Phase II Environmental Site Assessment

752212, 752226 and 752240 Ida Street, Dundalk, Ontario

Flato Ida Dundalk Inc.

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Revision Record

Revision	Date	Prepared By	Checked By	Authorized By
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Executive Summary

SLR Consulting (Canada) Ltd. (SLR) was retained by Flato Ida Dundalk Inc. (Flato) to complete a Phase II Environmental Site Assessment (Phase II ESA) of a property that is referred to as 752212, 752226 and 752240 Ida Street located in Dundalk, Ontario (referred to as the "Site"). The Site is located at the northwest corner of Ida Street and Grey Road 9 (also known as Main Street West). The purpose of the Phase II ESA was to assess soil and groundwater quality in the areas of potential environmental concern (APECs) identified in the SLR Phase I ESA and determine if they should be considered areas of environmental concern (AECs).

Based on the Phase I ESA, SLR identified the following APECs at the Site:

- **APEC-1** – The Site has currently and historically been used for agricultural purposes and therefore, there is potential for pesticide contamination across the Site.
- **APEC-2** – Due to the age of the residential dwelling located at 752212 Ida Street, it is likely that an oil storage tank used for heating could be located underground.
- **APEC-3 –** Storage tanks of unknown contents are present approximately 90 m northeast from the Site and is inferred to be upgradient of the regional groundwater flow direction.

The Phase II ESA field program consisted of a total of six borehole locations, each completed as groundwater monitoring wells. The boreholes were advanced to a maximum of 10.7 metres below ground (mbg). SLR retained Geo-Environmental Drilling Inc. (Geo-Environmental), a Ministry of Environment, Conservation and Parks (MECP) licensed driller located in Halton Hills, Ontario, to undertake the drilling activities at the Site April and May 2022. Track-mounted drill rigs with 9'' outer diameter hollow stem augers were utilized to complete the drill work.

Subsequent to the soil sampling and groundwater sampling in spring 2022, two properties were purchased: in the southeast corner of the site and directly to the west of Maple Grove cemetery. These parcels of land have not been assessed.

Selected soil and groundwater samples were submitted for laboratory analysis of inorganics, metals, petroleum hydrocarbons (PHC), polycyclic aromatic hydrocarbons (PAH), pesticides, polychlorinated biphenyls (PCB) and/or volatile organic compounds (VOC). The concentrations of the samples were then compared to the MECP Table 2 Site Condition Standards (SCS) for residential property use, medium and fine textured soils and a potable groundwater condition (MECP Table 2 SCS). Based on the results of the Phase II ESA, the following is concluded for the Site:

- The Phase I ESA previously identified three APECs which were assessed during the Phase II ESA activities.
- A relatively thin (1-2 m thick) sand to silty sand unit was located at surface overlain by topsoil. At select locations, a discontinuous sandy gravel layer was encountered between 510.6 metres above sea level (masl) to 502.0 masl.
- A till unit was found underlying the sand to silty sand unit composed of sandy silt to silty sand material and was located at approximately 516.3 masl to 506.2 masl.
- The interpreted groundwater contours for spring 2023, representing a generally high water table position, is primarily in a southwesterly direction along the west portion of the Site and a southeasterly direction along the east portion of the Site. It is noted that there is a watershed drainage divide that runs through the centre of the Site in a north-south direction.

- The soil samples met the MECP Table 2 SCS for metals, inorganics, pesticides, PHCs, PCBs, and PAHs.
- The groundwater sample collected met the MECP Table 2 SCS for metals, inorganics, PHCs, and PAHs.
- Based on the results of the Phase II ESA, no additional soil investigations and/or remediations are required to meet the MECP Table 2 SCS for the proposed residential property use.

The following recommendations are provided for consideration based on the Phase II ESA findings for the Site:

- **Excess Soil** – As the movement of excess soil will be required at the Site during construction, a soil management plan will be required to confirm suitable quality of fill materials to be used in accordance with Ontario's Excess Soil Management Regulation (O.Reg.406/19).
- **Onsite Wells** –The potential onsite potable water well associated with the residential dwellings on Site (if identified); as well as the newly installed monitoring wells should be decommissioned when no longer required, per the Wells Regulation (O.Reg.903).
- **Designated Substances** - Due to the age of the Site structures, the presence of asbestos or lead-based paint is possible at and in the area of the possible building foundation on Site. A designated substance survey is recommended prior to any building construction or demolition activities are completed on the Site.

Septic Bed - Tile bed(s) and septic tank(s) associated with the former Site structures and three residential homes may be present and have the potential to contain bacterial and nutrient (nitrate, ammonia) related contaminants. All septic systems and associated tile beds, if still present, should be decommissioned at the Site and impacted soils removed during the redevelopment of the Site.

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1.0 Introduction

SLR Consulting (Canada) Ltd. (SLR) was retained by Flato Ida Dundalk Inc. (Flato) to complete a Phase II Environmental Site Assessment (Phase II ESA) of a property that is referred to as 752212, 752226 and 752240 Ida Street located in Dundalk, Ontario (referred to as the "Site"). The Site is located at the northwest corner of Ida Street and Grey Road 9 (also know as Main Street West). The purpose of the Phase II ESA was to assess soil and groundwater quality in the areas of potential environmental concern (APECs) identified in the SLR Phase I ESA (SLR, 2024a) and determine if they should be considered areas of environmental concern (AECs). The Site includes three residential properties along Ida Street. **Figure 1** presents the general Site location. **Figure 2** presents further details related to the Site.

As part of the environmental due diligence process, SLR completed the Phase I ESA in May 2024 and it is reported under separate cover.

This Phase II ESA was completed in general accordance with the Canadian Standards Association (CSA) Phase II Environmental Site Assessment, Z769-00 (April 2013).

1.1 Scope of Work

The scope of work completed as part of the Phase II ESA included:

- Development of a Health and Safety Plan;
- Completion of an Ontario One Call request, and initiation of private locates;
- Drilling of boreholes to be completed as monitoring wells;
- Collection of soil samples from a total of selected boreholes;
- Development and sampling of a selected groundwater monitoring well;
- Submission of collected soil and groundwater samples for laboratory analysis of potential contaminants of concern associated with the APECs identified;
- Analysis of representative collected soil and groundwater samples for laboratory analysis of potential contaminants of concern (PCOC) associated with the APECs identified in the Phase I ESA (SLR, 2024a); and
- Assessment of the data documentation of the findings and conclusions in this report.

1.2 Previous Environmental Investigations

SLR completed a Phase I ESA at the Site in February 2022 as part of the environmental due diligence acquisition process. The Phase I ESA did not include any previous environmental investigation summaries as no reports were provided to SLR for review. Based on the Phase I ESA, SLR identified the following APECs at the Site:

- **APEC-1** – The Site has currently and historically been used for agricultural purposes and therefore, there is potential for pesticide contamination across the Site.
- **APEC-2** – Due to the age of the residential dwelling located at 752212 Ida Street, it is likely that an oil storage tank used for heating could be located underground.
- **APEC-3 –** Storage tanks of unknown contents are present approximately 90 m northeast from the Site and is inferred to be upgradient of the regional groundwater flow direction.

1.3 Report Organization

This Phase II ESA has been organized into seven sections:

- Section 1 Introduction
- Section 2 Background
- Section 3 Methodology
- Section 3 Results and Discussion
- Section 4 Conclusions
- Section 5 Recommendations
- Section 6 Closure

The Figures and Tables follow the text of the report. The supporting reference materials have been appended to the report in **Appendices A and B**, containing Borehole Logs, and Laboratory Certificates of Analysis, respectively.

2.0 Background

2.1 Site Description

The proposed Flato Ida residential subdivision lies on lands legally described as Parts of Lots 228, 229 and 230, Range 3 West of the Toronto and Sydenham Road Geographic Township of Proton, Township of Southgate, County of Grey. The Site is bounded by Grey Road 9 to the southeast and Ida Street to the northeast (**Figures 1 and 2**). Agricultural and vacant land is present to the northwest, with a forested area and associated wetland to the southwest. The Site as well as the surrounding area is used primarily for agricultural purposes, with scattered rural residences. The Site is approximately 33.7 hectares in size.

The Site has historically and is currently being used for agricultural purposes. There are three residential properties on the Site accessible from Ida Street.

2.2 Geology

2.2.1 Regional Geology

The Site is located in the physiographic region of the Dundalk Till Plain. Two physiographic landforms can be observed on the Site. The main portion of the Site consists of Drumlinized Till Plains and the central portion of the Site is part of a Drumlin landform. The Site consists of three residential properties along Ida Street and open fields with a wooded area covering the southwestern portion of the Site. The topography is relatively flat, though the Site is approximately 1 m lower in elevation than the adjacent Grey Road 9 near the corner and increases to approximately 3 m as you continue southwest.

Regional surficial and bedrock geology information was obtained from the Ontario Geological Survey (OGS). The OGS mapping indicates that two types of surficial geology may be present at the Site. The southwestern portion of the Site is more likely to include glaciofluvial sandy deposits, mainly river deposits and delta topset facies. This surficial geology may also be observed in the northeastern portion of the Site. The remaining areas of the Site include mostly a stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain. The surficial geology thickness is anticipated to be approximately 30 meters.

The regional bedrock geology, as indicated by the OGS, is of the Guelph Formation; from the Lower Silurian period characterized by sandstone, shale, dolostone and siltstone.

2.2.2 Site Geology

Based on a review of the Ontario Geological Survey mapping (OGS, 2010), the surficial geology of the Site is primarily Elma Till, which is characterized as a stone-poor sandy silt to silty sand till. Localized glaciofluvial sand deposits are found along the western property boundary, and within the wetland area south of Grey County 9.

Surficial geology of the Site was also characterized by advancing boreholes at select locations across the property as part of the concurrent hydrogeological assessment (reported under separate cover). Borehole logs are provided in **Appendix A**.

Based on the results of the drilling program, a relatively thin (1–2 m thick) sand to silty sand unit was located at surface overlain by topsoil. At select locations (MW22-405, MW22-406, MW22-408), a discontinuous sandy gravel layer was encountered between 510.6 masl to 502.0 masl.

A till unit was found underlying the sand to silty sand unit. The till unit is composed of sandy silt to silty sand material and was located at approximately 516.3 masl (MW22-401) to 506.2 masl (MW22-406). Interbedded within the till unit are discontinuous sand to sandy gravel lenses. The upper 3 to 5 m of the till unit is weathered, and shows root structures, fractures, and oxidized soils. This more permeable weathered soil hosts the water table, primarily due to poor drainage to depth. The glacial till is estimated to be approximately 35 m thick underneath the Site. The glacial till material serves as an aquitard protecting the underlying bedrock aquifer due to its low permeability and substantial thickness. The subsurface materials encountered during the drilling program consisted of topsoil followed generally by a medium to coarse sand to an approximate depth of 1 to 2 mbg. The medium to coarse sand was underlain by a fine sand, that generally extended to the end of the boreholes. MW22-404 did not encounter a fine sand and instead was observed to have a gravelly sand extend down to approximately 4 mbg and was underlain by a silty sand.

No discolouration and/or olfactory evidence of subsurface impacts were observed during the sampling activities.

2.3 Hydrogeology

2.3.1 Regional Hydrogeology

There is a small pond south of 752226 Ida Street with a stream that extends southeast from the pond. An additional unnamed stream originates in the central portion of the Site and flows southeast off the Site. The regional hydrogeology is assumed to follow the same flow path as surrounding streams, and flow towards the south of the Site and eventually into the Grand River.

Groundwater flow at the Site may differ from the regional scale because of the presence of buried utilities, subsurface infrastructure, storm sewers, and potential anthropogenic fill.

2.3.2 Site Hydrogeology

Groundwater level measurements were recorded at each monitoring well monthly from May 2022 to March 2023. These measurements were taken prior to, and post groundwater purging to assess and document that readings were indicative of static groundwater conditions. No

evidence of olfactory and/or visual signs of hydrocarbon-like and/or solvents were noted during groundwater purging and sampling activities.

The interpreted groundwater contours for spring 2023, representing a generally high-water table position, are presented in **Figure 3**. Water levels during spring conditions are of particular interest as it typically represents the highest groundwater elevations and will therefore more likely to intersect impacted soil at depth of fuel tank (if impacts were present). The interpreted groundwater flow direction is primarily in southwesterly direction along the west portion of the Site and a southeasterly direction along the east portion of the Site. It is noted that there is a watershed drainage divide that runs through the centre of the Site in a north-south direction.

3.0 Methodology

3.1 Health & Safety

A site-specific health and safety plan (HASP) was developed based on SLR and standard industry practice prior to initiating the field activities. The plan included policies and procedures to protect workers and the public from potential hazards posed by Site investigation activities. It outlined the general scope of work, necessary personal protective equipment, site control, and decontamination procedures. The HASP also included a contingency plan that identified emergency contact names, numbers, procedures, and the location of the nearest emergency medical facilities. Tailgate health and safety meetings were conducted at the beginning of each workday to confirm that all on-site SLR personnel and subcontractors reviewed the HASP and work plan for the day and that appropriate hazard controls were in place.

3.2 Utility Locates

SLR completed a Ground Disturbance Permit (GDP) that included both public and private locates. The underground utilities/structures were identified by both public and private utility locators prior to commencement of intrusive field activities. SLR contacted Ontario One Call and retained All Clear Locates Ltd. to complete private utility locates for the Site. Public and private utility locates were reviewed prior to the start of drilling activities at each borehole location to ensure that permits were valid. The clearance forms were retained on site for the duration of the drilling activities.

3.3 Drilling Activities

SLR retained Geo-Environmental Drilling Inc. (Geo-Environmental), a MECP licensed driller located in Halton Hills, Ontario to undertake the drilling activities at the Site under the monitoring and documentation of SLR between April and May 2022. Track-mounted drill rigs with 0.22 m (9’’) outer diameter hollow stem augers were utilized at the Site to complete the locations.

The drilling program was developed for the assessment of the APECs identified in the Phase I ESA (SLR, 2024a) and was completed concurrently with the Hydrogeological Assessment field program (reported under separate cover). One borehole location (ESA-1, near APEC-2 and APEC-3) was completed specifically for the Phase II ESA. The remaining locations were shared for both this Phase II ESA and the concurrent Hydrogeological Assessment.

The table below summarizes the field investigation program related to the APECs and potential contaminants of concern (PCOCs).

Table 3-1: Field Investigation Program

APEC	Drilling Location	PCOCs
APEC-1: Current and/or Historical Pesticide use	MW22-401, MW22-404, MW22-405D and MW22-408	Metals, inorganics, and pesticides in soil
APEC-2: Potential current and/or historical use of fuel oil at 752212 Ida Street (Site)	ESA-1	Metals and inorganics and petroleum hydrocarbons (PHCs) in soil and groundwater
APEC-3: Northeast corner of the Site UST	ESA-1	PHCs, polycyclic aromatic hydrocarbons (PAHs) and metals in soil and groundwater

The location of the boreholes advanced as part of the field activities are shown in **Figure 2,** and the borehole logs for each of those locations are shown in **Appendix A.**

3.3.1 Boreholes

A total of ten borehole locations (ESA-1 and MW22-401 to MW22-408) were completed at the Site during the drilling activities, with one borehole (ESA-1) completed solely as part of this Phase II ESA to investigate APEC-2 and APEC-3 and the remaining nine boreholes completed for the hydrogeological assessment. All boreholes were advanced using hollow stem augers with split spoon sampling at 0.76 m intervals.

Five of the monitoring well locations completed for the hydrogeological assessment were selected for the collection of soil samples to investigate APEC-1 as part of this Phase II ESA:

- ESA-1
- MW22-401
- MW22-404
- MW22-405D
- MW22-408

The borehole locations were advanced to varying depths of approximately 6.1 to 10.7 meters below ground (mbg). The borehole logs for each of these locations are shown in **Appendix A.**

3.3.2 Monitoring Well Installation

All aforementioned boreholes were completed as monitoring wells. The monitoring wells were completed with 50 mm diameter PVC pipe, a 1.5 m- length No. 10 machine slotted screen (a 3.05 m-length was used at ESA-1) and fitted with a J-Plug. The annulus around the screens were backfilled with No. 2 well sand to approximately 0.3 m above the screen.

The presence of underground locates and mature deciduous trees along the northwest side of Ida Street prevented the installation of a monitoring well proposed to be completed between the residential buildings (752212 Ida Street) and Ida Street. This location was to assess the soil and groundwater quality closer to APEC-3. Therefore, ESA-1 was utilized to assess APEC-2 and assist in assessing APEC-3.

3.4 Soil Sampling

Soil sampling was completed using standard split-spoon techniques. SLR examined the retrieved split spoons and recorded soil stratigraphy, moisture content, colour, appearance, discolouration and olfactory evidence or signs of impact, and general soil properties in general accordance with the Unified Soil Classification System.

