/L	0.0007	0.0001	0.0001		91	92	8
Calcium	mg/L	83.1	101.1	97.0		-22	-17	4
Chromium	mg/L	0.0014	0.0015	0.0014		-5	-1	3
Cobalt	mg/L	0.0004	0.0006	0.0006		-34	-27	5
Copper	mg/L	0.0017	0.0016	0.0016		3	7	4
Iron	mg/L	0.65	0.77	0.72		-19	-11	6
Lead	mg/L	0.0004	0.0005	0.0004		-15	-5	8
Magnesium	mg/L	20.40	20.69	20.80		-1	-2	-1
Manganese	mg/L	0.060	0.135	0.126		-127	-112	6
Nickel	mg/L	0.005	0.004	0.005		16	1	-17
Potassium	mg/L	1.756	2.144	2.092		-22	-19	2
Silver	mg/L	0.0001	0.0001	0.0001		-6	-5	1
Sodium	mg/L	6.09	6.74	6.79		-11	-11	-1
Strontium	mg/L	0.23	0.25	0.25		-10	-10	0
Vanadium	mg/L	0.005	0.006	0.006		-17	-6	10
Zinc	mg/L	0.010	0.011	0.011		-11	-9	2
Temperature (field)	°C	9.85	9.44	8.89		4	10	6
pH (field)	pH Units	7.74	7.46	7.69		4	1	-3
DO (field)	mg/L	8.72000	9.13833	9.52000		-5	-9	-4
Conductivity (field)	mS/cm	0.443	0.478			-8		
Un-ionized Ammonia (field) ⁽¹⁾	mg/L	0.0082	0.0100			-22		

The average concentrations for the time period 2013-2023 showed un-ionized ammonia (lab), total phosphorus (TP), iron, mercury and vanadium either exceeded or met PWQO at both background and downstream locations.

SW5 (farthest downstream) generally has the same quality as SW4. SW4 compared to background had significantly elevated concentrations of ammonia-N, BOD, COD, DOC, conductivity, TP, chloride, mercury, boron, cobalt and manganese. These include five out of the nine identified LIP indicators (ammonia-N, DOC, TKN, chloride, boron). Other parameters also showed elevated average concentrations at SW4 compared to background including the four remaining LIP indicators.

The spark line columns in Table 1 show impacts to SW4 and SW5 compared to SW1. It appears from this analysis that landfill leachate is impacting the tributary at SW4 and SW5. There are no groundwater wells beyond SW4 in the CAZ area. Because SW4 and SW5 have similar water quality I assume that the water quality at SW5 is driven by runoff and shallow groundwater influx to the creek at SW4.

Table 2 shows a percentage difference comparison of average concentrations in 2023 versus historical concentrations from 2013-2022. In general, it appears that 2023 average concentrations are improving compared to historical average concentrations.

Table 2: Percentage Difference Comparison of Average Concentrations in 2023 versus Historical Concentrations from 2013-2022.

Paramter	Percentage Difference Hist vs 2023			Paramter	Percentage Difference Hist vs 2023		
	SW1	SW4	SW5		SW1	SW4	SW5
Alkalinity	-10	-17	-8	Barium	-50	-39	14
N - Ammonia	21	50	6	Boron	-27	-79	17
Ammonia, unionized (lab)	92	82	83	Calcium	29	20	35
BOD	-27	-21	9	Chromium	30	64	29
COD	33	22	51	Cobalt	46	71	46
DOC	56	50	30	Copper	13	73	37
Conductivity	-8	-8	-6	Iron	42	43	62
Hardness	-9	-4	-10	Lead	50	94	77
pH	3	-1	-1	Magnesium	-11	-4	-5
Phenols	25	21	24	Manganese	-16	71	58
Phosphorus (total)	-18	23	67	Nickel	-21	16	-121
Phosphorus, total dissolved	-136	55	76	Potassium	-96	-59	21
Total Dissolved Solids	4	0	7	Silver	1	59	6
Total Suspended Solids	87	26	77	Sodium	8	-45	-7
Total Kjeldahl - N	20	32	23	Strontium	-2	-4	-2
Chloride	-34	-32	-1	Vanadium	82	78	75
N - Nitrate	24	3	-112	Zinc	14	-20	15
N - Nitrite	75	64	63	Temperature (field)	-56	-78	19
Sulphate	13	38	-12	pH (field)	2	1	-9
Aluminum	59	48	31	DO (field)	12	12	-12
Mercury	67	99	100	Conductivity (field)	-5	-12	-3
Arsenic	60	86	58	Un-ionized Ammonia (field) ^[1]	90	90	-2

Summary

The data indicates from the number of elevated concentrations at SW4 and SW5 including LIPs, that Briar Hill WDS is having a slight negative impact on water quality in the tributary adjacent to the landfill site. An analysis of 2023 concentrations compared to historical 2013-2022 average concentrations shows that the majority of parameters have lower concentrations in 2023 compared to the historical data range. A similar finding was determined for 2022.

The reviewer was initially concerned about average mercury concentrations at SW4 and SW5. A subsequent review of mercury concentrations in shallow groundwater wells as well as SW1, SW4 and SW5 resulted in no exceedances in shallow groundwater. There is only one very elevated exceedance on May 2015 of mercury at SW4 and SW5. There were no other PWQO exceedances in the stream aside from that date. Therefore, this is likely an outlier and drives the average concentration for mercury. When removed from the analysis there no issue with mercury

None of the parameters with average concentrations exceeding PWQO or CWQG guidelines are at concentrations that would likely impact any aquatic life further downstream.

Recommendations

1. Sampling should continue for surface water.
2. PFAS should be sampled at the surface water stations this fall and 2025 to confirm if the landfill is impacting water quality in the stream as the above analysis suggests.

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



Surface Water Specialist

ec: Cathy Chisholm (A District Manager)
Amanda Tse (Groundwater reviewer)
Victor Castro (WRU Supervisor)

Appendix F
Site Log and Waybills



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Jan 3/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: Jan/2/24

TYPE

mixed/paper/oc/steel

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</u>	<u>ELVidge</u>	<u>Garbage</u>	<u>Full</u>	<u>✓</u>
<u>10:30</u>	<u>"</u>	<u>"</u>	<u>3/4</u>	<u>✓</u>

TOTAL COUNT OF HOUSEHOLD USERS: 102

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jan 4/24 TIME: 8:15 STAFF: John Stottford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: Jan/4/24 Steel

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>10:55</u>	<u>Mattice</u>	<u>Garbage Rec</u>	<u>FULL</u>	<u>Y</u>

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: John Stottford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: Jan 6 / 24 TIME: 8:10 STAFF: John Stafford

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 / No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: Jan 5 / 24 occ / paper

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: 123

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jan 8/24 TIME: 8:10 STAFF: John Stafford

DEFICIENCIES OBSERVED:

		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: Jan 8/24 TYPE mixed/paper/mixed
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: 54

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Jan. 10/24 TIME: 8:20 am STAFF: Steve Allen

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No _____
Windblown Litter: Yes / No _____
Leachate Springs: Yes / No _____
Animals: Yes / No cats / birds _____
Other: Yes / No _____

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / / _____

DATES BINS WERE PICKED UP: Jan/9/24 mixed _____

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Salted steps and nearbins

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>9:00</u>	<u>Carl</u>	<u>household recycle</u>	<u>1/2 ton truck recycle</u>	<u>✓</u>
<u>10:00</u>	<u>Carl</u>	<u>"</u>	<u>"</u>	<u>✓</u>

TOTAL COUNT OF HOUSEHOLD USERS: 38

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 Steve Allen Print Staff Name: Steve Allen

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: Jan 11/24 TIME: 8:20 STAFF: Steve Allen

DEFICIENCIES OBSERVED:

		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:

Max in to sand/pack bins

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>10:45</u>	<u>Mattice</u>	<u>recycle house hold</u>	<u>truck-recycle trailer-household</u>	<u>✓</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: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Sta Allen Print Staff Name: Steve Allen

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

☐ Lansdowne
☒ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Jan 13/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: Jan/13/24

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: 81

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 Stoltz Print Staff Name: John Stoltz

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jan 15/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: Jan/15/24 TYPE mixed / OCC / 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: 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 John Stafford Print Staff Name: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: Jan 17/24 TIME: 8:20 STAFF: John Stafford

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>cat</u>
Other:	Yes / No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:	TYPE
DATE BINS WERE ORDERED: <u> </u> / <u> </u> / <u> </u>	
DATES BINS WERE PICKED UP: <u>Jan/17/24</u>	<u>acc</u>

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)
9:00	ELVidge	Garbage Rec	1000L	Y
9:30	"	"	1/2	Y

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: _____

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jan 18/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

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)
10:35	Matrice	Garbage Rec	Full	<u>Y</u>

TOTAL COUNT OF HOUSEHOLD USERS: 44

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

SE:

Reviewer: _____ File Number: _____

☐ Lansdowne
☒ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Jan 20/24 TIME: 8:10 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No ☒

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: Jan/19/24

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: 106

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 Stinson Print Staff Name: John Stinson

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

☐ Lansdowne
☒ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Jan 25/24 TIME: 8:15 STAFF: John Siskrow

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: ~~Yes~~ / No

Leachate Springs: Yes / No ☒

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: Jan / 25 / 24

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Freezing Rain

COMMERCIAL HAULER OR LARGE LOADS

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

TOTAL COUNT OF HOUSEHOLD USERS: 24

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: John Starkord

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Jan 29/24 TIME: 8:20 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: Jan 29/24

DATES BINS WERE PICKED UP: " / " / "

TYPE

paper / mixed
occ

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: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

☐ Lansdowne
☒ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Feb 1/24 TIME: 8:15 STAFF: Sonya Stalder

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

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)
11:00	Mattice	Garbage Rec	Full	Y

TOTAL COUNT OF HOUSEHOLD USERS: 42

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: John S. [Signature]

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Feb 3 / 24 TIME: 8:20 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: Feb 2 / 24

Paper

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: 113

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Feb 8 / 24 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: / /

DATES BINS WERE PICKED UP: Feb 8 / 24 OCC

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>10:55</u>	<u>Mattice</u>	<u>Garbage Rec</u>	<u>FULL</u>	<u>Y</u>

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: _____

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: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: Feb 10/24 TIME: 8:30 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: / /

DATES BINS WERE PICKED UP: Feb 9/24

paper

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: 132

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: _____

☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Feb 12/24 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: Feb/12/24 occ/mixed

DATE BINS WERE PICKED UP: / / 7

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: 58

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: John Skifford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: Feb 15/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:		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: <u> </u> / <u> </u> / <u> </u>	
DATES BINS WERE PICKED UP: <u> </u> / <u> </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)
10:45	mattice	Garbage Rec	3/4	Y

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: _____

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: _____



- ☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Jul 17 2024 TIME: 8:20 STAFF: Julie McDonda

DEFICIENCIES OBSERVED:

		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 / 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: 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 Julie McDonda Print Staff Name: Julie McDonda

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Feb 21/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: Feb/21/24

~~paper~~ / mixed

DATES BINS WERE PICKED UP: Feb/21/24

paper

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)
9:10	ELvidge	Garbage	FULL	Y
9:45	"	"	1/2	Y

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: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Feb 29/24 TIME: 8:13 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: / /

DATES BINS WERE PICKED UP: Feb/29/24

paper

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>10:45</u>	<u>maTtice</u>	<u>Garbage Rec</u>	<u>FULL</u>	<u>Y</u>

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: _____

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: _____

☐ Lansdowne
☒ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: MAR 2/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: ~~Yes~~ / No

Leachate Springs: Yes / No ☒

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: MAR/1/24

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
8:30	Unknown	NOT From TLTI
2:00	Unknown	Double axle Trailer don't accept

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

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

TOTAL COUNT OF HOUSEHOLD USERS: 128

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: John Sliford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: MAR 9/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: MAR 8/24

Steel / paper

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: 95

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: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: MAR 11/24 TIME: 8:20 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: MAR 11/24

DATES BINS WERE PICKED UP: " / " / "

TYPE

mixed / paper
occ

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: 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: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne

☒ Lyndhurst

☐ Escott

DATE: Mar. 25/24 TIME: 8:15 STAFF: S. Allen

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / ~~No~~

Windblown Litter:

~~Yes~~ / No

Leachate Springs:

Yes / ~~No~~

Animals:

Yes / ~~No~~

Other:

Yes / ~~No~~

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 03 / 25 / 24

DATES BINS WERE PICKED UP: / /

TYPE

paper / plastic / occ

TIME	HAULER NAME	REASON FOR REJECTION
<u>2:45</u>	<u>Private</u>	<u>logs and blocks of wood (over 3")</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: 63

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / ~~No~~

DETAILS: along roadway

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 Sth Allen

Print Staff Name: Steven Allen

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: APR 4/24 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: / / _____

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: 38

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: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: APR 6/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

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: 145

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:



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☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: APR 8 / 24 TIME: 8:10 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: / /

mixed / paper / steel / occ / mixed

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: 52

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: _____



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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: APR 24/24 TIME: 8:20 STAFF: John Stafford

DEFICIENCIES OBSERVED:

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

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: APR / /

DATES BINS WERE PICKED UP: APR 23/24 ~~APR 23/24~~ mixed / occ

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)
9:25	ELVIDGE	Garbage Rec	FULL	Y
10:05	"	"	1/2	Y

TOTAL COUNT OF HOUSEHOLD USERS: 40

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

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No X

DETAILS: To windy

APPLICATION OF DUST SUPPRESSANT: Yes / No X

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No X

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No X

If Yes, complaint file number(s) and topic: _____

SIGNATURE John Stafford Print Staff Name: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of 1233 P
Leeds and the Lansdov
Thousand Islands

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

☐ Lansdowne
☐ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: May 4 TIME: 8:15 STAFF: John Jul

DEFICIENCIES OBSERVED: _____ Description / Location

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: / /

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: 154

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: about the bag tags machine

SIGNATURE [Signature] Print Staff Name: Whit E McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: May 6/24 TIME: 8:10 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: MAY 6/24 paper/mixed/oc

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>12:35</u>	<u>Fletcher</u>	<u>Garbage Rec</u>	<u>1/2</u>	<u>Y</u>

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: _____

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: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: May 8/24 TIME: 8:00 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: May 8/24 OCE

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)
9:10	ELridge	Garbage Rec	Full	<u>X</u>
10:00	"	"	1/2	<u>X</u>

TOTAL COUNT OF HOUSEHOLD USERS: 47

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

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: X 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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: MAY 22/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:	☒ No	
Windblown Litter:	☒ No	
Leachate Springs:	☒ No	
Animals:	☒ No	
Other:	☐ Yes / ☒ No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: MAY/22/24 TYPE: OCC/mixed
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: 84

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: MAY 23/24 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: / /

DATES BINS WERE PICKED UP: MAY 23/24 mixed

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>10:35</u>	<u>matTice</u>	<u>Garbage Rec</u>	<u>FULL</u>	<u>Y</u>

TOTAL COUNT OF HOUSEHOLD USERS: 73

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: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: Jun 3/24 TIME: 8:10 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: JUN/3/24

TYPE

occ/mixed/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: 81

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: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: May 6/24 TIME: 8:10 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No X

Windblown Litter: Yes / No X

Leachate Springs: Yes / No X

Animals: Yes / No X

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: May 6/24 paper / mixed

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>9:55</u>	<u>Mattice</u>	<u>Garbage Rec</u>	<u>Full</u>	<u>Y</u>

TOTAL COUNT OF HOUSEHOLD USERS: 36

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

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No X

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No X

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No X

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No X

If Yes, complaint file number(s) and topic: _____

SIGNATURE John Stafford Print Staff Name: John Stafford

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: JUN 12/24 TIME: 8:15 STAFF: John Stafford

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: JUN/11/24

Steel/mixed

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>9:55</u>	<u>EL vidge</u>	<u>Garbage</u>	<u>FULL</u>	<u>Y</u>
<u>10:30</u>	<u>"</u>	<u>"</u>	<u>1/4</u>	<u>Y</u>

TOTAL COUNT OF HOUSEHOLD USERS: 81

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: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: June 26 TIME: 8:15 STAFF: Janice Jan

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: 06/25/2024 Steel

DATES BINS WERE PICKED UP: 06/23/2024 plastic, corrugated,

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</u>	<u>Carl</u>	<u>household</u>		<u>Yes</u>
<u>10:30</u>	<u>Carl</u>	<u>" "</u>		
<u>12:05</u>	<u>Carl</u>	<u>" "</u>		

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 Janice M. Donald Print Staff Name: Janice M. Donald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE:

Jun 27

TIME:

8:10

STAFF:

Julie

Sunny ☀️

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

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)
9:50	Rob Charles	household	trailer truck	<u>Yes</u>
11:50	Dan Ritchie	contractor	truck	65%

TOTAL COUNT OF HOUSEHOLD USERS:

83

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: _____

2 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

Julie McDonald

Print Staff Name:

Julie McDonald

OFFICE USE:

Date Reviewed:

Reviewer:

File Number:



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: July 2 TIME: _____ STAFF: Julie

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:

deducted environmental cleanup

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 07/02/2024 8:30 - plastic (both) call about electronics
DATES BINS WERE PICKED UP: 07/03/ (1) plastic (2) picked up for Thurs

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:00</u>	<u>Carl</u>	

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:00</u>	<u>Carl</u>	<u>garbage</u>	<u>5 Bu</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 162

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:

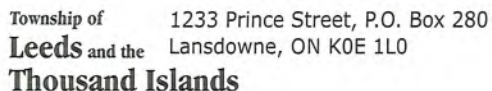
Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie McDonder Print Staff Name: Julie McDonder

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



WASTE DISPOSAL SITE

DAILY INSPECTION FORM

Description / Location

Other: Yes / No

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: 173

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 Julio M. Lora Print Staff Name: Julio M. Lora

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 8 TIME: 8:10 STAFF: Julia

DEFICIENCIES OBSERVED:

	Yes / No	Description / Location
Ponded Water:		
Windblown Litter:		
Leachate Springs:		
Animals:		
Other:		

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 07/08/2024 TYPE Ordered, plastic corrugated paper again
DATES BINS WERE PICKED UP: 07/08/2024 plastic, paper ordered the 4th
paper bin not emptied

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Granite Malory hit her head 613 387-2284

COMMERCIAL HAULER OR LARGE LOADS

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

TOTAL COUNT OF HOUSEHOLD USERS: 118

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:

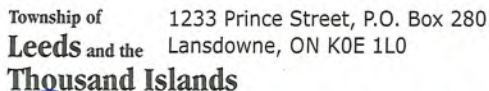
Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julia Print Staff Name: Sue McDonda

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DEFICIENCIES OBSERVED:

[illegible]

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: / /

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)
12:30	Kelly & Randy	Shore house, old debris		Not yet
1-8-43	908	Arrestin Crab Bay Lane		

TOTAL COUNT OF HOUSEHOLD USERS: 189

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: Shirley McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE:

TIME:

STAFF:

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED:

07/29/2024

plastic,

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)
<u>10:15</u>	<u>Brun</u>	<u>Seely's Bay</u>	<u>4011 household</u>	<u>11</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:

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

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: July 31 TIME: 8:16 STAFF: Julie McDonnell

DEFICIENCIES OBSERVED:

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

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: 07/31

corrugated, 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)
9:30	Carl	30 bags + 16 household		<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 92

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: 2 bags and pick up

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED:

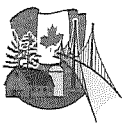
Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE: Julie McDonnell Print Staff Name: Julie McDonnell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Aug 1/24 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No cats birds

Other: Yes / No

Description / Location

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>10:30</u>	<u>ROV</u>	<u>household</u>	<u>20 bags</u>	<u>Yes</u>

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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: Reviewer: File Number:



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 3 TIME: 8:15 STAFF: Juan Du

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 1 / 1

Aug 1 paper waste emptied
(no show)

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>8:30</u>	<u>Rob Tracy</u>	<u>construction 613-484-2990</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>8:30</u>	<u>Rob</u>	<u>construction</u>	<u>hauler</u>	<u>Yes</u>
<u>2:30</u>	<u>Paul Asabula</u>	<u>shingles</u>	<u>2 hauls over</u>	<u>\$65.00</u>
	<u>613-536-8206</u>			
<u>3:45</u>	<u>Robina L. 613-928-3472</u>	<u>154 John's</u>	<u>1/2</u>	<u>\$30.00</u>

TOTAL COUNT OF HOUSEHOLD USERS: 204

atpl crails Amesbury
Robert Wilson

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

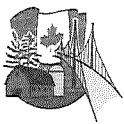
If Yes, complaint file number(s) and topic: _____

SIGNATURE Juan Du

Print Staff Name: Juan Du

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 7 TIME: 8:10 STAFF: Judith

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/06/24 plastic, paper, corrugated

DATES BINS WERE PICKED UP: 08/07/24 electronics, plastic,

REJECTED LOADS:

corrugated, paper

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)
9:15	STEVE LAPLANTE 928-3172	concrete	truck	<u>65</u>
9:35	Carl	24 bags		

TOTAL COUNT OF HOUSEHOLD USERS: 125

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

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: 3-4 large bags (east side)

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 Judith Print Staff Name: Judith McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

DATE: Aug 8 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/08 plastic
DATES BINS WERE PICKED UP: 08/08 steel

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)
12:30	<u>Coyne</u> <u>Nicholas</u>	<u>household</u>	<u>truck</u>	<u>Yes</u>
	<u>413-905-</u>	<u>380-8242</u>		
3:30	<u>Chris Hughes</u>		<u>trailer</u>	<u>PM</u>
	<u>289-3380729</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: lots at the rail

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

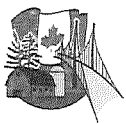
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 10 TIME: _____ STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>2:30</u>	<u>John McKinley</u>	<u>NP. 821 Alena Lane Seely 989</u> <u>387-0805</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: 163

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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 12 TIME: 8:10 STAFF: _____

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/21

DATES BINS WERE PICKED UP: 08/12

plastic paper corrugated
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>10:45</u>	<u>Brian</u>	<u>343-989-0146</u>	<u>20 bags</u>	<u>firehills</u>

TOTAL COUNT OF HOUSEHOLD USERS: 90

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

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 14 TIME: 8:10 STAFF: Julie M. Doran

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

yes 0.0 very little

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 08/14/24

2 no 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>9:40</u>	<u>Carl</u>	<u>household trash</u>	<u>30 boxes</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 8/0

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

Julie M. Doran

Print Staff Name:

Julie M. Doran

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Aug 15 TIME: 8:10 STAFF: Juli In-Done

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

not sunny

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 08/15

corrugated, paper

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)
10:30	Rob	household	42 bags trash/bulk	<u>Yes</u>

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 Juli In-Done

Print Staff Name: Laurie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Aug 17 TIME: 8:10 STAFF: Julie McDonnell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

very little

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: 175

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 Julie McDonnell Print Staff Name: Julie McDonnell

OFFICE USE:

Date Reviewed: Reviewer: File Number:



- ☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 19 TIME: 8:10 STAFF: Jacif McDonald

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:

mowed, whipped
Dick students

RECYCLING:

DATE BINS WERE ORDERED: 08/19/24 TYPE used 1.9 (Sunday 23rd)
plastic (paper), corrugated

DATES BINS WERE PICKED UP: 1 / 1 Thurs 19
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)

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 Jacif McDonald Print Staff Name: Jacif McDonald

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

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WASTE DISPOSAL SITE
DAILY INSPECTION FORM

DATE: Aug 21 TIME: 8:10 STAFF: [Signature]

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED:

DATES BINS WERE PICKED UP:

TYPE

1 / 1

08/21/24

plastic

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>10:30</u>	<u>Carl</u>	<u>household</u>	<u>33 bags</u>	<u>[initials]</u>

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:

DETAILS:

Yes / No

APPLICATION OF DUST SUPPRESSANT:

DETAILS:

Yes / No

DAILY INSPECTION FORM COMPLETED:

DETAILS:

Yes / No

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

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WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Aug 22 TIME: 8:10 STAFF: Julie D. Jones

DEFICIENCIES OBSERVED:

Ponded Water: Yes / ☒ No

Windblown Litter: ☒ Yes / ☐ No

Leachate Springs: Yes / No ☒

Animals: Yes / No

Other: Yes / No

Description / Location

very little

birds, cats

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATE 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:

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

IF NO: Waste Sent To: 98

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: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 24 TIME: 8:10 STAFF: [Signature]

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

Landsat

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 08/23

paper bin

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)
10:00	Mike Seredine	household	67900	Windy / <u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 185

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: Aug 26 TIME: 8:10 STAFF: Jean Don

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

empty metal pickup trucks, batteries

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/26

plastic, steel bin Thurs

DATES BINS WERE PICKED UP: 26/08

coregulated

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: 101

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: _____

3 large bags, coregulated self

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 1233 P
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Thousand Islands

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DAILY INSPECTION FORM

DATE: Aug 28 TIME: 8:00 STAFF: Julio M. Sosa

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: / /

DATE 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)
9:20	Carl	household	4 bags	Yes

TOTAL COUNT OF HOUSEHOLD USERS: 103

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

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Aug 29 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 08/29/11 plastic, paper, corrugated for Tuesday?

DATES BINS WERE PICKED UP: 08/29/2024 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)
3:00	Tim Cummins	wood deck	(6500)	<u>2 loads</u>
	613-561-9042	803 kg	(6500)	

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: _____

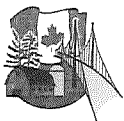
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

DATE: August 31 TIME: 8:30 STAFF: Spencer Healey

DEFICIENCIES OBSERVED:

		Description / Location
Ponded Water:	Yes / <u>No</u>	
Windblown Litter:	Yes / No	
Leachate Springs:	Yes / <u>No</u>	
Animals:	<u>Yes</u> / 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: 153

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 Spencer Healey Print Staff Name: _____

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Sept 4 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 09/04/ plastic Thursday
DATES BINS WERE PICKED UP: 09/03/ paper, corrugated
REJECTED LOADS: 09/04/ plastic

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: 115

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: Large 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 Julie McDonald Print Staff Name: Julie McDonald
OFFICE USE: _____

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Sept 5 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

		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>bird scat</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>4:00</u>	<u>Wild Hauler</u>	<u>613-876 4620</u>		<u>Yes</u>
	<u>427 Lyndhurst</u>	<u>concrete</u>		

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: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

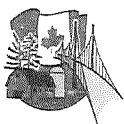
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: Reviewer: File Number:



☐ Lansdowne

☐ Lyndhurst

☐ Escott

DATE: Sept 7 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

TYPE

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:30</u>	<u>Mar Laffance</u>	<u>227 Bighill Road Sully's Bay</u>
	<u>613-583-4120</u>	

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:30</u>	<u>Mar Laffance</u>	<u>227 Bighill Road Sully's Bay</u>	<u>sm trailer</u>	<u>Yes</u>
	<u>613-583-4120</u>			
<u>12:30</u>	<u>" "</u>	<u>" "</u>	<u>sm trailer</u>	<u>Yes</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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: Julie M



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Sept 9 TIME: 8:10 STAFF: Jud McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 09/09/ TYPE plastic for 10th. paper for 13th
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>11:00</u>	<u>Jay Markow</u>	<u>shingles</u>	<u>65-</u>	<u>Yes</u>
	<u>839 Wildlife Lane</u>			
	<u>778 882 04/02</u>			
<u>12:00</u>	<u>Jet Bins</u>	<u>Brum</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: 3 bags

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

complaint file number(s) and topic: _____

Jud McDonald Print Staff Name: Jud McDonald

Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE:

Sept 14/2021

TIME:

8:10

STAFF:

Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

birds cats

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:

167

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

Julie McDonald

Print Staff Name:

Julie McDonald

OFFICE USE:

Date Reviewed: _____

Reviewer: _____

File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

DATE: Sept. 16 TIME: 8:05 STAFF: Juli Wayne

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

	<u>birds cats</u>

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 08/16/1 TYPE mixed plastic (Tues) and
DATES BINS WERE PICKED UP: / / 1802 Thurs

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: 89

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: _____

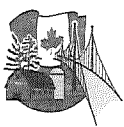
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Juli McDonald Print Staff Name: Juli McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Sept 18 TIME: 8:10 STAFF: Julie M. Somers

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 09/18/24

TYPE

Steel mixed cardboard

DATES BINS WERE PICKED UP: 09/18/2024

mixed plastic

REJECTED LOADS:

09/17/2024 mixed plastic

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: 70

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

Julie M. Somers

Print Staff Name:

Julie M. Somers

OFFICE USE:

Date Reviewed:

Reviewer:

File Number:



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Sept 19 TIME: 8:10 STAFF: Juli A. Don

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 09/19

DATES BINS WERE PICKED UP: 1/1

TYPE

recycled

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: _____

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 Juli A. Don

OFFICE USE:

Date Reviewed: _____

Reviewer: _____

File Number: _____

Print Staff Name: Juli A. Don



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Sept 19 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

very little

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

mon

DATE BINS WERE ORDERED: 09/18

DATES BINS WERE PICKED UP: 1/1

congregated, bin full
made a mistake steel
dropped off pickup truck

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>1:50</u>	<u>Jay Marlean</u>	<u>shingles 2 load 65.00</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>11:15</u>	<u>Deil Harrington</u>	<u>wood/pieces</u>	<u>1/2 load 65.00</u>	<u>Yes</u>
	<u>964 Blackchurch Rd</u>			
<u>12:00</u>	<u>Mike Gushkiwsky</u>	<u>shingles</u>	<u>1/2 load 65.00</u>	
	<u>431-334-9431</u>			

TOTAL COUNT OF HOUSEHOLD USERS: 128

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

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Sept 23 TIME: 8:10 STAFF: [Signature]

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: ☒ Yes / ☐ No

Other: Yes / No

[illegible]

very little

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATE BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
8:30	Kerrin Insatt	
	613818 354	
	857 Cannon	

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
8:30	Kerr Inc.	Household/wood shavings		Yes
	613-818-3545			
	857 Canal Dr.			

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: 2

SIGNATURE [Signature] Print Staff Name: [Signature]

OFFICE USE:

Date Reviewed: ✓ Reviewer: _____ File Number: DMG / 1120 Ned



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: Sept 25 TIME: 8:10 STAFF: Julie M. Donahue

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP 09/24 steel, plastic, corrugated

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
1:00	Joel Dagne 385 Hwy 2 Dan.	\$130.00 / construction 780-239-6092

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
9:30	James Mahon 613-207-0373	vinyl waste		<u>48.00</u>
	59 King St Dan			
11:45	James Mahon 613-207-0373	construction debris		<u>65.00</u>

TOTAL COUNT OF HOUSEHOLD USERS:

49

613-532-7829

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 Julie M. Donahue Print Staff Name: Julie M. Donahue

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

DATE: Sept 26 2024 TIME: 8:30 am STAFF: Wayne

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Cats, Rabbits

Other:

Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

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: ~~51~~ 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

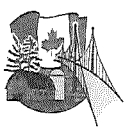
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Wayne Thompson Print Staff Name: Wayne Thompson

OFFICE USE:



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: Sept 28 TIME: 8:10 STAFF: Juli McDona

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

very little

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

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: 206

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 Juli McDona Print Staff Name: Juli McDona

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 2 2024 TIME: 8:10 STAFF: Jul McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 10/02

mixed paper, plastic, corrugated

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)
12:00	Rod York 3204 Hwy 32	Household	Trailer	<u>Yes</u> 05:00

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: called via B - told me to go off
man pouring concrete

SIGNATURE Jul McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Oct. 3 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

birds

Other:

Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 10/03/24

DATES BINS WERE PICKED UP: 1 / 1

TYPE

plastic

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: 813

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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct. 5 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 11 Oct 2024

plastic (mixed)

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: 203

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: Julie McDonald

OFFICE USE:

Date Reviewed: _____

Reviewer: _____

File Number: _____

☐ Lansdowne
☐ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Oct 7 TIME: 8:10 STAFF: Quinn Conner

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: ☒ Yes / ☐ No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

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: 81

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: Spagoox Garbage

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 Julie M. Donak Print Staff Name: Julie M. Donak

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Oct 7 TIME: 8:10 STAFF: Julie M. Donald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

☐ Yes ☒ No

Windblown Litter:

Yes / No

☐ Yes ☒ No

Leachate Springs:

Yes / No

☐ Yes ☒ No

Animals:

Yes / No

☐ Yes ☒ No birds cats

Other:

Yes / No

☐ Yes ☒ No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

TYPE

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

☒ Yes ☐ No

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No

☐ Yes ☒ No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No

☒ Yes ☐ No

DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie M. Donald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE:

DATE:

Oct 10

TIME:

8:10

STAFF:

Juice McDonald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No Yes

Windblown Litter:

Yes / No Yes

Leachate Springs:

Yes / No Yes

Animals:

Yes / No Yes

Other:

Yes / No

Description / Location

cats birds

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED:

10/09/11

DATES BINS WERE PICKED UP:

10/09/11

TYPE

mixed corrugated stom
plastic mixed paper
mixed 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)

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 Yes

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No Yes

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No Yes

DETAILS: _____

COMPLAINTS RECEIVED:

Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE

Juice McDonald

Print Staff Name:

Juice McDonald

OFFICE USE:

Date Reviewed:

Reviewer:

File Number:



☐	Lansdowne
☐	Lyndhurst
☐	Escott

DATE: Oct. 12 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 10/12/24

miscellaneous paper corrugate

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: 1860

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: 3 large 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 Julie McDonald

Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____

Reviewer: _____

File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 16 TIME: 8:10 STAFF: Juice McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 10/15/1

mixed 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)

TOTAL COUNT OF HOUSEHOLD USERS: 915

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: _____

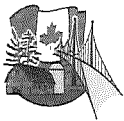
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Juice McDonald Print Staff Name: Juice McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☒	Lyndhurst
☐	Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 17 TIME: 8:10 STAFF: Jane McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: 10/17/24 mixed plastic - staples (Monday)
Monday

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: 70

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 Jane McDonald Print Staff Name: Jane McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

☐ Lansdowne
☐ Lyndhurst
☒ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Oct 19 TIME: 8:10 STAFF: Paul M. Dorne

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: ☒ Yes / ☐ No

[illegible]

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: 208

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: _____

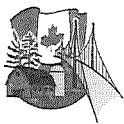
COMPLAINTS RECEIVED: Yes/No

If Yes, complaint file number(s) and topic: No signage (very apse)

SIGNATURE [Signature] Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 21 TIME: 8:10 STAFF: Jill McDonald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

birds cabs

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 11/21

mixed 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)
9:45	<u>Jeff Moulton</u> <u>613 3872050</u> <u>223 Darian</u>	<u>Shingles</u>	<u>1130</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 90

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 Jill McDonald Print Staff Name: Jill McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

DATE: Oct 23 TIME: 8:10 STAFF: Jessie M. Donde

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

and say very windy day

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 10/21/24 corrugated mixed paper
DATES BINS WERE PICKED UP: 10/23/24 plastic & debris
REJECTED LOADS: 10/22/24 steel bin plastic

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>11:15</u>	<u>Mark Connel</u>	<u>concrete</u>	<u>#65.0</u>	<u>Yes</u>
	<u>839 Rideau Rd</u>			
	<u>André</u>			
	<u>613-976-4214</u>			

TOTAL COUNT OF HOUSEHOLD USERS: 207 70

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

IF NO: Waste Sent To: _____

LITTER CONTROL: Yes / No

DETAILS: 3 bags plus

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 Jessie M. Donde Print Staff Name: Jessie M. Donde

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
**Leeds and the
Thousand Islands**

1233 Prince Street, P.O. Box 280
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☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 24 TIME: 8 20 STAFF: Aaron Chapman

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No Around bin and office

Leachate Springs: Yes / No

Animals: Yes / No Birds, racoon.

Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

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)
930	Craig G	Insulation, Dry Construction	1/2 Ton truck	yes
130		wood, Tile	Trailer	yes
		wood dry wall		
		Cardboard		

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: Picked up windblown garbage around bins, office

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 Aaron Chapman Print Staff Name: Aaron Chapman

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



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 26 TIME: 8:10 STAFF: Julie Donaldson

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

~~REJECTED~~ LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>11:15</u>	<u>Mark Brookman</u>	<u>\$65.00</u>
	<u>424 Thomas</u>	
	<u>519-217-9334</u>	

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>10:15</u>	<u>Lucas Amblay</u>	<u>household</u>	<u>65.00</u>	<u>Yes</u>
	<u>Sweet's corner</u>			
	<u>Rd 613-572-1524</u>			
<u>10:30</u>	<u>Blair Depina</u>	<u>house</u>	<u>\$65.00</u>	
	<u>251 Shortpoint</u>	<u>613-905-466-4687</u>		

11:00 Andrew Tunstall 613-483-9417 148 John St

TOTAL COUNT OF HOUSEHOLD USERS: 207

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 Julie Donaldson Print Staff Name: Julie Donaldson

OFFICE USE:

Date Reviewed: Reviewer: File Number:



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 28 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 11/28/24 TYPE: mixed plastic (both)
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: 75

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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct. 30 TIME: 8:10 STAFF: Julie M. Donald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 28 / 11 / 24 both plastics

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: 6970

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:

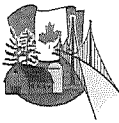
Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie M. Donald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐	Lansdowne
☐	Lyndhurst
☐	Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Oct 31 TIME: 8:10 STAFF: Julie M. Don

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

Crazywire

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Perry washer 30th 3rd

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: 75

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: 2 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

Julie M. Don

Print Staff Name:

Julie M. Donald

USE:

Reviewer:

File Number:



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 2 TIME: 8:10 STAFF: Judith McDonald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

*funny
mild
very windy*

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

not paid owes 10 tags. Storeledge
John Carr - 613-890-1531

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>12</u>	<u>Household</u>	<u>65</u>		<u>Yes</u>
<u>12:30</u>	<u>Household</u>	<u>65</u>		

TOTAL COUNT OF HOUSEHOLD USERS: 274

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 Judith McDonald Print Staff Name: Judith McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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WASTE DISPOSAL SITE
DAILY INSPECTION FORM

DATE: Nov 4 TIME: 8:10 STAFF: Julie McDonnell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location cold/damp

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 11 10 41 24 TYPE plastic, mixed 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: 77 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

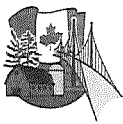
DETAILS: _____

COMPLAINTS RECEIVED: Yes / No

Complaint file number(s) and topic: _____

Signature: Julie McDonnell Print Staff Name: Julie McDonnell

Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

DATE: Nov 6 TIME: 8:10 STAFF: Juli M. Donahue

DEFICIENCIES OBSERVED:

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

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 11/05/24 mixed paper (1) 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)
1:15	Pascal Bouchard	household trash	trailer	☒ Yes
	613-530-6563	600 Thomas Rd		

TOTAL COUNT OF HOUSEHOLD USERS: 75

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

IF NO: Waste Sent To: _____

LITTER CONTROL: ☒ Yes / ☒ No

DETAILS: 4 barge bags

APPLICATION OF DUST SUPPRESSANT: Yes / ☒ No

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: ☒ Yes / ☒ No

DETAILS: _____

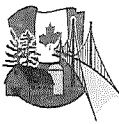
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Juli M. Donahue Print Staff Name: Jessie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov. 7 TIME: 8:10 STAFF: Julie M. Donner

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 birds</u>
Other:	Yes / No	

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 11/10/24 TYPE: plastic
DATES BINS WERE PICKED UP: 1/1

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:30</u>	<u>125 Main St.</u>	
<u>1:00</u>	<u>920 Falcone</u>	
	<u>at Lansdowne</u>	
	<u>613-355-2497</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: 68

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: _____

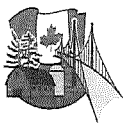
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Julie M. Donner Print Staff Name: Julie M. Donner

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 9 TIME: 8:10 STAFF: Julie M. Don

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 11/08/24 TYPE: corrugated
DATES BINS WERE PICKED UP: 11/08/24 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)

TOTAL COUNT OF HOUSEHOLD USERS: 19 ~~18~~ 194

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 Julie M. Don Print Staff Name: Julie M. Don

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 13 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

	Yes / No	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:

DATE BINS WERE ORDERED: 11/13/24 TYPE: plastic
DATES BINS WERE PICKED UP: 11/12/24 13/24 crushed
steel bin

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>10:30</u>		<u>Ridgeway Lakes Res.</u>
		<u>Johnston Creek</u>

OTHER COMMENTS / OBSERVATIONS

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>1:33</u>	<u>Markford</u>	<u>construction</u>	<u>68.00</u>	<u>Trailer</u>
	<u>Markford</u>			
	<u>174 Derynka</u>			

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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 14 TIME: 8:10 STAFF: Julie

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

cats birds, 2 beautiful eagles

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 1 / 1

TYPE

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>2:00</u>	<u>8 bags picked up at the road</u>	<u>8 bags of fuel</u>
	<u>Budy-928-3326</u>	<u>506 area</u>
	<u>618-</u>	<u>stated upgarer</u>

OTHER COMMENTS / OBSERVATIONS

OSLD 933 orange bowl
for measuring and such over log not
being allowed. Bude

COMMERCIAL HAULER OR LARGE LOADS

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

TOTAL COUNT OF HOUSEHOLD USERS: 15

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 Julie McDonald Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



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

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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 16 TIME: 8:10 STAFF: Quinn

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No very little

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 11 / 15

plastic

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>2:00</u>	<u>8 bags picked up at the road</u> <u>Buddy 613-928-3324</u>	<u>8 bags of kitty litter</u> <u>over power</u> <u>leachate</u>

OTHER COMMENTS / OBSERVATIONS

0521933 orange soil
sunburnt and once over by shot being allowed
Buddy

COMMERCIAL HAULER OR LARGE LOADS

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

TOTAL COUNT OF HOUSEHOLD USERS: 165

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

☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 18 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

3 large bags

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 11/18/24

plastic, mixed 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: 16

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 Julie McDonald Print Staff Name: Julie McDonald

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

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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 20 TIME: 8:10 STAFF: Julie McDermott

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

damp forest

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 11/19/

plastic corrugated paper

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: 70

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: _____

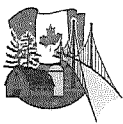
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Julie McDermott

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 21 TIME: 8:20am STAFF: Aaron Chapman

DEFICIENCIES OBSERVED:

		Description / Location
Ponded Water:	Yes / <u>No</u>	<u>Rain puddles</u>
Windblown Litter:	<u>Yes</u> / No	<u>around metal bin</u>
Leachate Springs:	Yes / <u>No</u>	
Animals:	Yes / <u>No</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)
<u>12pm</u>	<u>Sim-R</u>	<u>Shingles, Insulation household garbage</u>	<u>Single axle trailer</u>	<u>yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 35

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No

DETAILS: picked up garbage around metal bin

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 Aaron Chapman Print Staff Name: Aaron Chapman

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

☐ Lansdowne
☐ Lyndhurst
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WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Nov 23 TIME: 8:10 STAFF: Paula M. Woods

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: (Yes) / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

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: _____

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

IF NO: Waste Sent To: 165

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: Mrs. McDo

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: 9/01/25 TIME: 8:10 STAFF: [Signature]

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 / 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: 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: _____

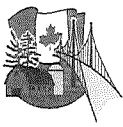
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature] Print Staff Name: Lucie McDougall

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
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☐ Escott

DATE: Nov 27 TIME: 8:10 STAFF: Juli M. Dore

DEFICIENCIES OBSERVED:

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

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 11/27 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)

TOTAL COUNT OF HOUSEHOLD USERS: 13

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:

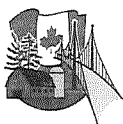
Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Juli M. Dore Print Staff Name: Juli M. Dore

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Nov 28 TIME: 8:10 STAFF: Julie M. Don

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

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: 39

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: garbage should be picked up

SIGNATURE Julie M. Don Print Staff Name: Julie M. Don

OFFICE USE:

Date Reviewed: Reviewer: File Number:

☐ Lansdowne
☐ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: 7/11/30 TIME: 8:10 STAFF: Dele D. D. D.

DEFICIENCIES OBSERVED:Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: ☒ Yes / ☐ No

Other: Yes / No

[illegible]

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: 20

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: Yusef McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 2 TIME: 8:10 STAFF: Julie M

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

*cool
forecast*

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 12/02

plastic, corrugated, mixed
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: 55

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: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



Township of
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WASTE DISPOSAL SITE
DAILY INSPECTION FORM

DATE: Dec. 4 TIME: 8:15 STAFF: [Signature]

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

Description / Location

very little cold snow

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 12/07/11

DATES BINS WERE PICKED UP: 12/10/11

TYPE

mixed plastic
plastic, mixed paper
concrete

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: 36

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: JILL E. Mc DORMA

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne

☐ Lyndhurst

☐ Escott

DATE: Dec 5 TIME: 8:10 STAFF: Julie M. Doner

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

snowy
days
start

RECOMMENDED ACTIONS / ACTIONS TAKEN:

slow
Day.

RECYCLING: TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 12/03/ 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)

TOTAL COUNT OF HOUSEHOLD USERS: 25

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: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

☐ Lansdowne
☐ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE

DAILY INSPECTION FORM

DATE: Dec 7 TIME: 8:10 STAFF: Julie M. Sosa

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: (Yes / No)

Leachate Springs: Yes / ☒ No

Animals: ☒ Yes ☐ No

Other: Yes / No

Description / Location

sun / snow
later
off

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: 146 Dead

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 ☒ Yes

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: 1167 McD



- ☐ Lansdowne
☐ Lyndhurst
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 9/24 TIME: 8:10 STAFF: Lulu M. Donnan

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

very little

eagle, birds

pleasant
cool

snowy
freezing
rain

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 12/09/1

electronics

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: 26

slow day

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:

Reviewer: _____

File Number: _____



- ☐ Lansdowne
☐ Lyndhurst
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**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 11 TIME: 8:10 STAFF: Julie M. Donald

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

*well -
small
clay*

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 12/11/24 plastic, metal bin

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: very little

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 Julie M. Donald Print Staff Name: Julie M. Donald

OFFICE USE:

Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne
☒ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 12 TIME: 8:20 STAFF: Aaron Chapman

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
Windblown Litter: Yes / No Around drive entrance
Leachate Springs: Yes / No
Animals: Yes / No Birds
Other: Yes / No Ice / snow

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Sand and salted area.

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /
DATES BINS WERE PICKED UP: / /

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION

OTHER COMMENTS / OBSERVATIONS

Sandy McKeay had a slip and fall by cardboard bin, Reported it to Jonathan
Landed on her elbow and said she was fine, happend at 1045-11am.

COMMERCIAL HAULER OR LARGE LOADS

Time	Hauler	Material	Quantity (estimate volume & weight)	Visual Check (Yes/No)
<u>945</u>	<u>Barry Thompson</u>	<u>house hold DIY construction</u>	<u>Trailer single axel</u>	<u>✓</u>

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: picked up garbage around gate and common area

APPLICATION OF DUST SUPPRESSANT: Yes / No

DETAILS: snow/ice

DAILY INSPECTION FORM COMPLETED: Yes / No

DETAILS: _____

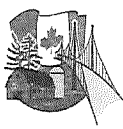
COMPLAINTS RECEIVED: Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE Aaron Langille-Chapman Print Staff Name: Aaron Langille-Chapman

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne

☐ Lyndhurst

☐ Escott

DATE: Dec 14 TIME: 8:10 STAFF: Judith McDonald

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

very little

birds two bald eagles

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: / /

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: 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 [Signature] Print Staff Name: Judith McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne

☐ Lyndhurst

☐ Escott

WASTE DISPOSAL SITE
DAILY INSPECTION FORM

DATE: Dec. 14 TIME: 8:10 STAFF: Julie McDonnell

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

precast

birdscaits

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 12/16/24

DATES BINS WERE PICKED UP: 1 / 1

TYPE

Amanda
mixed plastic, corrugated, mixed

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: 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

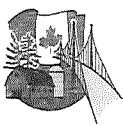
If Yes, complaint file number(s) and topic: _____

SIGNATURE [Signature]

Print Staff Name: Julie McDonnell

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



☐ Lansdowne

☐ Lyndhurst

☐ Escott

DATE: Dec. 18 TIME: 8:10 STAFF: Julie Garro

DEFICIENCIES OBSERVED:

Ponded Water:

Yes / No

Windblown Litter:

Yes / No

Leachate Springs:

Yes / No

Animals:

Yes / No

Other:

Yes / No

Description / Location

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

DATE BINS WERE ORDERED: 1 / 1

DATES BINS WERE PICKED UP: 17 / 21 / 24

TYPE

plastic, corrugated, mixed paper

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: 35

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: Julie McDonald

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 19 TIME: 8:10 STAFF: Julie Dr. Sen

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

very little garbage left at gate

RECOMMENDED ACTIONS / ACTIONS TAKEN:

Porta Potty changed. Potty dropping off loader

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: 45

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: Julie Dr. Sen

OFFICE USE:

Date Reviewed: Reviewer: File Number:



☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 21 TIME: 8:10 STAFF: Julie McDonald

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No
Windblown Litter: Yes / No
Leachate Springs: Yes / No
Animals: Yes / No
Other: Yes / No

very little
cold
1/12

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: 196

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: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



- ☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 23 TIME: 8:10 STAFF: Julie McDermott

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No 0

Windblown Litter: Yes / No very little

Leachate Springs: Yes / No 0

Animals: Yes / No 0

Other: Yes / No 0

Description / Location cold

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 23/12/

plastic / coreguld, mixed
pop

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: 89

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

IF NO: Waste Sent To: _____

LITTER CONTROL:

Yes / No 0

DETAILS: _____

APPLICATION OF DUST SUPPRESSANT: Yes / No 0

DETAILS: _____

DAILY INSPECTION FORM COMPLETED: Yes / No 0

DETAILS: _____

COMPLAINTS RECEIVED:

Yes / No

If Yes, complaint file number(s) and topic: _____

SIGNATURE

Julie McDermott

Print Staff Name:

Julie McDermott

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



- ☐ Lansdowne
☐ Lyndhurst
☐ Escott

**WASTE DISPOSAL SITE
DAILY INSPECTION FORM**

DATE: Dec 29 TIME: 8:10 STAFF: Julie M. Donohue

DEFICIENCIES OBSERVED:

Description / Location

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

cold
raining

cats birds

10:00 am
afternoon

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: / /

DATES BINS WERE PICKED UP: 28/12/

plastic, corrugated mixed paper

REJECTED LOADS:

TIME	HAULER NAME	REASON FOR REJECTION
<u>11:20 am</u>		<u>10-15 black bags of construction waste.</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: _____

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

IF NO: Waste Sent To: 157

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: Julie M. Donohue

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____



- ☐ Lansdowne
☐ Lyndhurst
☐ Escott

WASTE DISPOSAL SITE
DAILY INSPECTION FORM

DATE: Jul 30 TIME: 8:10 STAFF: Julie M

DEFICIENCIES OBSERVED:

Ponded Water: Yes / No

Windblown Litter: Yes / No

Leachate Springs: Yes / No

Animals: Yes / No

Other: Yes / No

Description / Location

old wet
garbage everywhere
very muddy
rainy

RECOMMENDED ACTIONS / ACTIONS TAKEN:

RECYCLING:

TYPE

DATE BINS WERE ORDERED: 30/12

DATES BINS WERE PICKED UP: 1 / 1

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>11:30</u>	<u>Bryan Marlow</u> <u>to council</u> <u>murdoch</u> <u>613-770-5556</u>	<u>construction</u>	<u>truck full</u>	<u>Yes</u>

TOTAL COUNT OF HOUSEHOLD USERS: 103

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 Julie M Print Staff Name: Julie McDonald

OFFICE USE:

Date Reviewed: _____ Reviewer: _____ File Number: _____

Appendix G

Malroz Site Inspection

Briar Hill Site InspectionDate: 24/05/15
Inspected by: AS/BB/KM
Weather Conditions: Clear

Time: 11:45am

Inspection Item	condition	notes
Signage is displayed per section 2 (2), (3), and (4) of the ECA.	Yes	
Was a site attendant present?	Yes	
Were any hazardous or liquid wastes observed being disposed of at the site?	No	
Are recycling materials being placed in the appropriate bins?	Yes	
Were vermin, vectors, dust or litter present?	No	
Is litter present at the site? Has a schedule been set for removal if present.	Yes	Continuous clean up
Are brush and clean wood segregated from other wastes?	No	No more burning
Are wastes burned at the site?	No	
Is interim cover being applied to the site?	Yes	
Is the property locked outside of posted hours?	Yes	
Drainage conditions (e.g. ponded water).	Yes	There is 1
Are surfacewater features obstructed?	No	
Are there seeps present?	No	

What is the location of the active fill area?	No	North of Entrance
Was waste observed outside of the approved fill area?	Yes	Continuous clean up, wind blown
Condition of the waste cap (Erosion, repairs needed?)	Good	
Were any unapproved wastes observed at the site?	No	
Are on-site structures in good condition?	Yes	
Were buildings on site monitored for methane gas, as per 8(1) of the ECA?	Yes	Attendant Shed Vapour Monitoring: Hex: NR ME: NR PID: NR

General Comments

Chelva Myles
Signature

Briar Hill Site Inspection

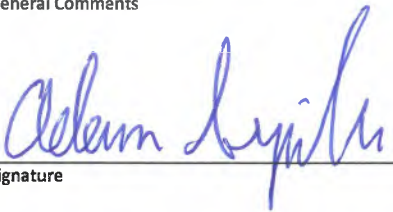
Date: 24/06/08
 Inspected by: AE/RH
 Weather Conditions: Clear

Time: 2:30pm

Inspection Item	condition	notes
Signage is displayed per section 2 (2), (3), and (4) of the ECA.	Good Condition	Yes, displayed.
Was a site attendant present?	No	Closed during visit
Were any hazardous or liquid wastes observed being disposed of at the site?	No	
Are recycling materials being placed in the appropriate bins?	Yes	
Were vermin, vectors, dust or litter present?	No	
Is litter present at the site? Has a schedule been set for removal if present.	Yes	Continuous cleanup
Are brush and clean wood segregated from other wastes?	Yes	
Are wastes burned at the site?	No	
Is interim cover being applied to the site?	Yes	No
Is the property locked outside of posted hours?	Yes	
Drainage conditions (e.g. ponded water).		No ponded water observed
Are surfacewater features obstructed?	No	
Are there seeps present?	No	

What is the location of the active fill area?		located 500 ft + from entrance.
Was waste observed outside of the approved fill area?	Yes	yes, wind blown.
Condition of the waste cap (Erosion, repairs needed?)		No repairs needed
Were any unapproved wastes observed at the site?	No	
Are on-site structures in good condition?	Yes	
Were buildings on site monitored for methane gas, as per 8(1) of the ECA?	Closed during visit	Attendant Shed Vapour Monitoring: Hex: - ME: - PID: -

General Comments


Signature

Appendix H

Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

Work Order	: WT2412466	Page	: 1 of 8
Client	: Malroz Engineering Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Adam Superville	Account Manager	: Costas Farassoglou
Address	: 2nd floor - 308 Wellington Street Kingston ON Canada K7K 7A8	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	Telephone	: 613 225 8279
Project	: 1036	Date Samples Received	: 17-May-2024 10:00
PO	: ----	Date Analysis	: 21-May-2024
		Commenced	
C-O-C number	: 20-1082754	Issue Date	: 29-May-2024 18:33
Sampler	: CLIENT		
Site	:		
Quote number	: PFAS in Soil and Water		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Sanja Risticvic	Department Manager - LCMS	LCMS, Waterloo, Ontario



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

<i>Unit</i>	<i>Description</i>
µg/L	micrograms per litre

>: greater than.

<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

<i>Qualifier</i>	<i>Description</i>
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).



Analytical Results

WT2412466-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: 24-W004

Client sampling date / time: 14-May-2024 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11Cl-PF3OUdS]	763051-92-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9Cl-PF3ONS]	756426-58-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	<1.0	1.0	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamide, n- [NMeFOSA]	31506-32-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA]	2355-31-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE]	24448-09-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Nonafuoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro(2-ethoxyethane)sulfonic acid [PFEEA]	113507-82-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanesulfonic acid [PFBS]	375-73-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanoic acid [PFBA]	375-22-4	<0.10	0.10	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecane sulfonic acid [PFDS]	335-77-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecanoic acid [PFDA]	335-76-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanoic acid [PFDoA]	307-55-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanoic acid [PFHpA]	375-85-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanesulfonic acid [PFHxS]	355-46-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanoic acid [PFHxA]	307-24-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanesulfonic acid [PFNS]	68259-12-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid [PFNA]	375-95-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	919005-14-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonamide [PFOSA]	754-91-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonic acid [PFOS]	1763-23-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanoic acid [PFOA]	335-67-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanoic acid [PFPeA]	2706-90-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotetradecanoic acid [PFTeDA]	376-06-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotridecanoic acid [PFTTrDA]	72629-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroundecanoic acid [PFUnA]	2058-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945



Analytical Results

WT2412466-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: 24-W004

Client sampling date / time: 14-May-2024 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
PFAS, total [EPA 1633 list]	n/a	<1.1	1.1	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Per- and Perfluoroalkyl Substances (PFAS) Surrogates								
Perfluorooctanesulfonic acid [13C8-PFOS]	2265893-05-6	93.2	0.01	%	E745/WT	21-May-2024	21-May-2024	1450945

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2412466-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: 24-W008

Client sampling date / time: 14-May-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11Cl-PF3OUdS]	763051-92-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9Cl-PF3ONS]	756426-58-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	<1.0	1.0	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamide, n- [NMeFOSA]	31506-32-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA]	2355-31-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE]	24448-09-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Nonafuoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro(2-ethoxyethane)sulfonic acid [PFEEA]	113507-82-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanesulfonic acid [PFBS]	375-73-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanoic acid [PFBA]	375-22-4	<0.10	0.10	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecane sulfonic acid [PFDS]	335-77-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecanoic acid [PFDA]	335-76-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanoic acid [PFDoA]	307-55-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945



Analytical Results

WT2412466-002

Sub-Matrix:Water

(Matrix: Water)

Client sample ID: 24-W008

Client sampling date / time: 14-May-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanoic acid [PFHpA]	375-85-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanesulfonic acid [PFHxS]	355-46-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanoic acid [PFHxA]	307-24-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanesulfonic acid [PFNS]	68259-12-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid [PFNA]	375-95-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	919005-14-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonamide [PFOSA]	754-91-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonic acid [PFOS]	1763-23-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanoic acid [PFOA]	335-67-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanoic acid [PFPeA]	2706-90-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotetradecanoic acid [PFTeDA]	376-06-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotridecanoic acid [PFTrDA]	72629-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroundecanoic acid [PFUnA]	2058-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
PFAS, total [EPA 1633 list]	n/a	<1.1	1.1	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Per- and Perfluoroalkyl Substances (PFAS) Surrogates								
Perfluorooctanesulfonic acid [13C8-PFOS]	2265893-05-6	99.6	0.01	%	E745/WT	21-May-2024	21-May-2024	1450945

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2412466-003

Sub-Matrix:Water

(Matrix: Water)

Client sample ID: 24-W009

Client sampling date / time: 14-May-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11CI-PF3OUdS]	763051-92-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9CI-PF3ONS]	756426-58-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	<1.0	1.0	µg/L	E745/WT	21-May-2024	21-May-2024	1450945



Analytical Results

WT2412466-003

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: 24-W009

Client sampling date / time: 14-May-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
Methyl perfluorooctanesulfonamide, n-[NMeFOSA]	31506-32-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoacetic acid, n-[NMeFOSAA]	2355-31-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoethanol, n-[NMeFOSE]	24448-09-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro(2-ethoxyethane)sulfonic acid [PFEESA]	113507-82-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanesulfonic acid [PFBS]	375-73-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanoic acid [PFBA]	375-22-4	<0.10	0.10	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecane sulfonic acid [PFDS]	335-77-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecanoic acid [PFDA]	335-76-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanoic acid [PFDoA]	307-55-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanoic acid [PFHpA]	375-85-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanesulfonic acid [PFHxS]	355-46-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanoic acid [PFHxA]	307-24-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanesulfonic acid [PFNS]	68259-12-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid [PFNA]	375-95-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	919005-14-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonamide [PFOSA]	754-91-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonic acid [PFOS]	1763-23-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanoic acid [PFOA]	335-67-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanoic acid [PFPeA]	2706-90-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotetradecanoic acid [PFTeDA]	376-06-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotridecanoic acid [PFTrDA]	72629-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroundecanoic acid [PFUnA]	2058-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
PFAS, total [EPA 1633 list]	n/a	<1.1	1.1	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Per- and Perfluoroalkyl Substances (PFAS) Surrogates								
Perfluorooctanesulfonic acid [13C8-PFOS]	2265893-05-6	97.6	0.01	%	E745/WT	21-May-2024	21-May-2024	1450945

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2412466-004

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: 24-W015

Client sampling date / time: 15-May-2024 10:32

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								



Analytical Results

WT2412466-004

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: 24-W015

Client sampling date / time: 15-May-2024 10:32

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11Cl-PF3OUdS]	763051-92-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9Cl-PF3ONS]	756426-58-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	<1.0	1.0	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamide, n- [NMeFOSA]	31506-32-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA]	2355-31-9	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE]	24448-09-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro(2-ethoxyethane)sulfonic acid [PFEESA]	113507-82-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	<0.100	DLM, 0.100	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	<0.100	DLM, 0.100	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanesulfonic acid [PFBS]	375-73-5	0.056	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorobutanoic acid [PFBA]	375-22-4	<0.50	DLM, 0.50	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecane sulfonic acid [PFDS]	335-77-3	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorodecanoic acid [PFDA]	335-76-2	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorododecanoic acid [PFDoA]	307-55-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroheptanoic acid [PFHpA]	375-85-9	0.056	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanesulfonic acid [PFHxS]	355-46-4	0.040	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorohexanoic acid [PFHxA]	307-24-4	0.286	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanesulfonic acid [PFNS]	68259-12-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid [PFNA]	375-95-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	919005-14-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonamide [PFOSA]	754-91-6	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanesulfonic acid [PFOS]	1763-23-1	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorooctanoic acid [PFOA]	335-67-1	0.108	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoropentanoic acid [PFPeA]	2706-90-3	0.280	DLM, 0.100	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotetradecanoic acid [PFTeDA]	376-06-7	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluorotridecanoic acid [PFTrDA]	72629-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Perfluoroundecanoic acid [PFUnA]	2058-94-8	<0.020	0.020	µg/L	E745/WT	21-May-2024	21-May-2024	1450945



Analytical Results

WT2412466-004

Sub-Matrix: **Water**

(Matrix: **Water**)

Client sample ID: 24-W015

Client sampling date / time: 15-May-2024 10:32

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Per- and Perfluoroalkyl Substances (PFAS)								
PFAS, total [EPA 1633 list]	n/a	<1.1	1.1	µg/L	E745/WT	21-May-2024	21-May-2024	1450945
Per- and Perfluoroalkyl Substances (PFAS) Surrogates								
Perfluorooctanesulfonic acid [13C8-PFOS]	2265893-05-6	91.2	0.01	%	E745/WT	21-May-2024	21-May-2024	1450945

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: WT2412466	Page	: 1 of 5
Client	: Malroz Engineering Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Adam Superville	Account Manager	: Costas Farassoglou
Address	: 2nd floor - 308 Wellington Street Kingston ON Canada K7K 7A8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: 613 225 8279
Project	: 1036	Date Samples Received	: 17-May-2024 10:00
PO	: ----	Issue Date	: 29-May-2024 18:33
C-O-C number	: 20-1082754		
Sampler	: CLIENT		
Site	:		
Quote number	: PFAS in Soil and Water		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Per- and Perfluoroalkyl Substances (PFAS) : PFAS (Extended List) in Water by LC-MS-MS										
HDPE (Teflon free) 24-W015	E745	15-May-2024	21-May-2024	28 days	6 days	✓	21-May-2024	28 days	0 days	✓
Per- and Perfluoroalkyl Substances (PFAS) : PFAS (Extended List) in Water by LC-MS-MS										
HDPE (Teflon free) 24-W004	E745	14-May-2024	21-May-2024	28 days	7 days	✓	21-May-2024	28 days	0 days	✓
Per- and Perfluoroalkyl Substances (PFAS) : PFAS (Extended List) in Water by LC-MS-MS										
HDPE (Teflon free) 24-W008	E745	14-May-2024	21-May-2024	28 days	7 days	✓	21-May-2024	28 days	0 days	✓
Per- and Perfluoroalkyl Substances (PFAS) : PFAS (Extended List) in Water by LC-MS-MS										
HDPE (Teflon free) 24-W009	E745	14-May-2024	21-May-2024	28 days	7 days	✓	21-May-2024	28 days	0 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
PFAS (Extended List) in Water by LC-MS-MS	E745	1450945	1	7	14.2	5.0	✓
Laboratory Control Samples (LCS)							
PFAS (Extended List) in Water by LC-MS-MS	E745	1450945	1	7	14.2	5.0	✓
Method Blanks (MB)							
PFAS (Extended List) in Water by LC-MS-MS	E745	1450945	1	7	14.2	5.0	✓
Matrix Spikes (MS)							
PFAS (Extended List) in Water by LC-MS-MS	E745	1450945	1	7	14.2	5.0	✓



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

<i>Analytical Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
PFAS (Extended List) in Water by LC-MS-MS	E745 ALS Environmental - Waterloo	Water	MECP E3533	An aliquot of water is analyzed for PFAs by direct injection LC/MS/MS
<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Preparation of PFAS in Water by Direct Injection	EP745 ALS Environmental - Waterloo	Water	MECP E3533	An aliquot of water is analyzed for PFAs by direct injection LC/MS/MS

QUALITY CONTROL REPORT

Work Order	: WT2412466	Page	: 1 of 10
Client	: Malroz Engineering Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Adam Superville	Account Manager	: Costas Farassoglou
Address	: 2nd floor - 308 Wellington Street Kingston ON Canada K7K 7A8	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: 613 225 8279
Project	: 1036	Date Samples Received	: 17-May-2024 10:00
PO	: ----	Date Analysis Commenced	: 21-May-2024
C-O-C number	: 20-1082754	Issue Date	: 29-May-2024 18:34
Sampler	: CLIENT		
Site	:		
Quote number	: PFAS in Soil and Water		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Sanja Risticvic	Department Manager - LCMS	Waterloo LCMS, Waterloo, Ontario

Page : 2 of 10
Work Order : WT2412466
Client : Malroz Engineering Inc.
Project : 1036