Soil samples were inspected for visual or olfactory evidence of impacts and selected based on professional judgement. The selected representative soil samples were submitted under Chain of Custody (COC) protocol to Bureau Veritas Laboratories (BVL) in Mississauga, Ontario and analyzed for contaminants associated with the APECs (including metals and inorganics, PAHs, polychlorinated biphenyls (PCBs), pesticides and/or PHC parameters).

3.5 Groundwater Monitoring, Development and Sampling

SLR measured the groundwater levels in each monitoring well using a Heron™ interface probe on April 28 and May 2, 2022. Prior to monitoring, the interface probe was assessed for proper operation, cleaned with an Alconox™ solution and rinsed with deionized water between locations to prevent cross-contamination.

Prior to groundwater sampling, the monitoring wells were developed to obtain groundwater samples representative of the water bearing formation. Each monitoring well was developed to remove a minimum of three well volumes or purged dry three times. The purged water was disposed of on-site following sample collection.

SLR sampled groundwater from one monitoring well (ESA-1). The sample was obtained using the low-flow sampling method summarized below.

A peristaltic pump with low density polyethylene (LDPE) tubing and silicon tubing were used to extract water from the monitoring wells. The end of the LDPE tube was placed in the centre of the saturated screen interval and was connected to a piece of silicon tubing which was placed in the peristaltic pump to allow the water to be removed from the well. Another piece of LDPE tubing was connected from the pump to a water quality meter (Horiba-U52) and low-flow sampling procedures were followed. The water quality meter, equipped with a flow through cell, was used to gauge geochemical parameters including temperature, pH, conductivity, dissolved oxygen (DO), and turbidity. Groundwater was purged from the wells until stabilization criteria were met and subsequently sampled.

The groundwater sample was collected in laboratory prepared sample containers with the appropriate preservatives added. The sample for metals analysis was field filtered using a 0.45-micron inline disposable filter prior to discharge of the groundwater sample into the laboratory supplied container. The groundwater sample was placed in an ice filled insulated cooler and submitted to BVL under COC protocol. The groundwater sample was submitted for analysis of metals and inorganics, PAHs and PHCs parameters, the PCOCs associated with the APECs (APEC-2 and APEC-3).

3.6 Laboratory Analysis

Soil and groundwater samples were submitted to BVL in Mississauga, Ontario. BVL is accredited by the Canadian Analytical Laboratory Association (CALA) for the specific environmental tests required as part of this project. BVL performed the chemical analysis in compliance with the MECP Laboratory Service Brand, Protocol for Analytical Methods used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (as

amended). Analytical methods used by the laboratory are described in the Certificate of Analysis (CoA) presented in **Appendix B**.

3.7 Quality Control and Quality Assurance (QA/QC)

Field procedures were implemented to minimize the potential for cross contamination between sampling locations and intervals, such as using disposable and/or dedicated equipment when possible. Sample handling protocols were established to track and maintain the integrity of the samples. COC forms were completed for samples selected for submission to the laboratory. Samples were shipped for analyses within the recommended time requirements. COC forms accompanied each sample shipment.

BVL is a CALA accredited laboratory that uses regulatory and industry recognized methods to conduct laboratory analyses. As conveyed by the laboratory, method blanks, control standards samples, certified reference material standards, method spikes, replicates, duplicates, and instrument blanks are routinely analyzed as part of their quality assurance/quality control (QA/QC) programs.

Blind field duplicates were submitted to the laboratory for analysis to assist in assessing the effect of field sampling and sample shipping methodologies on the accuracy and precision of the analytical results. Two field duplicates for soil samples were submitted for analysis of PCBs, metals and/or inorganics. The relative percent difference (RPD), which is the absolute difference between the duplicate and parent sample, was used to evaluate the sample result variability. The RPD cannot be calculated when the concentration of a parameter is less than five times the reportable detection limit (RDL).

3.8 Selection of Regulatory Standards

The Ontario Soil, Groundwater and Sediment Standards (MECP 2011) provide land-use specific standards for soil, groundwater and sediment (MECP Standards) for use under Ontario Regulation 153/04 (and all subsequent amendments) as referenced in Section XV.1 of the Environmental Protection Act (“O.Reg.153/04 (as amended)”). Selection of the appropriate MECP Standards is based on land use, site characteristics (including soil texture) and potable water use. A summary of the considerations in the selection of the generic MECP Standards are described in the **Table 3-2** below.

Table 3-2: Site Condition Standard Selection

Site Characteristic	Site-specific Description
Applicable Land Use	The Site is currently used for agricultural and residential purposes. The future land use is anticipated to be residential or commercial.
Sensitive Land Use	Measured pH values were within the range of non-sensitive sites as defined in O.Reg.153/04 (as amended). No additional Areas of Natural and Scientific Interest (ANSI) are located within 30 m of the Site. As such the Site is not considered a sensitive land uses under Section 41 of O.Reg.153/04 (as amended).
Distance to the Nearest Downgradient Waterbody	There are several unnamed tributaries that flow off-site. The nearest named surface water body is the Grand River located approximately 3 km southeast.
Shallow Soil Condition	The depth to bedrock is greater than 2 mbg, as such, the Site is not considered a shallow soil site under O.Reg.153/04 (as amended).
Potable groundwater condition	Potable water is derived from a groundwater source.
Soil texture	Based on field observations, the soils are considered to be fine to medium textured.

Based on this information, SLR selected the MECP Table 2 for fine to medium textured soils within a residential land use to be the applicable SCS for the Site (Table 2 SCS).

4.0 Results and Discussion

4.1 Analytical Results

4.1.1 Soil

Soil samples from the intrusive sampling locations including representative blind field duplicates were submitted for laboratory analysis of metal and inorganics, PHCs, pesticides & herbicides, PCBs, and PAHs. The analyzed soil samples met the MECP Table 2 SCS. A summary of the soil results is presented in **Figure 4**.

The soil results and applicable standards are presented in **Table C.1** and the laboratory analytical certificates are included in **Appendix B**.

4.1.2 Groundwater

One groundwater sample was submitted for laboratory analysis of PHCs, VOCs, PAHs metals and/or inorganics. The analyzed soil samples met the MECP Table 2 Standards. A summary of the groundwater results is presented in **Figure 5.** The groundwater results and applicable standards are presented in **Table C.2** and the laboratory analytical certificates are included in **Appendix B**.

4.2 Quality Assurance/Quality Control

A QA/QC program was followed to assess and document that the sampling and analytical data were interpretable, meaningful, and reproducible. Two stages of QA/QC were completed, with one stage completed by the laboratory and the other as part of the Standard Field Procedures conducted by SLR.

SLR's adopted criteria for the relative percent difference is 50% for PAHs, and 40% for metals, inorganic, and VOCs parameters in soil. Based on the soil RPD results, all parameters were below the RPD criteria and are therefore considered reliable. RPD could not be calculated for groundwater due to the concentrations being less than five times the reported detection limit.

5.0 Conclusions

Based on the results of the Phase II ESA, the following is concluded for the Site:

- The Phase I ESA previously identified three APECs which were assessed during the Phase II ESA activities.
- A relatively thin (1-2 m thick) sand to silty sand unit was located at surface overlain by topsoil. At select locations, a discontinuous sandy gravel layer as encountered between 510.6 masl to 502.0 masl.
- A till unit was found underlying the sand to silty sand unit composed of sandy silt to silty sand material and was located at approximately 516.3 masl to 506.2 masl.
- The interpreted groundwater contours for spring 2023, representing a generally high-water table position is primarily in southwesterly direction along the west portion of the Site and a southeasterly direction along the east portion of the Site. It is noted that there is a watershed drainage divide that runs through the centre of the Site in a north-south direction.
- The soil samples met the MECP Table 2 Standards for metals, inorganics, pesticides, PHCs, PCBs, and PAHs.
- The groundwater sample collected met the MECP Table 2 Standards for metals, inorganics, PHCs, and PAHs.
- Based on the results of the Phase II ESA, no additional soil investigations and/or remediations are required to meet the MECP Table 2 Standards.
- Subsequent to the soil sampling and groundwater sampling in Spring 2022, two properties were purchased: in the southeast corner of the site and directly to the west of Maple Grove cemetery. These parcels of land have not been assessed and the soil and groundwater quality within these parcels is unknown.

6.0 Recommendations

The following is provided for Flato's consideration with respect to the proposed residential development of the Site:

- **Excess Soil** - As the movement of excess soil will be required at the Site during construction a soil management plan will be required to confirm suitable quality of fill materials to be used in accordance with Ontario's Excess Soil Management Regulation (O.Reg.406/19).
- **Onsite Wells** – Potential existence of an onsite potable water well associated with the residential dwellings on Site; as well as the newly installed monitoring wells should be decommissioned when no longer required, as per O.Reg.903.
- **Designated Substances** - Due to the age of the Site structures the presence of asbestos or lead-based paint is possible at and in the area of the possible building

foundation which remains on Site. A designated substance survey is recommended prior to any building construction or demolition activities are identified on the Site.

- **Septic Bed** - Tile bed(s) and septic tank(s) associated with the former Site structures and three residential homes may be present and have the potential to contain bacterial and nutrient (nitrate, ammonia) related contaminants. All septic systems and associated tile beds, if still present, should be decommissioned at the Site and impacted soils removed during the redevelopment of the Site.

7.0 Closure

We trust that this report satisfies your requirements at this time.

Sincerely,

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8.0 References

Canadian Standards Association, April 2003. Phase II Environmental Site Assessment, Z769-00, reaffirmed 2018.

SLR Consulting (Canada) Ltd. 2024a. Phase I Environmental Site Assessment for Ida Street, Dundalk, Ontario. April 30, 2024.

SLR Consulting (Canada) Ltd. 2024b. Hydrogeological and Water Balance Assessment for Flato Ida Street Residential Subdivision, Dundalk, Ontario. April 30, 2024.

Tables

Phase II Environmental Site Assessment

752212, 752226 and 752240 Ida Street, Dundalk, Ontario

Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 22, 2024

TABLE 1: SOIL ANALYTICAL RESULTS

						BTEX & F1 Hydrocarbons								Calculated Parameters									F2-F4 Hydrocarbons				Inorganics				
						Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Mixture	Petroleum Hydrocarbons F1	Petroleum Hydrocarbons F1 (less BTEX	Methylnaphthalene, 2-(1-)	Sodium Absorption Ratio	Chlordane	DDD	DDE	DDT	Endosulfan	Polychlorinated Biphenyls	Petroleum Hydrocarbons F2	Petroleum Hydrocarbons F3	Petroleum Hydrocarbons F4	Reached Baseline at C50	Electrical Conductivity (mS/cm)	Moisture	pH (Lab)	Chromium VI	Cyanide (Free)
						µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	N/A	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	N/A	mS/cm	%	pH Units	µg/g	µg/g
EQL						0.02	0.02	0.02	0.02	0.04	0.04	10	10	0.0071		0.002	0.002	0.002	0.002	0.002	0.015	10	50	50		0.002	1		0.18	0.01
ON Soil Table 2 R/P/I Potable Fine						0.17	6	1.6			25	65[#1]	65[#1]	3.4	5	0.05	3.3	0.33	1.4	0.04	0.35	150	1300	5600		0.7		5-9[#2]	10	0.051
Monitoring_Zone	**Location_Code**	**Field_ID**	**Sample_Depth_Rang**	**Sampled_Date_Time**																											
Ida Street	ESA-1	DUP-1C	0.762-1.524	4/13/2022		-	-	-	-	-	-	-	-	-	0.22[#3]	-	-	-	-	-	-	-	-	-	-	0.19	19	7.19	<0.18	<0.01
		ESA-1_2.5-5				<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<10	<10	<0.0071	0.26[#3]	-	-	-	-	-	-	<10	<50	<50	Yes	0.16	12	7.91	<0.18	<0.01
		ESA-1_5-7.5	1.524-2.286	4/13/2022		<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<10	<10	<0.0071	0.48	-	-	-	-	-	-	<10	<50	<50	Yes	0.14	10	7.96	<0.18	<0.01
	MW22-401	MW22-401_2.5-5	0.762-1.524	4/13/2022		-	-	-	-	-	-	-	-	-	0.25[#3]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.015	-	-	-	-	0.17	14	7.51	<0.18	<0.01
	MW22-404	DUP-1B	0.762-1.524	4/13/2022		<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<10	<10	-	-	-	-	-	-	-	-	<10	89	<50	Yes	-	11	-	-	-
		MW22-404_2.5-5				-	-	-	-	-	-	-	-	-	0.21[#3]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.015	-	-	-	-	0.2	21	7.35	<0.18	<0.01
	MW22-405D	DUP-1A	0.762-1.524	4/12/2022		-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.015	-	-	-	-	-	11	-	-	-
		MW22-405_2.5-5				-	-	-	-	-	-	-	-	-	0.33[#3]	<0.002	<0.002	<0.002	<0.002	<0.002	<0.015	-	-	-	-	0.099	12	7.83	<0.18	<0.01
	MW22-408	MW22-408_0-5	0-1.524	4/17/2022		-	-	-	-	-	-	-	-	-	0.7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.015	-	-	-	-	0.14	10	7.63	3.3	<0.01

Env Stds Description

ON Soil Table 2 R/P/I Potable Fine:Ontario Soil Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition, Residential/Parkland/Institutional Property Use, Medium to Fine.

Env Stds Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

#2:The acceptable pH range for surface soils (≤1.5 mbgs) is 5-9 and subsurface soils (>1.5 mbgs) is 5-11. If pH value is outside the range, the MECP Table 1 Background Standards may have to be used as the site is considered environmentally sensitive.

Data Comments

#3 Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

TABLE 1: SOIL ANALYTICAL RESULTS

					Metals																					Pesticides & Herbicides													
					Antimony	Arsenic	Barium	Beryllium	Boron (Hot water soluble)	Boron (Total)	Cadmium	Chromium Total	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Hexachlorobutadiene	Hexachloroethane	Aldrin	Dieldrin	Chlordane (cis)	Chlordane (trans)	2,4-DDD	4,4-DDD	2,4-DDE	4,4-DDE	2,4-DDT	4,4-DDT
					µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL					0.2	1	0.5	0.2	0.05	5	0.1	1	0.1	0.5	1	0.05	0.5	0.5	0.5	0.2	0.05	0.05	5	5	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
ON Soil Table 2 R/P/I Potable Fine					7.5	18	390	5	1.5	120	1.2	160	22	180	120	1.8	6.9	130	2.4	25	1	23	86	340	0.014	0.07	0.05	0.05										
Monitoring_Zone	**Location_Code**	**Field_ID**	**Sample_Depth_Range**	**Sampled_Date_Time**																																		
Ida Street	ESA-1	DUP-1C	0.762-1.524	4/13/2022	<0.2	1.9	25	0.26	0.054	<5	0.1	12	3.2	6.2	5.7	<0.05	<0.5	6.3	<0.5	<0.2	0.053	0.42	28	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ESA-1_2.5-5			<0.2	2.5	21	0.21	0.087	5.1	<0.1	8.6	2.7	8.1	7.2	<0.05	<0.5	5.8	<0.5	<0.2	<0.05	0.38	15	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ESA-1_5-7.5	1.524-2.286	4/13/2022	<0.2	2.4	17	<0.2	0.079	6.1	<0.1	7.2	3.1	9.4	7.7	<0.05	<0.5	6.4	<0.5	<0.2	<0.05	0.39	10	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW22-401	MW22-401_2.5-5	0.762-1.524	4/13/2022	<0.2	3.1	22	0.27	0.13	5.9	0.14	9.8	3.8	12	9.4	<0.05	<0.5	7.7	<0.5	<0.2	0.053	0.37	15	41	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	MW22-404	DUP-1B	0.762-1.524	4/13/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MW22-404_2.5-5			<0.2	1.9	26	0.28	0.063	<5	0.11	12	3.4	6.6	5.6	<0.05	<0.5	6.5	<0.5	<0.2	0.051	0.44	27	20	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	MW22-405D	DUP-1A	0.762-1.524	4/12/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
		MW22-405_2.5-5			<0.2	2.4	19	<0.2	<0.05	5.2	<0.1	6.8	2.7	9	5.3	<0.05	<0.5	6.2	<0.5	<0.2	0.066	0.39	13	27	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	MW22-408	MW22-408_0-5	0-1.524	4/17/2022	<0.2	2.4	24	0.22	<0.05	5.7	<0.1	9.4	3.4	10	7	<0.05	<0.5	7.2	<0.5	<0.2	0.055	0.37	16	34	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Env Stds Description

ON Soil Table 2 R/P/I Potable Fine:Ontario Soil Table 2: Full Depth Generic Site Condition Standards in a Pote
Ground Water Condition, Residential/Parkland/Institutional Property Use, Medium to Fine.

Env Stds Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

#2:The acceptable pH range for surface soils (≤1.5 mbgs) is 5-9 and subsurface soils (>1.5 mbgs) is 5-11. If pH value is outside the range, the MECP Table 1 Background Standards may have to be used as the site is considered environmentally sensitive.