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QC Lot: 1450945)											
RG2400683-002	Anonymous	Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro-[11Cl-PF3OUdS]	763051-92-9	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Ethyl perfluorooctanesulfonamide, n-[NEtFOSA]	4151-50-2	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Ethyl perfluorooctanesulfonamido acetic acid, n-[NEtFOSAA]	2991-50-6	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Ethyl perfluorooctanesulfonamido ethanol, n-[NEtFOSE]	1691-99-2	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro-[9Cl-PF3ONS]	756426-58-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	E745	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Methyl perfluorooctanesulfonamide, n-[NMeFOSA]	31506-32-8	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Methyl perfluorooctanesulfonamido acetic acid, n-[NMeFOSAA]	2355-31-9	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Methyl perfluorooctanesulfonamido ethanol, n-[NMeFOSE]	24448-09-7	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoro(2-ethoxyethane)sulfonic acid [PFEESA]	113507-82-7	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QC Lot: 1450945) - continued											
RG2400683-002	Anonymous	Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorobutanesulfonic acid [PFBS]	375-73-5	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorobutanoic acid [PFBA]	375-22-4	E745	0.10	µg/L	<0.10	<0.10	0	Diff <2x LOR	----
		Perfluorodecane sulfonic acid [PFDS]	335-77-3	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorodecanoic acid [PFDA]	335-76-2	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorododecanoic acid [PFDoA]	307-55-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoroheptanoic acid [PFHpA]	375-85-9	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorohexanesulfonic acid [PFHxS]	355-46-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorohexanoic acid [PFHxA]	307-24-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorononanesulfonic acid [PFNS]	68259-12-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorononanoic acid [PFNA]	375-95-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorononanoic acid, 4,8-dioxo-3H- [ADONA]	919005-14-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorooctanesulfonamide [PFOSA]	754-91-6	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorooctanesulfonic acid [PFOS]	1763-23-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorooctanoic acid [PFOA]	335-67-1	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoropentanoic acid [PFPeA]	2706-90-3	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorotetradecanoic acid [PFTeDA]	376-06-7	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluorotridecanoic acid [PFTrDA]	72629-94-8	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----
		Perfluoroundecanoic acid [PFUnA]	2058-94-8	E745	0.020	µg/L	<0.020	<0.020	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QCLot: 1450945)						
Eicosafluoro-3-oxaundecane-1-sulfonic acid, 11-chloro-[11Cl-PF3OUdS]	763051-92-9	E745	0.02	µg/L	<0.020	----
Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	E745	0.02	µg/L	<0.020	----
Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	E745	0.02	µg/L	<0.020	----
Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	E745	0.02	µg/L	<0.020	----
Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	E745	0.02	µg/L	<0.020	----
Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	E745	0.02	µg/L	<0.020	----
Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	E745	0.02	µg/L	<0.020	----
Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	E745	0.02	µg/L	<0.020	----
Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	E745	0.02	µg/L	<0.020	----
Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	E745	0.02	µg/L	<0.020	----
Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro-[9Cl-PF3ONS]	756426-58-1	E745	0.02	µg/L	<0.020	----
Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	E745	1	µg/L	<1.0	----
Methyl perfluorooctanesulfonamide, n- [NMeFOSA]	31506-32-8	E745	0.02	µg/L	<0.020	----
Methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA]	2355-31-9	E745	0.02	µg/L	<0.020	----
Methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE]	24448-09-7	E745	0.02	µg/L	<0.020	----
Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	E745	0.02	µg/L	<0.020	----
Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]	113507-82-7	E745	0.02	µg/L	<0.020	----
Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	E745	0.02	µg/L	<0.020	----
Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	E745	0.02	µg/L	<0.020	----
Perfluorobutanesulfonic acid [PFBS]	375-73-5	E745	0.02	µg/L	<0.020	----
Perfluorobutanoic acid [PFBA]	375-22-4	E745	0.1	µg/L	<0.10	----
Perfluorodecane sulfonic acid [PFDS]	335-77-3	E745	0.02	µg/L	<0.020	----
Perfluorodecanoic acid [PFDA]	335-76-2	E745	0.02	µg/L	<0.020	----
Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	E745	0.02	µg/L	<0.020	----
Perfluorododecanoic acid [PFDoA]	307-55-1	E745	0.02	µg/L	<0.020	----
Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	E745	0.02	µg/L	<0.020	----
Perfluoroheptanoic acid [PFHpA]	375-85-9	E745	0.02	µg/L	<0.020	----
Perfluorohexanesulfonic acid [PFHxS]	355-46-4	E745	0.02	µg/L	<0.020	----
Perfluorohexanoic acid [PFHxA]	307-24-4	E745	0.02	µg/L	<0.020	----
Perfluorononanesulfonic acid [PFNS]	68259-12-1	E745	0.02	µg/L	<0.020	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QCLot: 1450945) - continued						
Perfluorononanoic acid [PFNA]	375-95-1	E745	0.02	µg/L	<0.020	----
Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	919005-14-4	E745	0.02	µg/L	<0.020	----
Perfluorooctanesulfonamide [PFOSA]	754-91-6	E745	0.02	µg/L	<0.020	----
Perfluorooctanesulfonic acid [PFOS]	1763-23-1	E745	0.02	µg/L	<0.020	----
Perfluorooctanoic acid [PFOA]	335-67-1	E745	0.02	µg/L	<0.020	----
Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	E745	0.02	µg/L	<0.020	----
Perfluoropentanoic acid [PFPeA]	2706-90-3	E745	0.02	µg/L	<0.020	----
Perfluorotetradecanoic acid [PFTeDA]	376-06-7	E745	0.02	µg/L	<0.020	----
Perfluorotridecanoic acid [PFTrDA]	72629-94-8	E745	0.02	µg/L	<0.020	----
Perfluoroundecanoic acid [PFUnA]	2058-94-8	E745	0.02	µg/L	<0.020	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QCLot: 1450945)									
Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11CI-PF3OUdS]	763051-92-9	E745	0.02	µg/L	0.3 µg/L	94.7	50.0	150	----
Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	E745	0.02	µg/L	0.3 µg/L	94.0	50.0	150	----
Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	E745	0.02	µg/L	0.3 µg/L	127	50.0	150	----
Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	E745	0.02	µg/L	0.3 µg/L	90.0	50.0	150	----
Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	E745	0.02	µg/L	0.3 µg/L	114	50.0	150	----
Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	E745	0.02	µg/L	0.3 µg/L	91.3	50.0	150	----
Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	E745	0.02	µg/L	0.3 µg/L	98.0	50.0	150	----
Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	E745	0.02	µg/L	0.3 µg/L	97.3	50.0	150	----
Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	E745	0.02	µg/L	0.3 µg/L	124	50.0	150	----
Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	E745	0.02	µg/L	0.3 µg/L	117	50.0	150	----
Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9CI-PF3ONS]	756426-58-1	E745	0.02	µg/L	0.3 µg/L	86.7	50.0	150	----
Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	E745	1	µg/L	3 µg/L	114	50.0	150	----
Methyl perfluorooctanesulfonamide, n- [NMeFOSA]	31506-32-8	E745	0.02	µg/L	0.3 µg/L	75.3	50.0	150	----
Methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA]	2355-31-9	E745	0.02	µg/L	0.3 µg/L	110	50.0	150	----
Methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE]	24448-09-7	E745	0.02	µg/L	0.3 µg/L	75.3	50.0	150	----
Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	E745	0.02	µg/L	0.3 µg/L	96.7	50.0	150	----
Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]	113507-82-7	E745	0.02	µg/L	0.3 µg/L	90.7	50.0	150	----
Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	E745	0.02	µg/L	0.3 µg/L	50.0	50.0	150	----
Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	E745	0.02	µg/L	0.3 µg/L	88.7	50.0	150	----
Perfluorobutanesulfonic acid [PFBS]	375-73-5	E745	0.02	µg/L	0.3 µg/L	98.7	50.0	150	----
Perfluorobutanoic acid [PFBA]	375-22-4	E745	0.1	µg/L	1 µg/L	108	50.0	150	----
Perfluorodecane sulfonic acid [PFDS]	335-77-3	E745	0.02	µg/L	0.3 µg/L	108	50.0	150	----
Perfluorodecanoic acid [PFDA]	335-76-2	E745	0.02	µg/L	0.3 µg/L	108	50.0	150	----
Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	E745	0.02	µg/L	0.3 µg/L	94.0	50.0	150	----
Perfluorododecanoic acid [PFDoA]	307-55-1	E745	0.02	µg/L	0.3 µg/L	100	50.0	150	----
Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	E745	0.02	µg/L	0.3 µg/L	92.0	50.0	150	----
Perfluoroheptanoic acid [PFHpA]	375-85-9	E745	0.02	µg/L	0.3 µg/L	93.3	50.0	150	----
Perfluorohexanesulfonic acid [PFHxS]	355-46-4	E745	0.02	µg/L	0.3 µg/L	86.7	50.0	150	----
Perfluorohexanoic acid [PFHxA]	307-24-4	E745	0.02	µg/L	0.3 µg/L	120	50.0	150	----



Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QCLot: 1450945) - continued									
Perfluorononanesulfonic acid [PFNS]	68259-12-1	E745	0.02	µg/L	0.3 µg/L	115	50.0	150	----
Perfluorononanoic acid [PFNA]	375-95-1	E745	0.02	µg/L	0.3 µg/L	109	50.0	150	----
Perfluorononanoic acid, 4,8-dioxa-3H- [ADONA]	919005-14-4	E745	0.02	µg/L	0.3 µg/L	82.7	50.0	150	----
Perfluorooctanesulfonamide [PFOSA]	754-91-6	E745	0.02	µg/L	0.3 µg/L	96.0	50.0	150	----
Perfluorooctanesulfonic acid [PFOS]	1763-23-1	E745	0.02	µg/L	0.3 µg/L	81.3	50.0	150	----
Perfluorooctanoic acid [PFOA]	335-67-1	E745	0.02	µg/L	0.3 µg/L	94.0	50.0	150	----
Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	E745	0.02	µg/L	0.3 µg/L	123	50.0	150	----
Perfluoropentanoic acid [PFPeA]	2706-90-3	E745	0.02	µg/L	0.3 µg/L	111	50.0	150	----
Perfluorotetradecanoic acid [PFTeDA]	376-06-7	E745	0.02	µg/L	0.3 µg/L	121	50.0	150	----
Perfluorotridecanoic acid [PFTrDA]	72629-94-8	E745	0.02	µg/L	0.3 µg/L	110	50.0	150	----
Perfluoroundecanoic acid [PFUnA]	2058-94-8	E745	0.02	µg/L	0.3 µg/L	91.3	50.0	150	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QCLot: 1450945)										
RG2400683-002	Anonymous	Eicosafuoro-3-oxaundecane-1-sulfonic acid, 11-chloro- [11Cl-PF3OUdS]	763051-92-9	E745	0.246 µg/L	0.3 µg/L	82.0	50.0	150	----
		Ethyl perfluorooctanesulfonamide, n- [NEtFOSA]	4151-50-2	E745	0.306 µg/L	0.3 µg/L	102	50.0	150	----
		Ethyl perfluorooctanesulfonamidoacetic acid, n- [NEtFOSAA]	2991-50-6	E745	0.448 µg/L	0.3 µg/L	149	50.0	150	----
		Ethyl perfluorooctanesulfonamidoethanol, n- [NEtFOSE]	1691-99-2	E745	0.228 µg/L	0.3 µg/L	76.0	50.0	150	----
		Fluorotelomer carboxylic acid, 3:3 [3:3 FTCA]	356-02-5	E745	0.264 µg/L	0.3 µg/L	88.0	50.0	150	----
		Fluorotelomer carboxylic acid, 5:3 [5:3 FTCA]	914637-49-3	E745	0.278 µg/L	0.3 µg/L	92.7	50.0	150	----
		Fluorotelomer carboxylic acid, 7:3 [7:3 FTCA]	812-70-4	E745	0.280 µg/L	0.3 µg/L	93.3	50.0	150	----
		Fluorotelomer sulfonic acid, 4:2 [4:2 FTS]	757124-72-4	E745	0.266 µg/L	0.3 µg/L	88.7	50.0	150	----
		Fluorotelomer sulfonic acid, 6:2 [6:2 FTS]	27619-97-2	E745	0.364 µg/L	0.3 µg/L	121	50.0	150	----
		Fluorotelomer sulfonic acid, 8:2 [8:2 FTS]	39108-34-4	E745	0.294 µg/L	0.3 µg/L	98.0	50.0	150	----
		Hexadecafluoro-3-oxanonane-1-sulfonic acid, 9-chloro- [9Cl-PF3ONS]	756426-58-1	E745	0.254 µg/L	0.3 µg/L	84.7	50.0	150	----
		Hexafluoropropylene oxide dimer acid [HFPO-DA]	13252-13-6	E745	2.5 µg/L	3 µg/L	84.3	50.0	150	----
		Methyl perfluorooctanesulfonamide, n- [NMeFOSA]	31506-32-8	E745	0.226 µg/L	0.3 µg/L	75.3	50.0	150	----
		Methyl perfluorooctanesulfonamidoacetic acid, n- [NMeFOSAA]	2355-31-9	E745	0.290 µg/L	0.3 µg/L	96.7	50.0	150	----
		Methyl perfluorooctanesulfonamidoethanol, n- [NMeFOSE]	24448-09-7	E745	0.252 µg/L	0.3 µg/L	84.0	50.0	150	----
		Nonafluoro-3,6-dioxaheptanoic acid [NFDHA]	151772-58-6	E745	0.306 µg/L	0.3 µg/L	102	50.0	150	----
		Perfluoro(2-ethoxyethane)sulfonic acid [PFEEESA]	113507-82-7	E745	0.264 µg/L	0.3 µg/L	88.0	50.0	150	----
		Perfluoro-3-methoxypropanoic acid [PFMPA]	377-73-1	E745	0.234 µg/L	0.3 µg/L	78.0	50.0	150	----
		Perfluoro-4-methoxybutanoic acid [PFMBA]	863090-89-5	E745	0.260 µg/L	0.3 µg/L	86.7	50.0	150	----
		Perfluorobutanesulfonic acid [PFBS]	375-73-5	E745	0.278 µg/L	0.3 µg/L	92.7	50.0	150	----



Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Per- and Perfluoroalkyl Substances (PFAS) (QCLot: 1450945) - continued										
RG2400683-002	Anonymous	Perfluorobutanoic acid [PFBA]	375-22-4	E745	1.07 µg/L	1 µg/L	107	50.0	150	----
		Perfluorodecane sulfonic acid [PFDS]	335-77-3	E745	0.302 µg/L	0.3 µg/L	101	50.0	150	----
		Perfluorodecanoic acid [PFDA]	335-76-2	E745	0.308 µg/L	0.3 µg/L	103	50.0	150	----
		Perfluorododecanesulfonic acid [PFDoS]	79780-39-5	E745	0.242 µg/L	0.3 µg/L	80.7	50.0	150	----
		Perfluorododecanoic acid [PFDoA]	307-55-1	E745	0.298 µg/L	0.3 µg/L	99.3	50.0	150	----
		Perfluoroheptanesulfonic acid [PFHpS]	375-92-8	E745	0.288 µg/L	0.3 µg/L	96.0	50.0	150	----
		Perfluoroheptanoic acid [PFHpA]	375-85-9	E745	0.280 µg/L	0.3 µg/L	93.3	50.0	150	----
		Perfluorohexanesulfonic acid [PFHxS]	355-46-4	E745	0.268 µg/L	0.3 µg/L	89.3	50.0	150	----
		Perfluorohexanoic acid [PFHxA]	307-24-4	E745	0.348 µg/L	0.3 µg/L	116	50.0	150	----
		Perfluorononanesulfonic acid [PFNS]	68259-12-1	E745	0.304 µg/L	0.3 µg/L	101	50.0	150	----
		Perfluorononanoic acid [PFNA]	375-95-1	E745	0.314 µg/L	0.3 µg/L	105	50.0	150	----
		Perfluorononanoic acid, 4,8-dioxa-3H-[ADONA]	919005-14-4	E745	0.260 µg/L	0.3 µg/L	86.7	50.0	150	----
		Perfluorooctanesulfonamide [PFOSA]	754-91-6	E745	0.306 µg/L	0.3 µg/L	102	50.0	150	----
		Perfluorooctanesulfonic acid [PFOS]	1763-23-1	E745	0.234 µg/L	0.3 µg/L	78.0	50.0	150	----
		Perfluorooctanoic acid [PFOA]	335-67-1	E745	0.294 µg/L	0.3 µg/L	98.0	50.0	150	----
		Perfluoropentanesulfonic acid [PFPeS]	2706-91-4	E745	0.324 µg/L	0.3 µg/L	108	50.0	150	----
		Perfluoropentanoic acid [PFPeA]	2706-90-3	E745	0.316 µg/L	0.3 µg/L	105	50.0	150	----
		Perfluorotetradecanoic acid [PFTeDA]	376-06-7	E745	0.346 µg/L	0.3 µg/L	115	50.0	150	----
		Perfluorotridecanoic acid [PFTTrDA]	72629-94-8	E745	0.298 µg/L	0.3 µg/L	99.3	50.0	150	----
		Perfluoroundecanoic acid [PFUnA]	2058-94-8	E745	0.262 µg/L	0.3 µg/L	87.3	50.0	150	----

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 1082754

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Page of

Contact and company name below will appear on the final report

Malroz Engineering Inc.
Adam Superville

Company address below will appear on the final report

308 Wellington St.
Kingsston, Ontario
K7K-7A8

Same as Report To ☒ YES ☐ NO

Copy of Invoice with Report ☒ YES ☐ NO

Malroz Engineering Inc.
mahoney@malroz.com

Project Information

/ Quote # ME10100

036

Reports / Recipients

Select Report Format: ☒ PDF ☒ EXCEL ☐ EDO (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax Superville@malroz.com

Email 2 buttolter@malroz.com

Email 3 mcallister@malroz.com

Invoice Recipients

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax mahoney@malroz.com

Email 2

Oil and Gas Required Fields (client use)

AFE/Coast Center: PO#

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Contact:

Sample Identification and/or Coordinate
(This description will appear on the report)

24-W004

24-W008

24-W009

24-W015

Date
(dd-mm-yy)

14-May-24

15-May-24

Time
(hr:mm)

11:45

12:45

13:30

10:32

Sample Type

GW

↓

NUMBER OF CONTAINERS

3 X

11

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11

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11

SAMPLES ON HOLD
EXTENDED STORAGE REQ
SUSPECTED HAZARD (see 1

Environmental Division
Waterloo
Work Order Reference
WT2412466



Telephone : +1 519 886 8910

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☒ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C

3-1

3-1

3-1

3-1

3-1

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by: BB

Date: 15/17/24

Time: 10:00

Time: 10:00

SHIPMENT RELEASE (client use)

Date: 24/05/16

Time: 10:00

Time: 10:00

Time: 10:00

FOR ALS LOCATIONS AND SAMPLING INFORMATION

ions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

is taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

C.O.C.: G108260

REPORT No: 24-014019 - Rev. 0

Report To:

Malroz Engineering Inc.
308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8

CADUCEON Environmental Laboratories

285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Adam Superville

DATE RECEIVED: 2024-May-15
DATE REPORTED: 2024-May-29
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: Briar Hill WDS
P.O. NUMBER: 1036

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	19	OTTAWA	PCURIEL	2024-May-21	A-IC-01	SM 4110B
BOD5 (Liquid)	19	KINGSTON	JWOLFE2	2024-May-23	BOD-001	SM 5210B
COD (Liquid)	19	KINGSTON	EHINCH	2024-May-23	COD-001	SM 5220D
Cond/pH/Alk Auto (Liquid)	19	OTTAWA	SBOUDREAU	2024-May-21	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
DOC/DIC (Liquid)	19	OTTAWA	VKASYAN	2024-May-22	C-OC-01	EPA 415.2
ICP/MS (Liquid)	19	OTTAWA	AOZKAYMAK	2024-May-22	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	19	OTTAWA	APRUDYVUS	2024-May-21	D-ICP-01	SM 3120B
Mercury (Liquid)	19	OTTAWA	TBENNETT	2024-May-22	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	19	KINGSTON	KDIBBITS	2024-May-27	NH3-001	SM 4500NH3
Phenols (Liquid)	19	KINGSTON	JMACINNES	2024-May-29	PHEN-01	MECP E3179
TP & TKN (Liquid)	19	KINGSTON	KDIBBITS	2024-May-22	TPTKN-001	MECP E3516.2
TSS (Liquid)	19	KINGSTON	MCLOSS	2024-May-27	TSS-001	SM 2540D
VOC-Volatiles Full (Water)	4	RICHMOND_HILL	JEVANS	2024-May-28	C-VOC-02	EPA 8260

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *



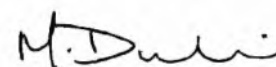
Michelle Dubien
Data Specialist

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Final Report

REPORT No: 24-014019 - Rev. 0

Client I.D.			24-W001	24-W002	24-W004	24-W005	24-W007
Sample I.D.			24-014019-1	24-014019-2	24-014019-3	24-014019-4	24-014019-5
Date Collected			2024-05-14	2024-05-14	2024-05-14	2024-05-14	2024-05-14
Parameter	Units	R.L.	-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5	544	567	254	202	252
TDS (Calc. from Cond.)	mg/L	3	662	699	287	236	246
Conductivity @25°C	uS/cm	1	1230	1290	554	456	476
pH @25°C	pH units	-	7.86	7.59	7.90	7.94	8.03
Chloride	mg/L	0.5	71.3	75.3	5.7	10.2	1.2
Nitrate (N)	mg/L	0.05	<0.05	<0.05	<0.05	3.94	<0.05
Nitrite (N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	47	48	41	13	17
BOD5	mg/L	3	4	<3	4	<3	<3
Total Suspended Solids	mg/L	3	16900	3660	14	544	1440
Phosphorus (Total)	mg/L	0.01	13.4	3.99	0.07	0.40	1.27
Total Kjeldahl Nitrogen	mg/L	0.1	1.2	1.4	0.3	0.2	0.2
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.08	1.24	0.15	0.15	<0.05
Dissolved Organic Carbon	mg/L	0.2	5.1	6.8	3.3	2.4	2.0
Phenolics	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5	387	79	13	33	43
Hardness (as CaCO3)	mg/L	0.02	600	598	282	232	252
Aluminum	mg/L	0.01	0.06	0.05	0.03	0.03	0.02
Barium	mg/L	0.001	0.312	0.460	0.243	0.260	0.138
Boron	mg/L	0.005	0.242	0.308	0.045	0.020	<0.005
Calcium	mg/L	0.02	132	151	70.9	56.8	54.9



Michelle Dubien
Data Specialist

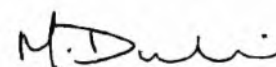
The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

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Final Report

REPORT No: 24-014019 - Rev. 0

			Client I.D.	24-W001	24-W002	24-W004	24-W005	24-W007
			Sample I.D.	24-014019-1	24-014019-2	24-014019-3	24-014019-4	24-014019-5
			Date Collected	2024-05-14	2024-05-14	2024-05-14	2024-05-14	2024-05-14
Parameter	Units	R.L.		-	-	-	-	-
Iron	mg/L	0.005		1.56	2.10	0.820	0.008	<0.005
Magnesium	mg/L	0.02		66.0	53.4	25.4	22.0	28.0
Manganese	mg/L	0.001		0.044	0.253	0.039	<0.001	0.002
Potassium	mg/L	0.1		3.3	9.2	1.4	1.2	1.6
Sodium	mg/L	0.2		41.6	51.6	7.6	3.4	4.6
Strontium	mg/L	0.001		0.773	0.615	0.557	0.116	0.136
Zinc	mg/L	0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001		0.0007	0.0009	<0.0001	<0.0001	0.0002
Cadmium	mg/L	0.000015		<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Chromium	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001		0.0005	0.0008	0.0001	0.0001	0.0001
Copper	mg/L	0.0001		0.0015	0.0007	0.0007	0.0011	0.0013
Lead	mg/L	0.00002		0.00004	0.00005	0.00002	<0.00002	0.00002
Silver	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005		<0.00005	0.00246	<0.00005	0.00059	0.00180
Vanadium	mg/L	0.0001		0.0002	0.0001	<0.0001	0.0005	<0.0001
Mercury	mg/L	0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002



Michelle Dubien
Data Specialist

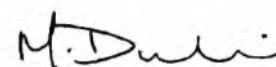
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Final Report

REPORT No: 24-014019 - Rev. 0

Client I.D.			24-W009	24-W010	24-W012	24-W013	24-W014
Sample I.D.			24-014019-7	24-014019-8	24-014019-9	24-014019-10	24-014019-11
Date Collected			2024-05-14	2024-05-14	2024-05-14	2024-05-14	2024-05-15
Parameter	Units	R.L.	-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5	206	226	286	350	444
TDS (Calc. from Cond.)	mg/L	3	682	218	619	849	543
Conductivity @25°C	uS/cm	1	1260	422	1150	1560	1020
pH @25°C	pH units	-	8.07	8.05	7.81	7.91	7.82
Chloride	mg/L	0.5	156	0.9	191	278	41.1
Nitrate (N)	mg/L	0.05	<0.05	0.24	0.32	1.26	<0.05
Nitrite (N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	158	4	22	15	49
BOD5	mg/L	3	<3	<3	6	<3	<3
Total Suspended Solids	mg/L	3	<3	20600	1060	142	10
Phosphorus (Total)	mg/L	0.01	0.02	0.94	0.64	0.11	0.04
Total Kjeldahl Nitrogen	mg/L	0.1	0.2	0.6	2.2	0.1	1.9
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.09	<0.05	0.10	<0.05	1.78
Dissolved Organic Carbon	mg/L	0.2	3.3	2.2	2.7	1.9	7.3
Phenolics	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5	21	88	98	38	18
Hardness (as CaCO3)	mg/L	0.02	1.21	197	442	546	451
Aluminum	mg/L	0.01	0.01	0.03	0.05	0.05	0.04
Barium	mg/L	0.001	<0.001	0.359	0.509	0.758	0.181
Boron	mg/L	0.005	0.419	0.008	0.009	0.021	0.874
Calcium	mg/L	0.02	0.38	50.5	125	142	120



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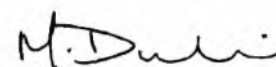
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			Client I.D.	24-W009	24-W010	24-W012	24-W013	24-W014
			Sample I.D.	24-014019-7	24-014019-8	24-014019-9	24-014019-10	24-014019-11
			Date Collected	2024-05-14	2024-05-14	2024-05-14	2024-05-14	2024-05-15
Parameter	Units	R.L.		-	-	-	-	-
Iron	mg/L	0.005		0.034	0.007	<0.005	<0.005	1.22
Magnesium	mg/L	0.02		0.06	17.3	31.7	46.2	36.7
Manganese	mg/L	0.001		0.002	<0.001	<0.001	<0.001	0.177
Potassium	mg/L	0.1		0.5	1.1	1.6	2.9	5.9
Sodium	mg/L	0.2		284	2.9	52.2	104	41.0
Strontium	mg/L	0.001		0.012	0.066	0.192	0.208	3.28
Zinc	mg/L	0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001		<0.0001	0.0001	0.0002	<0.0001	0.0003
Cadmium	mg/L	0.000015		<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Chromium	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001		0.0008	0.0002	0.0002	0.0002	0.0004
Copper	mg/L	0.0001		0.0034	0.0009	0.0009	0.0023	0.0006
Lead	mg/L	0.00002		0.00007	0.00002	<0.00002	0.00005	0.00004
Silver	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005		<0.00005	0.00334	0.00018	0.00062	0.00151
Vanadium	mg/L	0.0001		<0.0001	0.0001	0.0002	<0.0001	<0.0001
Mercury	mg/L	0.00002		<0.00002	<0.00002	<0.00002	0.00004	<0.00002



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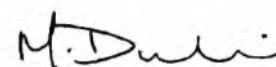
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Client I.D.			24-W015	24-W017	24-W018	24-W019	24-W020
Sample I.D.			24-014019-12	24-014019-14	24-014019-15	24-014019-16	24-014019-17
Date Collected			2024-05-15	2024-05-15	2024-05-15	2024-05-15	2024-05-15
Parameter	Units	R.L.	-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5	621	788	415	316	332
TDS (Calc. from Cond.)	mg/L	3	909	1020	589	424	387
Conductivity @25°C	uS/cm	1	1660	1850	1100	807	742
pH @25°C	pH units	-	7.58	7.53	7.71	7.74	7.93
Chloride	mg/L	0.5	140	113	103	39.1	17.9
Nitrate (N)	mg/L	0.05	8.74	<0.05	1.01	0.06	<0.05
Nitrite (N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	37	87	19	54	52
BOD5	mg/L	3	<3	3	<3	<3	4
Total Suspended Solids	mg/L	3	<3	62	3640	330	36900
Phosphorus (Total)	mg/L	0.01	0.03	0.06	1.09	0.18	20.3
Total Kjeldahl Nitrogen	mg/L	0.1	1.2	14.1	0.4	1.8	2.6
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.09	13.9	0.18	1.71	0.07
Dissolved Organic Carbon	mg/L	0.2	11.6	15.1	3.3	6.5	3.0
Phenolics	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5	42	87	52	27	278
Hardness (as CaCO3)	mg/L	0.02	617	747	446	293	367
Aluminum	mg/L	0.01	0.06	0.08	0.04	0.03	0.03
Barium	mg/L	0.001	0.336	0.126	0.759	0.255	0.369
Boron	mg/L	0.005	0.297	1.22	0.066	0.229	0.037
Calcium	mg/L	0.02	182	202	125	83.7	86.7



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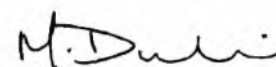
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Client I.D.			24-W015	24-W017	24-W018	24-W019	24-W020
Sample I.D.			24-014019-12	24-014019-14	24-014019-15	24-014019-16	24-014019-17
Date Collected			2024-05-15	2024-05-15	2024-05-15	2024-05-15	2024-05-15
Parameter	Units	R.L.	-	-	-	-	-
Iron	mg/L	0.005	0.030	7.87	0.005	0.439	0.007
Magnesium	mg/L	0.02	39.2	58.7	32.6	20.5	36.6
Manganese	mg/L	0.001	0.243	0.062	0.001	0.327	0.070
Potassium	mg/L	0.1	28.9	37.5	2.7	16.3	2.1
Sodium	mg/L	0.2	130	102	61.5	47.0	11.1
Strontium	mg/L	0.001	0.499	0.877	0.305	0.291	0.352
Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	0.0003	0.0002	<0.0001	0.0002	<0.0001
Cadmium	mg/L	0.000015	0.000026	<0.000015	<0.000015	0.000039	<0.000015
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001	0.0008	0.0008	0.0003	0.0045	0.0003
Copper	mg/L	0.0001	0.0068	0.0006	0.0023	0.0031	0.0009
Lead	mg/L	0.00002	0.00008	0.00005	0.00004	0.00007	<0.00002
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	0.00059	0.00050	0.00046	0.00041	0.00052
Vanadium	mg/L	0.0001	<0.0001	0.0008	0.0002	<0.0001	<0.0001
Mercury	mg/L	0.00002	0.00003	0.00003	<0.00002	<0.00002	<0.00002



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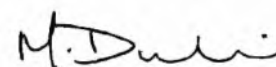
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			Client I.D.	24-W021	24-W022	24-W023	24-W024
			Sample I.D.	24-014019-18	24-014019-19	24-014019-20	24-014019-21
			Date Collected	2024-05-15	2024-05-15	2024-05-15	2024-05-15
Parameter	Units	R.L.		-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		320	275	212	<5
TDS (Calc. from Cond.)	mg/L	3		388	500	277	<3
Conductivity @25°C	uS/cm	1		743	940	535	<1
pH @25°C	pH units	-		7.96	7.97	8.12	5.85
Chloride	mg/L	0.5		14.6	87.9	34.4	<0.5
Nitrate (N)	mg/L	0.05		1.32	3.19	1.07	<0.05
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1		59	77	15	<1
BOD5	mg/L	3		<3	<3	<3	<3
Total Suspended Solids	mg/L	3		46500	514	<3	<3
Phosphorus (Total)	mg/L	0.01		6.14	1.48	0.04	0.01
Total Kjeldahl Nitrogen	mg/L	0.1		0.5	0.4	0.1	<0.1
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		<0.05	0.06	0.07	<0.05
Dissolved Organic Carbon	mg/L	0.2		3.4	4.2	1.6	<0.2
Phenolics	mg/L	0.001		0.002	<0.001	<0.001	<0.001
COD	mg/L	5		141	39	9	5
Hardness (as CaCO3)	mg/L	0.02		373	244	256	0.04
Aluminum	mg/L	0.01		0.04	0.03	0.03	<0.01
Barium	mg/L	0.001		0.229	0.027	0.154	<0.001
Boron	mg/L	0.005		0.027	0.014	0.005	<0.005
Calcium	mg/L	0.02		90.3	63.6	66.2	<0.02



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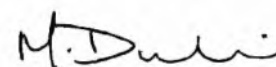
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			Client I.D.	24-W021	24-W022	24-W023	24-W024
			Sample I.D.	24-014019-18	24-014019-19	24-014019-20	24-014019-21
			Date Collected	2024-05-15	2024-05-15	2024-05-15	2024-05-15
Parameter	Units	R.L.		-	-	-	-
Iron	mg/L	0.005		<0.005	0.031	<0.005	<0.005
Magnesium	mg/L	0.02		35.9	20.7	22.0	<0.02
Manganese	mg/L	0.001		0.002	0.002	0.001	<0.001
Potassium	mg/L	0.1		13.0	4.5	1.6	<0.1
Sodium	mg/L	0.2		8.4	94.3	9.1	<0.2
Strontium	mg/L	0.001		0.203	0.188	0.149	<0.001
Zinc	mg/L	0.005		<0.005	0.021	<0.005	<0.005
Arsenic	mg/L	0.0001		0.0003	0.0010	<0.0001	<0.0001
Cadmium	mg/L	0.000015		<0.000015	0.000047	<0.000015	<0.000015
Chromium	mg/L	0.001		<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001		0.0003	0.0002	0.0001	<0.0001
Copper	mg/L	0.0001		0.0029	0.0032	0.0009	0.0003
Lead	mg/L	0.00002		0.00004	0.00008	<0.00002	<0.00002
Silver	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005		0.00325	0.00688	0.00059	<0.00005
Vanadium	mg/L	0.0001		0.0005	0.0002	0.0005	<0.0001
Mercury	mg/L	0.00002		<0.00002	<0.00002	<0.00002	<0.00002