Data Comments

#3 Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

TABLE 1: SOIL ANALYTICAL RESULTS

														Pesticides & Herbicides												Polyaromatic Hydrocarbons																									
														Endosulfan I	Endosulfan II	Endrin	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorocyclohexane Gamma-	Methoxychlor	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Acenaphthylene	Acenaphthene	Anthracene	Benz[a]anthracene	Benzo[b+k]fluoranthene	Benzo[g h i]perylene	Benzo[k]fluoranthene	Benzo[a]pyrene	Chrysene	Dibenz[a h]anthracene	Fluoranthene	Fluorene	Indeno[1 2 3-cd]pyrene	Methylnaphthalene, 1-	Methylnaphthalene, 2-	Naphthalene	Phenanthrene	Pyrene
														µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL														0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.015	0.015	0.015	0.015	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
ON Soil Table 2 R/P/I Potable Fine																0.04	0.15	0.05	0.52	0.063	0.13					0.17	29	0.74	0.63		7.8	0.78	0.3	7.8	0.1	0.69	69	0.48	3.4	3.4	0.75	7.8	78
Monitoring_Zone	**Location_Code**	**Field_ID**	**Sample_Depth_Rang**	**Sampled_Date_Time**																																														
Ida Street	ESA-1	DUP-1C	0.762-1.524	4/13/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ESA-1_2.5-5			-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		ESA-1_5-7.5	1.524-2.286	4/13/2022	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	MW22-401	MW22-401_2.5-5	0.762-1.524	4/13/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW22-404	DUP-1B	0.762-1.524	4/13/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MW22-404_2.5-5			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW22-405D	DUP-1A	0.762-1.524	4/12/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MW22-405_2.5-5			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW22-408	MW22-408_0-5	0-1.524	4/17/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Description

ON Soil Table 2 R/P/I Potable Fine:Ontario Soil Table 2: Full Depth Generic Site Condition Standards in a Pote
Ground Water Condition, Residential/Parkland/Institutional Property Use, Medium to Fine.

Env Stds Comments

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#2:The acceptable pH range for surface soils (≤1.5 mbgs) is 5-9 and subsurface soils (>1.5 mbgs) is 5-11. If pH value is outside the range, the MECP Table 1 Background Standards may have to be used as the site is considered environmentally sensitive.

Data Comments

#3 Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

TABLE 2: GROUNDWATER ANALYTICAL RESULTS

				BTEX & F1 Hydrocarbons								Calculated Parameters	F2-F4 Hydrocarbons			Inorganics		Metals																				
				Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Mixture	Petroleum Hydrocarbons F1	Petroleum Hydrocarbons F1 (less BTEX	Methylnaphthalene, 2-(1-)	Petroleum Hydrocarbons F2	Petroleum Hydrocarbons F3	Petroleum Hydrocarbons F4	Chloride (Filtered)	Cyanide (Free)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Total) (Filtered)	Cadmium (Filtered)	Chromium Total (Filtered)	Chromium VI	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Silver (Filtered)	Sodium (Filtered)	Thallium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.2	0.2	0.2	0.2	0.4	0.4	25	25	0.071	100	200	200	1	0.001	0.5	1	2	0.4	10	0.09	5	0.5	0.5	0.9	0.5	0.1	0.5	1	2	0.09	0.1	0.05	0.1	0.5	5
ON GW Table 2 Potable Fine				5	24	2.4			300	750[#1]	750[#1]	3.2	150	500	500	790		6	25	1000	4	5000	2.7	50	25	3.8	87	10	1	70	100	10	1.5	490	2	20	6.2	1100
Monitoring_Zone	**Location_Code**	**Field_ID**	**Sampled_Date_Time**																																			
Ida Street	ESA-1	ESA-1	5/10/2022	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<25	<25	<0.071	<100	<200	<200	130	<0.001	<0.5	<1	43	<0.4	33	<0.09	<5	<0.5	<0.5	1.1	<0.5	<0.1	0.68	1.5	<2	<0.09	79	<0.05	0.84	<0.5	<5

Env Stds Description

ON GW Table 2 Potable Fine:Ontario Groundwater Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition, Medium to Fine

Env Stds Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

TABLE 2: GROUNDWATER ANALYTICAL RESULTS				Polyaromatic Hydrocarbons																	
				Acenaphthylene	Acenaphthene	Anthracene	Benz[a]anthracene	Benzo[b+k]fluoranthene	Benzo[g h i]perylene	Benzo[k]fluoranthene	Benzo[a]pyrene	Chrysene	Dibenz[a h]anthracene	Fluoranthene	Fluorene	Indeno[1 2 3-cd]pyrene	MethylNaphthalene, 1-	MethylNaphthalene, 2-	Naphthalene	Phenanthrene	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.009	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.05
ON GW Table 2 Potable Fine				1	4.1	2.4	1		0.2	0.1	0.01	0.1	0.2	0.41	120	0.2	3.2	3.2	11	1	4.1
Monitoring_Zone	**Location_Code**	**Field_ID**	**Sampled_Date_Time**																		
Ida Street	ESA-1	ESA-1	5/10/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05

Env Stds Description

ON GW Table 2 Potable Fine:Ontario Groundwater Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition, Medium to Fine

Env Stds Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

Figures

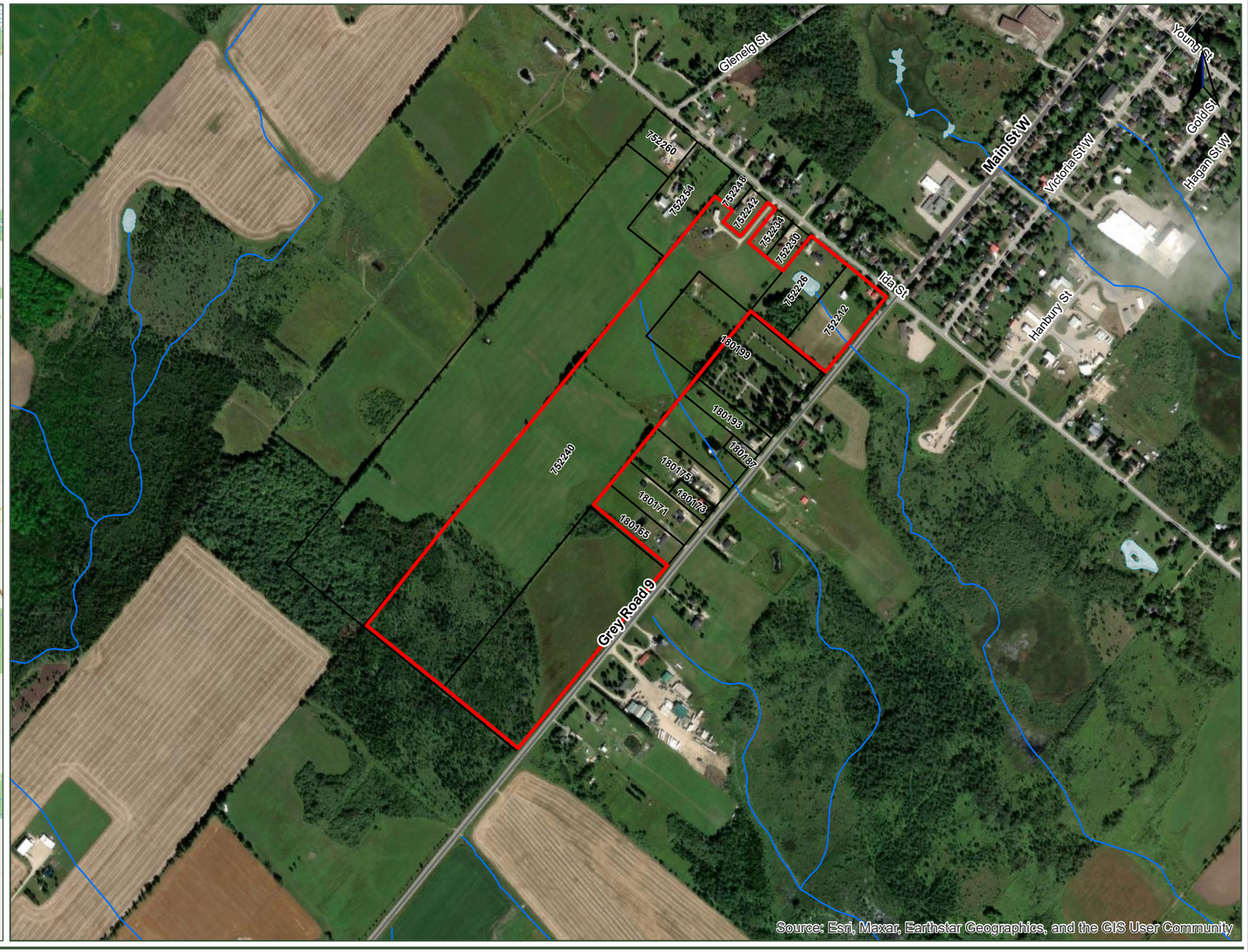
Phase II Environmental Site Assessment

752212, 752226 and 752240 Ida Street, Dundalk, Ontario

Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 22, 2024



NOTES:
DATA SOURCE: LAND INFORMATION ONTARIO

LEGEND:

SITE BOUNDARY

PARCEL

0 50 100 200 300 m

SCALE 1:10,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY
AND SHOULD NOT BE USED FOR NAVIGATION

FLATO IDA DUNDALK INC.
FLATO IDA
DUNDALK, ONTARIO, CANADA

PHASE II ENVIRONMENTAL SITE ASSESSMENT

SITE LOCATION

SLR

FIGURE NO:
1

DATE: April 26, 2024

PROJECT NO: 209.V30125.00001

Last Saved: April 26, 2024 11:24:45 AM by tgraham

GIS PATH: G:_Projects\FLATO\Dundalk\1_Maps\RPT\209_30125\Ida Street\Phase II ESA\209_v30125_01_SiteLocation_revB.mxd

546622 547122 547622 548122

4890046 4889546

Upper Grand River Watershed
Saugeen River Watershed

MW22-401
MW22-402
MW22-403
MW22-404
MW22-405-D
MW22-405-S
MW22-406
MW22-407
MW22-408
MW-6
ESA-1
MW-8
BH-4
BH-5
BH-1
MW-7-S
MW-7-D
BH-3
MW-2
MP1-D
MP1-S

Ida St
Main St W
Victoria St W
Grey Road 9

N

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER
- BOREHOLE
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE

NOTES:
BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0 50 100 200 300 m

SCALE 1:5,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY
AND SHOULD NOT BE USED FOR NAVIGATION

FLATO IDA DUNDALK INC.
FLATO IDA
DUNDALK, ONTARIO, CANADA

PHASE II ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN

SLR

FIGURE NO:
2

DATE: April 26, 2024

PROJECT NO: 209.V30125.00001

546701 547201 547701

4890111 4889611 4889111

MW22-401
517.72

MW22-402
516.69

MW22-403
514.07

MW22-404
513.80

MW22-405-D
512.00

MW22-405-S

MW22-406
511.39

MW22-407
509.37

MW22-408
509.24

MW-6
514.62

MW-8
513.66

ESA-1
513.62

MW-7-D
512.06

MW-7-S

MW-2
512.75

MP1-D
510.63

MP1-S

517 516 515 514 513 512 511 510

Main St W

Ida St

Victoria St W

Grey Road 9

N

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER
- INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION
- 513.80 GROUNDWATER ELEVATION (MARCH 28, 2023)

NOTES:

BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

GROUNDWATER ELEVATION CONTOURS AND GROUNDWATER FLOW DIRECTIONS ARE BASED ON INTERPRETATION AND EXTRAPOLATION BETWEEN MEASUREMENTS AT THE MONITORING WELL LOCATIONS SHOWN AND FOR THE DATE NOTED. AS A RESULT, THE GROUNDWATER ELEVATION CONTOURS AND GROUNDWATER FLOW DIRECTIONS ARE INFERRED BETWEEN THOSE MEASURED AT THE MONITORING WELLS AND ACTUAL GROUNDWATER LEVELS AND FLOW DIRECTIONS MAY VARY FROM THOSE SHOWN.

0 37.5 75 150 225 m

SCALE 1:4,500
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

FLATO IDA DUNDALK INC.
FLATO IDA
DUNDALK, ONTARIO, CANADA

PHASE II ENVIRONMENTAL SITE ASSESSMENT

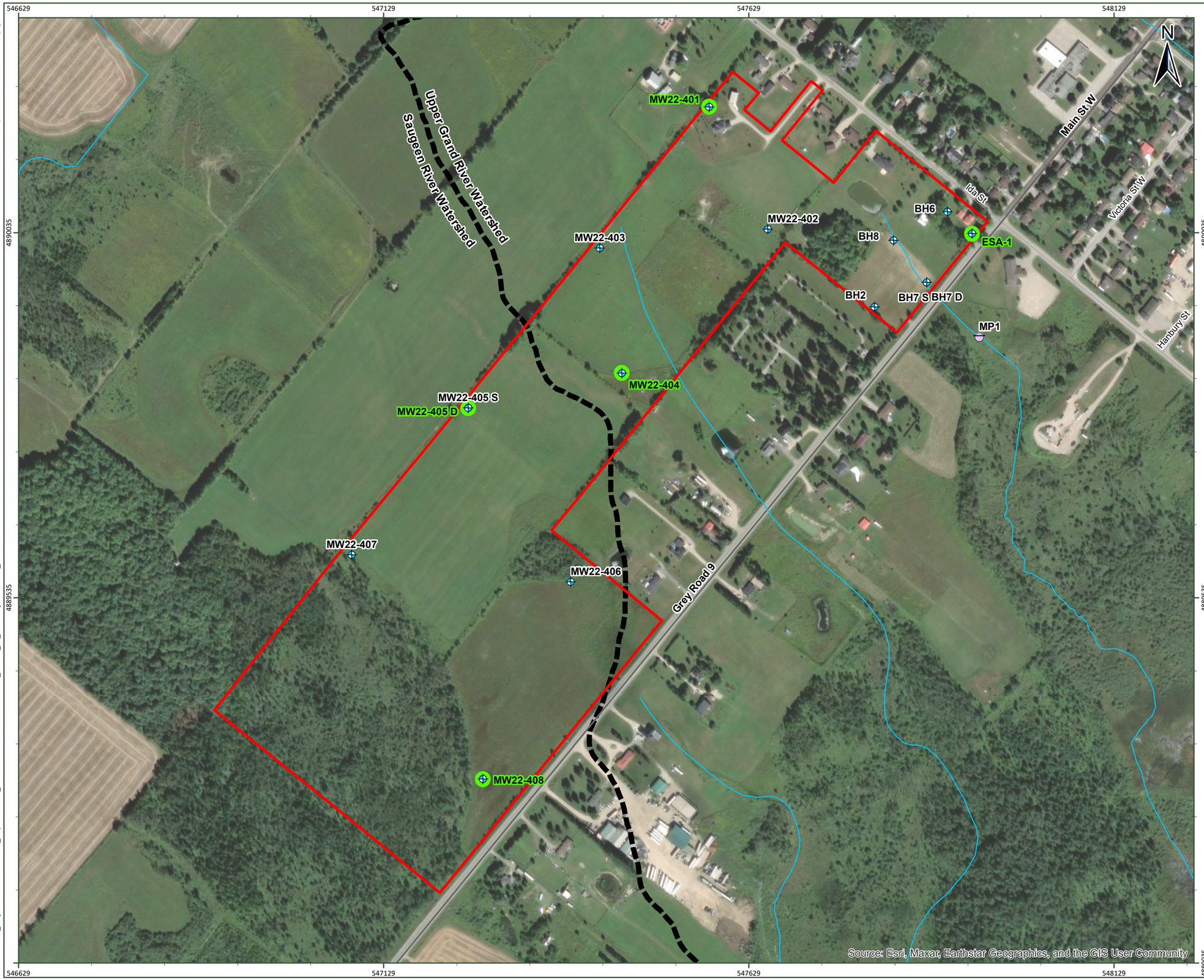
INTERPRETED GROUNDWATER FLOW DIRECTION - MARCH 2023

SLR

FIGURE NO: **3**

DATE: May 21, 2024

PROJECT NO: 209.V30125.00001



Last Saved: April 26, 2024 12:06:48 PM by tgraham

GIS PATH: G:_Projects\FLATO\Dundalk\1_Maps\RPT\209_30125\Ida Street\Phase II ESA\209_v30125_04_SummarySoilResults_revB.mxd

LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER

SOIL LABORATORY ANALYSIS RESULTS

- CONCENTRATION IS LESS THAN OR EQUAL TO MECP TABLE 2 STANDARDS FOR RESIDENTIAL/PARKLAND USE
- CONCENTRATION IS GREATER THAN MECP TABLE 2 STANDARDS FOR RESIDENTIAL/PARKLAND USE
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE

NOTES:

BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0 25 50 100 150 m

SCALE 1:5,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

FLATO IDA DUNDALK INC.
FLATO IDA
DUNDALK, ONTARIO, CANADA

PHASE II ENVIRONMENTAL SITE ASSESSMENT

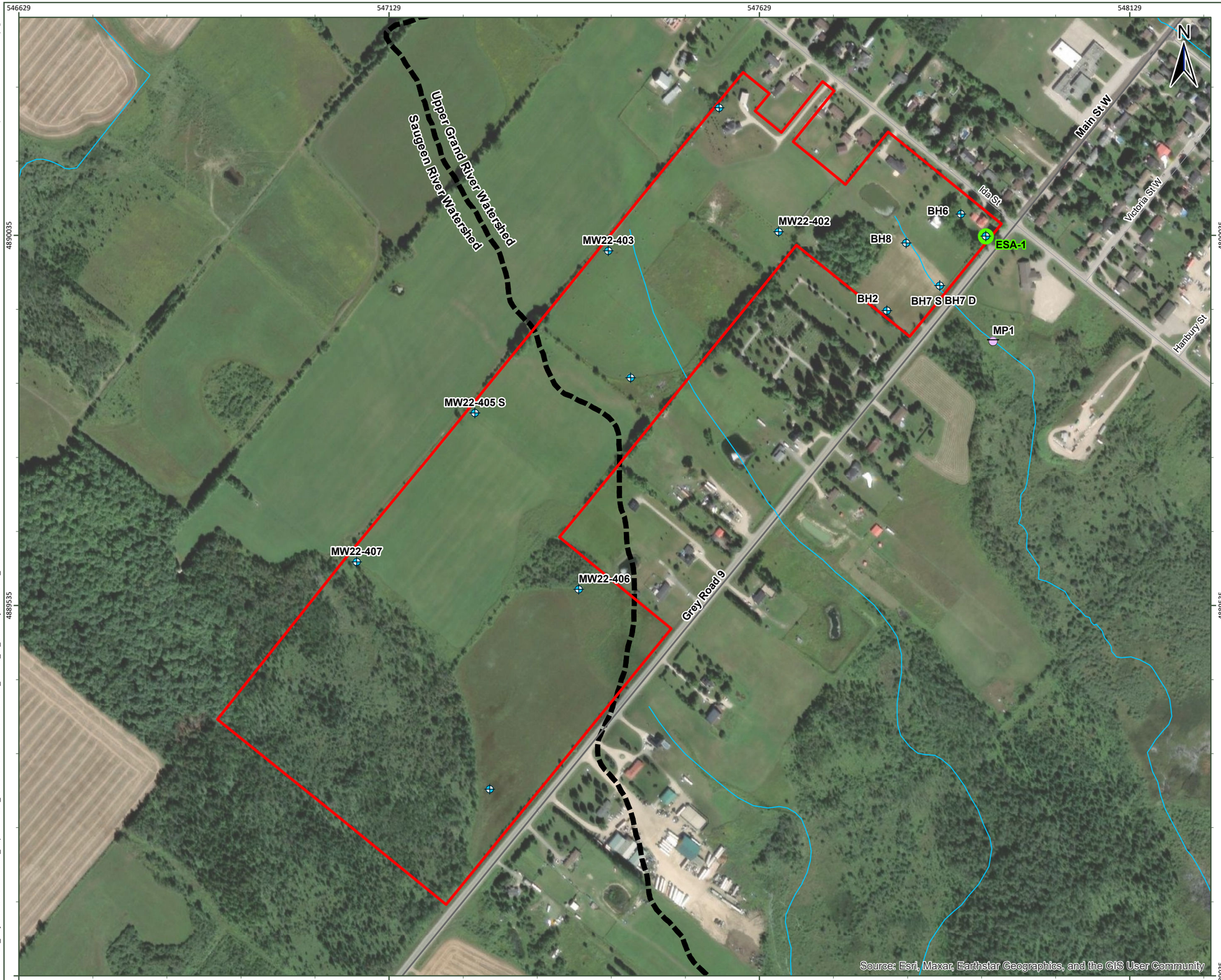
SUMMARY OF SOIL RESULTS

SLR

FIGURE NO:
4

DATE: April 26, 2024

PROJECT NO: 209.V30125.00001



LEGEND:

- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER

GROUNDWATER LABORATORY ANALYSIS RESULTS

- CONCENTRATION IS LESS THAN OR EQUAL TO MECP TABLE 2 STANDARDS FOR ALL LAND USES
- CONCENTRATION IS GREATER THAN MECP TABLE 2 STANDARDS FOR ALL LAND USES
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE

NOTES:

BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0 25 50 100 150 m

SCALE 1:5,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

FLATO IDA DUNDALK INC.
FLATO IDA
DUNDALK, ONTARIO, CANADA

PHASE II ENVIRONMENTAL SITE ASSESSMENT

SUMMARY OF GROUNDWATER RESULTS

SLR

FIGURE NO:
5

DATE: April 26, 2024

PROJECT NO: 209.V30125.00001

Appendix A Borehole Logs

Phase II Environmental Site Assessment

752212, 752226 and 752240 Ida Street, Dundalk, Ontario

Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 22, 2024

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

BOREHOLE LOG

BOREHOLE NO: **MW-2**
SURFACE ELEVATION: 513.48 m
UTM COORDINATES 4889927.942 N 547803.843 E

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE ID	% Recovery	TEST DATA: SPT Count / % Moisture	WELL COMPLETION NOTES	ELEVATION (m)
0	513.48	**TOPSOIL**	1A	65	7 / 33.7	steel casing, stickup, jplug	513
	513.25	Fine sandy silt, trace medium sand, trace roots. Dark brown, moist, soft.	1B				
		SAND Silty fine sand, trace medium sand, trace subangular to subrounded gravel. Brown with orange mottling, low plasticity, moist, loose.					
	512.72						
1	512.62	**TILL** Silty fine sand, trace medium and coarse sand, trace subangular to subrounded gravel. Light brown, low plasticity, moist, compact. At 0.86 m, change to trace clay. Medium plasticity, wet.	2	27	7 / 11.6	bentonite seal	512
			3	58	4 / 12.7		
2							
	510.91		4	75	32 / 9.4		511
	510.86	From 2.57 m to 2.62 m, cobble fragments. At 2.62 m, change to trace cobble. Moist.					
3	510.43	At 3.05 m, change to low plasticity, wet, dense.	5	100	>50 / 10.8		510
	509.82	**SAND** Medium and coarse sand, some subrounded gravel, trace fine sand, trace silt. Brown, wet, loose.				silica sand 50mm 010 slot PVC pipe	
4	509.52		6	100	>50 / 11.1		
		TILL Silty fine sand, trace medium and coarse sand, trace clay, trace subangular to subrounded gravel, trace cobble. Light brown, low plasticity, wet, dense. At 4.57 m, change to greyish brown, medium plasticity.					
	508.91		7	100	50 / 9.2	end cap	509
5							
	508.15	At 5.33 m, change to moist.	8	100	>50 / 7.9		508
6							
			9	100	>50 / 8.2		

End of borehole at 507.08 m

Well Completion Details:
Screened interval from 510.58 m to 509.06 m
Elevation at top of pipe (TOP) = 514.30 m

Groundwater Information:
Depth to groundwater from TOP = 2.09 m (8/26/2020)

Borehole backfilled with drill cuttings, moved over and redrilled to desired well depth and installed well.

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.1016 m (OD)
DRILL DATE: 2020 August 26
LOGGED BY: MW
DRILLED BY: Walker Drilling Ltd.

Notes: SPLIT SPOON

BOREHOLE LOG

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

BOREHOLE NO: **BH-5**
SURFACE ELEVATION: **513.38 m**
UTM COORDINATES: **4890024.991 N** **547910.671 E**

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count (10 20 30 40 50)	TEST DATA: % Moisture (20 40 60 80 100)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	513.38	**TOPSOIL**										513
	513.15	Fine sandy silt, trace roots. Dark brown, moist, soft.		1A								
	512.96	**SAND**		1B	100		8	14.1				
		Silty fine sand, trace medium sand, trace clay, trace subangular gravel. Light brown with orange mottling, moist, compact.						50.0				
1		**TILL**		2	13		4	10.7				512
		Fine sandy silt, trace medium and coarse sand, trace clay, trace subrounded to subangular gravel. Light brown, medium plasticity, wet, firm.										
2				3	85		10	11.5				
	511.09	At 2.29 m, change to silty fine sand, trace cobble. Moist, compact.		4	100		24	9.8				511
3											backfilled with drill cuttings	
	510.07	From 3.31 m to 3.38 m, change to fine sandy silt. Wet.		5	100		45	9				510
	509.57	At 3.81 m, change to greyish brown.		6	100		50	6.6				
4												509
				7	100		>50	6.8				
5												
				8	100		50	6.9				508
		End of borehole at 507.44 m										

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.1016 m (OD)

DRILL DATE: 2020 August 24
LOGGED BY: MW
DRILLED BY: Walker Drilling Ltd.

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

BOREHOLE LOG

BOREHOLE NO: **MW-6**
SURFACE ELEVATION: 514.77 m
UTM COORDINATES 4890069.822 N 547900.406 E

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count	TEST DATA: % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	514.77	**TOPSOIL** Fine sandy silt, trace roots. Dark brown, moist, soft.		1A	75		3	26.6			steel casing, stickup, jplug	
	514.36	**SAND** Silty fine sand, trace medium sand, trace gravel. Brown, moist, compact.		1B				15				514
	513.98	**TILL** Fine sandy silt, trace clay, trace subrounded to subangular gravel, trace clay. Light brown, wet, firm.		2	50		5	12.1				
1	513.25	At 1.52 m, change to trace medium sand.		3	83		9	9.8			bentonite seal	513
2	512.48	At 2.29 m, change to silty fine sand, trace medium and coarse sand, trace cobble. Trace orange mottling, low plasticity.		4	71		23	8.7				512
3	511.70											
	511.65	**SAND** Fine sand, trace medium and coarse sand, occasional subrounded gravel. Light brown, horizontal laminations, wet, dense.		5	82		47	9.7			silica sand 50mm 010 slot PVC pipe	511
	510.96	**TILL** Silty fine sand, trace medium and coarse sand, trace clay, trace subrounded to subangular gravel, trace cobble. Light brown with trace orange mottling, medium plasticity, wet, compact.		6A	100		50	20.9				
4	510.66	**SAND** Fine sand, trace medium sand, trace silt, occasional subrounded gravel. Light brown, wet, compact.		7	92		>50	8.7			end cap	510
	510.20	**TILL** Silty fine sand, trace medium sand, trace subrounded to subangular gravel, trace cobble. Light brown, low plasticity, wet, dense. At 4.57 m, change to trace clay. Greyish brown, medium plasticity.		8	100		50	7.9			backfilled with bentonite	
5												509
6				9	100		>50	8.8				

End of borehole at 508.52 m

Well Completion Details:
Screened interval from 511.87 m to 510.35 m
Elevation at top of pipe (TOP) = 515.54 m

Groundwater Information:
Depth to groundwater from TOP = 1.72 m (8/26/2020)

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.1016 m (OD)
DRILL DATE: 2020 August 24
LOGGED BY: MW
DRILLED BY: Walker Drilling Ltd.

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

BOREHOLE LOG

BOREHOLE NO: **MW-7-D**
SURFACE ELEVATION: 512.05 m
UTM COORDINATES 4889968.18 N 547878.55 E

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count	TEST DATA: % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	512.05	**TOPSOIL**									steel casing, stickup, jplug	512
	511.85	Fine sandy silt, trace roots. Dark brown, moist, soft.		1A	83		2	48.1				
		SILT		1B				19.4				
	511.44	Sandy silt, trace clay, trace gravel. Brown with orange mottling, moist, firm.										
1		**TILL**		2	33		5	12.4				511
		Silty fine sand, trace medium sand, trace clay, trace subrounded to subangular gravel. Light brown, medium plasticity, moist, compact.										
	510.53	At 1.52 m, change to wet.										
	510.35	At 1.70 m, change to some gravel, trace cobble. Low plasticity.		3	46		17	8.1				
2												510
	509.76	**SAND**									bentonite seal	
	509.60	Coarse sand, some subrounded to subangular gravel, trace medium sand, trace fine sand. Light brown, wet, loose.		4A	83		34	13.4				
3		**TILL**										509
		Silty fine sand, trace medium sand, trace clay, trace subrounded to subangular gravel, trace cobble. Light brown, low plasticity, wet, compact.		5	78		>50	8.6				
	508.24	At 3.81 m, change to greyish brown.		6	92		50	8.6				
4												508
	507.28	At 4.78 m, change to moist, dense.		7	100		>50	7.5				
5											silica sand 50mm 010 slot PVC pipe	507
	506.41	**SAND**		8A	100		>50	9.0				
	506.11	Fine sand, trace medium sand, trace silt, occasional subrounded gravel. Light brown, non plastic, moist, compact.										
6												506
		TILL		9	100		>50	8.7			end cap	
		Silty fine sand, trace medium sand, trace clay, trace subrounded to subangular gravel, trace cobble. Greyish brown, low plasticity, moist, dense.										
		End of borehole at 505.78 m										

Well Completion Details:
Screened interval from 507.45 m to 505.93 m
Elevation at top of pipe (TOP) = 512.69 m

Groundwater Information:
Depth to groundwater from TOP = 1.08 m (8/26/2020)

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.1016 m (OD)
DRILL DATE: 2020 August 24
LOGGED BY: MW
DRILLED BY: Walker Drilling Ltd.

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

BOREHOLE LOG

BOREHOLE NO: MW-7-S
SURFACE ELEVATION: 512.07 m
UTM COORDINATES 4889968.18 N 547878.55 E

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
	512.07	For Lithology, see BH7D borehole log.								steel casing, stickup, jplug	512
										bentonite seal	
1											511
2										silica sand 50mm 010 slot PVC pipe	510
3										end cap	
		End of borehole at 509.02 m Well Completion Details: Screened interval from 510.70 m to 509.17 m Elevation at top of pipe (TOP) = 512.74 m Groundwater Information: Depth to groundwater from TOP = 1.13 m (8/26/2020)									

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.1016 m (OD)

DRILL DATE: 2020 August 25
LOGGED BY: MW
DRILLED BY: Walker Drilling Ltd.

Notes:

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

BOREHOLE LOG

BOREHOLE NO: **MW-8**
SURFACE ELEVATION: 513.64 m
UTM COORDINATES 4890027.264 N 547827.938 E

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	513.64	**TOPSOIL**								steel casing, stickup, jplug	
	513.45	Fine sandy silt, trace clay, trace roots. Dark brown, medium plasticity, moist, soft.		1A	58		SPT 4 / 65.1				
				1B			19.5				
	513.03	**SAND**									513
	512.81	Silty fine sand, trace medium sand, trace clay, occasional subrounded to subangular gravel. Brown with trace orange mottling, medium plasticity, moist, loose.									
1	512.75	**TILL**		2	29		6 / 13.1			bentonite seal	
		Silty fine sand, trace medium sand, trace subrounded to subangular gravel. Light brown, moist, compact.									
		SAND		3	46		9 / 11				512
		Fine sand, trace medium sand. Brown, wet, compact.									
2		**TILL**									
	511.35	Silty fine sand, trace medium sand, trace clay, trace subrounded to subangular gravel. Light brown, low plasticity, moist, compact.		4	78		>50 / 8			silica sand 50mm 010 slot PVC pipe	
		At 2.29 m, change to trace cobble fragments. Dense.									511
3	510.59	At 3.05 m, change to dry. From 3.05 m to 3.20 m, hit cobble layer.		5	100		50 / 7.2				
				6	100		50 / 5.2			end cap	510
4											
				7	83		>50 / 6.5				509
5	508.31	NO RECOVERY			0		50				
											508
6	507.70	**TILL**		9	25		50 / 4.3				
		Silty fine sand, trace medium sand, trace clay, trace subrounded to subangular gravel, trace cobble. Light brown, low plasticity, dry, dense.									
		End of borehole at 507.49 m									

Well Completion Details:
Screened interval from 511.66 m to 510.13 m
Elevation at top of pipe (TOP) = 514.51 m

Groundwater Information:
Depth to groundwater from TOP = 4.24 m (8/26/2020)

Borehole backfilled with drill cuttings, moved over and redrilled to desired well depth and installed well.

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.1016 m (OD)
DRILL DATE: 2020 August 26
LOGGED BY: MW
DRILLED BY: Walker Drilling Ltd.