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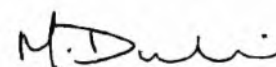
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			Client I.D.	24-W001	24-W002	24-W015	24-W017
			Sample I.D.	24-014019-1	24-014019-2	24-014019-12	24-014019-14
			Date Collected	2024-05-14	2024-05-14	2024-05-15	2024-05-15
Parameter	Units	R.L.		-	-	-	-
Acetone	µg/L	30		<30	<30	<30	<30
Benzene	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Bromobenzene	µg/L	0.4		<0.4	<0.4	<0.4	<0.4
Bromodichloromethane	µg/L	2		<2	<2	<2	<2
Bromoform	µg/L	5		<5	<5	<5	<5
Bromomethane	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Chlorobenzene	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	3		<3	<3	<3	<3
Chloroform	µg/L	1		<1	<1	<1	<1
Chloromethane (Methyl Chloride)	µg/L	2		<2	<2	<2	<2
Chlorotoluene,2-	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Chlorotoluene,4-	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Dibromo-3-Chloropropane,1,2-	µg/L	0.6		<0.6	<0.6	<0.6	<0.6
Dibromochloromethane	µg/L	2		<2	<2	<2	<2
Ethylene Dibromide	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Dichlorobenzene,1,2-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichlorobenzene,1,3-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichlorobenzene,1,4-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	µg/L	2		<2	<2	<2	<2
Dichloroethane,1,1-	µg/L	0.5		<0.5	<0.5	<0.5	1.5



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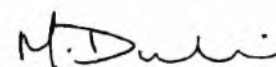
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			Client I.D.	24-W001	24-W002	24-W015	24-W017
			Sample I.D.	24-014019-1	24-014019-2	24-014019-12	24-014019-14
			Date Collected	2024-05-14	2024-05-14	2024-05-15	2024-05-15
Parameter	Units	R.L.		-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloroethylene, 1,1-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloroethylene, 1,2-cis-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloroethylene, 1,2-trans-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloropropane, 1,2-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloropropane, 1,3-	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Dichloropropane, 2,2-	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Dichloropropene, 1,1-	µg/L	0.2		<0.2	<0.2	<0.2	<0.2
Dichloropropene, 1,3-cis-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloropropene, 1,3-cis+trans- (Calculated)	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Dichloropropene, 1,3-trans-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5		<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	µg/L	0.4		<0.4	<0.4	<0.4	<0.4
Hexane	µg/L	5		<5	<5	<5	<5
Isopropylbenzene	µg/L	0.2		<0.2	<0.2	<0.2	0.2
Methyl Butyl Ketone	µg/L	5		<5	<5	<5	<5
Dichloromethane (Methylene Chloride)	µg/L	5		<5	<5	<5	<5
Methyl Ethyl Ketone	µg/L	2		<2	<2	<2	<2
Methyl Isobutyl Ketone	µg/L	20		<20	<20	<20	<20
Methyl tert-Butyl Ether (MTBE)	µg/L	2		<2	<2	<2	<2
Naphthalene	µg/L	0.4		<0.4	<0.4	<0.4	<0.4



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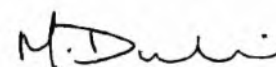
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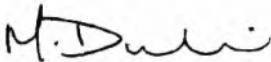
Client I.D.			24-W001	24-W002	24-W015	24-W017
Sample I.D.			24-014019-1	24-014019-2	24-014019-12	24-014019-14
Date Collected			2024-05-14	2024-05-14	2024-05-15	2024-05-15
Parameter	Units	R.L.	-	-	-	-
n-Butylbenzene	µg/L	0.4	<0.4	<0.4	<0.4	<0.4
n-Propylbenzene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p-Isopropyltoluene	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
sec-Butylbenzene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Styrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethane,1,1,1,2-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane,1,1,2,2-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene,1,2,3-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichlorobenzene,1,2,4-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethane,1,1,1,1-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethane,1,1,2-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane (Freon 11)	µg/L	5	<5	<5	<5	<5
Trichloropropane,1,2,3-	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trimethylbenzene,1,2,4-	µg/L	1	<1	<1	<1	<1
Trimethylbenzene,1,3,5-	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Vinyl Chloride	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Xylene, m,p-	µg/L	1	<1	<1	<1	<1



**Michelle Dubien
Data Specialist**

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			Client I.D.	24-W001	24-W002	24-W015	24-W017
			Sample I.D.	24-014019-1	24-014019-2	24-014019-12	24-014019-14
			Date Collected	2024-05-14	2024-05-14	2024-05-15	2024-05-15
Parameter	Units	R.L.		-	-	-	-
Xylene, m,p,o-	µg/L	1.1		<1.1	<1.1	<1.1	<1.1
Xylene, o-	µg/L	0.5		<0.5	<0.5	<0.5	<0.5



Michelle Dubien
Data Specialist

C.O.C.: G108259

REPORT No: 24-014013 - Rev. 0

Report To:

Malroz Engineering Inc.
308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8

CADUCEON Environmental Laboratories

285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Adam Superville

DATE RECEIVED: 2024-May-15
DATE REPORTED: 2024-May-29
SAMPLE MATRIX: Surface Water

CUSTOMER PROJECT: Briar Hill WDS
P.O. NUMBER: 1036

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	3	OTTAWA	PCURIEL	2024-May-21	A-IC-01	SM 4110B
BOD5 (Liquid)	3	KINGSTON	JWOLFE2	2024-May-23	BOD-001	SM 5210B
COD (Liquid)	3	KINGSTON	EHINCH	2024-May-23	COD-001	SM 5220D
Cond/pH/Alk Auto (Liquid)	3	OTTAWA	SBOUDREAU	2024-May-17	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
DOC/DIC (Liquid)	3	OTTAWA	VKASYAN	2024-May-21	C-OC-01	EPA 415.2
ICP/MS Total (Liquid)	3	OTTAWA	AOZKAYMAK	2024-May-22	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	3	OTTAWA	APRUDYVUS	2024-May-21	D-ICP-01	SM 3120B
ICP/OES (Liquid)	3	OTTAWA	APRUDYVUS	2024-May-21	D-ICP-01	SM 3120B
Mercury (Liquid) Lab Filtered	3	OTTAWA	TBENNETT	2024-May-21	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	3	KINGSTON	KDIBBITS	2024-May-27	NH3-001	SM 4500NH3
Phenols (Liquid)	3	KINGSTON	JMACINNES	2024-May-28	PHEN-01	MECP E3179
TP & TKN (Liquid)	3	KINGSTON	KDIBBITS	2024-May-22	TPTKN-001	MECP E3516.2
TP & TKN (Liquid)	3	KINGSTON	KDIBBITS	2024-May-27	TPTKN-001	MECP E3516.2
TSS (Liquid)	3	KINGSTON	MCLOSS	2024-May-27	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *

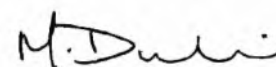


Michelle Dubien
Data Specialist

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Final Report
REPORT No: 24-014013 - Rev. 0

			Client I.D.	24-W003	24-W006	24-W011
			Sample I.D.	24-014013-1	24-014013-2	24-014013-3
			Date Collected	2024-05-14	2024-05-14	2024-05-14
Parameter	Units	R.L.		-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		233	239	215
TDS (Calc. from Cond.)	mg/L	3		254	254	234
Conductivity @25°C	uS/cm	1		491	490	452
pH @25°C	pH units	-		8.05	8.12	8.08
Chloride	mg/L	0.5		9.8	10.1	7.0
Nitrate (N)	mg/L	0.05		1.13	0.97	1.24
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05
Sulphate	mg/L	1		14	12	13
BOD5	mg/L	3		5	4	4
Total Suspended Solids	mg/L	3		14	11	20
Phosphorus (Total)	mg/L	0.01		0.07	0.06	0.06
Total Kjeldahl Nitrogen	mg/L	0.1		0.8	0.6	0.8
Total Phosphorus (Dissolved)	mg/L	0.01		0.04	0.05	0.08
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		0.17	0.13	0.09
Ammonia (N)-unionized	mg/L	0.01		<0.01	<0.01	<0.01
Dissolved Organic Carbon	mg/L	0.2		6.9	8.0	6.6
Phenolics	mg/L	0.001		0.001	<0.001	<0.001
COD	mg/L	5		33	31	38
Aluminum	mg/L	0.01		0.03	0.03	0.03
Hardness (as CaCO3)	mg/L	-		246	246	227
Barium (Total)	mg/L	0.001		0.150	0.145	0.137



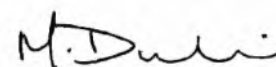
Michelle Dubien
Data Specialist

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Final Report
REPORT No: 24-014013 - Rev. 0

			Client I.D.	24-W003	24-W006	24-W011
			Sample I.D.	24-014013-1	24-014013-2	24-014013-3
			Date Collected	2024-05-14	2024-05-14	2024-05-14
Parameter	Units	R.L.		-	-	-
Boron (Total)	mg/L	0.005		0.026	0.024	0.014
Calcium (Total)	mg/L	0.02		62.5	62.9	57.0
Iron (Total)	mg/L	0.005		0.710	0.519	0.734
Magnesium (Total)	mg/L	0.02		21.9	21.6	20.5
Manganese (Total)	mg/L	0.001		0.120	0.101	0.087
Potassium (Total)	mg/L	0.1		1.7	1.6	1.3
Sodium (Total)	mg/L	0.2		7.3	7.3	5.4
Strontium (Total)	mg/L	0.001		0.243	0.256	0.230
Zinc (Total)	mg/L	0.005		0.016	0.015	0.019
Arsenic (Total)	mg/L	0.0001		0.0003	0.0003	0.0003
Cadmium (Total)	mg/L	0.000015		0.000022	0.000017	0.000024
Chromium (Total)	mg/L	0.001		<0.001	<0.001	<0.001
Cobalt (Total)	mg/L	0.0001		0.0005	0.0004	0.0004
Copper (Total)	mg/L	0.0001		0.0011	0.0011	0.0012
Lead (Total)	mg/L	0.00002		0.00030	0.00020	0.00039
Nickel (Total)	mg/L	0.0002		0.0007	0.0007	0.0006
Silver (Total)	mg/L	0.0001		<0.0001	<0.0001	<0.0001
Vanadium (Total)	mg/L	0.0001		0.0016	0.0015	0.0020
Mercury (Filtered)	mg/L	0.00002		0.00003	0.00003	<0.00002
pH (Client Data)	pH units	-		8.15	8.39	8.20
Temperature (Client Data)	°C	-		13.71	14.04	15.01



Michelle Dubien
Data Specialist

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C.O.C.: G103694

REPORT No: 24-014130 - Rev. 0

Report To:

Malroz Engineering Inc.
308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8

CADUCEON Environmental Laboratories

285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Adam Superville

DATE RECEIVED: 2024-May-17
DATE REPORTED: 2024-Jun-03
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: Briar Hill WDS
P.O. NUMBER: 1036

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	4	OTTAWA	LMACGREGOR	2024-May-23	A-IC-01	SM 4110B
BOD5 (Liquid)	4	KINGSTON	JWOLFE2	2024-May-24	BOD-001	SM 5210B
COD (Liquid)	4	KINGSTON	EHINCH	2024-May-24	COD-001	SM 5220D
Cond/pH/Alk Auto (Liquid)	4	OTTAWA	SBOUDREAU	2024-May-22	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
DOC/DIC (Liquid)	4	OTTAWA	VKASYAN	2024-May-23	C-OC-01	EPA 415.2
ICP/MS (Liquid)	4	OTTAWA	TPRICE	2024-May-22	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	4	OTTAWA	APRUDYVUS	2024-May-21	D-ICP-01	SM 3120B
Mercury (Liquid)	4	OTTAWA	TBENNETT	2024-May-22	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	4	KINGSTON	JYEARWOOD	2024-May-28	NH3-001	SM 4500NH3
Phenols (Liquid)	4	KINGSTON	JMACINNES	2024-May-29	PHEN-01	MECP E3179
TP & TKN (Liquid)	4	KINGSTON	KDIBBITS	2024-May-24	TPTKN-001	MECP E3516.2
TSS (Liquid)	4	KINGSTON	MCLOSS	2024-May-28	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *



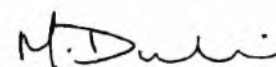
Michelle Dubien
Data Specialist

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Final Report

REPORT No: 24-014130 - Rev. 0

			Client I.D.	24-W025	24-W026	24-W027	24-W028
			Sample I.D.	24-014130-1	24-014130-2	24-014130-3	24-014130-4
			Date Collected	2024-05-16	2024-05-16	2024-05-16	2024-05-16
Parameter	Units	R.L.		-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		578	578	208	210
TDS (Calc. from Cond.)	mg/L	3		628	627	250	251
Conductivity @25°C	uS/cm	1		1170	1160	484	486
pH @25°C	pH units	-		7.43	7.37	8.03	8.13
Chloride	mg/L	0.5		8.8	8.9	6.3	6.3
Nitrate (N)	mg/L	0.05		5.97	6.03	0.05	0.07
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1		21	21	36	36
BOD5	mg/L	3		3	3	5	<3
Total Suspended Solids	mg/L	3		560	1320	6	<3
Phosphorus (Total)	mg/L	0.01		0.50	0.52	0.01	0.01
Total Kjeldahl Nitrogen	mg/L	0.1		1.0	1.1	<0.1	<0.1
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		0.10	0.11	0.14	0.05
Dissolved Organic Carbon	mg/L	0.2		6.6	6.0	2.4	2.1
Phenolics	mg/L	0.001		<0.001	<0.001	<0.001	<0.001
COD	mg/L	5		94	89	<5	5
Hardness (as CaCO3)	mg/L	0.02		619	613	242	241
Aluminum	mg/L	0.01		0.06	0.07	0.02	0.02
Barium	mg/L	0.001		0.609	0.604	0.119	0.118
Boron	mg/L	0.005		0.108	0.110	0.059	0.060
Calcium	mg/L	0.02		188	185	54.1	53.5



Michelle Dubien
Data Specialist

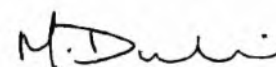
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Final Report

REPORT No: 24-014130 - Rev. 0

			Client I.D.	24-W025	24-W026	24-W027	24-W028
			Sample I.D.	24-014130-1	24-014130-2	24-014130-3	24-014130-4
			Date Collected	2024-05-16	2024-05-16	2024-05-16	2024-05-16
Parameter	Units	R.L.		-	-	-	-
Iron	mg/L	0.005		<0.005	<0.005	0.117	0.118
Magnesium	mg/L	0.02		36.4	36.5	26.0	26.2
Manganese	mg/L	0.001		<0.001	<0.001	0.013	0.013
Potassium	mg/L	0.1		9.5	9.6	1.8	1.8
Sodium	mg/L	0.2		8.5	8.5	6.3	6.3
Strontium	mg/L	0.001		0.401	0.404	0.426	0.429
Zinc	mg/L	0.005		0.007	0.005	<0.005	<0.005
Arsenic	mg/L	0.0001		<0.0001	<0.0001	0.0005	0.0005
Cadmium	mg/L	0.000015		0.000052	0.000060	<0.000015	<0.000015
Chromium	mg/L	0.001		<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001		0.0023	0.0022	<0.0001	<0.0001
Copper	mg/L	0.0001		0.0037	0.0042	0.0002	<0.0001
Lead	mg/L	0.00002		0.00010	0.00011	<0.00002	<0.00002
Silver	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005		0.00091	0.00090	0.00064	0.00065
Vanadium	mg/L	0.0001		0.0002	0.0002	<0.0001	<0.0001
Mercury	mg/L	0.00002		0.00002	<0.00002	<0.00002	<0.00002



Michelle Dubien
Data Specialist

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C.O.C.: G 131074/131075

REPORT No: 24-031506 - Rev. 0

Report To:

Malroz Engineering Inc.
308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8

CADUCEON Environmental Laboratories

285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Adam Superville

DATE RECEIVED: 2024-Oct-08
DATE REPORTED: 2024-Oct-22
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: Briar Hill WDS
P.O. NUMBER: 1036

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	20	OTTAWA	PCURIEL	2024-Oct-15	A-IC-01	SM 4110B
BOD5 (Liquid)	20	KINGSTON	JWOLFE2	2024-Oct-11	BOD-001	SM 5210B
COD (Liquid)	20	KINGSTON	DCASSIDY	2024-Oct-15	COD-001	SM 5220D
Cond/pH/Alk Auto (Liquid)	20	OTTAWA	SBOUDREAU	2024-Oct-15	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
DOC/DIC (Liquid)	20	OTTAWA	SLOZO	2024-Oct-21	C-OC-01	EPA 415.2
ICP/MS (Liquid)	20	OTTAWA	AOZKAYMAK	2024-Oct-11	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	20	OTTAWA	APRUDYVUS	2024-Oct-11	D-ICP-01	SM 3120B
Mercury (Liquid)	20	OTTAWA	TBENNETT	2024-Oct-11	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	20	KINGSTON	JYEARWOOD	2024-Oct-17	NH3-001	SM 4500NH3
Phenols (Liquid)	20	KINGSTON	EHINCH	2024-Oct-16	PHEN-01	MECP E3179
TP & TKN (Liquid)	20	KINGSTON	KDIBBITS	2024-Oct-16	TPTKN-001	MECP E3516.2
TSS (Liquid)	20	KINGSTON	MCLOSS	2024-Oct-11	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *



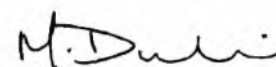
Michelle Dubien
Data Specialist

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Final Report

REPORT No: 24-031506 - Rev. 0

			Client I.D.	24-W045	24-W046	24-W047	24-W029	24-W030
			Sample I.D.	24-031506-1	24-031506-2	24-031506-3	24-031506-4	24-031506-5
			Date Collected	2024-10-07	2024-10-07	2024-10-07	2024-10-07	2024-10-07
Parameter	Units	R.L.		-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		244	244	523	553	201
TDS (Calc. from Cond.)	mg/L	3		289	293	679	720	252
Conductivity @25°C	uS/cm	1		558	565	1260	1330	487
pH @25°C	pH units	-		8.04	8.03	7.77	7.57	8.09
Chloride	mg/L	0.5		6.1	6.0	73.7	77.3	5.9
Nitrate (N)	mg/L	0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1		42	42	48	49	40
BOD5	mg/L	3		<3	<3	<3	<3	<3
Total Suspended Solids	mg/L	3		36	36	27900	3280	4
Phosphorus (Total)	mg/L	0.01		0.08	0.08	19.9	1.43	0.04
Total Kjeldahl Nitrogen	mg/L	0.1		0.2	0.2	1.2	1.4	0.2
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		0.05	<0.05	<0.05	1.18	0.09
Dissolved Organic Carbon	mg/L	0.2		2.8	2.9	4.3	6.2	3.6
Phenolics	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5		6	8	205	60	<5
Hardness (as CaCO3)	mg/L	0.02		304	304	643	640	261
Aluminum	mg/L	0.01		0.03	0.03	0.05	0.05	0.02
Barium	mg/L	0.001		0.265	0.264	0.339	0.489	0.126
Boron	mg/L	0.005		0.050	0.050	0.276	0.328	0.073
Calcium	mg/L	0.02		77.8	77.7	145	164	57.7



**Michelle Dubien
Data Specialist**

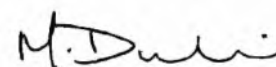
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Final Report

REPORT No: 24-031506 - Rev. 0

Client I.D.			24-W045	24-W046	24-W047	24-W029	24-W030
Sample I.D.			24-031506-1	24-031506-2	24-031506-3	24-031506-4	24-031506-5
Date Collected			2024-10-07	2024-10-07	2024-10-07	2024-10-07	2024-10-07
Parameter	Units	R.L.	-	-	-	-	-
Iron	mg/L	0.005	0.908	0.924	2.21	2.25	0.104
Magnesium	mg/L	0.02	26.7	26.6	67.9	55.7	28.3
Manganese	mg/L	0.001	0.045	0.045	0.045	0.293	0.015
Potassium	mg/L	0.1	1.5	1.5	3.8	9.0	2.0
Sodium	mg/L	0.2	8.0	8.0	43.7	54.4	6.8
Strontium	mg/L	0.001	0.572	0.570	0.792	0.606	0.501
Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	<0.0001	<0.0001	0.0004	0.0008	0.0006
Cadmium	mg/L	0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001	0.0002	0.0002	0.0004	0.0010	0.0001
Copper	mg/L	0.0001	0.0002	0.0001	0.0001	0.0002	0.0002
Lead	mg/L	0.00002	<0.00002	<0.00002	0.00003	0.00005	<0.00002
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	<0.00005	<0.00005	<0.00005	0.00256	0.00048
Vanadium	mg/L	0.0001	<0.0001	<0.0001	0.0001	0.0001	<0.0001
Mercury	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002



Michelle Dubien
Data Specialist

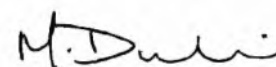
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Final Report

REPORT No: 24-031506 - Rev. 0

			Client I.D.	24-W031	24-W032	24-W033	24-W034	24-W037
			Sample I.D.	24-031506-6	24-031506-7	24-031506-8	24-031506-9	24-031506-10
			Date Collected	2024-10-07	2024-10-07	2024-10-07	2024-10-07	2024-10-07
Parameter	Units	R.L.		-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		203	194	179	215	262
TDS (Calc. from Cond.)	mg/L	3		250	241	182	752	513
Conductivity @25°C	uS/cm	1		483	467	354	1380	963
pH @25°C	pH units	-		8.14	8.09	8.09	8.08	8.05
Chloride	mg/L	0.5		6.1	11.0	<0.5	187	88.4
Nitrate (N)	mg/L	0.05		<0.05	4.18	0.21	<0.05	3.27
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1		40	13	3	167	84
BOD5	mg/L	3		<3	<3	<3	<3	<3
Total Suspended Solids	mg/L	3		4	2460	185	<3	710
Phosphorus (Total)	mg/L	0.01		0.05	0.64	0.05	0.01	0.46
Total Kjeldahl Nitrogen	mg/L	0.1		0.1	0.2	<0.1	0.2	0.3
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		0.10	<0.05	<0.05	<0.05	<0.05
Dissolved Organic Carbon	mg/L	0.2		2.4	1.4	1.2	1.9	2.8
Phenolics	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5		<5	27	11	11	90
Hardness (as CaCO3)	mg/L	0.02		260	249	201	1.68	294
Aluminum	mg/L	0.01		0.02	0.02	0.02	<0.01	0.03
Barium	mg/L	0.001		0.126	0.287	0.374	<0.001	0.030
Boron	mg/L	0.005		0.069	0.022	0.010	0.442	0.016
Calcium	mg/L	0.02		57.4	61.9	52.0	0.54	75.9



Michelle Dubien
Data Specialist

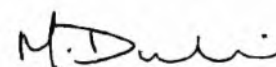
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Final Report

REPORT No: 24-031506 - Rev. 0

			Client I.D.	24-W031	24-W032	24-W033	24-W034	24-W037
			Sample I.D.	24-031506-6	24-031506-7	24-031506-8	24-031506-9	24-031506-10
			Date Collected	2024-10-07	2024-10-07	2024-10-07	2024-10-07	2024-10-07
Parameter	Units	R.L.		-	-	-	-	-
Iron	mg/L	0.005		0.129	<0.005	<0.005	0.024	<0.005
Magnesium	mg/L	0.02		28.2	22.9	17.4	0.08	25.4
Manganese	mg/L	0.001		0.014	<0.001	<0.001	0.001	<0.001
Potassium	mg/L	0.1		2.0	1.4	1.0	0.3	3.3
Sodium	mg/L	0.2		6.9	3.7	1.3	316	96.6
Strontium	mg/L	0.001		0.500	0.121	0.059	0.016	0.219
Zinc	mg/L	0.005		<0.005	<0.005	<0.005	<0.005	0.005
Arsenic	mg/L	0.0001		0.0006	<0.0001	<0.0001	<0.0001	0.0009
Cadmium	mg/L	0.000015		<0.000015	<0.000015	<0.000015	<0.000015	0.000050
Chromium	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001		0.0001	0.0001	0.0001	0.0001	0.0002
Copper	mg/L	0.0001		<0.0001	0.0004	0.0005	0.0006	0.0007
Lead	mg/L	0.00002		<0.00002	<0.00002	0.00004	0.00003	<0.00002
Silver	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005		0.00046	0.00061	0.00019	<0.00005	0.00848
Vanadium	mg/L	0.0001		<0.0001	0.0005	<0.0001	<0.0001	0.0003
Mercury	mg/L	0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002



**Michelle Dubien
Data Specialist**

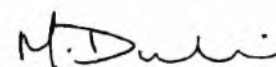
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Final Report

REPORT No: 24-031506 - Rev. 0

			Client I.D.	24-W038	24-W039	24-W040	24-W041	24-W042
			Sample I.D.	24-031506-11	24-031506-12	24-031506-13	24-031506-14	24-031506-15
			Date Collected	2024-10-07	2024-10-08	2024-10-08	2024-10-08	2024-10-08
Parameter	Units	R.L.		-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		239	626	490	771	341
TDS (Calc. from Cond.)	mg/L	3		332	913	551	1030	451
Conductivity @25°C	uS/cm	1		639	1670	1030	1880	855
pH @25°C	pH units	-		8.09	7.58	7.72	7.67	7.93
Chloride	mg/L	0.5		39.1	131	27.7	119	44.8
Nitrate (N)	mg/L	0.05		3.97	8.05	3.15	<0.05	<0.05
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1		18	31	17	83	42
BOD5	mg/L	3		<3	<3	4	<3	<3
Total Suspended Solids	mg/L	3		5	5	3500	65	9
Phosphorus (Total)	mg/L	0.01		0.02	0.08	0.43	0.05	0.06
Total Kjeldahl Nitrogen	mg/L	0.1		0.2	1.4	0.9	21.9	1.9
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		<0.05	0.12	0.31	13.7	1.57
Dissolved Organic Carbon	mg/L	0.2		1.8	9.8	4.9	15.9	5.9
Phenolics	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	0.001
COD	mg/L	5		<5	28	38	53	8
Hardness (as CaCO3)	mg/L	0.02		309	626	568	781	385
Aluminum	mg/L	0.01		0.03	0.06	0.05	0.06	0.04
Barium	mg/L	0.001		0.170	0.316	0.518	0.129	0.148
Boron	mg/L	0.005		0.009	0.340	0.046	1.24	0.858
Calcium	mg/L	0.02		77.0	186	167	213	103



Michelle Dubien
Data Specialist

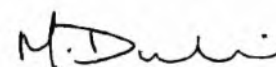
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Final Report

REPORT No: 24-031506 - Rev. 0

Client I.D.			24-W038	24-W039	24-W040	24-W041	24-W042
Sample I.D.			24-031506-11	24-031506-12	24-031506-13	24-031506-14	24-031506-15
Date Collected			2024-10-07	2024-10-08	2024-10-08	2024-10-08	2024-10-08
Parameter	Units	R.L.	-	-	-	-	-
Iron	mg/L	0.005	<0.005	0.167	<0.005	7.94	0.772
Magnesium	mg/L	0.02	28.3	39.4	36.6	60.5	31.1
Manganese	mg/L	0.001	0.008	0.452	0.026	0.060	0.146
Potassium	mg/L	0.1	1.7	29.7	5.9	37.3	5.6
Sodium	mg/L	0.2	16.4	127	13.5	104	38.0
Strontium	mg/L	0.001	0.176	0.504	0.288	0.878	2.74
Zinc	mg/L	0.005	0.008	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	0.0002	0.0003	<0.0001	0.0004	0.0002
Cadmium	mg/L	0.000015	<0.000015	0.000031	0.000047	<0.000015	<0.000015
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	0.001	<0.001
Cobalt	mg/L	0.0001	0.0002	0.0018	0.0027	0.0019	0.0003
Copper	mg/L	0.0001	0.0007	0.0050	0.0023	0.0005	0.0003
Lead	mg/L	0.00002	<0.00002	0.00013	0.00005	<0.00004	<0.00002
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	0.00175	0.00080	0.00079	0.00105	0.00108
Vanadium	mg/L	0.0001	0.0005	<0.0001	0.0002	0.0018	<0.0001
Mercury	mg/L	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00002



Michelle Dubien
Data Specialist

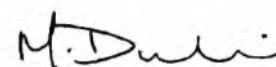
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REPORT No: 24-031506 - Rev. 0

Client I.D.			24-W043	24-W048	24-W049	24-W050	24-W051
Sample I.D.			24-031506-16	24-031506-17	24-031506-18	24-031506-19	24-031506-20
Date Collected			2024-10-08	2024-10-08	2024-10-08	2024-10-08	2024-10-08
Parameter	Units	R.L.	-	-	-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5	<5	388	452	302	230
TDS (Calc. from Cond.)	mg/L	3	<3	553	710	374	244
Conductivity @25°C	uS/cm	1	<1	1040	1310	719	472
pH @25°C	pH units	-	6.15	7.91	7.76	8.04	8.16
Chloride	mg/L	0.5	<0.5	86.4	93.0	20.3	1.1
Nitrate (N)	mg/L	0.05	<0.05	1.05	<0.05	<0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphate	mg/L	1	<1	19	109	54	19
BOD5	mg/L	3	<3	<3	<3	<3	<3
Total Suspended Solids	mg/L	3	4	1980	82	186000	3640
Phosphorus (Total)	mg/L	0.01	0.02	0.47	0.05	5.45	1.34
Total Kjeldahl Nitrogen	mg/L	0.1	<0.1	0.2	2.0	1.4	0.2
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05	<0.05	1.56	0.06	<0.05
Dissolved Organic Carbon	mg/L	0.2	0.6	2.7	7.7	2.2	1.7
Phenolics	mg/L	0.001	0.001	<0.001	<0.001	<0.001	<0.001
COD	mg/L	5	<5	18	23	85	44
Hardness (as CaCO3)	mg/L	0.02	0.11	434	533	392	260
Aluminum	mg/L	0.01	<0.01	0.04	0.05	0.03	0.02
Barium	mg/L	0.001	<0.001	0.732	0.482	0.199	0.159
Boron	mg/L	0.005	<0.005	0.075	0.336	0.018	0.007
Calcium	mg/L	0.02	0.04	123	154	90.8	57.4



**Michelle Dubien
Data Specialist**

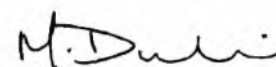
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Final Report

REPORT No: 24-031506 - Rev. 0

Client I.D.			24-W043	24-W048	24-W049	24-W050	24-W051
Sample I.D.			24-031506-16	24-031506-17	24-031506-18	24-031506-19	24-031506-20
Date Collected			2024-10-08	2024-10-08	2024-10-08	2024-10-08	2024-10-08
Parameter	Units	R.L.	-	-	-	-	-
Iron	mg/L	0.005	<0.005	<0.005	0.694	<0.005	<0.005
Magnesium	mg/L	0.02	<0.02	31.0	36.3	40.1	28.4
Manganese	mg/L	0.001	<0.001	0.002	0.571	0.015	0.010
Potassium	mg/L	0.1	<0.1	2.8	25.5	2.6	1.6
Sodium	mg/L	0.2	<0.2	57.6	79.7	8.4	4.7
Strontium	mg/L	0.001	<0.001	0.288	0.523	0.173	0.138
Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/L	0.0001	<0.0001	<0.0001	0.0002	0.0002	0.0001
Cadmium	mg/L	0.000015	<0.000015	<0.000015	0.000045	<0.000015	<0.000015
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.0001	<0.0001	0.0004	0.0087	0.0005	0.0002
Copper	mg/L	0.0001	0.0005	0.0011	0.0028	0.0007	0.0006
Lead	mg/L	0.00002	0.00002	0.00002	0.00005	<0.00002	<0.00002
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.00005	<0.00005	0.00050	0.00078	0.00315	0.00132
Vanadium	mg/L	0.0001	<0.0001	0.0003	<0.0001	0.0003	<0.0001
Mercury	mg/L	0.00002	<0.00002	<0.00002	0.00003	<0.00002	<0.00002



Michelle Dubien
Data Specialist

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C.O.C.: G 097439

REPORT No: 24-031974 - Rev. 0

Report To:

Malroz Engineering Inc.
308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8

CADUCEON Environmental Laboratories

285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Adam Superville

DATE RECEIVED: 2024-Oct-12
DATE REPORTED: 2024-Oct-21
SAMPLE MATRIX: Ground Water

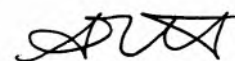
CUSTOMER PROJECT: Briar Hill WDS
P.O. NUMBER: 1036