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **ESA-1**
SURFACE ELEVATION: 514.16 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	514.16	**TOPSOIL** Dark brown, organics (rootlets), moist, soft		0-2.5	75.0		SPT 5				514
	513.73	**Silty SAND TILL** Fine-medium, brown, trace silt, soft, moist								bentonite seal	
1				*2.5-5 / DUP-1C	33.3		SPT 6				513
	512.64	**Silty SAND TILL** Silty, light brown, gravel (sub-angular), trace clay, dense, moist to dry		*5-7.5	70.8		SPT 12				
2											512
				*7.5-10	50.0		SPT >50				
3										silica sand 50 mm 010 slot PVC pipe	511
				10-12.5	50.0		SPT 49				
4				12.5-15	12.5		SPT >50				510
										end cap	
5				15-17.5	12.5		SPT >50				509
										bentonite seal	
				17.5-20	50.0		SPT >50				
6											

End of monitoring well at 508.06 m

Well Completion Details:
Screened interval from 512.64 m to 509.59 m
Elevation at top of pipe (TOP) = 515.16 m

Groundwater Information:
Depth to groundwater from TOP = 2.44 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: 2022 April 13
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: MW22-401
SURFACE ELEVATION: 518.60 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE ID	% Recovery	TEST DATA: SPT Count / % Moisture	WELL COMPLETION NOTES	ELEVATION (m)
0	518.60	**TOPSOIL** Dark brown, organict (rootlets), soft, moist				silica sand	
	518.32	**SAND** Fine-medium, some gravel, some silt, brown, soft, moist	0-2.5	45.8	4		518
1			*2.5-5	33.3	8		
			*5-7.5	50.0	8		517
2	516.31	**Silty SAND TILL** Silty fine sand, gravel (sub-angular/sub-rounded), orange mottling, light brown, dense, dry				bentonite seal	
			7.5-10	83.3	33		516
3			10-12.5	75.0	48		
	514.79	No orange mottling, wet, loose					515
4			12.5-15	58.3	40		
			15-17.5	29.2	>50		514
5						silica sand 50 mm 010 slot PVC pipe	
			17.5-20	0	>50		513
6						end cap	

End of monitoring well at 512.50 m

Well Completion Details:
Screened interval from 514.03 m to 512.50 m
Elevation at top of pipe (TOP) = 519.50 m

Groundwater Information:
Depth to groundwater from TOP = 4.28 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 13
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **MW22-402**
SURFACE ELEVATION: 516.82 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	516.82	**TOPSOIL** Brown, moist, soft		0-1	50.0		SPT 15			silica sand	
	516.52	**Silty SAND TILL** Silty, gravel (sub-angular), trace clay, some organics, brown, moist, soft-dense, increasing gravel content with depth		2.5-3.0	45.8		SPT 5				516
1											
				5.5-6.5	83.3		SPT 15				515
2										bentonite seal	
				7.5-10	100.0		SPT >50				514
3											
				11-12	79.2		SPT >50				513
4											
				14-15	50.0		SPT >50				512
5											
				17-17.5	33.3		SPT >50			silica sand 50 mm 010 slot PVC pipe	
				18-20	100.0		SPT >50				511
6										end cap silica sand	
				20.5-22.5	87.5		SPT >50			bentonite seal	510

End of monitoring well at 509.96 m

Well Completion Details:
Screened interval from 512.25 m to 510.72 m
Elevation at top of pipe (TOP) = 517.68 m

Groundwater Information:
Depth to groundwater from TOP = 2.95 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 11
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **MW22-403**
SURFACE ELEVATION: 514.27 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	514.27	**TOPSOIL** Dark brown, some organics (rootlets), soft, moist								silica sand	514
	514.02	**SAND** Fine-medium, brown, trace clay, soft, moist		1-2.5	66.7		SPT 4				
	513.51	**Sandy SILT TILL** Silty, light brown, gravel (sub-angular), trace clay, soft, moist, increasing gravel content with depth									513
1				4.5-5	20.8		SPT 5				
2				6.5-7.5	37.5		SPT 24				
	511.98	Cobbles, dry, dense								bentonite seal	512
3				9-10	66.7		SPT >50				
				11.5-12.5	58.3		SPT >50				511
4				14-15	62.5		SPT >50				510
5				16.5-17.5	50.0		SPT >50			silica sand 50 mm 010 slot PVC pipe	509
	508.94	Moist from 5.33 m to EOH									
6				19-20	66.7		SPT >50			end cap silica sand	508
										bentonite seal	
	507.49	~~Largest cobble at 6.78 m~~		22-22.5	37.5		SPT >50				

End of monitoring well at 507.41 m

Well Completion Details:
Screened interval from 509.70 m to 508.17 m
Elevation at top of pipe (TOP) = 515.21 m

Groundwater Information:
Depth to groundwater from TOP = 2.79 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 11
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **MW22-404**
SURFACE ELEVATION: 514.16 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	514.16	**TOPSOIL**									514
	513.96	Dark brown, organics (rootlets), moist, soft									
		SAND		0-2.5	66.7		4			silica sand	
		Brown, some silt, organics, (rootlets), moist, soft									
	513.40	**Silty SAND**									
1		Medium sand, brown, orange mottling, gravel (sub-angular/angular), soft, compact, wet		*2.5-5 / DUP-1B	66.7		12				513
	512.64	**Silty SAND TILL**									
		Medium-fine silty sand, some gravel (sub-angular/angular), compact/dense, wet		*5-7.5	75.0		44				
2	511.87	No recovery			0		>50			bentonite seal	512
3	511.11	**Gravelly SAND**		10-12.5	91.7		>50				511
		Grey-brown, gravel (sub-angular/angular), some silt, wet, loose									
	510.30	**Silty SAND TILL**		12.5-15	66.7		>50				510
4		Silty fine sand, gravel (sub-angular/angular), grey-brown, dry, dense									
				15-17.5	54.2		>50				
5										silica sand 50 mm 010 slot PVC pipe	509
				17.5-20	70.8		>50				
6										end cap silica sand	508
				20-22.5	0		>50			bentonite seal	

End of monitoring well at 507.30 m

Well Completion Details:
Screened interval from 509.59 m to 508.06 m
Elevation at top of pipe (TOP) = 515.00 m

Groundwater Information:
Depth to groundwater from TOP = 1.77 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 13
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: MW22-405-D
SURFACE ELEVATION: 512.10 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count (■) / % Moisture (◆)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	512.10	**TOPSOIL**								silica sand	512
	511.87	Dark brown, organics (rootlets), moist, soft									
		SAND		1.5-2.5	70.8		4				
	511.34	Medium sand, light brown, organics (rootlets), moist, soft		*2.5-5 / DUP-1A	58.3		9				
1		Silty fine sand with gravel (sub-angular), light brown, moist, soft									511
	510.58	**Silty SAND with GRAVEL**		*5-7.5	37.5		12		▼		
		Silty fine sand with gravel (sub-angular), trace clay, light brown, moist-dry, soft									
2				7.5-10	75.0		22				510
	509.05										
3	508.99	**Gravelly SAND**		10-12.5	66.7		>50				509
		Coarse sand and gravel (sub-angular), some fine sand, trace silt, light brown, wet, loose									
		Silty SAND TILL		12.5-15	79.2		>50				
4		Silty fine sand with gravel (sub-angular), trace clay, light brown-grey, dry, dense									508
				15-17.5	66.7		>50			bentonite seal	
5											507
				17.5-20	45.8		>50				
6											506
				20-22.5	37.5		>50				
7				2.5-25	87.5		50				505
				25-27.5	70.8		>50				
8											504
				27.5-30	58.3		>50				
9											503
				0	0		>50				
10				32.5-35	0		47			silica sand 50 mm 010 slot PVC pipe	502
										end cap	
		End of monitoring well at 501.43 m									

Well Completion Details:
Screened interval from 502.96 m to 501.43 m
Elevation at top of pipe (TOP) = 513.05 m

Groundwater Information:
Depth to groundwater from TOP = 2.81 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 12
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
NO RECOVERY

SLR BOREHOLE LOG (MOISTURE) 209.30125.00001_2023-05-05.GPJ SLR_CAN V5.2 MOISTURE.GDT 23/5/5

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **MW22-405-S**
SURFACE ELEVATION: 512.06 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	512.06	**TOPSOIL** Dark brown, organics (rootlets), moist, soft								silica sand	512
	511.83	**SAND** Medium sand, light brown, organics (rootlets), moist, soft		1.5-2.5	70.8		4				
	511.30	Silty fine sand with gravel (sub-angular), light brown, moist, soft		*2.5-5 / DUP-1A	58.3		9				
1											511
	510.54	**Silty SAND with GRAVEL** Silty fine sand with gravel (sub-angular), trace clay, light brown, moist-dry, soft		*5-7.5	37.5		12				
2										bentonite seal	510
				7.5-10	75.0		22				
3	509.01										509
	508.95	**Gravelly SAND** Coarse sand and gravel (sub-angular), some fine sand, trace silt, light brown, wet, loose		10-12.5	66.7		>50				
		Silty SAND TILL Silty fine sand with gravel (sub-angular), trace clay, light brown-grey, dry, dense									
4				12.5-15	79.2		>50				508
				15-17.5	66.7		>50				
5										silica sand 50 mm 010 slot PVC pipe	507
				17.5-20	45.8		>50				
6										end cap	506
		End of monitoring well at 505.96 m Well Completion Details: Screened interval from 507.49 m to 505.96 m Elevation at top of pipe (TOP) = 513.05 m Groundwater Information: Depth to groundwater from TOP = 2.79 m (July 13, 2022) * denotes soil sample taken for lab analysis MW22-405S was straight drilled adjacent to MW22-405D									

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 12
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **MW22-406**
SURFACE ELEVATION: 511.50 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	511.50	**TOPSOIL**								cement	
	511.40	**SAND** Fine sand, trace silt, trace organics, brown, grey mottling, moist, soft, loose		0-2.5	66.7		4				511
	510.74	**Silty SAND** Grey, brown mottling, silty, trace gravel, trace clay, cobbles, moist, firm, compact		2.5-5	62.5		5				
1				5-7.5	54.2		9				510
2										bentonite seal	
	509.21	**Silty SAND and GRAVEL** Brown-grey, silty, gravelly, moist, firm, compact Dry		7.5-10	100.0		36				509
3	509.01			10-12.5	100.0		35				508
	507.69	**GRAVEL** Brown-grey, crushed rock/gravel (angular), trace silt, saturated, loose		12.5-15	41.7		40				
4	506.93	**FINE SAND**									507
	506.78	Brown, gravel, saturated, loose **GRAVEL** Brown, angular, trace fine sand, trace cobble, wet, loose		15-17.5	54.2		36			silica sand 50 mm 010 slot PVC pipe	
5	506.17	**Silty SAND TILL** Brown-grey, silty, some gravel, dry, dense		17.5-19	66.7		>50			end cap	506

End of monitoring well at 505.71 m

Well Completion Details:
Screened interval from 507.23 m to 505.71 m
Elevation at top of pipe (TOP) = 512.31 m

Groundwater Information:
Depth to groundwater from TOP = 1.92 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 18
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR BOREHOLE LOG (MOISTURE) 209.30125.00001_2023-05-05.GPJ SLR_CAN V5.2 MOISTURE.GDT 23/5/5

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: MW22-407
SURFACE ELEVATION: 509.61 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE ID	% Recovery	TEST DATA: SPT Count / % Moisture	WELL COMPLETION NOTES	ELEVATION (m)
0	509.61	**TOPSOIL**				cement	509
	509.38	**Silty SAND** Brown, silty, trace cobble, moist, soft	0-2.5	37.5	7		
1			2.5-5	16.7	6		
	508.09	Occasional gravel, compact					508
2			5-7.5	70.8	12		
	507.32	**Sandy SILT TILL** Grey-brown, gravelly (sub-angular/angular), trace silt, dry-moist, firm, compact	7.5-10	83.3	>50	bentonite seal	507
3			10-12.5	41.7	>50		506
4			12.5-15	100.0	>50		
			15-17.5	95.8	>50		505
5						silica sand 50 mm 010 slot PVC pipe	
			17.5-20	70.8	>50		504
6						end cap	

End of monitoring well at 503.51 m

Well Completion Details:
Screened interval from 505.04 m to 503.51 m
Elevation at top of pipe (TOP) = 510.46 m

Groundwater Information:
Depth to groundwater from TOP = 2.46 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: 2022 April 18
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Flato Ida Dundalk Inc.**
PROJECT: **HydroG Assessment**
ADDRESS: **Flato Ida**
SLR JOB NO: **209.30125.00001**

Monitoring Well LOG

BOREHOLE NO: **MW22-408**
SURFACE ELEVATION: 509.31 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	509.31	**TOPSOIL**								cement	509
	509.18	**Silty SAND with GRAVEL** Brown, silty, some gravel, trace clay, trace organics, moist-wet, occasional cobbles, loose-dense, increasing gravel content with depth		*0-5	100.0		5				
1											508
				5-7.5	45.8		9				
2	507.02	Saturated, hard, compact								bentonite seal	507
				*7.5-10	70.8		21				
3	506.26	Set, very hard, very dense									
				10-12.5	75.0		>50				506
4				12.5-15	70.8		>50				505
				15-17.5	37.5		>50				
5	503.98	**Gravelly Silty SAND** Brown-grey, moist-wet, dense, soft								silica sand 50 mm 010 slot PVC pipe	504
				17.5-20	62.5		>50				
6										end cap silica sand	503
				20-22.5	16.7		>50			bentonite seal	

End of monitoring well at 502.45 m

Well Completion Details:
Screened interval from 504.74 m to 503.21 m
Elevation at top of pipe (TOP) = 510.28 m

Groundwater Information:
Depth to groundwater from TOP = 2.18 m (July 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 18
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

Appendix B Certificates of Laboratory Analysis

Phase II Environmental Site Assessment

752212, 752226 and 752240 Ida Street, Dundalk, Ontario

Flato Ida Dundalk Inc.

SLR Project No.: 209.30125.00001

May 22, 2024

Your P.O. #: MAR3745
Your Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your C.O.C. #: 873283-05-01, 873283-07-01

Attention: Alicia Dibben

SLR Consulting (Canada) Ltd
200-300 Town Centre Blvd.
Markham, ON
CANADA L3R 5Z6

Report Date: 2022/04/28
Report #: R7103986
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A0399
Received: 2022/04/14, 16:53

Sample Matrix: Soil
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	2	N/A	2022/04/25	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	6	2022/04/22	2022/04/25	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	6	2022/04/22	2022/04/22	CAM SOP-00457	OMOE E3015 m
Conductivity	6	2022/04/22	2022/04/22	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	6	2022/04/21	2022/04/22	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	3	N/A	2022/04/22	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	3	2022/04/21	2022/04/22	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	6	2022/04/21	2022/04/22	CAM SOP-00447	EPA 6020B m
Moisture	8	N/A	2022/04/20	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (4)	3	2022/04/22	2022/04/23	CAM SOP-00307	SW846 8081, 8082
OC Pesticides (Selected) & PCB (4)	1	2022/04/26	2022/04/27	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	4	N/A	2022/04/21	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/21	2022/04/21	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/21	2022/04/22	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	6	2022/04/21	2022/04/21	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	6	N/A	2022/04/25	CAM SOP-00102	EPA 6010C

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Your P.O. #: MAR3745
Your Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your C.O.C. #: 873283-05-01, 873283-07-01

Attention: Alicia Dibben

SLR Consulting (Canada) Ltd
200-300 Town Centre Blvd.
Markham, ON
CANADA L3R 5Z6

Report Date: 2022/04/28
Report #: R7103986
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A0399

Received: 2022/04/14, 16:53

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Soils are reported on a dry weight basis unless otherwise specified.

(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

(4) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
28 Apr 2022 17:56:02

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

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For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SJH975			SJH977			SJH978		
Sampling Date		2022/04/12 09:45			2022/04/12			2022/04/13 17:08		
COC Number		873283-05-01			873283-05-01			873283-05-01		
	UNITS	MW22-405_2.5-5	RDL	QC Batch	DUP-1A	RDL	QC Batch	MW22-401_2.5-5	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.33 (1)		7947810				0.25 (1)		7947810
Inorganics										
Conductivity	mS/cm	0.099	0.002	7953583				0.17	0.002	7953583
Moisture	%	12	1.0	7948811	11	1.0	7948670	14	1.0	7948670
Available (CaCl2) pH	pH	7.83		7951926				7.51		7951926
WAD Cyanide (Free)	ug/g	<0.01	0.01	7953391				<0.01	0.01	7953391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Bureau Veritas ID		SJH978			SJH980	SJH982	SJH983		
Sampling Date		2022/04/13 17:08			2022/04/13 13:36	2022/04/13 09:03	2022/04/13 09:15		
COC Number		873283-05-01			873283-05-01	873283-05-01	873283-05-01		
	UNITS	MW22-401_2.5-5 Lab-Dup	RDL	QC Batch	MW22-404_2.5-5	ESA-1_2.5-5	ESA-1_5-7.5	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A				0.21 (1)	0.26 (1)	0.48		7947810
Inorganics									
Conductivity	mS/cm				0.20	0.16	0.14	0.002	7953583
Moisture	%	14	1.0	7948670	21	12	10	1.0	7948670
Available (CaCl2) pH	pH				7.35	7.91	7.96		7951926
WAD Cyanide (Free)	ug/g				<0.01	<0.01	<0.01	0.01	7953391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SJH990			SJH991		
Sampling Date		2022/04/13			2022/04/13		
COC Number		873283-07-01			873283-07-01		
	UNITS	DUP-1B	RDL	QC Batch	DUP-1C	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A				0.22 (1)		7947810
Inorganics							
Conductivity	mS/cm				0.19	0.002	7953583
Moisture	%	11	1.0	7948670	19	1.0	7948811
Available (CaCl2) pH	pH				7.19		7951926
WAD Cyanide (Free)	ug/g				<0.01	0.01	7953391

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		SJH975	SJH978	SJH980	SJH982		
Sampling Date		2022/04/12 09:45	2022/04/13 17:08	2022/04/13 13:36	2022/04/13 09:03		
COC Number		873283-05-01	873283-05-01	873283-05-01	873283-05-01		
	UNITS	MW22-405_2.5-5	MW22-401_2.5-5	MW22-404_2.5-5	ESA-1_2.5-5	RDL	QC Batch
Inorganics							
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	<0.18	0.18	7951961
Metals							
Hot Water Ext. Boron (B)	ug/g	<0.050	0.13	0.063	0.087	0.050	7953799
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7952122
Acid Extractable Arsenic (As)	ug/g	2.4	3.1	1.9	2.5	1.0	7952122
Acid Extractable Barium (Ba)	ug/g	19	22	26	21	0.50	7952122
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.27	0.28	0.21	0.20	7952122
Acid Extractable Boron (B)	ug/g	5.2	5.9	<5.0	5.1	5.0	7952122
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.14	0.11	<0.10	0.10	7952122
Acid Extractable Chromium (Cr)	ug/g	6.8	9.8	12	8.6	1.0	7952122
Acid Extractable Cobalt (Co)	ug/g	2.7	3.8	3.4	2.7	0.10	7952122
Acid Extractable Copper (Cu)	ug/g	9.0	12	6.6	8.1	0.50	7952122
Acid Extractable Lead (Pb)	ug/g	5.3	9.4	5.6	7.2	1.0	7952122
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	7952122
Acid Extractable Nickel (Ni)	ug/g	6.2	7.7	6.5	5.8	0.50	7952122
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	7952122
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7952122
Acid Extractable Thallium (Tl)	ug/g	0.066	0.053	0.051	<0.050	0.050	7952122
Acid Extractable Uranium (U)	ug/g	0.39	0.37	0.44	0.38	0.050	7952122
Acid Extractable Vanadium (V)	ug/g	13	15	27	15	5.0	7952122
Acid Extractable Zinc (Zn)	ug/g	27	41	20	33	5.0	7952122
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	7952122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		SJH982			SJH983	SJH991		
Sampling Date		2022/04/13 09:03			2022/04/13 09:15	2022/04/13		
COC Number		873283-05-01			873283-05-01	873283-07-01		
	UNITS	ESA-1_2.5-5 Lab-Dup	RDL	QC Batch	ESA-1_5-7.5	DUP-1C	RDL	QC Batch
Inorganics								
Chromium (VI)	ug/g				<0.18	<0.18	0.18	7951961
Metals								
Hot Water Ext. Boron (B)	ug/g	0.074	0.050	7953799	0.079	0.054	0.050	7953799
Acid Extractable Antimony (Sb)	ug/g				<0.20	<0.20	0.20	7952122
Acid Extractable Arsenic (As)	ug/g				2.4	1.9	1.0	7952122
Acid Extractable Barium (Ba)	ug/g				17	25	0.50	7952122
Acid Extractable Beryllium (Be)	ug/g				<0.20	0.26	0.20	7952122
Acid Extractable Boron (B)	ug/g				6.1	<5.0	5.0	7952122
Acid Extractable Cadmium (Cd)	ug/g				<0.10	0.10	0.10	7952122
Acid Extractable Chromium (Cr)	ug/g				7.2	12	1.0	7952122
Acid Extractable Cobalt (Co)	ug/g				3.1	3.2	0.10	7952122
Acid Extractable Copper (Cu)	ug/g				9.4	6.2	0.50	7952122
Acid Extractable Lead (Pb)	ug/g				7.7	5.7	1.0	7952122
Acid Extractable Molybdenum (Mo)	ug/g				<0.50	<0.50	0.50	7952122
Acid Extractable Nickel (Ni)	ug/g				6.4	6.3	0.50	7952122
Acid Extractable Selenium (Se)	ug/g				<0.50	<0.50	0.50	7952122
Acid Extractable Silver (Ag)	ug/g				<0.20	<0.20	0.20	7952122
Acid Extractable Thallium (Tl)	ug/g				<0.050	0.053	0.050	7952122
Acid Extractable Uranium (U)	ug/g				0.39	0.42	0.050	7952122
Acid Extractable Vanadium (V)	ug/g				10	28	5.0	7952122
Acid Extractable Zinc (Zn)	ug/g				36	19	5.0	7952122
Acid Extractable Mercury (Hg)	ug/g				<0.050	<0.050	0.050	7952122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		SJH982			SJH982			SJH983		
Sampling Date		2022/04/13 09:03			2022/04/13 09:03			2022/04/13 09:15		
COC Number		873283-05-01			873283-05-01			873283-05-01		
	UNITS	ESA-1_2.5-5	RDL	QC Batch	ESA-1_2.5-5 Lab-Dup	RDL	QC Batch	ESA-1_5-7.5	RDL	QC Batch
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7947811				<0.0071	0.0071	7947811
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Acenaphthylene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Anthracene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Chrysene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Fluoranthene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Fluorene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Naphthalene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Phenanthrene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Pyrene	ug/g	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188	<0.0050	0.0050	7952188
Surrogate Recovery (%)										
D10-Anthracene	%	101		7952188	99		7952188	97		7952188
D14-Terphenyl (FS)	%	106		7952188	103		7952188	108		7952188
D8-Acenaphthylene	%	85		7952188	87		7952188	86		7952188

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SJH982	SJH983	SJH990		
Sampling Date		2022/04/13 09:03	2022/04/13 09:15	2022/04/13		
COC Number		873283-05-01	873283-05-01	873283-07-01		
	UNITS	ESA-1_2.5-5	ESA-1_5-7.5	DUP-1B	RDL	QC Batch
BTEX & F1 Hydrocarbons						
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7953701
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7953701
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7953701
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7953701
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	7953701
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	7953701
F1 (C6-C10)	ug/g	<10	<10	<10	10	7953701
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7953701
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7953189
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	89	50	7953189
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7953189
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7953189
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	99	101		7953701
4-Bromofluorobenzene	%	112	111	99		7953701
D10-o-Xylene	%	109	94	99		7953701
D4-1,2-Dichloroethane	%	100	95	98		7953701
o-Terphenyl	%	113	114	112		7953189

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Bureau Veritas ID		SJH975		SJH977	SJH978	SJH980		
Sampling Date		2022/04/12 09:45		2022/04/12	2022/04/13 17:08	2022/04/13 13:36		
COC Number		873283-05-01		873283-05-01	873283-05-01	873283-05-01		
	UNITS	MW22-405_2.5-5	QC Batch	DUP-1A	MW22-401_2.5-5	MW22-404_2.5-5	RDL	QC Batch
Calculated Parameters								
Chlordane (Total)	ug/g	<0.0020	7946816	<0.0020	<0.0020	<0.0020	0.0020	7946816
o,p-DDD + p,p-DDD	ug/g	<0.0020	7946816	<0.0020	<0.0020	<0.0020	0.0020	7946816
o,p-DDE + p,p-DDE	ug/g	<0.0020	7946816	<0.0020	<0.0020	<0.0020	0.0020	7946816
o,p-DDT + p,p-DDT	ug/g	<0.0020	7946816	<0.0020	<0.0020	<0.0020	0.0020	7946816
Total Endosulfan	ug/g	<0.0020	7946816	<0.0020	<0.0020	<0.0020	0.0020	7946816
Total PCB	ug/g	<0.015	7946816	<0.015	<0.015	<0.015	0.015	7946816
Pesticides & Herbicides								
Aldrin	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
a-Chlordane	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
g-Chlordane	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
o,p-DDD	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
p,p-DDD	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
o,p-DDE	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
p,p-DDE	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
o,p-DDT	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
p,p-DDT	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Dieldrin	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Lindane	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Endosulfan I (alpha)	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Endosulfan II (beta)	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Endrin	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Heptachlor	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Heptachlor epoxide	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Hexachlorobenzene	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Hexachlorobutadiene	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Hexachloroethane	ug/g	<0.0020	7958928	<0.0020	<0.0020	<0.0020	0.0020	7954443
Methoxychlor	ug/g	<0.0050	7958928	<0.0050	<0.0050	<0.0050	0.0050	7954443
Aroclor 1242	ug/g	<0.015	7958928	<0.015	<0.015	<0.015	0.015	7954443
Aroclor 1248	ug/g	<0.015	7958928	<0.015	<0.015	<0.015	0.015	7954443
Aroclor 1254	ug/g	<0.015	7958928	<0.015	<0.015	<0.015	0.015	7954443
Aroclor 1260	ug/g	<0.015	7958928	<0.015	<0.015	<0.015	0.015	7954443
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	76	7958928	62	75	82		7954443

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

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Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
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Sampler Initials: PH

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Bureau Veritas ID		SJH975		SJH977	SJH978	SJH980		
Sampling Date		2022/04/12 09:45		2022/04/12	2022/04/13 17:08	2022/04/13 13:36		
COC Number		873283-05-01		873283-05-01	873283-05-01	873283-05-01		
	UNITS	**MW22-405_2.5-5**	**QC Batch**	**DUP-1A**	**MW22-401_2.5-5**	**MW22-404_2.5-5**	**RDL**	**QC Batch**
Decachlorobiphenyl	%	91	7958928	77	84	101		7954443

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

TEST SUMMARY

Bureau Veritas ID: SJH975
Sample ID: MW22-405_2.5-5
Matrix: Soil

Collected: 2022/04/12
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
Free (WAD) Cyanide	TECH	7953391	2022/04/22	2022/04/22	Aditiben Patel
Conductivity	AT	7953583	2022/04/22	2022/04/22	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7951961	2022/04/21	2022/04/22	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7952122	2022/04/21	2022/04/22	Viviana Canzonieri
Moisture	BAL	7948811	N/A	2022/04/20	Mathew Bowles
OC Pesticides (Selected) & PCB	GC/ECD	7958928	2022/04/26	2022/04/27	Li Peng
OC Pesticides Summed Parameters	CALC	7946816	N/A	2022/04/21	Automated Statchk
pH CaCl2 EXTRACT	AT	7951926	2022/04/21	2022/04/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7947810	N/A	2022/04/25	Automated Statchk

Bureau Veritas ID: SJH977
Sample ID: DUP-1A
Matrix: Soil

Collected: 2022/04/12
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7954443	2022/04/22	2022/04/23	Li Peng
OC Pesticides Summed Parameters	CALC	7946816	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SJH978
Sample ID: MW22-401_2.5-5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
Free (WAD) Cyanide	TECH	7953391	2022/04/22	2022/04/22	Aditiben Patel
Conductivity	AT	7953583	2022/04/22	2022/04/22	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7951961	2022/04/21	2022/04/22	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7952122	2022/04/21	2022/04/22	Viviana Canzonieri
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7954443	2022/04/22	2022/04/23	Li Peng
OC Pesticides Summed Parameters	CALC	7946816	N/A	2022/04/21	Automated Statchk
pH CaCl2 EXTRACT	AT	7951926	2022/04/21	2022/04/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7947810	N/A	2022/04/25	Automated Statchk

Bureau Veritas ID: SJH978 Dup
Sample ID: MW22-401_2.5-5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

TEST SUMMARY

Bureau Veritas ID: SJH980
Sample ID: MW22-404_2.5-5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
Free (WAD) Cyanide	TECH	7953391	2022/04/22	2022/04/22	Aditiben Patel
Conductivity	AT	7953583	2022/04/22	2022/04/22	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7951961	2022/04/21	2022/04/22	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7952122	2022/04/21	2022/04/22	Viviana Canzonieri
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7954443	2022/04/22	2022/04/23	Li Peng
OC Pesticides Summed Parameters	CALC	7946816	N/A	2022/04/21	Automated Statchk
pH CaCl2 EXTRACT	AT	7951926	2022/04/21	2022/04/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7947810	N/A	2022/04/25	Automated Statchk

Bureau Veritas ID: SJH982
Sample ID: ESA-1_2.5-5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7947811	N/A	2022/04/25	Automated Statchk
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
Free (WAD) Cyanide	TECH	7953391	2022/04/22	2022/04/22	Aditiben Patel
Conductivity	AT	7953583	2022/04/22	2022/04/22	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7951961	2022/04/21	2022/04/22	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7953701	N/A	2022/04/22	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7953189	2022/04/21	2022/04/22	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7952122	2022/04/21	2022/04/22	Viviana Canzonieri
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7952188	2022/04/21	2022/04/21	Mitesh Raj
pH CaCl2 EXTRACT	AT	7951926	2022/04/21	2022/04/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7947810	N/A	2022/04/25	Automated Statchk

Bureau Veritas ID: SJH982 Dup
Sample ID: ESA-1_2.5-5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7952188	2022/04/21	2022/04/22	Mitesh Raj

Bureau Veritas ID: SJH983
Sample ID: ESA-1_5-7.5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7947811	N/A	2022/04/25	Automated Statchk

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

TEST SUMMARY

Bureau Veritas ID: SJH983
Sample ID: ESA-1_5-7.5
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
Free (WAD) Cyanide	TECH	7953391	2022/04/22	2022/04/22	Aditiben Patel
Conductivity	AT	7953583	2022/04/22	2022/04/22	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7951961	2022/04/21	2022/04/22	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7953701	N/A	2022/04/22	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7953189	2022/04/21	2022/04/22	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7952122	2022/04/21	2022/04/22	Viviana Canzonieri
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7952188	2022/04/21	2022/04/22	Mitesh Raj
pH CaCl2 EXTRACT	AT	7951926	2022/04/21	2022/04/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7947810	N/A	2022/04/25	Automated Statchk

Bureau Veritas ID: SJH990
Sample ID: DUP-1B
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7953701	N/A	2022/04/22	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7953189	2022/04/21	2022/04/22	Dennis Ngondu
Moisture	BAL	7948670	N/A	2022/04/20	Kruti Jitesh Patel

Bureau Veritas ID: SJH991
Sample ID: DUP-1C
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7953799	2022/04/22	2022/04/25	Gagandeep Rai
Free (WAD) Cyanide	TECH	7953391	2022/04/22	2022/04/22	Aditiben Patel
Conductivity	AT	7953583	2022/04/22	2022/04/22	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7951961	2022/04/21	2022/04/22	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7952122	2022/04/21	2022/04/22	Viviana Canzonieri
Moisture	BAL	7948811	N/A	2022/04/20	Mathew Bowles
pH CaCl2 EXTRACT	AT	7951926	2022/04/21	2022/04/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7947810	N/A	2022/04/25	Automated Statchk