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	LMACGREGOR	2024-Oct-16	A-IC-01	SM 4110B
BOD5 (Liquid)	1	KINGSTON	DCASSIDY	2024-Oct-16	BOD-001	SM 5210B
COD (Liquid)	1	KINGSTON	DCASSIDY	2024-Oct-16	COD-001	SM 5220D
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Oct-16	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
DOC/DIC (Liquid)	1	OTTAWA	ASCHNEIDER	2024-Oct-16	C-OC-01	EPA 415.2
ICP/MS (Liquid)	1	OTTAWA	AOZKAYMAK	2024-Oct-17	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	1	OTTAWA	APRUDYVUS	2024-Oct-16	D-ICP-01	SM 3120B
Mercury (Liquid)	1	OTTAWA	TBENNETT	2024-Oct-16	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	1	KINGSTON	JYEARWOOD	2024-Oct-16	NH3-001	SM 4500NH3
Phenols (Liquid)	1	KINGSTON	EHINCH	2024-Oct-16	PHEN-01	MECP E3179
TP & TKN (Liquid)	1	KINGSTON	KDIBBITS	2024-Oct-16	TPTKN-001	MECP E3516.2
TSS (Liquid)	1	KINGSTON	MCLOSS	2024-Oct-15	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *



Steve Garrett
Director of Laboratory Services

CADUCEON Environmental Laboratories Certificate of Analysis

Final Report

REPORT No: 24-031974 - Rev. 0

		Client I.D.	24-W052
		Sample I.D.	24-031974-1
		Date Collected	2024-10-12
Parameter	Units	R.L.	-
Alkalinity(CaCO3) to pH4.5	mg/L	5	323
TDS (Calc. from Cond.)	mg/L	3	383
Conductivity @25°C	uS/cm	1	734
pH @25°C	pH units	-	8.00
Chloride	mg/L	0.5	20.5
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	48
BOD5	mg/L	3	<3
Total Suspended Solids	mg/L	3	38300
Phosphorus (Total)	mg/L	0.01	9.08
Total Kjeldahl Nitrogen	mg/L	0.1	2.5
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05
Dissolved Organic Carbon	mg/L	0.2	3.3
Phenolics	mg/L	0.001	<0.001
COD	mg/L	5	159
Hardness (as CaCO3)	mg/L	0.02	333
Aluminum	mg/L	0.01	0.02
Barium	mg/L	0.001	0.321
Boron	mg/L	0.005	0.049
Calcium	mg/L	0.02	71.5



Steve Garrett
Director of Laboratory Services

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Final Report
REPORT No: 24-031974 - Rev. 0

		Client I.D.	24-W052
		Sample I.D.	24-031974-1
		Date Collected	2024-10-12
Parameter	Units	R.L.	-
Iron	mg/L	0.005	<0.005
Magnesium	mg/L	0.02	37.5
Manganese	mg/L	0.001	0.031
Potassium	mg/L	0.1	2.1
Sodium	mg/L	0.2	13.3
Strontium	mg/L	0.001	0.312
Zinc	mg/L	0.005	<0.005
Arsenic	mg/L	0.0001	0.0001
Cadmium	mg/L	0.00001 5	0.000018
Chromium	mg/L	0.001	<0.001
Cobalt	mg/L	0.0001	0.0002
Copper	mg/L	0.0001	0.0009
Lead	mg/L	0.00002	0.00003
Silver	mg/L	0.0001	<0.0001
Uranium	mg/L	0.00005	0.00060
Vanadium	mg/L	0.0001	0.0001
Mercury	mg/L	0.00002	<0.00002



Steve Garrett
Director of Laboratory Services

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C.O.C.: G 131072

REPORT No: 24-031517 - Rev. 0

Report To:

Malroz Engineering Inc.
308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8

CADUCEON Environmental Laboratories

285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Adam Superville

DATE RECEIVED: 2024-Oct-08
DATE REPORTED: 2024-Oct-25
SAMPLE MATRIX: Surface Water

CUSTOMER PROJECT: Briar Hill WDS
P.O. NUMBER: 1036

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	3	OTTAWA	PCURIEL	2024-Oct-11	A-IC-01	SM 4110B
BOD5 (Liquid)	3	KINGSTON	DCASSIDY	2024-Oct-16	BOD-001	SM 5210B
COD (Liquid)	3	KINGSTON	DCASSIDY	2024-Oct-16	COD-001	SM 5220D
Cond/pH/Alk Auto (Liquid)	3	OTTAWA	SBOUDREAU	2024-Oct-11	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
DOC/DIC (Liquid)	3	OTTAWA	SLOZO	2024-Oct-23	C-OC-01	EPA 415.2
ICP/MS Total (Liquid)	3	OTTAWA	AOZKAYMAK	2024-Oct-15	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	3	OTTAWA	APRUDYVUS	2024-Oct-11	D-ICP-01	SM 3120B
ICP/OES (Liquid)	3	OTTAWA	APRUDYVUS	2024-Oct-15	D-ICP-01	SM 3120B
Mercury (Liquid) Lab Filtered	3	OTTAWA	TBENNETT	2024-Oct-16	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	3	KINGSTON	JYEARWOOD	2024-Oct-17	NH3-001	SM 4500NH3
Phenols (Liquid)	3	KINGSTON	EHINCH	2024-Oct-16	PHEN-01	MECP E3179
TP & TKN (Liquid)	3	KINGSTON	KDIBBITS	2024-Oct-16	TPTKN-001	MECP E3516.2
TSS (Liquid)	3	KINGSTON	MCLOSS	2024-Oct-10	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *

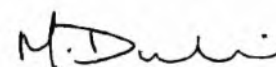


Michelle Dubien
Data Specialist

CADUCEON Environmental Laboratories Certificate of Analysis

Final Report
REPORT No: 24-031517 - Rev. 0

			Client I.D.	24-W044	24-W035	24-W036
			Sample I.D.	24-031517-1	24-031517-2	24-031517-3
			Date Collected	2024-10-07	2024-10-07	2024-10-07
Parameter	Units	R.L.		-	-	-
Alkalinity(CaCO3) to pH4.5	mg/L	5		265	263	236
TDS (Calc. from Cond.)	mg/L	3		311	308	270
Conductivity @25°C	uS/cm	1		599	594	522
pH @25°C	pH units	-		8.28	8.36	8.28
Chloride	mg/L	0.5		18.3	18.2	10.0
Nitrate (N)	mg/L	0.05		0.85	0.84	0.56
Nitrite (N)	mg/L	0.05		<0.05	<0.05	<0.05
Sulphate	mg/L	1		26	25	23
BOD5	mg/L	3		<3	<3	<3
Total Suspended Solids	mg/L	3		102	3	<3
Phosphorus (Total)	mg/L	0.01		0.04	0.04	0.05
Phosphorus (Soluble)	mg/L	0.01		0.03	0.03	0.04
Total Kjeldahl Nitrogen	mg/L	0.1		0.4	0.4	0.9
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		0.10	<0.05	0.06
Ammonia (N)-unionized	mg/L	0.01		<0.01	<0.01	<0.01
Dissolved Organic Carbon	mg/L	0.2		4.9	6.0	4.8
Phenolics	mg/L	0.001		<0.001	<0.001	<0.001
COD	mg/L	5		20	11	12
Aluminum	mg/L	0.01		0.02	0.02	0.02
Hardness (as CaCO3)	mg/L	0.02		294	303	278
Barium (Total)	mg/L	0.001		0.237	0.240	0.228



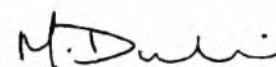
Michelle Dubien
Data Specialist

The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

CADUCEON Environmental Laboratories Certificate of Analysis

Final Report
REPORT No: 24-031517 - Rev. 0

			Client I.D.	24-W044	24-W035	24-W036
			Sample I.D.	24-031517-1	24-031517-2	24-031517-3
			Date Collected	2024-10-07	2024-10-07	2024-10-07
Parameter	Units	R.L.		-	-	-
Boron (Total)	mg/L	0.005		0.056	0.057	0.022
Calcium (Total)	mg/L	0.02		73.6	76.1	67.9
Iron (Total)	mg/L	0.005		0.270	0.243	0.217
Magnesium (Total)	mg/L	0.02		26.7	27.4	26.3
Manganese (Total)	mg/L	0.001		0.038	0.024	0.031
Potassium (Total)	mg/L	0.1		3.9	4.0	2.4
Sodium (Total)	mg/L	0.2		12.0	12.3	6.6
Strontium (Total)	mg/L	0.001		0.285	0.300	0.275
Zinc (Total)	mg/L	0.005		0.005	<0.005	<0.005
Arsenic (Total)	mg/L	0.0001		0.0002	0.0002	0.0003
Cadmium (Total)	mg/L	0.000015		<0.000015	<0.000015	<0.000015
Chromium (Total)	mg/L	0.001		<0.001	<0.001	<0.001
Cobalt (Total)	mg/L	0.0001		0.0004	0.0003	0.0002
Copper (Total)	mg/L	0.0001		0.0007	0.0007	0.0006
Lead (Total)	mg/L	0.00002		0.00006	0.00006	0.00008
Nickel (Total)	mg/L	0.0002		0.0009	0.0010	0.0004
Silver (Total)	mg/L	0.0001		<0.0001	<0.0001	<0.0001
Vanadium (Total)	mg/L	0.0001		0.0004	0.0005	0.0007
Mercury (Filtered)	mg/L	0.00002		<0.00002	<0.00002	<0.00002
pH (Client Data)	pH units	-		8.13	8.26	8.28
Temperature (Client Data)	°C	-		11.50	13.79	13.20

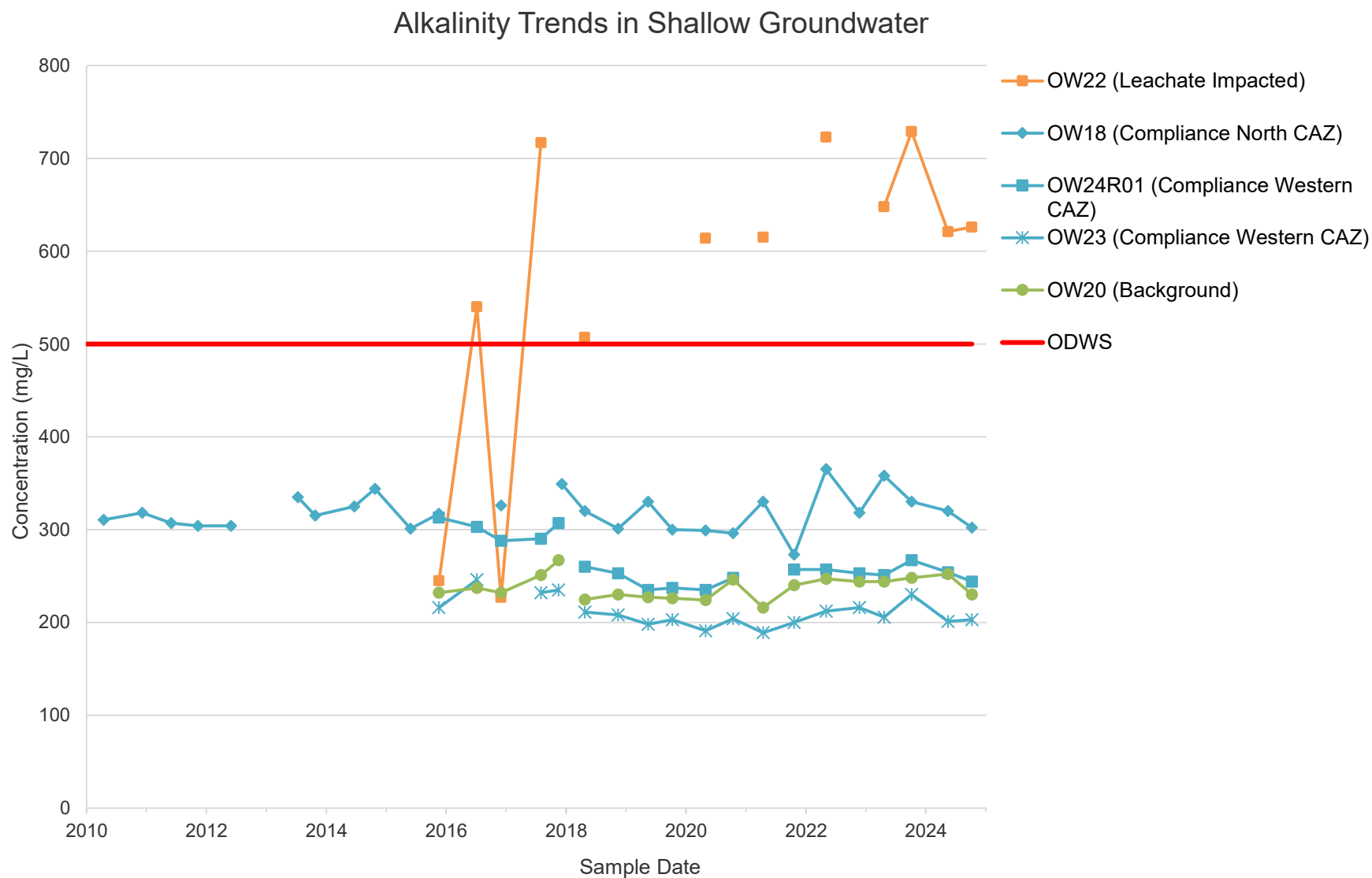


Michelle Dubien
Data Specialist

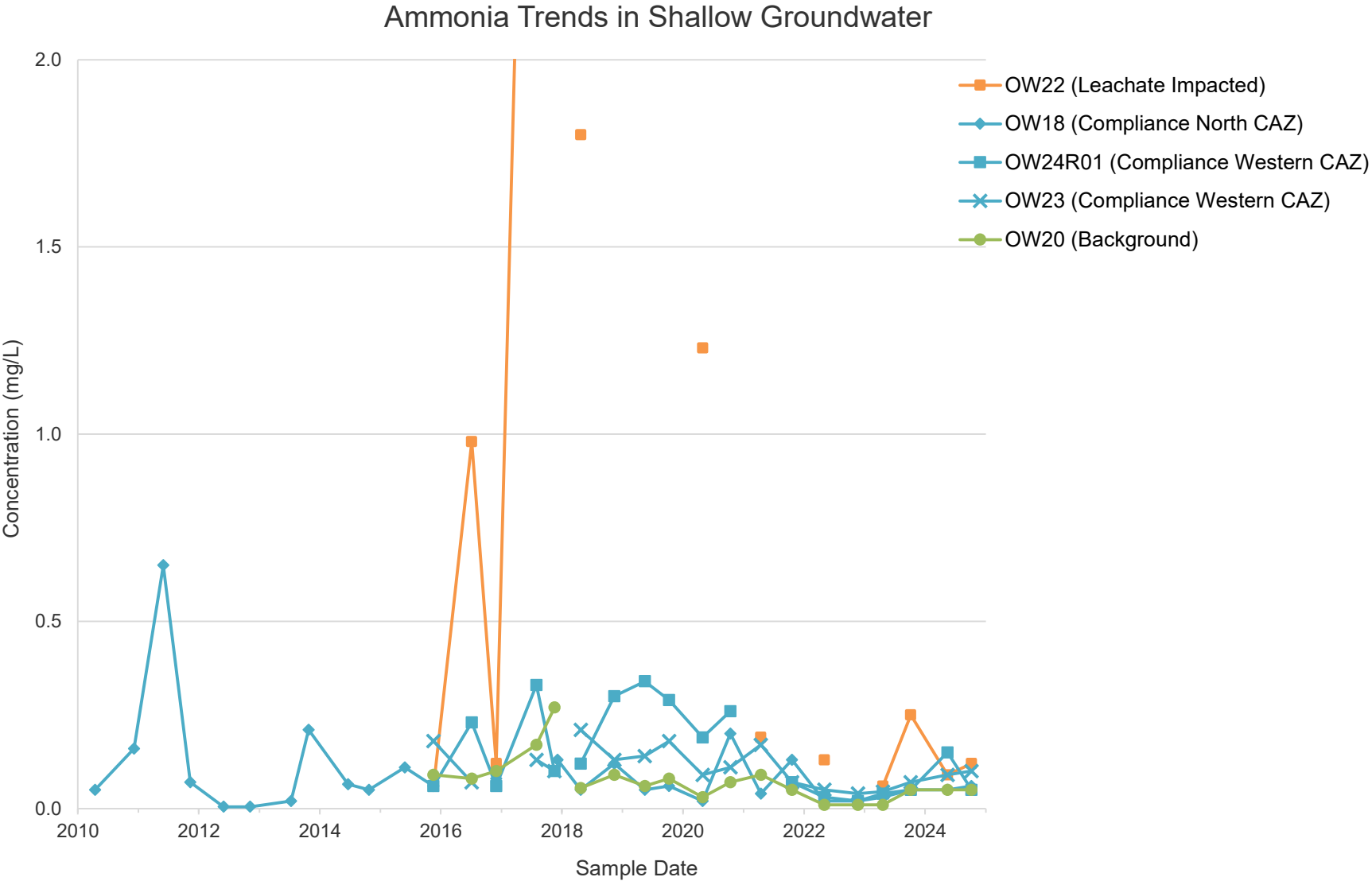
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Appendix I

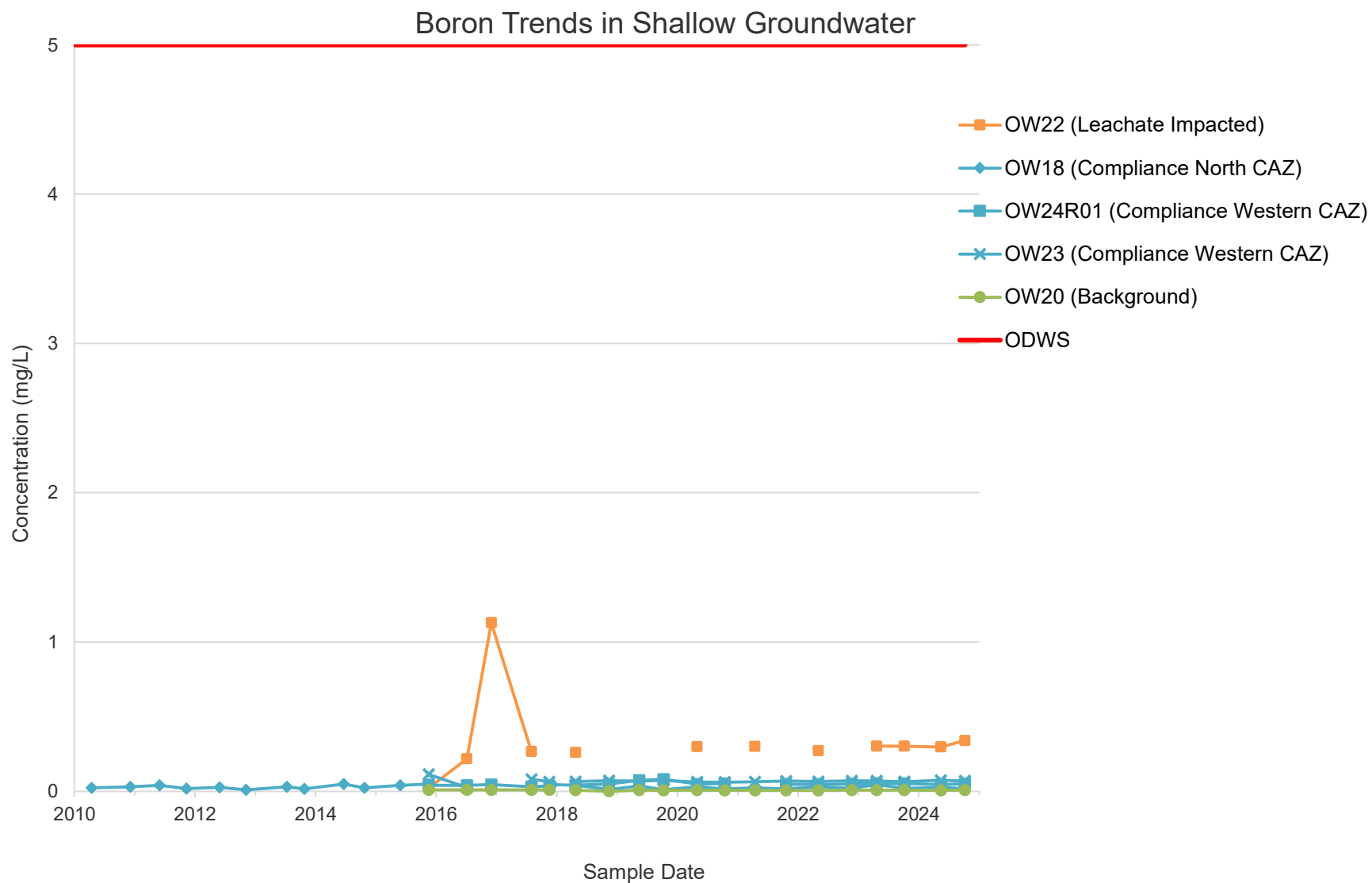
Historical Analysis and Trends



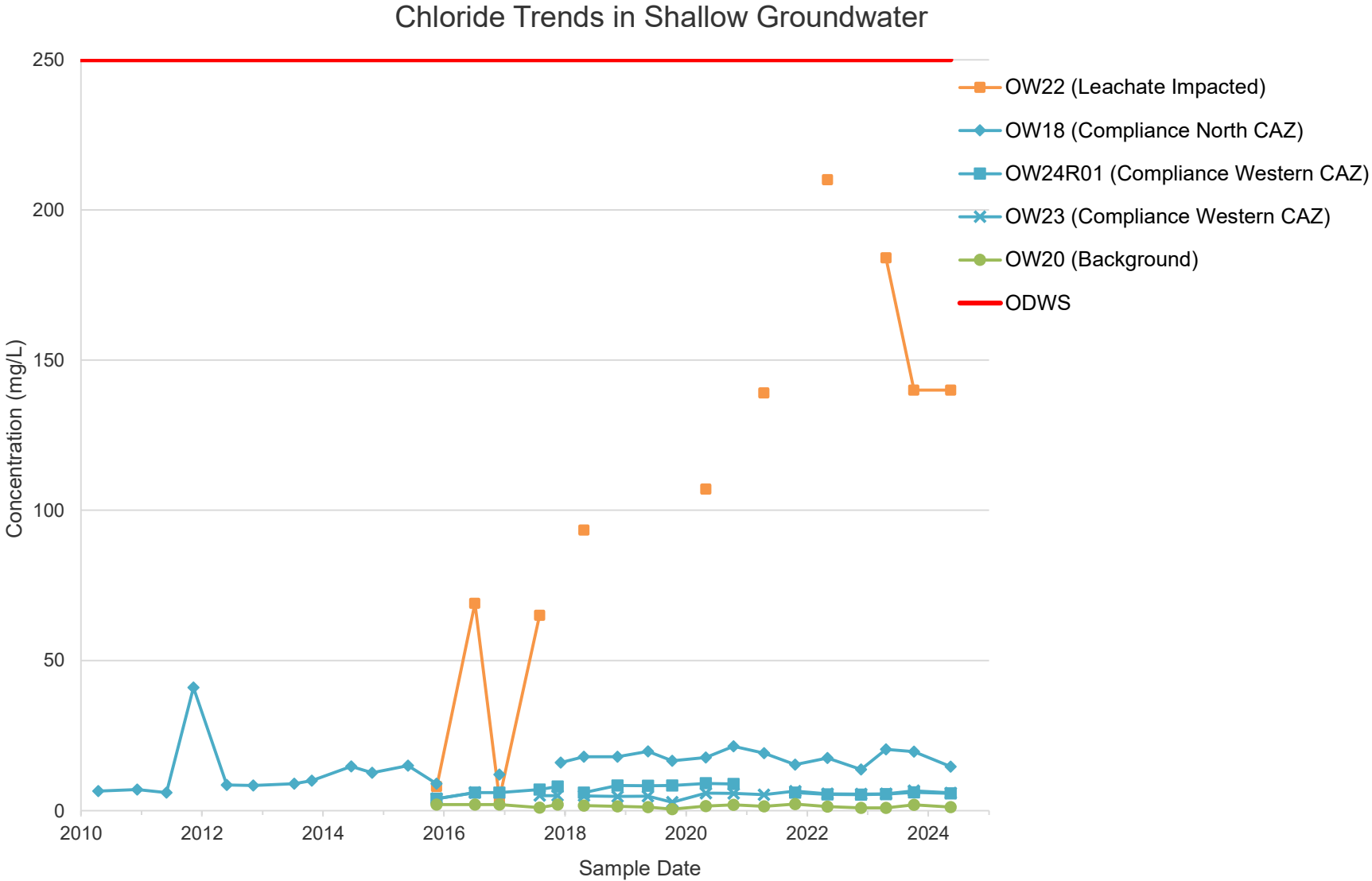
Notes: Data before 2016 is provided by the Township of Leeds and Thousand Islands.
 Gaps between points denote missing data.
 Results less than the MDL are plotted as the MDL.
 The mean of duplicate samples is plotted.
 Trend graphs are provided as an interpretive tool only. Refer to the summary tables for results.



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 The mean of duplicate samples is plotted.
 Trend graphs are provided as an interpretive tool only. Refer to the summary tables for results.

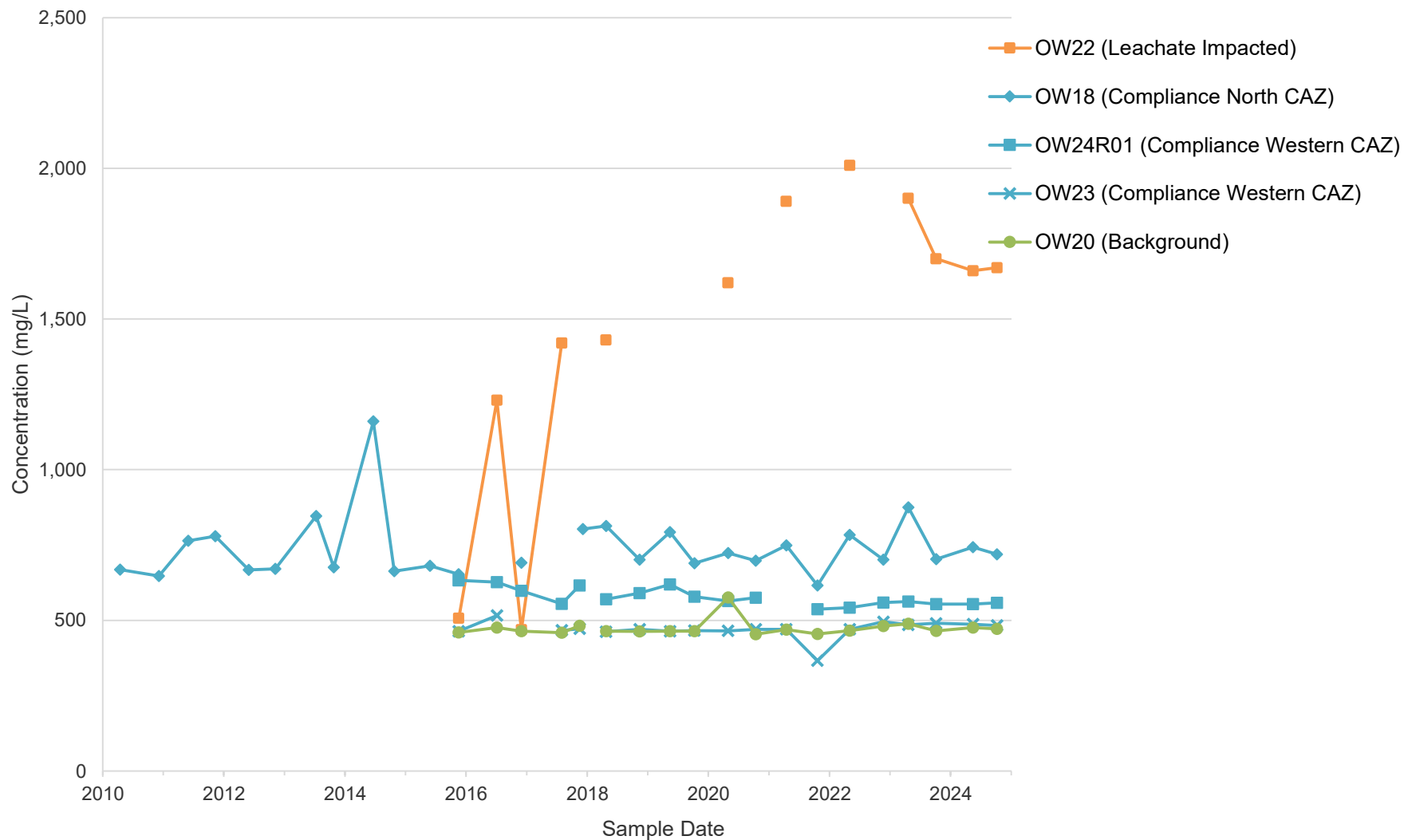


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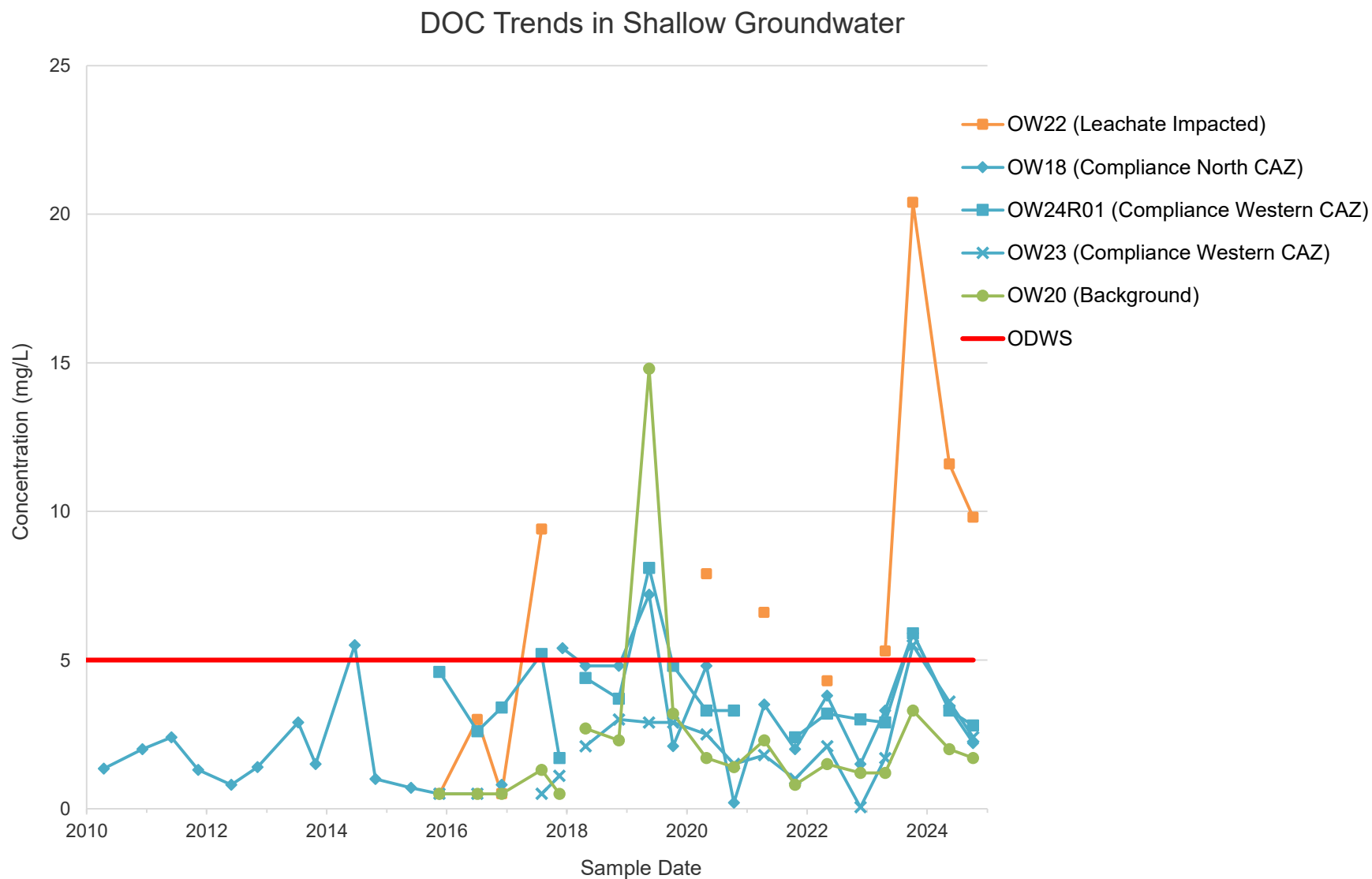