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GENERAL COMMENTS

Sample SJH983 [ESA-1_5-7.5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7948670	MBW	RPD [SJH978-01]	Moisture	2022/04/20	3.5		%	20
7948811	MBW	RPD	Moisture	2022/04/20	0		%	20
7951926	TAK	Spiked Blank	Available (CaCl2) pH	2022/04/21		100	%	97 - 103
7951926	TAK	RPD	Available (CaCl2) pH	2022/04/21	0.32		%	N/A
7951961	SUR	Matrix Spike	Chromium (VI)	2022/04/22		80	%	70 - 130
7951961	SUR	Spiked Blank	Chromium (VI)	2022/04/22		89	%	80 - 120
7951961	SUR	Method Blank	Chromium (VI)	2022/04/22	<0.18		ug/g	
7951961	SUR	RPD	Chromium (VI)	2022/04/22	NC		%	35
7952122	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2022/04/22		94	%	75 - 125
			Acid Extractable Arsenic (As)	2022/04/22		101	%	75 - 125
			Acid Extractable Barium (Ba)	2022/04/22		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/04/22		102	%	75 - 125
			Acid Extractable Boron (B)	2022/04/22		96	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/04/22		102	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/04/22		101	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/04/22		103	%	75 - 125
			Acid Extractable Copper (Cu)	2022/04/22		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2022/04/22		102	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/04/22		104	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/04/22		100	%	75 - 125
			Acid Extractable Selenium (Se)	2022/04/22		105	%	75 - 125
			Acid Extractable Silver (Ag)	2022/04/22		101	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/04/22		102	%	75 - 125
			Acid Extractable Uranium (U)	2022/04/22		103	%	75 - 125
			Acid Extractable Vanadium (V)	2022/04/22		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/04/22		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2022/04/22		88	%	75 - 125
7952122	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2022/04/22		104	%	80 - 120
			Acid Extractable Arsenic (As)	2022/04/22		101	%	80 - 120
			Acid Extractable Barium (Ba)	2022/04/22		96	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/04/22		98	%	80 - 120
			Acid Extractable Boron (B)	2022/04/22		102	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/04/22		101	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/04/22		100	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/04/22		102	%	80 - 120
			Acid Extractable Copper (Cu)	2022/04/22		99	%	80 - 120
			Acid Extractable Lead (Pb)	2022/04/22		104	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/04/22		101	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/04/22		99	%	80 - 120
			Acid Extractable Selenium (Se)	2022/04/22		103	%	80 - 120
			Acid Extractable Silver (Ag)	2022/04/22		102	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/04/22		106	%	80 - 120
			Acid Extractable Uranium (U)	2022/04/22		104	%	80 - 120
			Acid Extractable Vanadium (V)	2022/04/22		102	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/04/22		103	%	80 - 120
			Acid Extractable Mercury (Hg)	2022/04/22		89	%	80 - 120
7952122	VIV	Method Blank	Acid Extractable Antimony (Sb)	2022/04/22	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/04/22	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/04/22	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/04/22	<0.20		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Boron (B)	2022/04/22	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/04/22	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/04/22	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/04/22	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/04/22	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/04/22	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/04/22	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/04/22	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/04/22	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/04/22	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/04/22	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/04/22	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/04/22	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/04/22	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2022/04/22	<0.050		ug/g	
7952122	VIV	RPD	Acid Extractable Antimony (Sb)	2022/04/22	9.5		%	30
			Acid Extractable Arsenic (As)	2022/04/22	1.2		%	30
			Acid Extractable Barium (Ba)	2022/04/22	9.5		%	30
			Acid Extractable Beryllium (Be)	2022/04/22	0.64		%	30
			Acid Extractable Boron (B)	2022/04/22	0.35		%	30
			Acid Extractable Cadmium (Cd)	2022/04/22	8.9		%	30
			Acid Extractable Chromium (Cr)	2022/04/22	4.9		%	30
			Acid Extractable Cobalt (Co)	2022/04/22	0.77		%	30
			Acid Extractable Copper (Cu)	2022/04/22	7.6		%	30
			Acid Extractable Lead (Pb)	2022/04/22	1.3		%	30
			Acid Extractable Molybdenum (Mo)	2022/04/22	NC		%	30
			Acid Extractable Nickel (Ni)	2022/04/22	6.2		%	30
			Acid Extractable Selenium (Se)	2022/04/22	NC		%	30
			Acid Extractable Silver (Ag)	2022/04/22	NC		%	30
			Acid Extractable Thallium (Tl)	2022/04/22	9.5		%	30
			Acid Extractable Uranium (U)	2022/04/22	4.9		%	30
			Acid Extractable Vanadium (V)	2022/04/22	3.9		%	30
			Acid Extractable Zinc (Zn)	2022/04/22	2.0		%	30
7952188	RAJ	Matrix Spike [SJH982-01]	D10-Anthracene	2022/04/22		98	%	50 - 130
			D14-Terphenyl (FS)	2022/04/22		107	%	50 - 130
			D8-Acenaphthylene	2022/04/22		94	%	50 - 130
			Acenaphthene	2022/04/22		90	%	50 - 130
			Acenaphthylene	2022/04/22		85	%	50 - 130
			Anthracene	2022/04/22		95	%	50 - 130
			Benzo(a)anthracene	2022/04/22		99	%	50 - 130
			Benzo(a)pyrene	2022/04/22		89	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/22		94	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/22		94	%	50 - 130
			Benzo(k)fluoranthene	2022/04/22		101	%	50 - 130
			Chrysene	2022/04/22		99	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/22		99	%	50 - 130
			Fluoranthene	2022/04/22		100	%	50 - 130
			Fluorene	2022/04/22		99	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/22		100	%	50 - 130
			1-Methylnaphthalene	2022/04/22		85	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2022/04/22		88	%	50 - 130
			Naphthalene	2022/04/22		68	%	50 - 130
			Phenanthrene	2022/04/22		94	%	50 - 130
			Pyrene	2022/04/22		101	%	50 - 130
7952188	RAJ	Spiked Blank	D10-Anthracene	2022/04/21		98	%	50 - 130
			D14-Terphenyl (FS)	2022/04/21		105	%	50 - 130
			D8-Acenaphthylene	2022/04/21		99	%	50 - 130
			Acenaphthene	2022/04/21		93	%	50 - 130
			Acenaphthylene	2022/04/21		91	%	50 - 130
			Anthracene	2022/04/21		96	%	50 - 130
			Benzo(a)anthracene	2022/04/21		98	%	50 - 130
			Benzo(a)pyrene	2022/04/21		89	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/21		96	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/21		101	%	50 - 130
			Benzo(k)fluoranthene	2022/04/21		101	%	50 - 130
			Chrysene	2022/04/21		99	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/21		105	%	50 - 130
			Fluoranthene	2022/04/21		99	%	50 - 130
			Fluorene	2022/04/21		102	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/21		107	%	50 - 130
			1-Methylnaphthalene	2022/04/21		95	%	50 - 130
			2-Methylnaphthalene	2022/04/21		101	%	50 - 130
			Naphthalene	2022/04/21		87	%	50 - 130
			Phenanthrene	2022/04/21		95	%	50 - 130
			Pyrene	2022/04/21		101	%	50 - 130
7952188	RAJ	Method Blank	D10-Anthracene	2022/04/21		107	%	50 - 130
			D14-Terphenyl (FS)	2022/04/21		109	%	50 - 130
			D8-Acenaphthylene	2022/04/21		97	%	50 - 130
			Acenaphthene	2022/04/21	<0.0050		ug/g	
			Acenaphthylene	2022/04/21	<0.0050		ug/g	
			Anthracene	2022/04/21	<0.0050		ug/g	
			Benzo(a)anthracene	2022/04/21	<0.0050		ug/g	
			Benzo(a)pyrene	2022/04/21	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2022/04/21	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2022/04/21	<0.0050		ug/g	
			Benzo(k)fluoranthene	2022/04/21	<0.0050		ug/g	
			Chrysene	2022/04/21	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2022/04/21	<0.0050		ug/g	
			Fluoranthene	2022/04/21	<0.0050		ug/g	
			Fluorene	2022/04/21	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2022/04/21	<0.0050		ug/g	
			1-Methylnaphthalene	2022/04/21	<0.0050		ug/g	
			2-Methylnaphthalene	2022/04/21	<0.0050		ug/g	
			Naphthalene	2022/04/21	<0.0050		ug/g	
			Phenanthrene	2022/04/21	<0.0050		ug/g	
			Pyrene	2022/04/21	<0.0050		ug/g	
7952188	RAJ	RPD [SJH982-01]	Acenaphthene	2022/04/22	NC		%	40
			Acenaphthylene	2022/04/22	NC		%	40
			Anthracene	2022/04/22	NC		%	40
			Benzo(a)anthracene	2022/04/22	NC		%	40

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(a)pyrene	2022/04/22	NC		%	40
			Benzo(b/j)fluoranthene	2022/04/22	NC		%	40
			Benzo(g,h,i)perylene	2022/04/22	NC		%	40
			Benzo(k)fluoranthene	2022/04/22	NC		%	40
			Chrysene	2022/04/22	NC		%	40
			Dibenzo(a,h)anthracene	2022/04/22	NC		%	40
			Fluoranthene	2022/04/22	NC		%	40
			Fluorene	2022/04/22	NC		%	40
			Indeno(1,2,3-cd)pyrene	2022/04/22	NC		%	40
			1-Methylnaphthalene	2022/04/22	NC		%	40
			2-Methylnaphthalene	2022/04/22	NC		%	40
			Naphthalene	2022/04/22	NC		%	40
			Phenanthrene	2022/04/22	NC		%	40
			Pyrene	2022/04/22	NC		%	40
7953189	DN0	Matrix Spike	o-Terphenyl	2022/04/22		114	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/22		123	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/22		123	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/22		122	%	60 - 130
7953189	DN0	Spiked Blank	o-Terphenyl	2022/04/22		111	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/22		118	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2022/04/22		118	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2022/04/22		117	%	80 - 120
7953189	DN0	Method Blank	o-Terphenyl	2022/04/22		107	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/22	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/04/22	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2022/04/22	<50		ug/g	
7953189	DN0	RPD	F2 (C10-C16 Hydrocarbons)	2022/04/22	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/04/22	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/04/22	NC		%	30
7953391	ABP	Matrix Spike	WAD Cyanide (Free)	2022/04/22		92	%	75 - 125
7953391	ABP	Spiked Blank	WAD Cyanide (Free)	2022/04/22		93	%	80 - 120
7953391	ABP	Method Blank	WAD Cyanide (Free)	2022/04/22	<0.01		ug/g	
7953391	ABP	RPD	WAD Cyanide (Free)	2022/04/22	NC		%	35
7953583	NYS	Spiked Blank	Conductivity	2022/04/22		100	%	90 - 110
7953583	NYS	Method Blank	Conductivity	2022/04/22	<0.002		mS/cm	
7953583	NYS	RPD	Conductivity	2022/04/22	0.84		%	10
7953701	AGA	Matrix Spike	1,4-Difluorobenzene	2022/04/22		91	%	60 - 140
			4-Bromofluorobenzene	2022/04/22		111	%	60 - 140
			D10-o-Xylene	2022/04/22		100	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/22		92	%	60 - 140
			Benzene	2022/04/22		80	%	50 - 140
			Toluene	2022/04/22		82	%	50 - 140
			Ethylbenzene	2022/04/22		106	%	50 - 140
			o-Xylene	2022/04/22		105	%	50 - 140
			p+m-Xylene	2022/04/22		104	%	50 - 140
			F1 (C6-C10)	2022/04/22		86	%	60 - 140
7953701	AGA	Spiked Blank	1,4-Difluorobenzene	2022/04/22		107	%	60 - 140
			4-Bromofluorobenzene	2022/04/22		105	%	60 - 140
			D10-o-Xylene	2022/04/22		108	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/22		102	%	60 - 140

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzene	2022/04/22		117	%	50 - 140
			Toluene	2022/04/22		110	%	50 - 140
			Ethylbenzene	2022/04/22		124	%	50 - 140
			o-Xylene	2022/04/22		119	%	50 - 140
			p+m-Xylene	2022/04/22		116	%	50 - 140
			F1 (C6-C10)	2022/04/22		97	%	80 - 120
7953701	AGA	Method Blank	1,4-Difluorobenzene	2022/04/22		105	%	60 - 140
			4-Bromofluorobenzene	2022/04/22		102	%	60 - 140
			D10-o-Xylene	2022/04/22		91	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/22		104	%	60 - 140
			Benzene	2022/04/22	<0.020		ug/g	
			Toluene	2022/04/22	<0.020		ug/g	
			Ethylbenzene	2022/04/22	<0.020		ug/g	
			o-Xylene	2022/04/22	<0.020		ug/g	
			p+m-Xylene	2022/04/22	<0.040		ug/g	
			Total Xylenes	2022/04/22	<0.040		ug/g	
			F1 (C6-C10)	2022/04/22	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/04/22	<10		ug/g	
7953701	AGA	RPD	Benzene	2022/04/22	NC		%	50
			Toluene	2022/04/22	NC		%	50
			Ethylbenzene	2022/04/22	0		%	50
			o-Xylene	2022/04/22	3.1		%	50
			p+m-Xylene	2022/04/22	2.1		%	50
			Total Xylenes	2022/04/22	1.2		%	50
			F1 (C6-C10)	2022/04/22	3.4		%	30
			F1 (C6-C10) - BTEX	2022/04/22	3.4		%	30
7953799	GR1	Matrix Spike [SJH982-02]	Hot Water Ext. Boron (B)	2022/04/25		114	%	75 - 125
7953799	GR1	Spiked Blank	Hot Water Ext. Boron (B)	2022/04/25		104	%	75 - 125
7953799	GR1	Method Blank	Hot Water Ext. Boron (B)	2022/04/25	<0.050		ug/g	
7953799	GR1	RPD [SJH982-02]	Hot Water Ext. Boron (B)	2022/04/25	16		%	40
7954443	LPG	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2022/04/23		83	%	50 - 130
			Decachlorobiphenyl	2022/04/23		90	%	50 - 130
			Aldrin	2022/04/23		74	%	50 - 130
			a-Chlordane	2022/04/23		80	%	50 - 130
			g-Chlordane	2022/04/23		78	%	50 - 130
			o,p-DDD	2022/04/23		86	%	50 - 130
			p,p-DDD	2022/04/23		84	%	50 - 130
			o,p-DDE	2022/04/23		83	%	50 - 130
			p,p-DDE	2022/04/23		85	%	50 - 130
			o,p-DDT	2022/04/23		81	%	50 - 130
			p,p-DDT	2022/04/23		95	%	50 - 130
			Dieldrin	2022/04/23		88	%	50 - 130
			Lindane	2022/04/23		78	%	50 - 130
			Endosulfan I (alpha)	2022/04/23		70	%	50 - 130
			Endosulfan II (beta)	2022/04/23		77	%	50 - 130
			Endrin	2022/04/23		77	%	50 - 130
			Heptachlor	2022/04/23		75	%	50 - 130
			Heptachlor epoxide	2022/04/23		73	%	50 - 130
			Hexachlorobenzene	2022/04/23		95	%	50 - 130
			Hexachlorobutadiene	2022/04/23		87	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Hexachloroethane	2022/04/23		68	%	50 - 130
			Methoxychlor	2022/04/23		81	%	50 - 130
7954443	LPG	Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2022/04/23		76	%	50 - 130
			Decachlorobiphenyl	2022/04/23		84	%	50 - 130
			Aldrin	2022/04/23		68	%	50 - 130
			a-Chlordane	2022/04/23		73	%	50 - 130
			g-Chlordane	2022/04/23		72	%	50 - 130
			o,p-DDD	2022/04/23		81	%	50 - 130
			p,p-DDD	2022/04/23		76	%	50 - 130
			o,p-DDE	2022/04/23		75	%	50 - 130
			p,p-DDE	2022/04/23		79	%	50 - 130
			o,p-DDT	2022/04/23		76	%	50 - 130
			p,p-DDT	2022/04/23		76	%	50 - 130
			Dieldrin	2022/04/23		83	%	50 - 130
			Lindane	2022/04/23		77	%	50 - 130
			Endosulfan I (alpha)	2022/04/23		70	%	50 - 130
			Endosulfan II (beta)	2022/04/23		70	%	50 - 130
			Endrin	2022/04/23		76	%	50 - 130
			Heptachlor	2022/04/23		66	%	50 - 130
			Heptachlor epoxide	2022/04/23		72	%	50 - 130
			Hexachlorobenzene	2022/04/23		89	%	50 - 130
			Hexachlorobutadiene	2022/04/23		98	%	50 - 130
			Hexachloroethane	2022/04/23		82	%	50 - 130
			Methoxychlor	2022/04/23		85	%	50 - 130
7954443	LPG	RPD	Aldrin	2022/04/23	9.8		%	40
			a-Chlordane	2022/04/23	14		%	40
			g-Chlordane	2022/04/23	11		%	40
			o,p-DDD	2022/04/23	15		%	40
			p,p-DDD	2022/04/23	13		%	40
			o,p-DDE	2022/04/23	9.1		%	40
			p,p-DDE	2022/04/23	0.74		%	40
			o,p-DDT	2022/04/23	9.0		%	40
			p,p-DDT	2022/04/23	14		%	40
			Dieldrin	2022/04/23	7.2		%	40
			Lindane	2022/04/23	16		%	40
			Endosulfan I (alpha)	2022/04/23	1.5		%	40
			Endosulfan II (beta)	2022/04/23	14		%	40
			Endrin	2022/04/23	9.7		%	40
			Heptachlor	2022/04/23	11		%	40
			Heptachlor epoxide	2022/04/23	4.1		%	40
			Hexachlorobenzene	2022/04/23	1.6		%	40
			Hexachlorobutadiene	2022/04/23	12		%	40
			Hexachloroethane	2022/04/23	1.9		%	40
			Methoxychlor	2022/04/23	7.3		%	40
			Aldrin	2022/04/23	NC		%	40
			a-Chlordane	2022/04/23	NC		%	40
			g-Chlordane	2022/04/23	NC		%	40
			o,p-DDD	2022/04/23	NC		%	40
			p,p-DDD	2022/04/23	NC		%	40
			o,p-DDE	2022/04/23	NC		%	40