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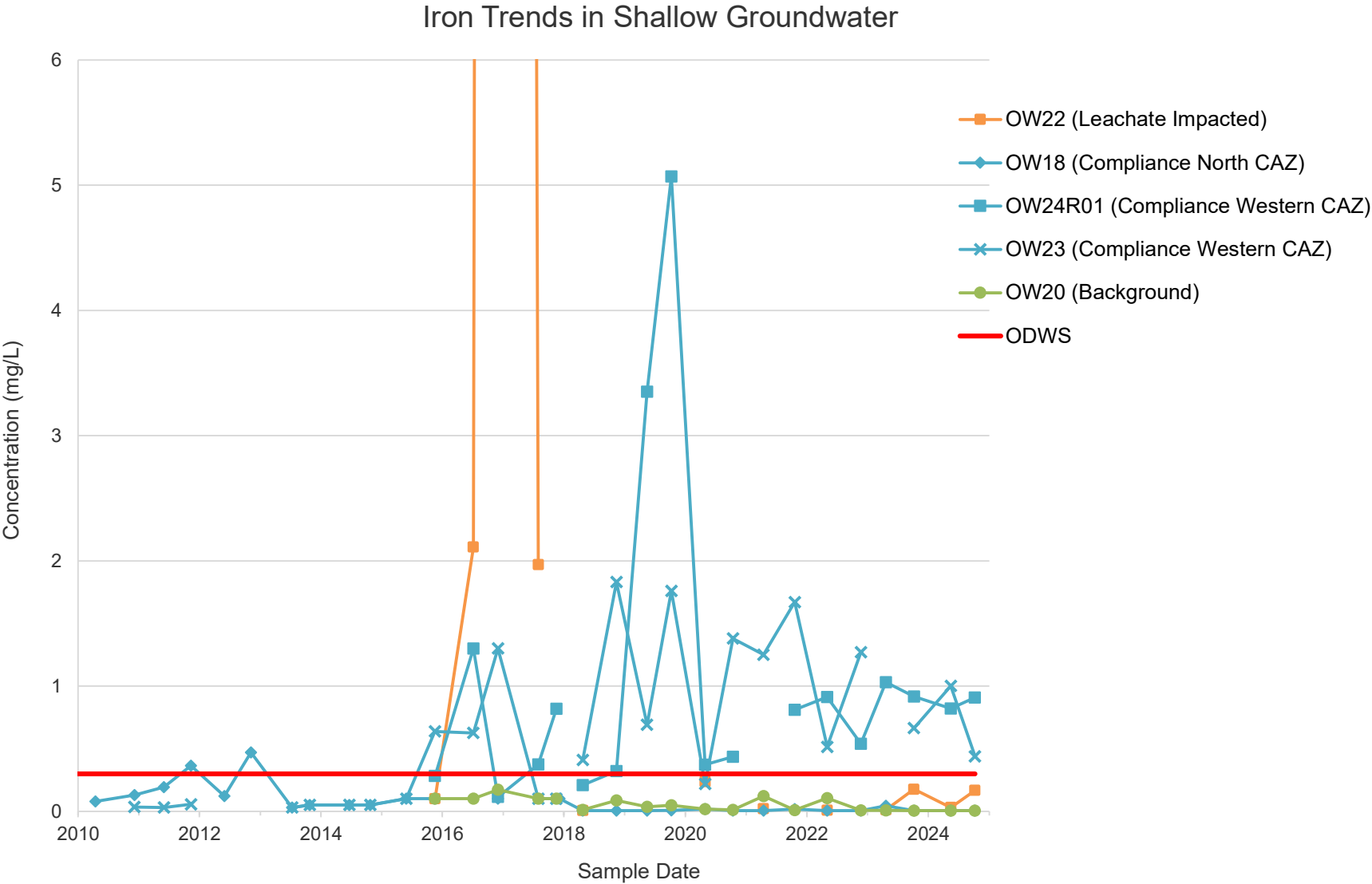
Conductivity Trends in Shallow Groundwater



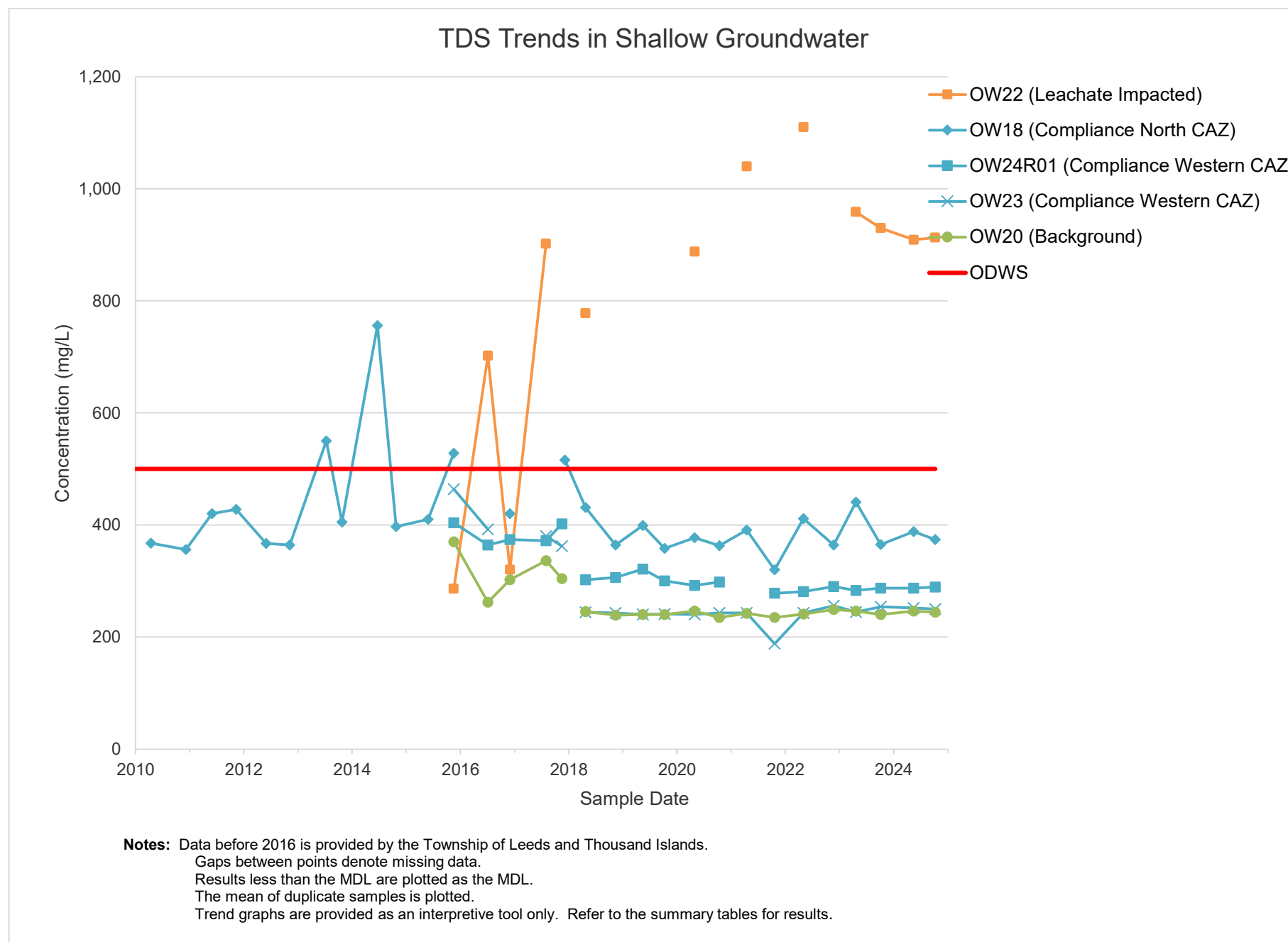
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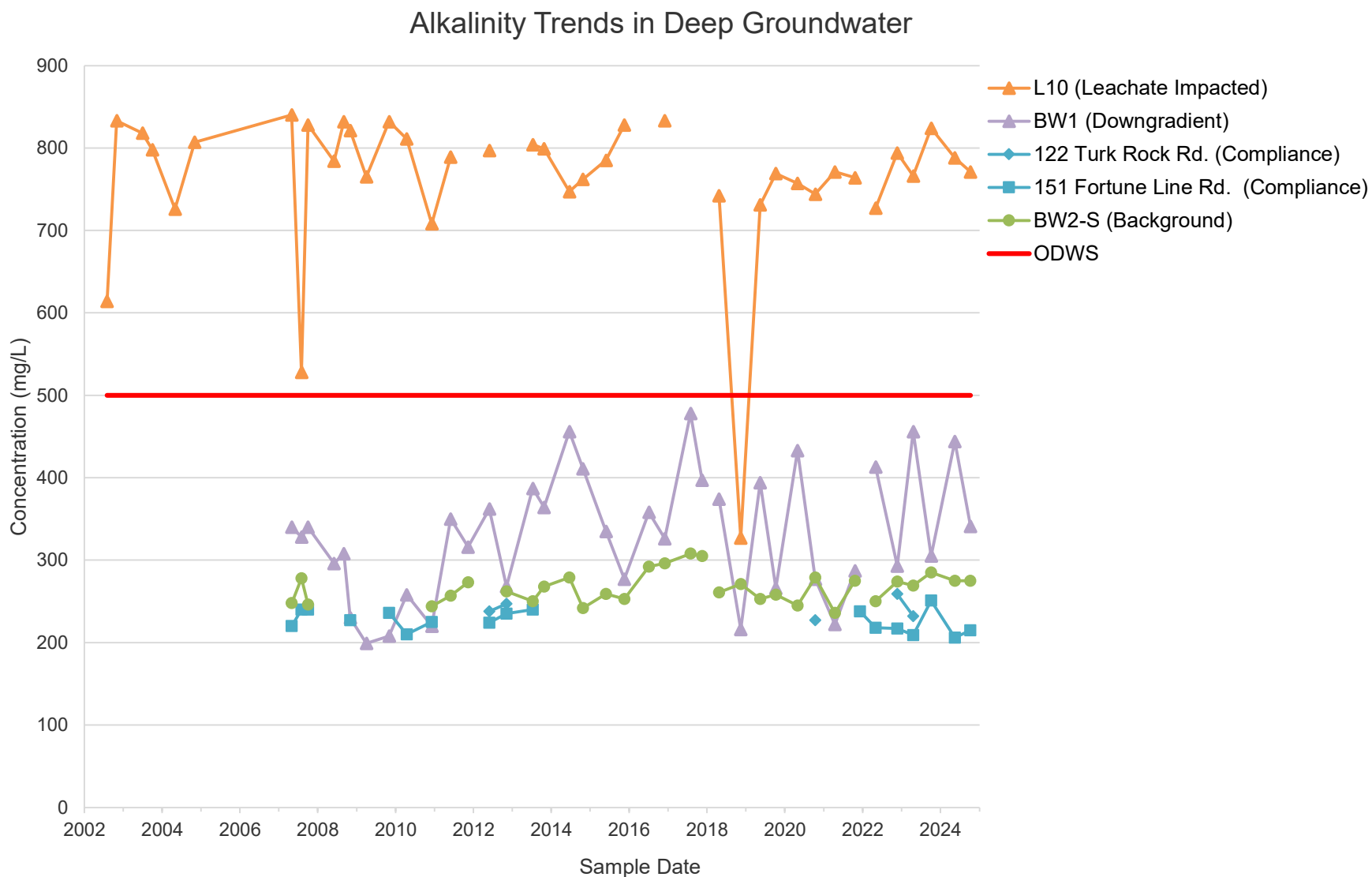


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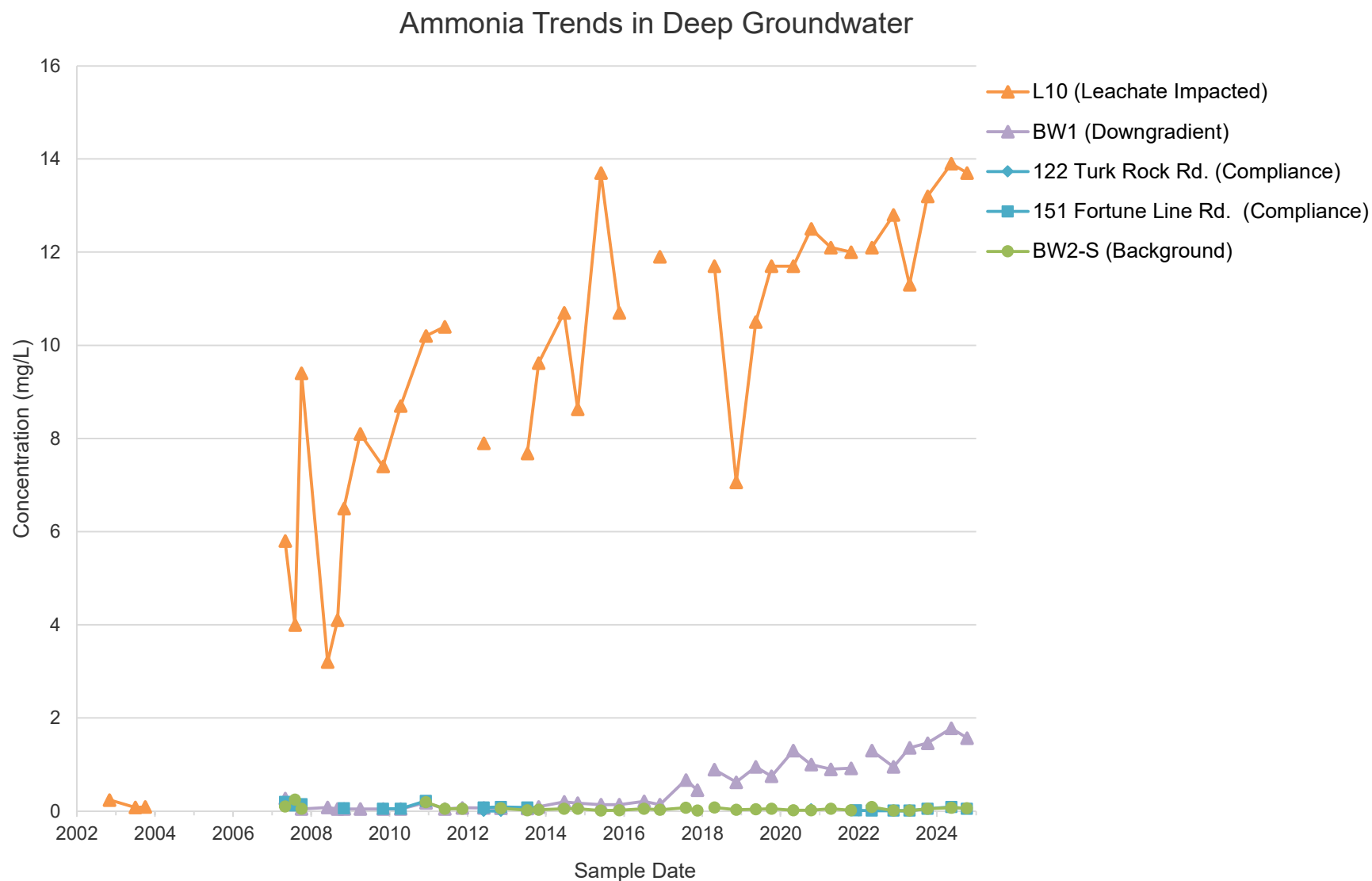


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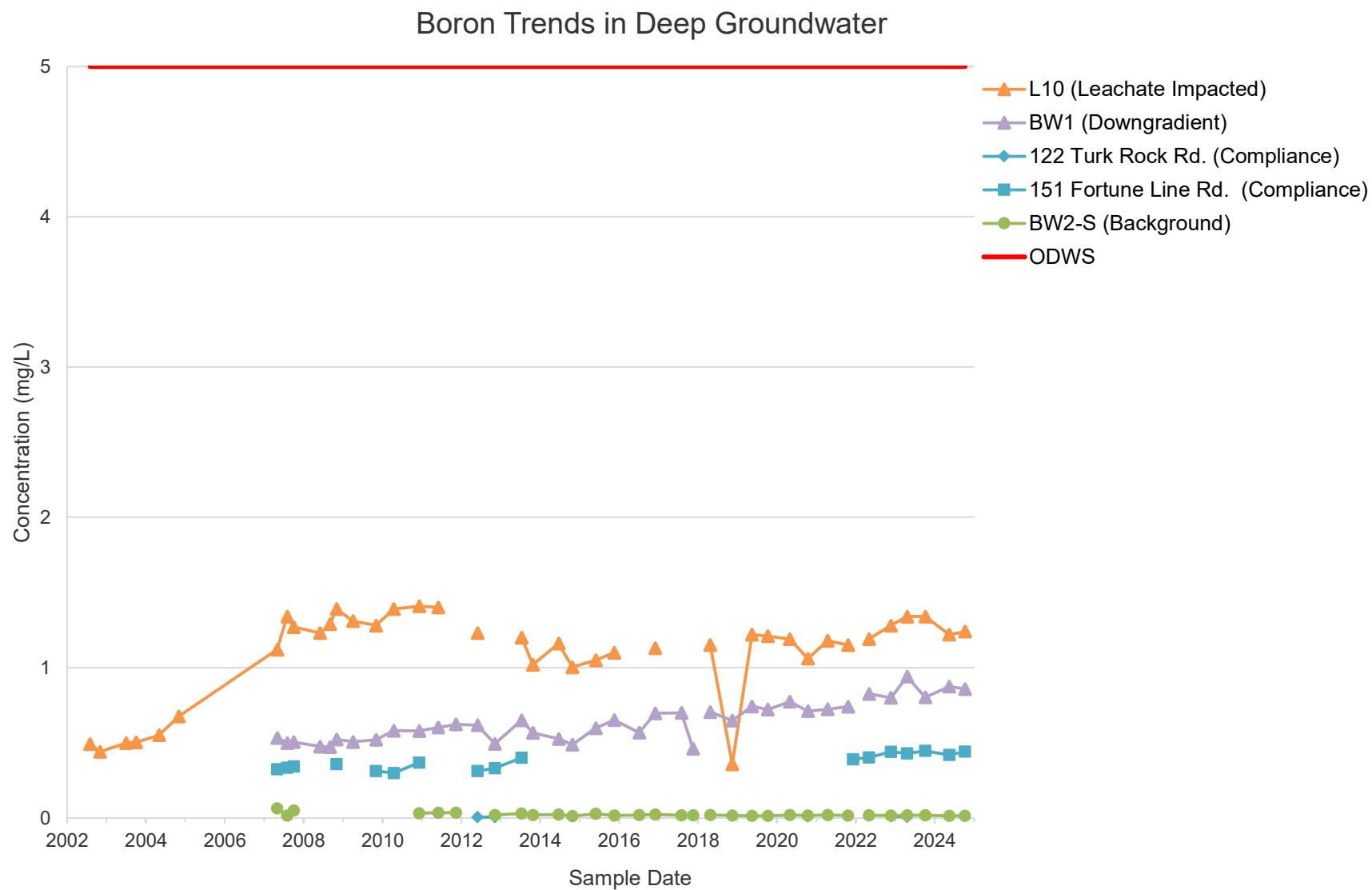




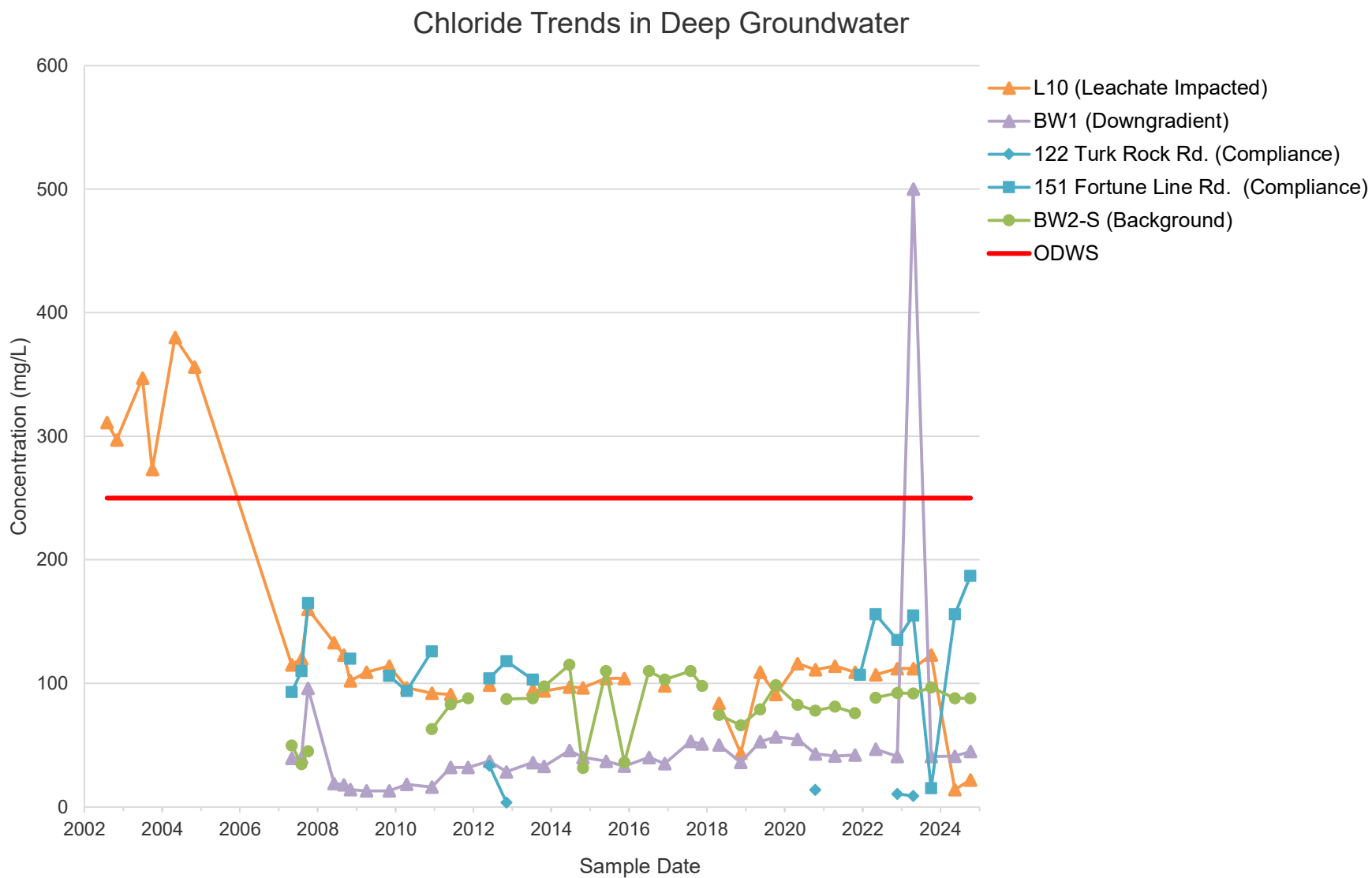
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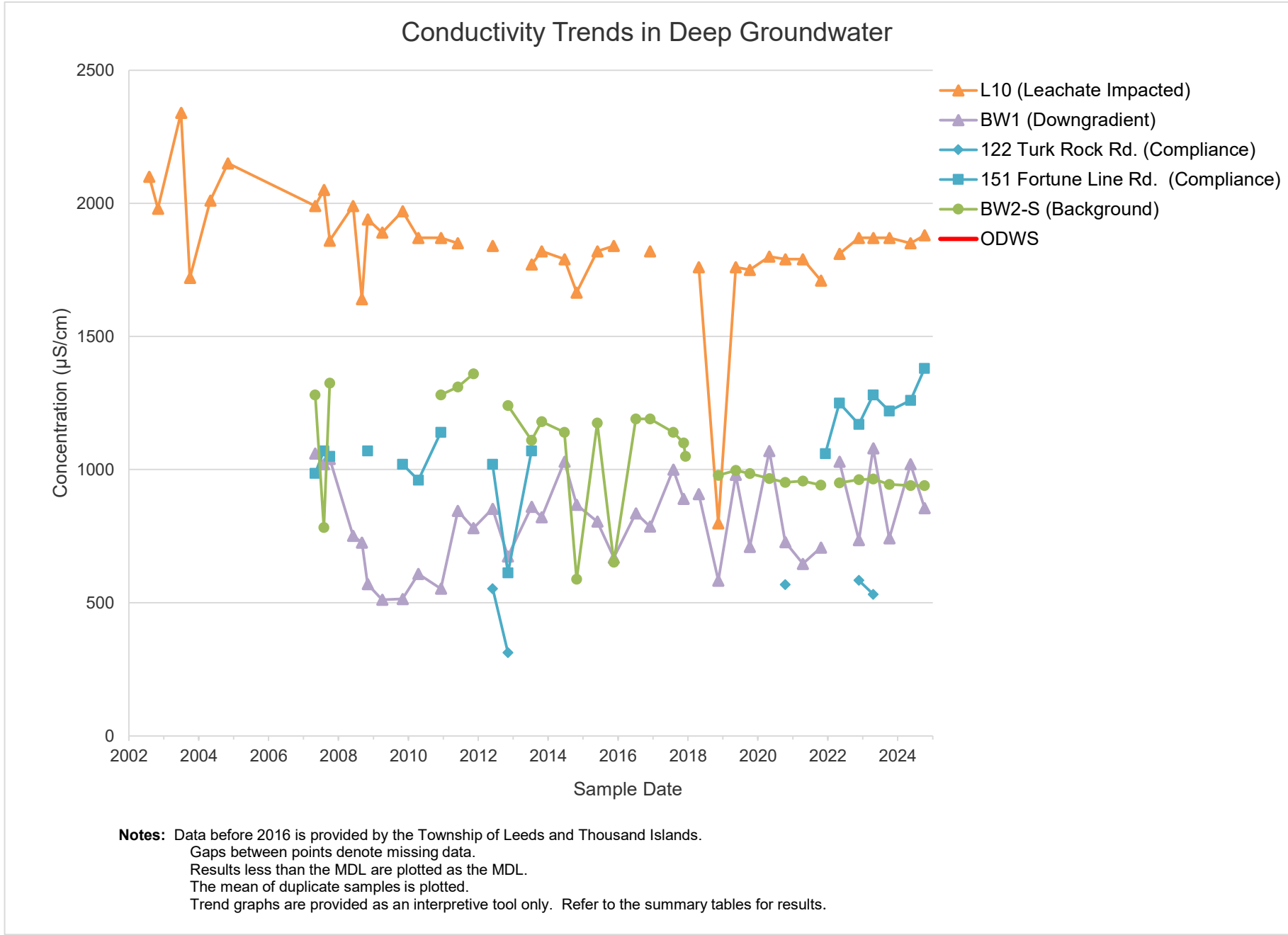
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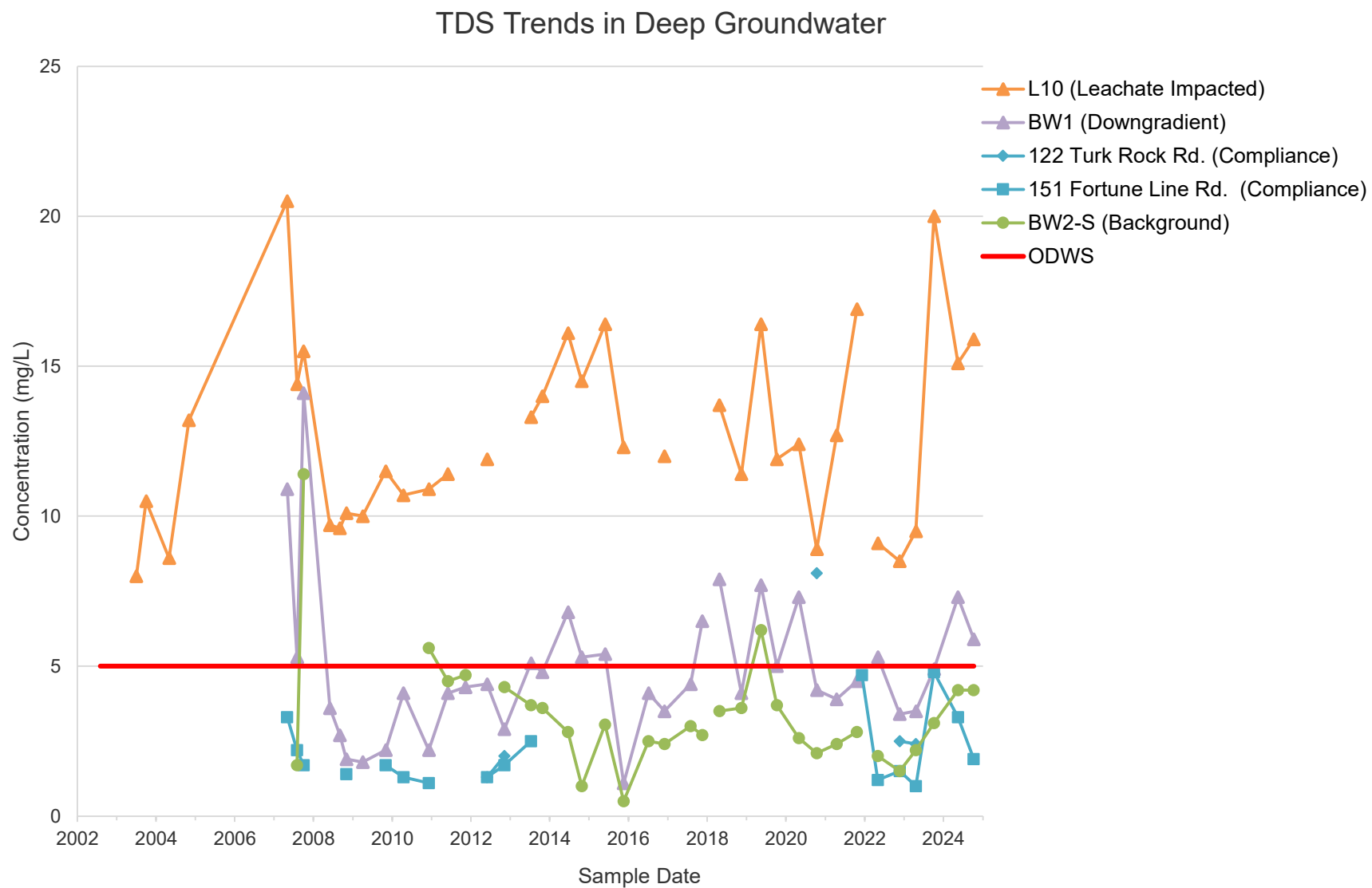


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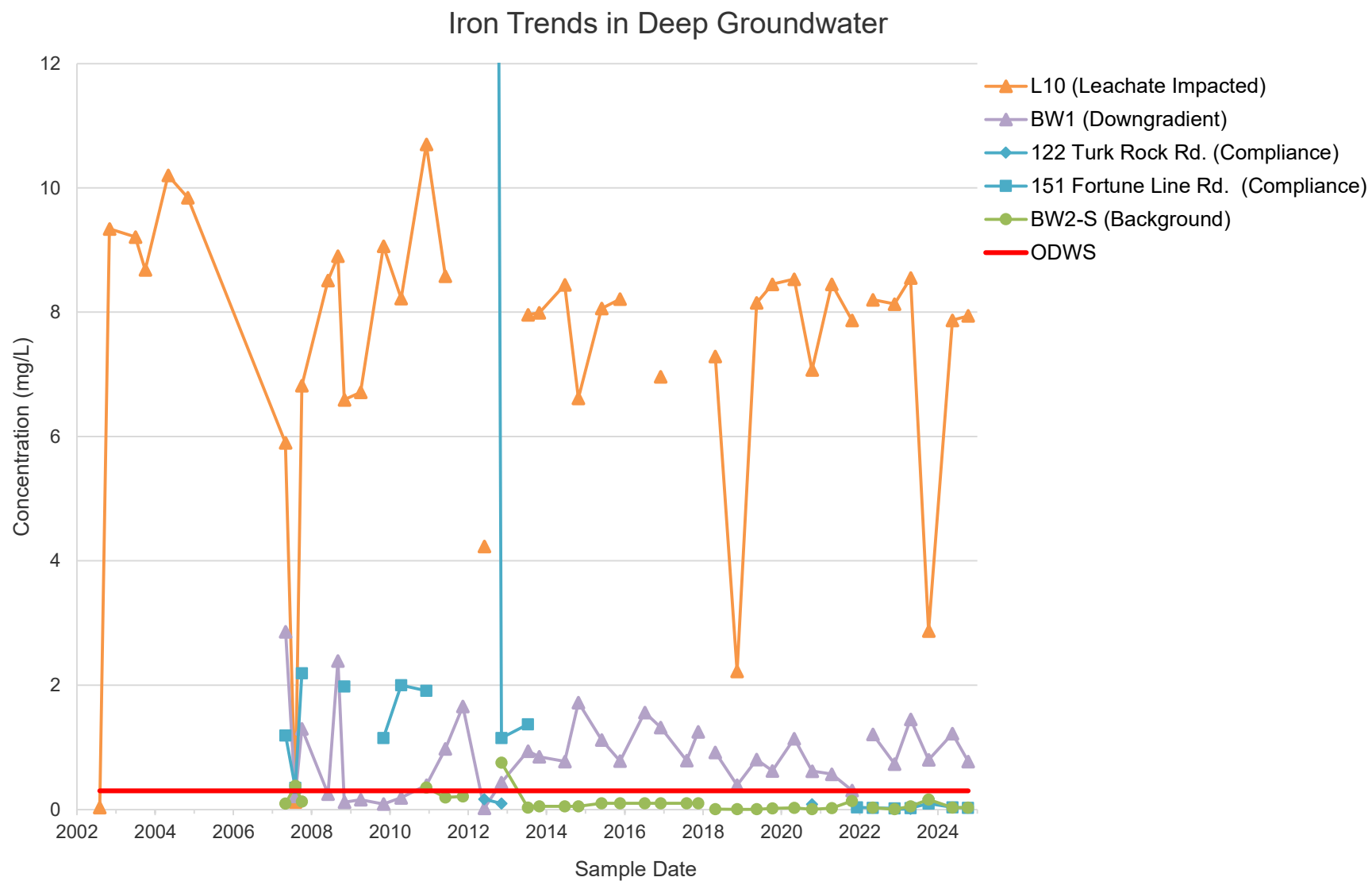


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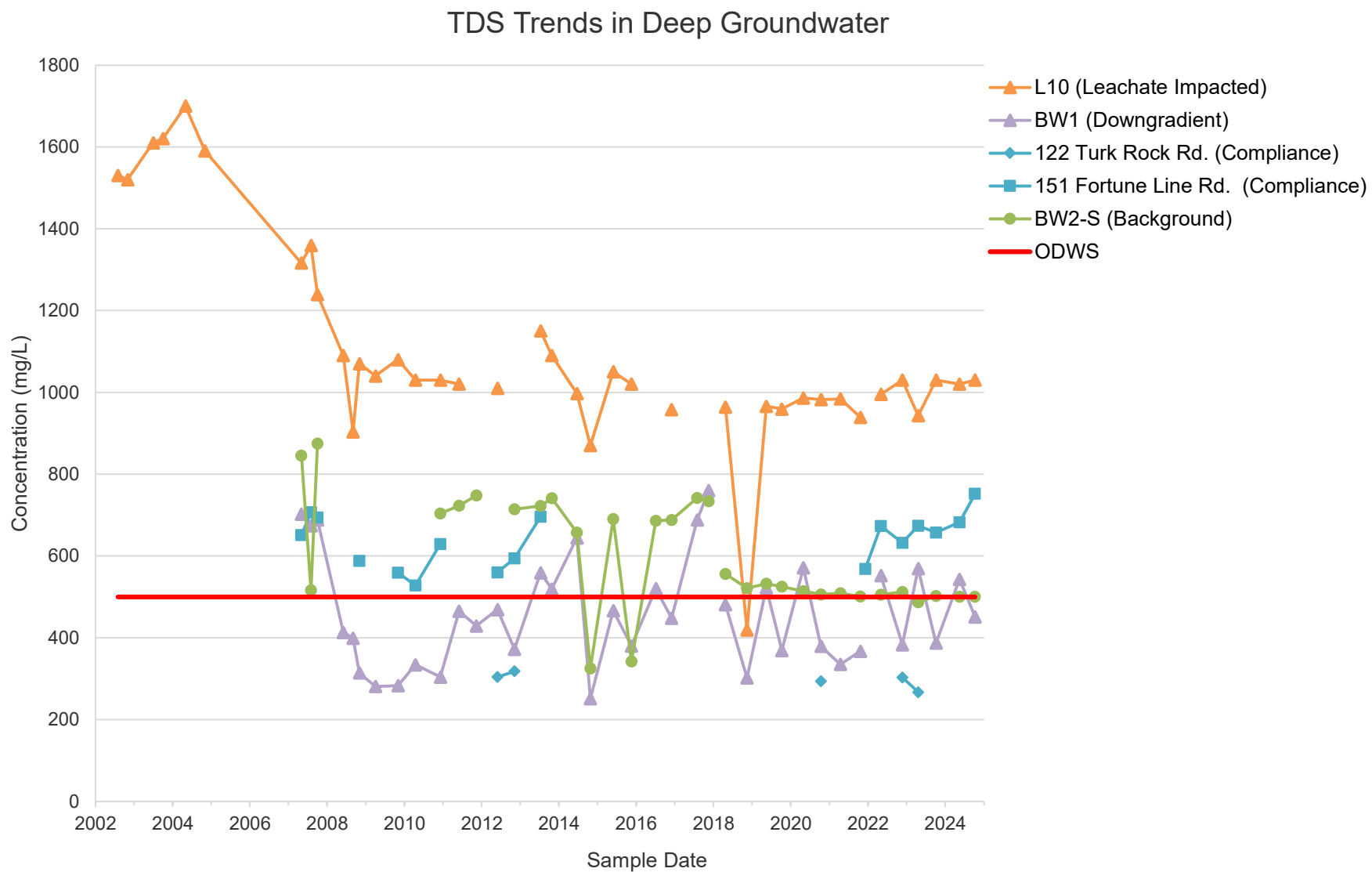




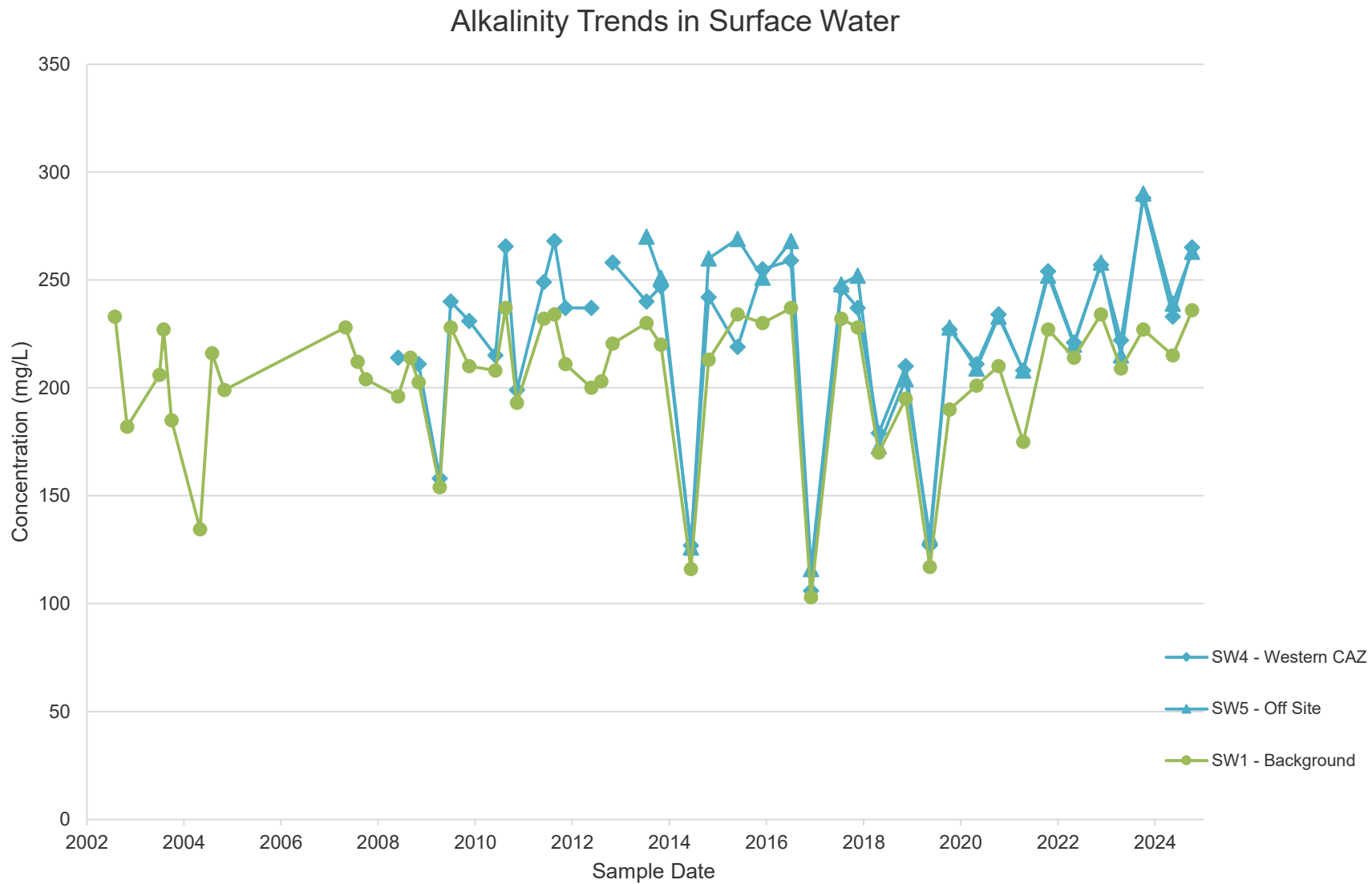
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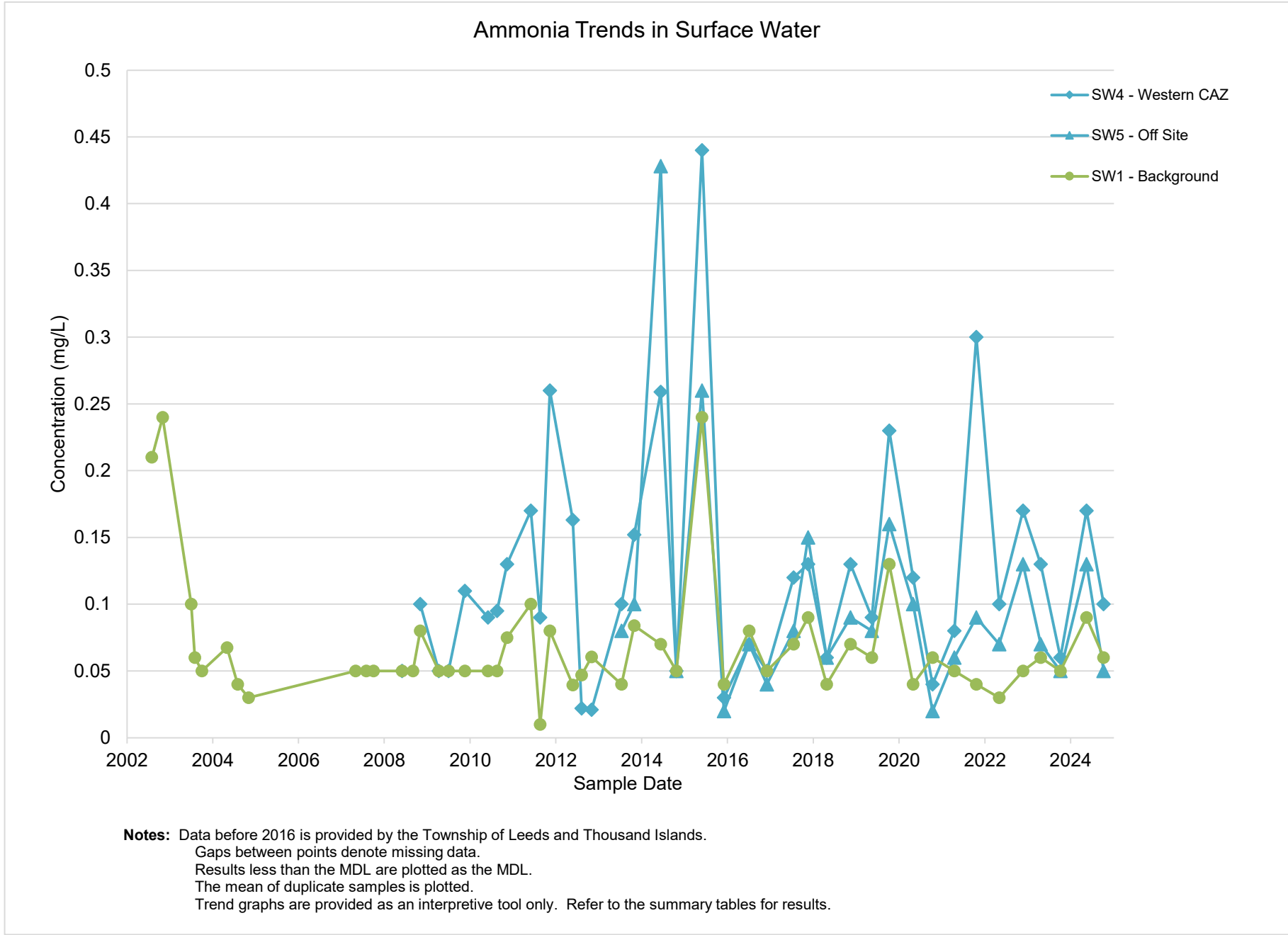
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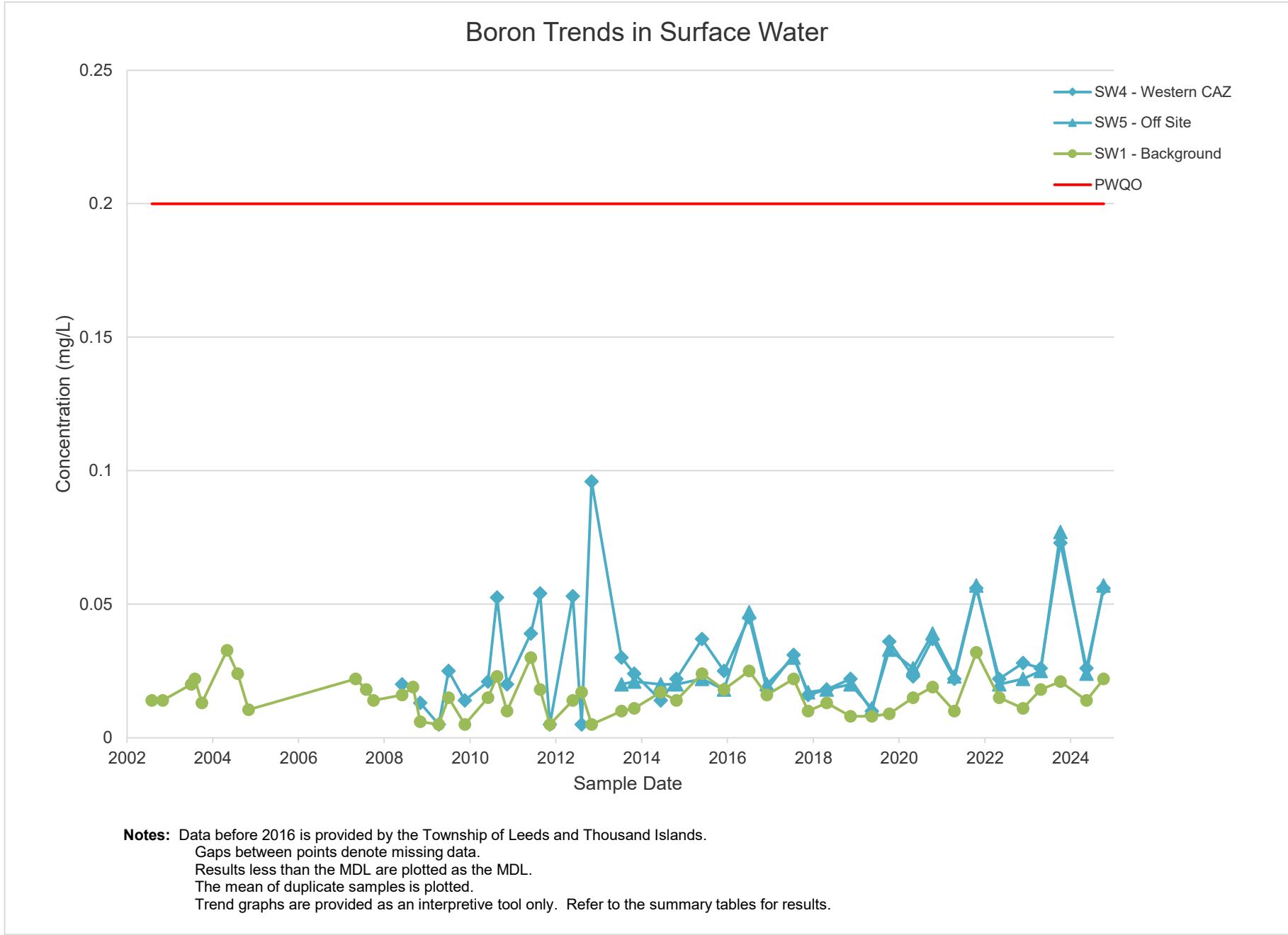


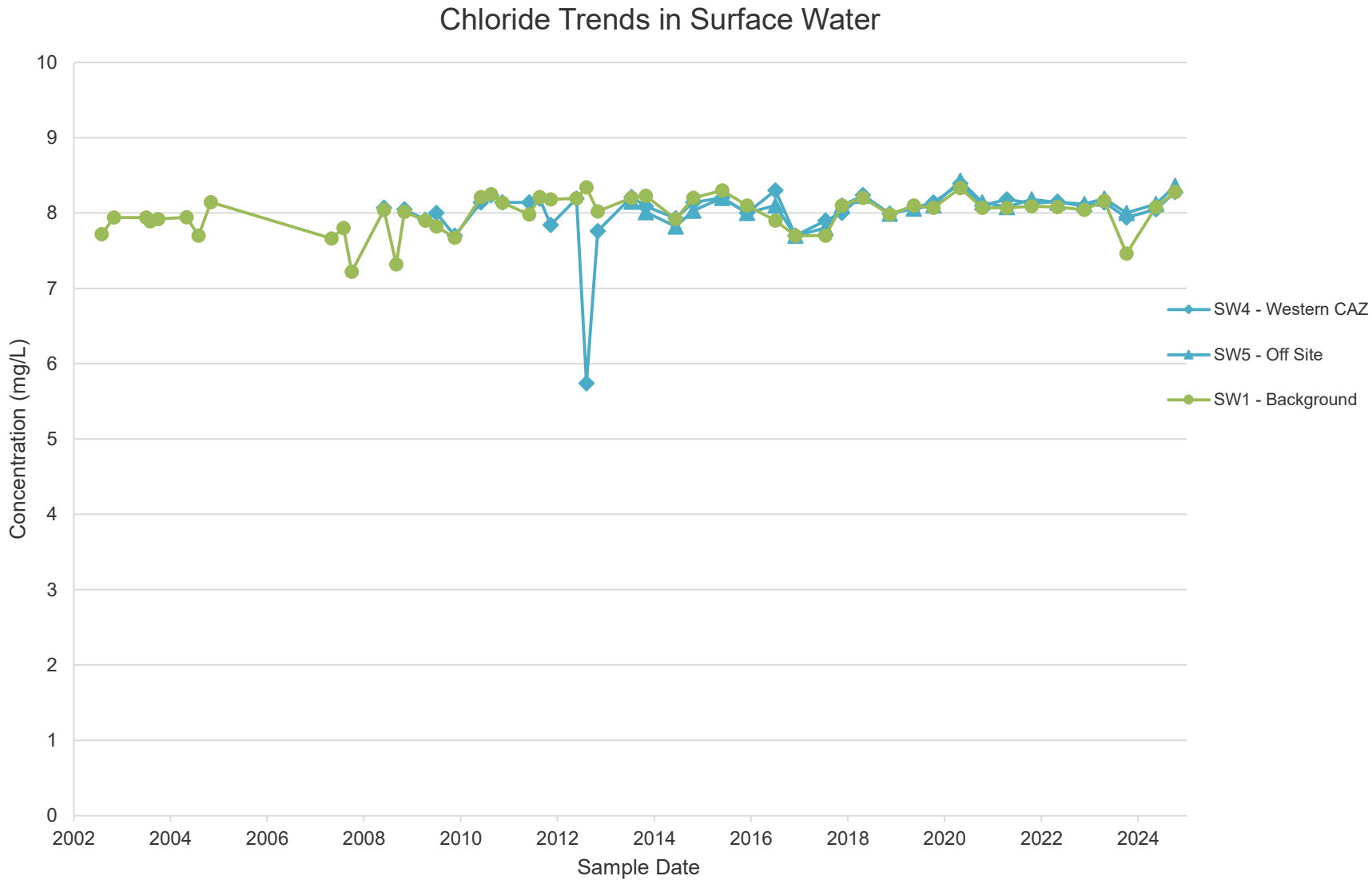
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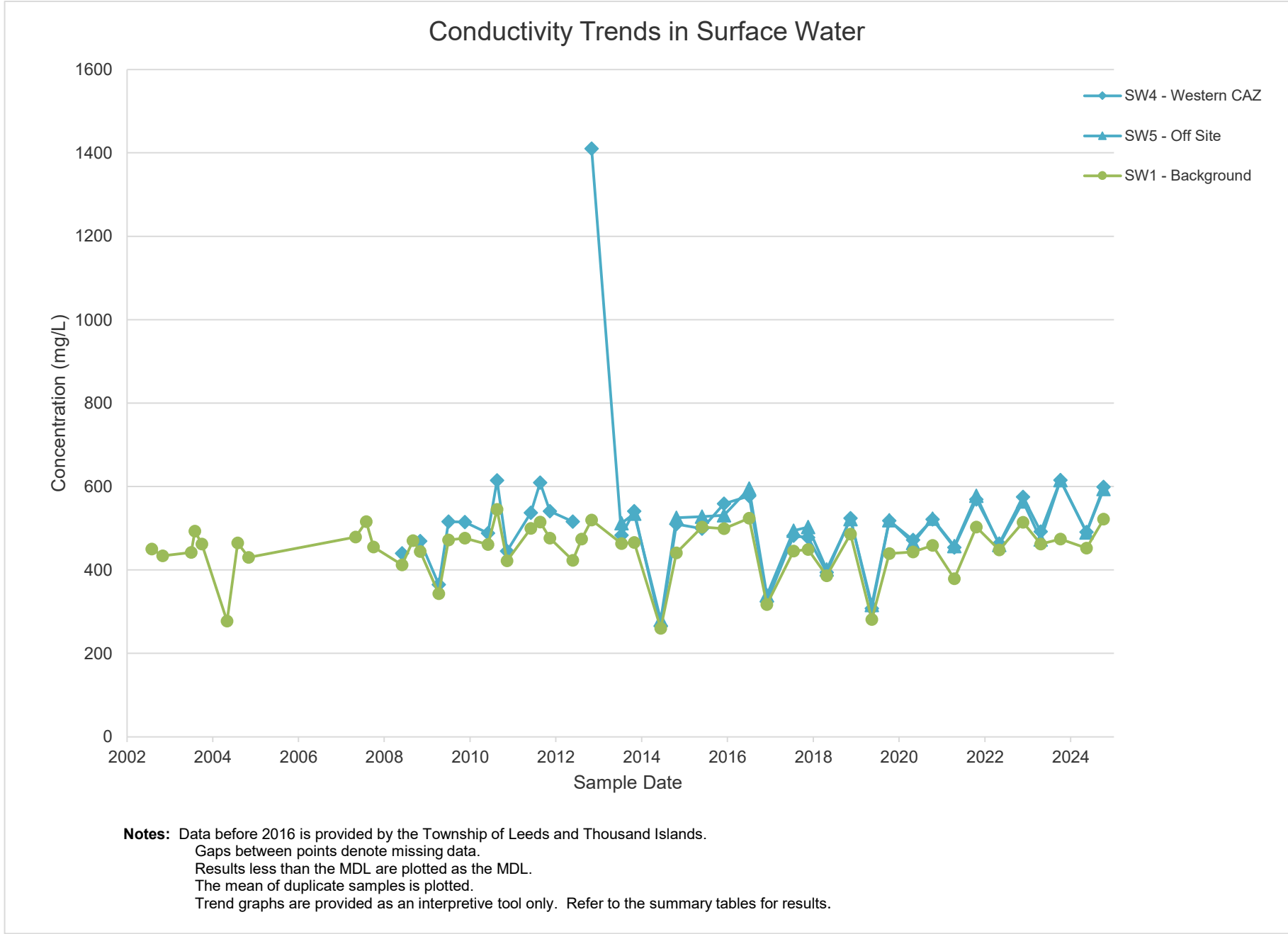
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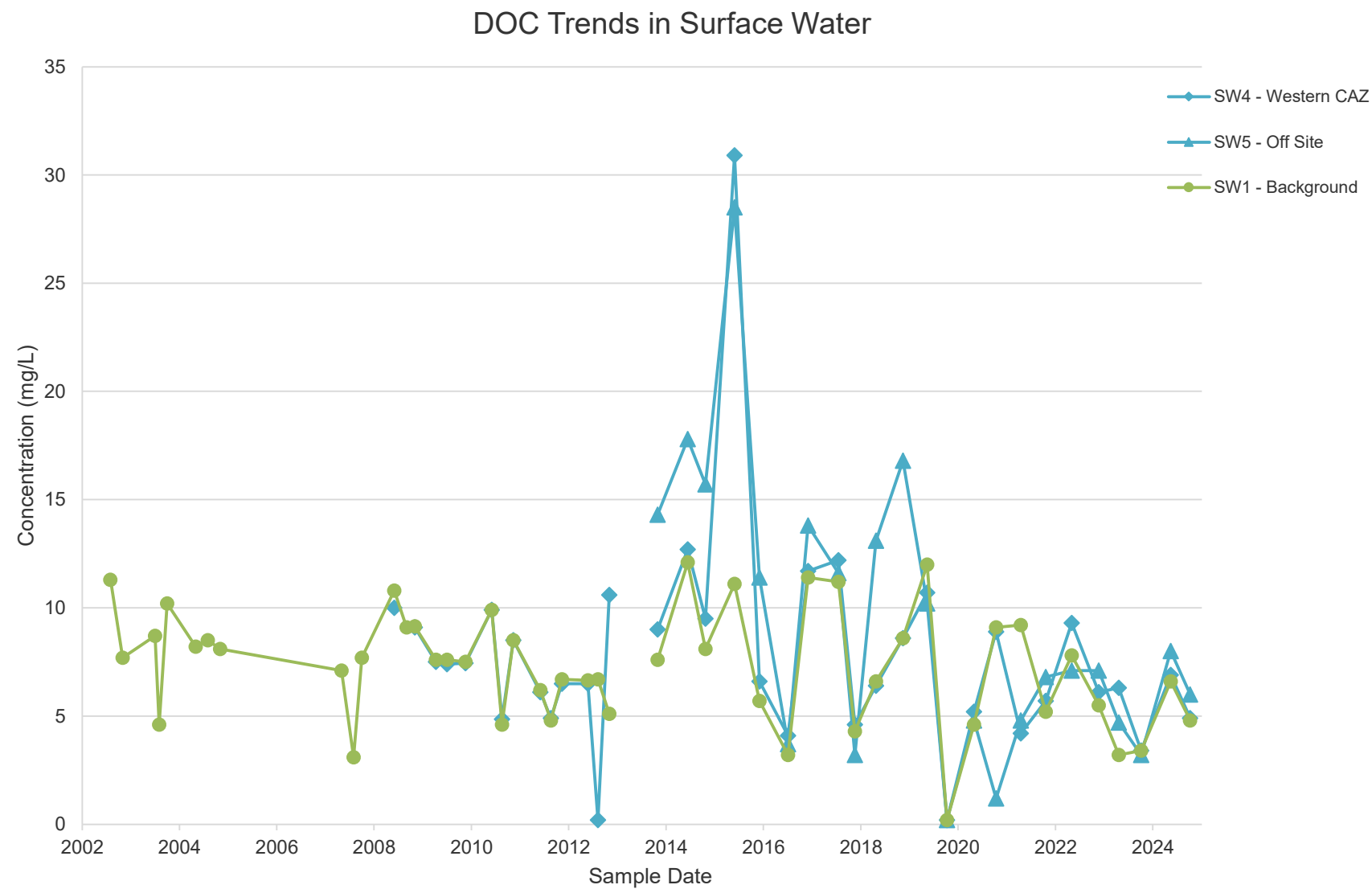




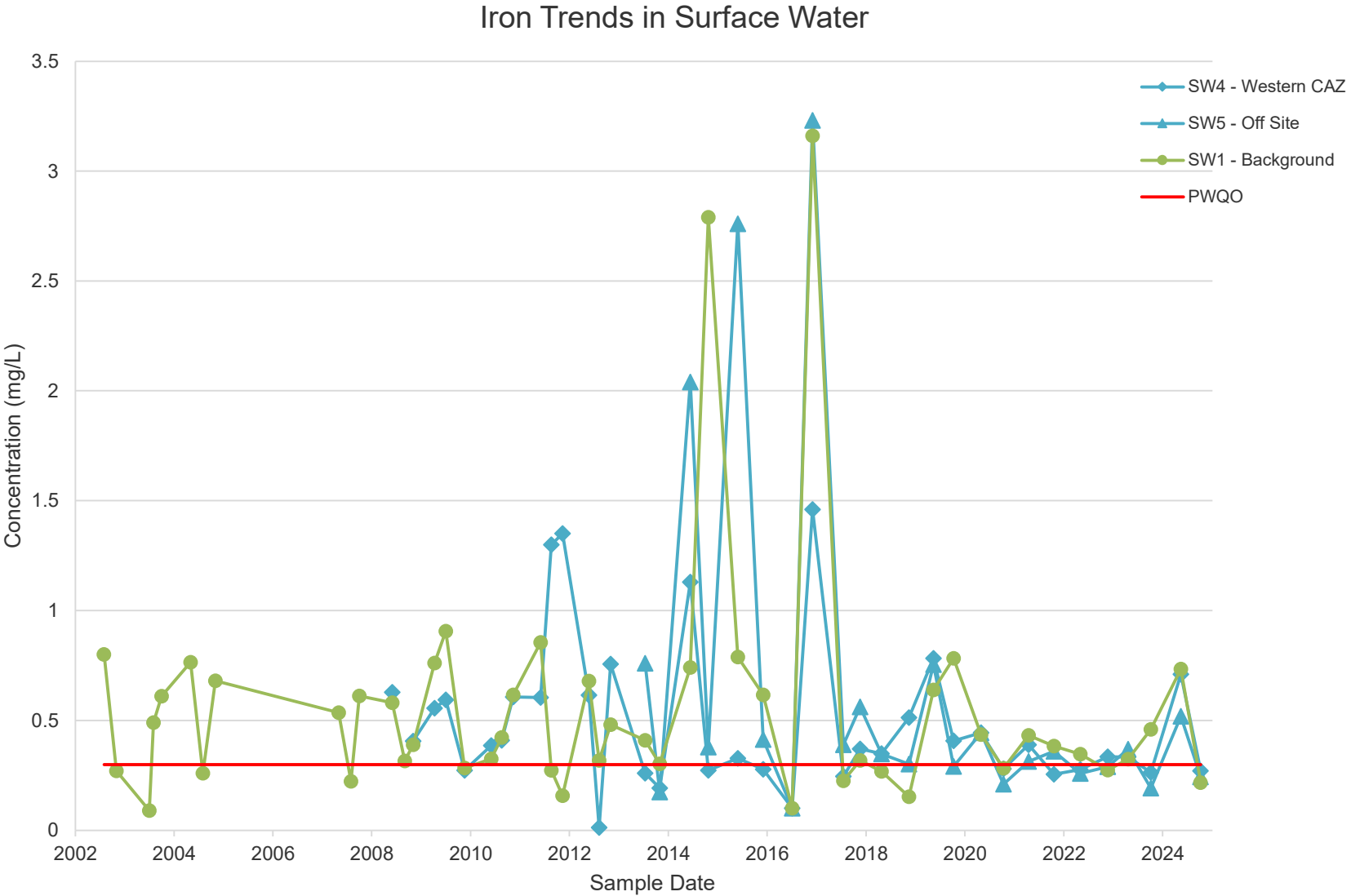


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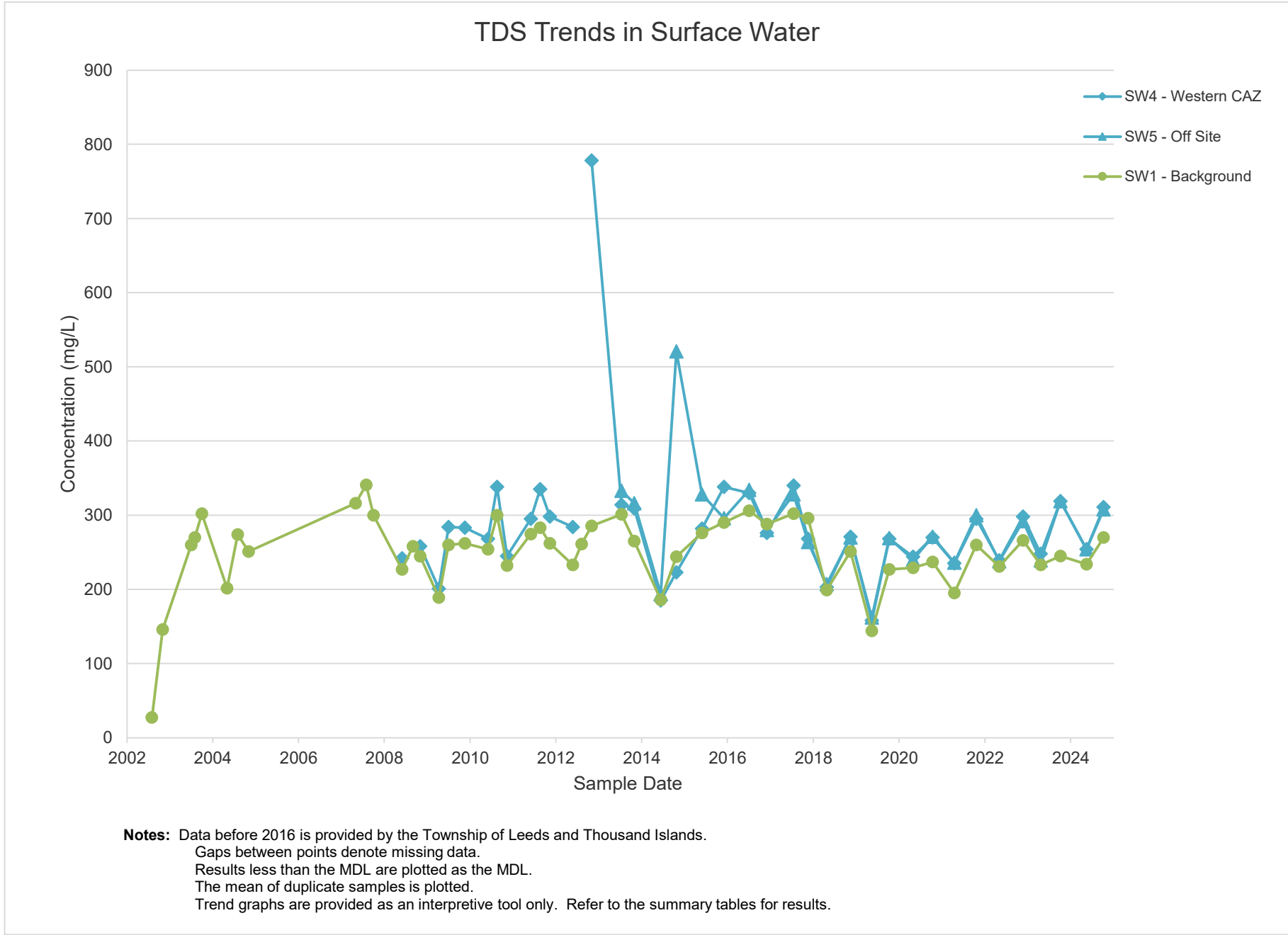




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Appendix J
Water Well Records

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only									
MUN						CON			LOT

LEEDSTOWNVILLE **REAR OF LEEDST LANSLOWNE** **11**
RR#/Street Number/Name City/Town/Village Site/Compartment/Block/Tract etc.

114 TURK ROCK R.D.

GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: ☐ Undifferentiated ☒ Averaged
813 18 407003 4932733 MAGELLAN ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
BROWN	SAND	2" GREEN SET	23.5 TO 20.4	0	11.3
BROWN	GRAVEL	BACK FILL MATERIAL		11.3	11.6
WHITE-GREY	SANDSTONE	24.3 TO 19.8	SAND	11.6	20.4
GREY	SANDSTONE	19.8 TO 7.6	BENTONITE	20.4	21
WHITE-GREY	SANDSTONE			21	24.3

Hole Diameter			Construction Record					Test of Well Yield				
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	11.8	25.4						Pump intake set at - (metres)	Static Level			
11.8	24.3	15.25	15.8	Steel ☒ Fibreglass ☐ ☐ Plastic ☐ Concrete ☐ ☐ Galvanized ☐	.48	0	11.8	Pumping rate - (litres/min)	1		1	
								Duration of pumping	20		2	
								Final water level end of pumping	3		3	
								Recommended pump type	4		4	
								Recommended pump depth	5		5	
								Recommended pump rate	10		10	
								If flowing give rate - (litres/min)	15		15	
								If pumping discontinued, give reason.	20		20	
									25		25	
									30		30	
									40		40	
									50		50	
									60		60	

Water Record

Water found at Metres / Kind of Water

20.4 ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: **UNTESTED**

After test of well yield, water was ☐ Clear and sediment free ☐ Other, specify

Chlorinated ☐ Yes ☒ No

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres From To Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres)

11.8 4 CEMENT SLURRY .3

Method of Construction

☐ Cable Tool ☒ Rotary (air) ☐ Diamond ☐ Digging ☐ Rotary (conventional) ☒ Air percussion ☐ Jetting ☐ Other ☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other ☒ Stock ☐ Commercial ☐ Not used ☒ Irrigation ☐ Municipal ☐ Cooling & air conditioning **MONITOR**

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other) ☒ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering ☒ Test Hole ☐ Abandoned, poor quality ☐ Replacement well **MONITOR**

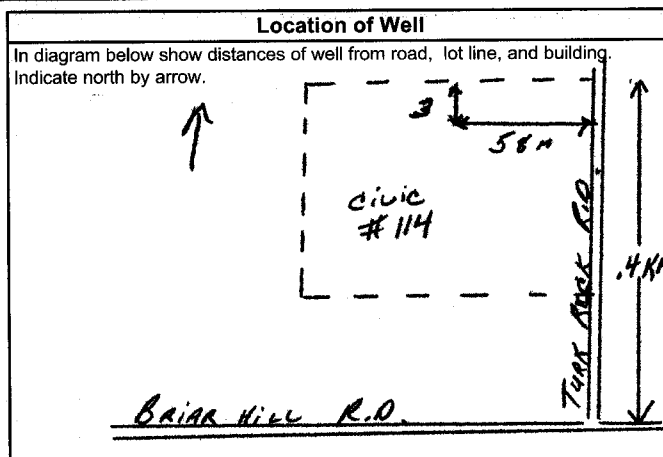
Well Contractor/Technician Information

Name of Well Contractor Well Contractor's Licence No.
JACK KNOX WELL DRILLING 3202

Business Address (street name, number, city etc.)
GLENBURNIE

Name of Well Technician (last name, first name) Well Technician's Licence No.
KNOX John 2879

Signature of Technician/Contractor Date Submitted
X Ron Knox



Audit No. **z 37623** Date Well Completed **06/3/16**

Was the well owner's information package delivered? ☐ Yes ☒ No Date Delivered **06/3/16**

Ministry Use Only

Data Source Contractor **3202**

Date Received **APR 11 2006** Date of Inspection **06/3/16**

Remarks Well Record Number

Instructions for Completing Form

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- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

[illegible]

LEFOST GRENVILLE				REAR OF LEFOST LANSOWNE		78	71
RR#/Street Number/Name				City/Town/Village		Site/Compartment/Block/Tract etc.	
						TW2	
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation:	
	83	18	407003	4932733	MAGELLAN	☐ Undifferentiated ☐ Differentiated, specify _____	☒ Averaged

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
BROWN	SAND	DEEP SCREEN SET	27.4 TO 24.4M	0	4.3
GREY+RED	GRANITE	SHALLOW SCREEN SET	15 TO 12M	4.3	15.2
RED	GRANITE			15.2	15.5
GREY+RED	GRANITE	BACK FILL MATERIAL		15.5	21.9
RED	GRANITE	27.7 TO 24.2	SAND	21.9	22.5
GREY	GRANITE	24.2 TO 15.5	BENTONITE	22.5	27.7
		15.5 TO 11.2	SAND		
		11.2 TO 2.4	BENTONITE		

Hole Diameter		
Depth	Metres	Diameter
From	To	Centimetres
0	4.8	25.4
4.8	27.7	15.25
Water Record		
Water found at _____ Metres		Kind of Water
☒ 27	m	☐ Fresh ☐ Sulphur
☐ Gas		☐ Salty ☐ Minerals
☐ Other: _____		
☐ _____	m	☐ Fresh ☐ Sulphur
☐ Gas		☐ Salty ☐ Minerals
☐ Other: _____		
☐ _____	m	☐ Fresh ☐ Sulphur
☐ Gas		☐ Salty ☐ Minerals
☐ Other: _____		
After test of well yield, water was		
☐ Clear and sediment free		
☐ Other, specify _____		
Chlorinated ☐ Yes ☒ No		

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth	Metres
			From	To
Casing				
15.8	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	0	4.8
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
☒ Open hole			4.8	27.7

Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping _____hrs + _____ min	②		2	
Final water level end of pumping _____metres	3		3	
Recommended pump type, ☐ Shallow ☐ Deep	4		4	
Recommended pump depth, _____metres	5		5	
Recommended pump rate, _____ (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontin- ued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record			☒ Annular space	☐ Abandonment
Depth set at - Metres		Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
From	To			
4.8	0	CEMENT SLURRY	.2	

Method of Construction			
☐ Cable Tool	☐ Rotary (air)	☐ Diamond	☐ Digging
☐ Rotary (conventional)	☒ Air percussion	☐ Jetting	☐ Other
☐ Rotary (reverse)	☐ Boring	☐ Driving	

Water Use			
☐ Domestic	☐ Industrial	☐ Public Supply	☐ Other
☐ Stock	☐ Commercial	☐ Not used	<i>Monitored</i>
☐ Irrigation	☐ Municipal	☐ Cooling & air conditioning	

Final Status of Well			
☐ Water Supply	☐ Recharge well	☐ Unfinished	☐ Abandoned, (Other)
☐ Observation well	☐ Abandoned, insufficient supply	☐ Dewatering	<i>None To R</i>
☐ Test Hole	☐ Abandoned, poor quality	☐ Replacement well	

Well Contractor/Technician Information			
Name of Well Contractor <i>JACK KNOX WELL DRILLING</i>		Well Contractor's Licence No. <i>3202</i>	
Business Address (street name, number, city etc.) <i>GLENBURNIE</i>			
Name of Well Technician (last name, first name) <i>KNOX John</i>		Well Technician's Licence No. <i>2879</i>	
Signature of Technician/Contractor <i>[Signature]</i>		Date Submitted YYYY MM DD <i>[Signature]</i>	

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.

BRIAR HILL R.O.

Audit No.	Z 37624	Date Well Completed	YYYY	MM	DD
			06	3	15

Was the well owner's information package delivered?	☐ Yes ☐ No	Date Delivered	YYYY	MM	DD
---	--	----------------	------	----	----

Ministry Use Only			
Data Source	Contractor 3202		
Date Received APR 11 2006	YYYY	MM	DD
	Date of Inspection	YYYY	MM DD
Remarks	Well Record Number		

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

MUN

CON

LOT

Ministry Use Only

LEEDS + GRENVILLE

REAR OF LEEDS + TANSOWNE

18 11

RR#/Street Number/Name

City/Town/Village

Site/Compartment/Block/Tract etc.

GPS Reading

NAD

Zone

Easting

Northing

Unit Make/Model

Mode of Operation:

☐ Undifferentiated

☒ Averaged

☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
BROWN	SAND + GRAVEL	DEEP SCREEN SET	14.9 TO 11.9	0	3.3
GREY	GRANITE	SHALLOW SCREEN SET	7.7 TO 4.7	3.3	14.3
RED GREY	GRANITE			14.3	15.2
		BACK FILL MATERIAL			
		15.2 TO 10.9	SAND		
		10.9 TO 8.4	BENTONITE		
		8.4 TO 4.5	SAND		
		4.5 TO 2.4	BENTONITE		

Hole Diameter		
Depth From	Metres To	Diameter Centimetres
0	3.5	25.4
3.5	15.2	15.25
Water Record		
Water found at Metres	Kind of Water	
14.3	☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: UNTESTED	
7.6	☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: UNTESTED	
	☐ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:	
After test of well yield, water was		
☐ Clear and sediment free		
☐ Other, specify		
Chlorinated	☐ Yes	☒ No

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
15.8	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	1.48	0	3.5
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☒ Open hole		3.5	15.2

Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping hrs + min	2		2	
Final water level end of pumping metres	3		3	
Recommended pump type, ☐ Shallow ☐ Deep	4		4	
Recommended pump depth, metres	5		5	
Recommended pump rate, (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record			
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
3.5	0	CEMENT SLURRY	1.2
Method of Construction			
☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging			
☐ Rotary (conventional) ☒ Air percussion ☐ Jetting ☐ Other			
☐ Rotary (reverse) ☐ Boring ☐ Driving			
Water Use			
☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other			
☐ Stock ☐ Commercial ☐ Not used			
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning			
Final Status of Well			
☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)			
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering			
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well			

Well Contractor/Technician Information	
Name of Well Contractor	Well Contractor's Licence No.
JACK KNOX WELLDRILLING	3202
Business Address (street name, number, city etc.)	
GLENBURNIE	
Name of Well Technician (last name, first name)	Well Technician's Licence No.
KNOX JOHN	2879
Signature of Technician/Contractor	Date Submitted
X Ron Knox	

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No.	Date Well Completed
z 37625	06 3 21
Was the well owner's information package delivered? ☐ Yes ☐ No	Date Delivered

Ministry Use Only	
Data Source	Contractor
	3202
Date Received	Date of Inspection
APR 11 2006	
Remarks	Well Record Number



Ministry of
the Environment

All measurements recorded in: ☐ Metric ☒ Imperial

Follow instructions on the front and back of this form. Print or Type

Well Tag No. of Deepest Well: (Print Well Tag No.)

A175 283

Well # on Drawing of Deepest Well:

Well Record for Well Cluster - Part 1 of 3
(Only for Multiple Test Holes or Dewatering Wells)
Regulation 903 Ontario Water Resources Act

Page 1 of 3

Well Cluster Location Information

Address of Well Location (Street Number(s)/Name(s), RR, if available)		Lot(s)	Concession(s)	Geographic Township		County/District/Upper Tier Municipality	
Brier Hill & Turk Rock Rd.		17 & 18	11	Leeds & 1000 Islands		Leeds & Grenville (United)	
City, Town, Village or Hamlet		Province	GPS Unit Make	Model	Unit Mode of Operation	☐ Undifferentiated ☐ Averaged	
Brier Hill / Lyndhurst		Ontario			☐ Differentiated, specify:		

Mandatory Attachments/Additional Information

- ☒ Land Owner Consent Form must be attached.
☒ Detailed Drawing of All Well Locations must be attached.
I, the person constructing the well, will promptly submit to the Director, on request, any additional information in my custody or control related to any well in the well cluster that I have constructed.

Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____

Well # on Drawing	UTM Coordinates		Hole Depth (m/ft)	Hole Diameter (cm/in)	Method of Construction	Casing Material; Diameter (cm/in)	Casing (m/ft)		Screen Interval (m/ft)		Annular Space Material (m/ft)			Overburden/Bedrock or Abandonment Filling Material Intervals (m/ft)	Static Water Level (m/ft)	Date of Completion (yyyy/mm/dd)
	Zone	Easting					From	To	From	To	From	To	Material:			
1	18	406929	4933106	17	8'	H.S.A.	Plastic	0	12	12	17			OW22		
2	18	406728	4933177	30	8"		2	0	25	25	30			OW15-D		2015/9/23
3	18	406724	4933179	12.5	8			0	7.5	7.5	12.5			OW15-S		
4	18	406622	4933226	15				0	10	10	15			OW24		
5	18	406670	4932992	15				0	10	10	15			OW23		
6	18	406685	4932751	20				0	15	15	20			OW20		2015/9/23
7	18	406704	4932919	20				0	15	15	20			OW21		
8	18	406818	4932922	40				0	35	35	40			OW25		
9	18	406946	4933206	12				0	7	7	12			OW7R1		2015/09/24
10	18	406994	4933223	12				0	7	7	12			OW6R1		

Well Contractor and Well Technician Information

Business Name of Well Contractor		Business Address (Street Number/Name, RR)		Municipality	Province
Aardvaak Drilling Inc.		25C Lewis Rd		Guelph	ON
Postal Code	Bus. Telephone No.	Well Contractor's Licence No.	Business E-mail Address		
N1H1E9	(519) 826 9340	7238	info@aardvaakdrillinginc.com		
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Signature of Well Technician	Date Submitted (yyyy/mm/dd)	
Kyle Smith		3591	Tyler Inc	2015/10/01	

Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd)	Date Last Well in Cluster Completed (yyyy/mm/dd)
2015/09/22	2015/09/24

Well Abandonment

Person Abandoning the Wells:

Name

(Print or Type) - See instruction 11 on the back of this form

Ministry Use Only

Date Received (yyyy/mm/dd) Audit No.

C 24076

Comments:



Ontario

Ministry of
the Environment

Well Record for Well Cluster - Part 3
Detailed Drawing of All Well Locations

15-099-03

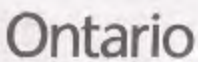
Note: This Well Record for Well Cluster Part 3 - Detailed Drawing of all Well Locations, must be attached to Parts 1 and 2. The drawing must include all property boundaries, an arrow indicating the North direction, all named roads and sufficient measurements to locate all wells in the cluster in relation to fixed points. The drawing must show the location of each well and each well must be numbered on the drawing to match number used for that well on the Well Record for Well Cluster Parts 1 and 2. The well with the well tag must be clearly identified on the Drawing.

UTM coordinates should appear beside each well, if space permits. Additional comments on wells can be included on the drawing

Well Tag Number: # A175283

"Well Record for Well Cluster" Form Audit Number: # C24076





Well Tag No. for " " 144-11 (V) --- (Please reading Print Below)

A 092772

Regulation 903 Ontario Water Resources Act

Page 1 of 3

Master Well Owner's and Land Owner's Information

First Name	Last Name	E-mail Address			
Township of Leeds and the 1000 Island					
Mailing Address (Street Number/Name, RR)	Municipality	Province	Postal Code	Telephone No. (inc. area code)	
1 Jessie St.	Lonsdowne	ON	K0E 1L0	613 659 2415	

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR) 102-114 Turk Rock RD			Township Leeds and the 1000 Island		Lot 2018	Concession 2
County/District/Municipality Leeds and Grenville County			City/Town/Village Brier Hill		Province Ontario	Postal Code K0E1H0
UTM Coordinates NAD 83	Zone 18	Easting 406914	Northing 4933272	GPS Unit Make Garmin	Model map63	Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Overburden and Bedrock Materials (see instructions on the back of this form)

[illegible]

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	6.09	15.24 cm

Water Use

☐ Public	☐ Industrial	☐ Not used	☐ Other, specify _____
☐ Domestic	☐ Commercial	☐ Dewatering	
☐ Livestock	☐ Municipal	☒ Monitoring	
☐ Irrigation	☐ Test Hole	☐ Cooling & Air Conditioning	

Method of Construction

☐ Cable Tool	☐ Air Percussion	☐ Digging
☐ Rotary (Conventional)	☐ Diamond	☒ Boring
☐ Rotary (Reverse)	☐ Jetting	☐ Other, specify _____
☐ Rotary (Air)	☐ Driving	

Status of Well

☒ Test Hole	☐ Abandoned, Insufficient Supply
☐ Replacement Well	☐ Abandoned, Poor Water Quality
☐ Dewatering Well	☐ Other, specify _____
☐ Alteration (Construction)	☐ Abandoned, other, specify _____

No Casing and Screen Used

Open Hole	☐ Yes ☒ No	N/A	Metres
-----------	---	-----	--------

Static Water Level Test

N/A	Metres
-----	--------

Screen

☐ Galvanized ☐ Steel ☐ Fibreglass ☐ Concrete ☒ Plastic

Outside Diameter (Centimetres)	Slot No.
5.08 cm	0.10

Water Details

Water found at Depth 3.05 Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Disinfected ☐ Yes ☒ No If no, provide reason: Test Hole	Date Master Well Completed (yyyy/mm/dd) 2010 01 05
---	--

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)

Total Wells in Cluster 3	Please indicate Number of Cluster Well Information Log Sheets Submitted
Total Wells on this Property 3	

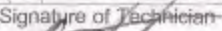
Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.

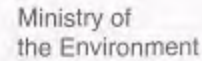
☒ Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request

Well Contractor and Well Technician Information

Business Name of Well Contractor G.E.T. Drilling LTD		Well Contractor's Licence No. 7 0 8 5	
Business Address (Street No./Name, number, RR) 278 Drive-in RD		Municipality Napanee	
Province ON	Postal Code K7R3L1	Business E-mail Address get.drilling@sympatico.ca	
Bus. Telephone No. (inc. area code) 6133544767		Name of Well Technician (Last Name, First Name) Turnbull, Mike	
Well Technician's Licence No. 3 0 4 2		Signature of Technician 	
		Date Submitted (yyyy/mm/dd) 2010 01 20	

Audit No. M 02168	Well Contractor No.
Date Received (yyyy/mm/dd) JAN 28 2010	Date of Inspection (yyyy/mm/dd)
Remarks	



Well Tag No. for Master Well (Print Well Tag No.)

A092772

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page 2 of 3

First Name	Last Name	Mailing Address (Street No./Name, RR)	Municipality
Township of Leeds and the 1000 Island		1 Jessie St	Leedsdowne
Province	Postal Code	E-mail Address	Telephone No. (inc. area code)
ON	K0E1L0		613 659 2415

Address of Well Location (Street Number/Name, RR) 102-114 Turk Rock Rd.			Lot 18	Concession 2	Township Leeds and the 1000 ISL.	County/District/Municipality Leeds and Grenville	
City/Town/Village Brier Hill	Province Ontario	Postal Code K0E 1L0	GPS Unit Make Garmin	Model map 63	Unit Mode of Operation ☐ Undifferentiated ☒ Averaged	☐ Differentiated, specify:	

C	
P	
S	
C	
upon request	
Signature of Technician/Contractor	Date (yyyy/mm/dd)
	2010 0120

[illegible]

Business Name of Well Contractor GET Drilling LTD										Business Address (Street Number/Name, RR) 278 Drive-in RD										Municipality Napanee										Province ON									
Postal Code K7R3L1					Business Telephone No. (inc. area code) 6133544767					Well Contractor's Licence No. 7085					Business E-mail Address get.drilling@sympatico.ca																								
Name of Well Technician (First Name, Last Name) Mike Turnbull										Well Technician's Licence No. 3042					Date Submitted (yyyy/mm/dd) 2010 01 20					Signature of Technician 																			

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2010 01 05	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2010 01 05
--	---

Date Received (yyyy/mm/dd)	Date Inspected (yyyy/mm/dd)
IAN 28 2010 Audit No. c07462	Remarks m02168

Imagery Date: Jul 25, 2005

43°41'20"N 76°04'55"W elev 101 m

Imagery ©2005 DigitalGlobe
©2005 Google
©2005 Terra Atlas

Google

Eye alt: 531 m

Location of Well cluster
TAG# A092272
Brier Hill Landfill

Landfill

TUCK ROCK RD

Replacement

WELL #2

WELL #1

WELL #3

Barn

House

+

JAN 28 2010

C-7065 m02168 c07462

3/3



Measurements recorded in: ☐ Metric ☒ Imperial

No Tag

Well Owner's Information

First Name: Last Name / Organization: Township of Leeds and the Thousand Islands
E-mail Address: Mailing Address (Street Number/Name): 1233 Prince St. P.O. Box 280 Landsdowne
Municipality: ON Postal Code: K0E1L0 Telephone No. (inc. area code): 613 659 0415

Well Location

Address of Well Location (Street Number/Name): 114 Turk Rock Rd
County/District/Municipality: City/Town/Village: Lyndhurst
Province: Ontario Postal Code: K0E1N0
UTM Coordinates: Zone: Easting: Northing: NAD: 83 18T 406944 4933205
Municipal Plan and Sublot Number: Other:

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
	Peat		Wet	0 6'
3 MW's Abandoned on site in Cluster				
OW6, OW7, and L8				

Annular Space				Results of Well Yield Testing			
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)		After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify	Draw Down Time (min) Water Level (m/ft)	Recovery Time (min) Water Level (m/ft)	
0 8' 3/8"	Hole Plug			If pumping discontinued, give reason:	Static Level		
				Pump intake set at (m/ft)	1	1	
				Pumping rate (l/min / GPM)	2	2	
				Duration of pumping hrs + min	3	3	
				Final water level end of pumping (m/ft)	4	4	
				If flowing give rate (l/min / GPM)	5	5	
				Recommended pump depth (m/ft)	10	10	
				Recommended pump rate (l/min / GPM)	15	15	
				Well production (l/min / GPM)	20	20	
				Disinfected? ☐ Yes ☐ No	25	25	
					30	30	
					40	40	
					50	50	
					60	60	

Method of Construction				Well Use			
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☐ Not used			
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering			
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☒ Test Hole	☒ Monitoring			
☒ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning				
☐ Air percussion		☐ Industrial					
☐ Other, specify		☐ Other, specify					

Construction Record - Casing				Status of Well			
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	☐ Water Supply			
1"	Plastic	.25"	0 1'	☐ Replacement Well			
				☒ Test Hole			
				☐ Recharge Well			
				☐ Dewatering Well			
				☒ Observation and/or Monitoring Hole			
				☐ Alteration (Construction)			
				☐ Abandoned, Insufficient Supply			
				☐ Abandoned, Poor Water Quality			
				☐ Abandoned, other, specify			
				☐ Other, specify			

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To
1.25"	Plastic	.10	1' 6'

Water Details				Hole Diameter			
Water found at Depth (m/ft) ☐ Gas ☐ Other, specify	Kind of Water: ☐ Fresh ☐ Untested			Depth (m/ft) From To	Diameter (cm/in)		
Water found at Depth (m/ft) ☐ Gas ☐ Other, specify	Kind of Water: ☐ Fresh ☐ Untested			0 8' 6"			
Water found at Depth (m/ft) ☐ Gas ☐ Other, specify	Kind of Water: ☐ Fresh ☐ Untested						

Well Contractor and Well Technician Information			
Business Name of Well Contractor: Can. Envir. Drilling & Contractors Inc.	Well Contractor's Licence No.: 713123		
Business Address (Street Number/Name): 4102 Perth Rd. Inverary	Municipality: South Frontenac		
Province: ON Postal Code: K0H1X0 Business E-mail Address: Jonathan@canedc.com			
Bus. Telephone No. (inc. area code): 613 353 2231 Name of Well Technician (Last Name, First Name): FILCION JONATHAN			
Well Technician's Licence No.: 313115 Signature of Technician and/or Contractor: Date Submitted: 20191220			

Map of Well Location

Please provide a map below following instructions on the back.

114

TURK ROCK RD

Landfill Entrance

Grass Pathway

Comments:

Well owner's information package delivered: ☒ Yes ☐ No	Date Package Delivered: YYY Y M M D D	Ministry Use Only Audit No. 322228 Received
Date Work Completed: 20191028		

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name
James

Last Name/Organization
Tuck Twp. of Leeds and the Thousand Islands

E-mail Address
1233 Prince St. P.O. Box 280 Landsdowne ON K0E1K0 6136592415

☐ Well Constructed by Well Owner

Well Location

Address of Well Location (Street Number/Name)
151 Fortune Line Rd

Township
Lynchhurst

Lot

Concession

County/District/Municipality

City/Town/Village
Lynchhurst

Province
Ontario

Postal Code

UTM Coordinates
NAD 83 18T 406611 4933243

Zone Easting Northing

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)					
General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
Brown Grey	Sand Clay			From 0'	To 6' 20'

Annular Space

Depth Set at (m/ft)
From 0 To 8' 20'

Type of Sealant Used (Material and Type)
3/8" Hole Plug #2 Silica Sand

Volume Placed (m³/ft³)

Method of Construction

☐ Cable Tool
☐ Rotary (Conventional)
☐ Rotary (Reverse)
☒ Boring
☐ Air percussion
☐ Other, specify

☐ Diamond
☐ Jetting
☐ Driving
☐ Digging

☐ Public
☐ Domestic
☐ Livestock
☐ Irrigation
☐ Industrial
☐ Other, specify

☐ Commercial
☐ Municipal
☒ Test Hole
☐ Cooling & Air Conditioning
☐ Not used
☐ Dewatering
☒ Monitoring

Construction Record - Casing

Inside Diameter (cm/in)
2"

Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)
PVC

Wall Thickness (cm/in)
.25"

Depth (m/ft)
From 0 To 10'

Status of Well

☐ Water Supply
☐ Replacement Well
☒ Test Hole
☐ Recharge Well
☐ Dewatering Well
☒ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Construction Record - Screen

Outside Diameter (cm/in)
2.25"

Material (Plastic, Galvanized, Steel)
PVC

Slot No.
.10

Depth (m/ft)
From 10' To 20'

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify

Draw Down

Recovery

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping
hrs + min

Final water level end of pumping (m/ft)

If flowing give rate (l/min/GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min/GPM)

Well production (l/min/GPM)

Disinfected?
☐ Yes ☐ No

Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Water Details

Water found at Depth (m/ft) ☐ Gas ☐ Other, specify

Kind of Water: ☐ Fresh ☐ Untested

Water found at Depth (m/ft) ☐ Gas ☐ Other, specify

Kind of Water: ☐ Fresh ☐ Untested

Water found at Depth (m/ft) ☐ Gas ☐ Other, specify

Kind of Water: ☐ Fresh ☐ Untested

Hole Diameter

Depth (m/ft)
From 0 To 20'

Diameter (cm/in)
6"

Well Contractor and Well Technician Information

Business Name of Well Contractor
Can. Envir. Drilling & Contr. Inc.

Well Contractor's Licence No.
7323

Business Address (Street Number/Name)
4102 Perth Rd. Inverary

Municipality
S. Frontenac

Province
ON

Postal Code
K0H1X0

Business E-mail Address
info@canedc.com

Bus. Telephone No. (inc. area code)
6133532231

Name of Well Technician (Last Name, First Name)
Asselstine Luke

Well Technician's Licence No.
3315

Signature of Technician and/or Contractor
[Signature]

Date Submitted
20210721

Map of Well Location

Please provide a map below following instructions on the back.

Fortune Line Rd

151

Open Field

Trees

MW

Comments:

Well owner's information package delivered
☐ Yes ☒ No

Date Package Delivered
Y Y Y Y M M D D
20210720

Date Work Completed
20210720

Ministry Use Only
Audit No. 2353593
Received

No Tags

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name James	Last Name/Organization Leeds & Buck	E-mail Address	☐ Well Constructed by Well Owner
Mailing Address (Street Number/Name) 1233 Prince St. P.O. Box 280	Municipality Landsdowne	Province ON	Postal Code K0E 1L0
Telephone No. (inc. area code) 613 659 2415			

Well Location

Address of Well Location (Street Number/Name) 151 Fortune Line Rd.	Township Lindsay	Lot	Concession
County/District/Municipality	City/Town/Village Lindsay	Province Ontario	Postal Code
UTM Coordinates Zone 18 Easting 8 Northing 3	Municipal Plan and Sublot Number	Other	

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
monitoring well	OW-24 - Pulled Pipe, overdrilled, sealed with 3/8" hole plug			0	15'
	GPS 18T E406608 N4933235				
monitoring well	OW-15 - pulled pipe, sealed hole with tremie grout, concrete & hole plug			0	30'
	GPS 18T E406725 N4933177				
MW - OW-16	- Pulled pipe, overdrilled, sealed with 3/8" hole plug			0	10'
	GPS 18T E406827 N4933054				

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
0	15'	MW-24 3/8" Hole Plug
0	30'	Tremie Grout, hole plug MW-15
0	10'	MW-16 3/8" Hole Plug

Method of Construction		Well Use		
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☐ Not used
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☒ Test Hole	☐ Monitoring
☐ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning	
☐ Air percussion		☐ Industrial		
☒ Other, specify	Abandon	☐ Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To	
					☐ Water Supply
					☐ Replacement Well
					☐ Test Hole
					☐ Recharge Well
					☐ Dewatering Well
					☐ Observation and/or Monitoring Hole
					☐ Alteration (Construction)
					☒ Abandoned, Insufficient Supply
					☒ Abandoned, Poor Water Quality
					☐ Abandoned, other, specify
					☐ Other, specify

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To	

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Depth (m/ft) From	To
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify		
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify		

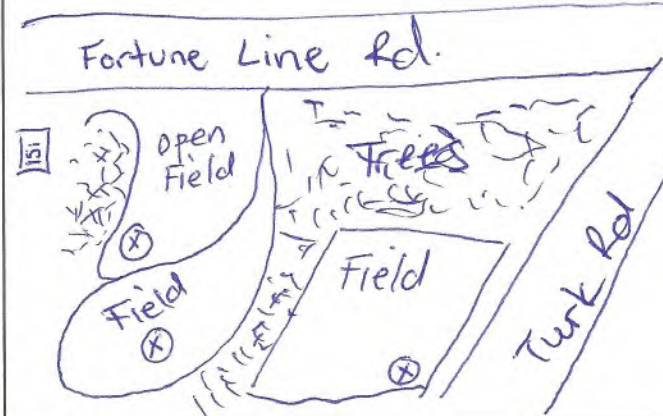
Business Name of Well Contractor Can. Enviro. Drilling & Contr. Inc.		Well Contractor's Licence No. 713 213
Business Address (Street Number/Name) 4102 Perth Rd. Inverary		Municipality S. Trent
Province ON	Postal Code K0H 1X0	Business E-mail Address info@canedr.com
Bus. Telephone No. (inc. area code) 613 355 2231		Name of Well Technician (Last Name, First Name) Asselstine Luke
Well Technician's Licence No. 33115	Signature of Technician and/or Contractor	Date Submitted 2021 07 21

Results of Well Yield Testing

After test of well yield, water was:		Draw Down		Recovery	
☐ Clear and sand free	☐ Other, specify	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level			
Pump intake set at (m/ft)		1		1	
Pumping rate (l/min / GPM)		2		2	
Duration of pumping hrs + min		3		3	
Final water level end of pumping (m/ft)		4		4	
If flowing give rate (l/min/GPM)		5		5	
Recommended pump depth (m/ft)		10		10	
Recommended pump rate (l/min/GPM)		15		15	
Well production (l/min/GPM)		20		20	
Disinfected?		25		25	
☒ Yes ☐ No		30		30	
		40		40	
		50		50	
		60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered ☒ Yes ☐ No	Date Package Delivered Y Y Y Y M M D D 2021 07 21	Ministry Use Only Audit No. 2353592
Date Work Completed 2021 07 21	Received	



WELL LOG

Enclosure No.: 1

Project Name: 1036 - Briar Hill				Project Number: 1036			
Client: Township of Leeds and the Thousand Islands				Well Number: OW24R1		Page: 1 of 1	
Location: Briar Hill Waste Disposal Site				Date Started: 2021 July 20		Datum: NAD 83 UTM Zone 18N	
Drilling Contractor: Canadian Environmental Drilling Contractors Inc				Date Finished: 2021 July 20		Elevation:	
Drilling Equipment: CME 55LC				Easting:		Northing:	
Drilling and Sampling Method: 150mm Solid-Stem Augers				Logged By: M. Wright		Checked By: J. Pyke	

Depth BGS (m)	Elevation (m)	Stratigraphy	Description	Monitoring Well	Sample Type	Sample Number	Recovery (%)	Penetration Index / RQD	Shear Strength (kPa)			
									50	100	150	200
0.2			Sand brown, moist.									
0.4												
0.6												
0.8												
1.0												
1.2												
1.4			Becoming grey and wet.									
1.6												
1.8												
2.0												
2.2												
2.4												
2.6												
2.8			Clay grey, wet.									
3.0												
3.2												
3.4												
3.6												
3.8												
4.0												
4.2												
4.4												
4.6			Becoming very soft.									
4.8												
5.0												
5.2												
5.4												
5.6												
5.8												
6.0												
6.2			End of borehole at target 6.10 m.									
6.4												

NOTES: Well Construction Details stick-up with aluminum monument 50.8 mm Sch. 40 PVC 2.54 mm slotted screen 3.05 m screen #1 sand				Groundwater Monitoring Details monitored on DTW ¹ : DTB ¹ : 6.10 m ¹ depths are reported from grade				- combustible and organic vapour values of 0 indicate no response on the instrument or below the lower explosive limit			
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BOREHOLE LOG OW24R1.GPJ MALROZ ENGINEERING.GDT 21/8/11