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			p,p-DDE	2022/04/23	NC		%	40
			o,p-DDT	2022/04/23	NC		%	40
			p,p-DDT	2022/04/23	NC		%	40
			Dieldrin	2022/04/23	NC		%	40
			Lindane	2022/04/23	NC		%	40
			Endosulfan I (alpha)	2022/04/23	NC		%	40
			Endosulfan II (beta)	2022/04/23	NC		%	40
			Endrin	2022/04/23	NC		%	40
			Heptachlor	2022/04/23	NC		%	40
			Heptachlor epoxide	2022/04/23	NC		%	40
			Hexachlorobenzene	2022/04/23	NC		%	40
			Hexachlorobutadiene	2022/04/23	NC		%	40
			Hexachloroethane	2022/04/23	NC		%	40
			Methoxychlor	2022/04/23	NC		%	40
			Aroclor 1242	2022/04/23	NC		%	40
			Aroclor 1248	2022/04/23	NC		%	40
			Aroclor 1254	2022/04/23	NC		%	40
			Aroclor 1260	2022/04/23	NC		%	40
7954443	LPG	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2022/04/23		79	%	50 - 130
			Decachlorobiphenyl	2022/04/23		86	%	50 - 130
			Aldrin	2022/04/23	<0.0020		ug/g	
			a-Chlordane	2022/04/23	<0.0020		ug/g	
			g-Chlordane	2022/04/23	<0.0020		ug/g	
			o,p-DDD	2022/04/23	<0.0020		ug/g	
			p,p-DDD	2022/04/23	<0.0020		ug/g	
			o,p-DDE	2022/04/23	<0.0020		ug/g	
			p,p-DDE	2022/04/23	<0.0020		ug/g	
			o,p-DDT	2022/04/23	<0.0020		ug/g	
			p,p-DDT	2022/04/23	<0.0020		ug/g	
			Dieldrin	2022/04/23	<0.0020		ug/g	
			Lindane	2022/04/23	<0.0020		ug/g	
			Endosulfan I (alpha)	2022/04/23	<0.0020		ug/g	
			Endosulfan II (beta)	2022/04/23	<0.0020		ug/g	
			Endrin	2022/04/23	<0.0020		ug/g	
			Heptachlor	2022/04/23	<0.0020		ug/g	
			Heptachlor epoxide	2022/04/23	<0.0020		ug/g	
			Hexachlorobenzene	2022/04/23	<0.0020		ug/g	
			Hexachlorobutadiene	2022/04/23	<0.0020		ug/g	
			Hexachloroethane	2022/04/23	<0.0020		ug/g	
			Methoxychlor	2022/04/23	<0.0050		ug/g	
			Aroclor 1242	2022/04/23	<0.015		ug/g	
			Aroclor 1248	2022/04/23	<0.015		ug/g	
			Aroclor 1254	2022/04/23	<0.015		ug/g	
			Aroclor 1260	2022/04/23	<0.015		ug/g	
7958928	LPG	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2022/04/27		86	%	50 - 130
			Decachlorobiphenyl	2022/04/27		85	%	50 - 130
			Aldrin	2022/04/27		84	%	50 - 130
			a-Chlordane	2022/04/27		86	%	50 - 130
			g-Chlordane	2022/04/27		82	%	50 - 130
			o,p-DDD	2022/04/27		89	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			p,p-DDD	2022/04/27		88	%	50 - 130
			o,p-DDE	2022/04/27		86	%	50 - 130
			p,p-DDE	2022/04/27		91	%	50 - 130
			o,p-DDT	2022/04/27		103	%	50 - 130
			p,p-DDT	2022/04/27		109	%	50 - 130
			Dieldrin	2022/04/27		91	%	50 - 130
			Lindane	2022/04/27		76	%	50 - 130
			Endosulfan I (alpha)	2022/04/27		72	%	50 - 130
			Endosulfan II (beta)	2022/04/27		82	%	50 - 130
			Endrin	2022/04/27		86	%	50 - 130
			Heptachlor	2022/04/27		78	%	50 - 130
			Heptachlor epoxide	2022/04/27		77	%	50 - 130
			Hexachlorobenzene	2022/04/27		88	%	50 - 130
			Hexachlorobutadiene	2022/04/27		68	%	50 - 130
			Hexachloroethane	2022/04/27		45 (1)	%	50 - 130
			Methoxychlor	2022/04/27		103	%	50 - 130
7958928	LPG	Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2022/04/27		94	%	50 - 130
			Decachlorobiphenyl	2022/04/27		116	%	50 - 130
			Aldrin	2022/04/27		97	%	50 - 130
			a-Chlordane	2022/04/27		97	%	50 - 130
			g-Chlordane	2022/04/27		95	%	50 - 130
			o,p-DDD	2022/04/27		109	%	50 - 130
			p,p-DDD	2022/04/27		113	%	50 - 130
			o,p-DDE	2022/04/27		101	%	50 - 130
			p,p-DDE	2022/04/27		122	%	50 - 130
			o,p-DDT	2022/04/27		122	%	50 - 130
			p,p-DDT	2022/04/27		128	%	50 - 130
			Dieldrin	2022/04/27		111	%	50 - 130
			Lindane	2022/04/27		82	%	50 - 130
			Endosulfan I (alpha)	2022/04/27		95	%	50 - 130
			Endosulfan II (beta)	2022/04/27		107	%	50 - 130
			Endrin	2022/04/27		109	%	50 - 130
			Heptachlor	2022/04/27		89	%	50 - 130
			Heptachlor epoxide	2022/04/27		91	%	50 - 130
			Hexachlorobenzene	2022/04/27		100	%	50 - 130
			Hexachlorobutadiene	2022/04/27		99	%	50 - 130
			Hexachloroethane	2022/04/27		85	%	50 - 130
			Methoxychlor	2022/04/27		124	%	50 - 130
7958928	LPG	RPD	Aldrin	2022/04/27	24		%	40
			a-Chlordane	2022/04/27	29		%	40
			g-Chlordane	2022/04/27	30		%	40
			o,p-DDD	2022/04/27	32		%	40
			p,p-DDD	2022/04/27	40		%	40
			o,p-DDE	2022/04/27	25		%	40
			p,p-DDE	2022/04/27	27		%	40
			o,p-DDT	2022/04/27	30		%	40
			p,p-DDT	2022/04/27	33		%	40
			Dieldrin	2022/04/27	32		%	40
			Lindane	2022/04/27	14		%	40
			Endosulfan I (alpha)	2022/04/27	25		%	40

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Endosulfan II (beta)	2022/04/27	42 (2)		%	40
			Endrin	2022/04/27	36		%	40
			Heptachlor	2022/04/27	21		%	40
			Heptachlor epoxide	2022/04/27	27		%	40
			Hexachlorobenzene	2022/04/27	19		%	40
			Hexachlorobutadiene	2022/04/27	6.3		%	40
			Hexachloroethane	2022/04/27	30		%	40
			Methoxychlor	2022/04/27	33		%	40
			Aldrin	2022/04/27	NC		%	40
			a-Chlordane	2022/04/27	NC		%	40
			g-Chlordane	2022/04/27	NC		%	40
			o,p-DDD	2022/04/27	NC		%	40
			p,p-DDD	2022/04/27	NC		%	40
			o,p-DDE	2022/04/27	NC		%	40
			p,p-DDE	2022/04/27	NC		%	40
			o,p-DDT	2022/04/27	NC		%	40
			p,p-DDT	2022/04/27	NC		%	40
			Dieldrin	2022/04/27	NC		%	40
			Lindane	2022/04/27	NC		%	40
			Endosulfan I (alpha)	2022/04/27	NC		%	40
			Endosulfan II (beta)	2022/04/27	NC		%	40
			Endrin	2022/04/27	NC		%	40
			Heptachlor	2022/04/27	NC		%	40
			Heptachlor epoxide	2022/04/27	NC		%	40
			Hexachlorobenzene	2022/04/27	NC		%	40
			Hexachlorobutadiene	2022/04/27	NC		%	40
			Hexachloroethane	2022/04/27	NC		%	40
			Methoxychlor	2022/04/27	NC		%	40
			Aroclor 1242	2022/04/27	NC		%	40
			Aroclor 1248	2022/04/27	NC		%	40
			Aroclor 1254	2022/04/27	NC		%	40
			Aroclor 1260	2022/04/27	NC		%	40
7958928	LPG	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2022/04/27		85	%	50 - 130
			Decachlorobiphenyl	2022/04/27		122	%	50 - 130
			Aldrin	2022/04/27	<0.0020		ug/g	
			a-Chlordane	2022/04/27	<0.0020		ug/g	
			g-Chlordane	2022/04/27	<0.0020		ug/g	
			o,p-DDD	2022/04/27	<0.0020		ug/g	
			p,p-DDD	2022/04/27	<0.0020		ug/g	
			o,p-DDE	2022/04/27	<0.0020		ug/g	
			p,p-DDE	2022/04/27	<0.0020		ug/g	
			o,p-DDT	2022/04/27	<0.0020		ug/g	
			p,p-DDT	2022/04/27	<0.0020		ug/g	
			Dieldrin	2022/04/27	<0.0020		ug/g	
			Lindane	2022/04/27	<0.0020		ug/g	
			Endosulfan I (alpha)	2022/04/27	<0.0020		ug/g	
			Endosulfan II (beta)	2022/04/27	<0.0020		ug/g	
			Endrin	2022/04/27	<0.0020		ug/g	
			Heptachlor	2022/04/27	<0.0020		ug/g	
			Heptachlor epoxide	2022/04/27	<0.0020		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Hexachlorobenzene	2022/04/27	<0.0020		ug/g	
			Hexachlorobutadiene	2022/04/27	<0.0020		ug/g	
			Hexachloroethane	2022/04/27	<0.0020		ug/g	
			Methoxychlor	2022/04/27	<0.0050		ug/g	
			Aroclor 1242	2022/04/27	<0.015		ug/g	
			Aroclor 1248	2022/04/27	<0.015		ug/g	
			Aroclor 1254	2022/04/27	<0.015		ug/g	
			Aroclor 1260	2022/04/27	<0.015		ug/g	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery for the flagged target analyte was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories's performance based limits. Results reported for this specific analyte with spike recoveries within this range are still valid but may have an associated low bias.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Bureau Veritas Job #: C2A0399
Report Date: 2022/04/28

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: IDA STREET, DRILLING
Your P.O. #: MAR3745
Sampler Initials: PH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Your P.O. #: MAR3475
Your Project #: 209.30125.00001
Your C.O.C. #: 873283-02-01

Attention: Alicia Dibben

SLR Consulting (Canada) Ltd
200-300 Town Centre Blvd.
Markham, ON
CANADA L3R 5Z6

Report Date: 2022/05/03
Report #: R7109583
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A7484
Received: 2022/04/22, 15:18

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	1	2022/04/26	2022/04/29	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	1	2022/04/28	2022/04/28	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2022/04/27	2022/04/27	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/04/28	2022/04/29	CAM SOP-00436	EPA 3060/7199 m
Acid Extractable Metals by ICPMS	1	2022/04/27	2022/04/27	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/04/23	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (2)	1	2022/04/28	2022/04/29	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	1	N/A	2022/04/25	CAM SOP-00307	EPA 8081/8082 m
pH CaCl2 EXTRACT	1	2022/04/28	2022/04/28	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	1	N/A	2022/04/29	CAM SOP-00102	EPA 6010C

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: MAR3475
Your Project #: 209.30125.00001
Your C.O.C. #: 873283-02-01

Attention: Alicia Dibben

SLR Consulting (Canada) Ltd
200-300 Town Centre Blvd.
Markham, ON
CANADA L3R 5Z6

Report Date: 2022/05/03
Report #: R7109583
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A7484

Received: 2022/04/22, 15:18

(1) Soils are reported on a dry weight basis unless otherwise specified.
(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
03 May 2022 14:21:09

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

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Bureau Veritas Job #: C2A7484
Report Date: 2022/05/03

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Your P.O. #: MAR3475
Sampler Initials: MJ

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SKV793			SKV793	
Sampling Date		2022/04/17 09:55			2022/04/17 09:55	
COC Number		873283-02-01			873283-02-01	
	UNITS	MW22-408_0-5	RDL	QC Batch	MW22-408_0-5 Lab-Dup	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.70		7954366		
Inorganics						
Conductivity	mS/cm	0.14	0.002	7961605		
Moisture	%	10	1.0	7956240		
Available (CaCl2) pH	pH	7.63		7964280	7.79	7964280
WAD Cyanide (Free)	ug/g	<0.01	0.01	7964042		

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		SKV793		
Sampling Date		2022/04/17 09:55		
COC Number		873283-02-01		
	UNITS	MW22-408_0-5	RDL	QC Batch
Inorganics				
Chromium (VI)	ug/g	3.3	0.18	7964111
Metals				
Hot Water Ext. Boron (B)	ug/g	<0.050	0.050	7959428
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7961887
Acid Extractable Arsenic (As)	ug/g	2.4	1.0	7961887
Acid Extractable Barium (Ba)	ug/g	24	0.50	7961887
Acid Extractable Beryllium (Be)	ug/g	0.22	0.20	7961887
Acid Extractable Boron (B)	ug/g	5.7	5.0	7961887
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7961887
Acid Extractable Chromium (Cr)	ug/g	9.4	1.0	7961887
Acid Extractable Cobalt (Co)	ug/g	3.4	0.10	7961887
Acid Extractable Copper (Cu)	ug/g	10	0.50	7961887
Acid Extractable Lead (Pb)	ug/g	7.0	1.0	7961887
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7961887
Acid Extractable Nickel (Ni)	ug/g	7.2	0.50	7961887
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7961887
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7961887
Acid Extractable Thallium (Tl)	ug/g	0.055	0.050	7961887
Acid Extractable Uranium (U)	ug/g	0.37	0.050	7961887
Acid Extractable Vanadium (V)	ug/g	16	5.0	7961887
Acid Extractable Zinc (Zn)	ug/g	34	5.0	7961887
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7961887

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Bureau Veritas ID		SKV793		
Sampling Date		2022/04/17 09:55		
COC Number		873283-02-01		
	UNITS	MW22-408_0-5	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/g	<0.0020	0.0020	7954032
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7954032
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7954032
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7954032
Total Endosulfan	ug/g	<0.0020	0.0020	7954032
Total PCB	ug/g	<0.015	0.015	7954032
Pesticides & Herbicides				
Aldrin	ug/g	<0.0020	0.0020	7963985
a-Chlordane	ug/g	<0.0020	0.0020	7963985
g-Chlordane	ug/g	<0.0020	0.0020	7963985
o,p-DDD	ug/g	<0.0020	0.0020	7963985
p,p-DDD	ug/g	<0.0020	0.0020	7963985
o,p-DDE	ug/g	<0.0020	0.0020	7963985
p,p-DDE	ug/g	<0.0020	0.0020	7963985
o,p-DDT	ug/g	<0.0020	0.0020	7963985
p,p-DDT	ug/g	<0.0020	0.0020	7963985
Dieldrin	ug/g	<0.0020	0.0020	7963985
Lindane	ug/g	<0.0020	0.0020	7963985
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7963985
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7963985
Endrin	ug/g	<0.0020	0.0020	7963985
Heptachlor	ug/g	<0.0020	0.0020	7963985
Heptachlor epoxide	ug/g	<0.0020	0.0020	7963985
Hexachlorobenzene	ug/g	<0.0020	0.0020	7963985
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7963985
Hexachloroethane	ug/g	<0.0020	0.0020	7963985
Methoxychlor	ug/g	<0.0050	0.0050	7963985
Aroclor 1242	ug/g	<0.015	0.015	7963985
Aroclor 1248	ug/g	<0.015	0.015	7963985
Aroclor 1254	ug/g	<0.015	0.015	7963985
Aroclor 1260	ug/g	<0.015	0.015	7963985
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	78		7963985
Decachlorobiphenyl	%	103		7963985

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2A7484
Report Date: 2022/05/03

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Your P.O. #: MAR3475
Sampler Initials: MJ

TEST SUMMARY

Bureau Veritas ID: SKV793
Sample ID: MW22-408_0-5
Matrix: Soil

Collected: 2022/04/17
Shipped:
Received: 2022/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7959428	2022/04/26	2022/04/29	Gagandeep Rai
Free (WAD) Cyanide	TECH	7964042	2022/04/28	2022/04/28	Aditiben Patel
Conductivity	AT	7961605	2022/04/27	2022/04/27	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7964111	2022/04/28	2022/04/29	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7961887	2022/04/27	2022/04/27	Viviana Canzonieri
Moisture	BAL	7956240	N/A	2022/04/23	Mathew Bowles
OC Pesticides (Selected) & PCB	GC/ECD	7963985	2022/04/28	2022/04/29	Li Peng
OC Pesticides Summed Parameters	CALC	7954032	N/A	2022/04/25	Automated Statchk
pH CaCl2 EXTRACT	AT	7964280	2022/04/28	2022/04/28	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7954366	N/A	2022/04/29	Automated Statchk

Bureau Veritas ID: SKV793 Dup
Sample ID: MW22-408_0-5
Matrix: Soil

Collected: 2022/04/17
Shipped:
Received: 2022/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7964280	2022/04/28	2022/04/28	Taslima Aktar

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7956240	MYG	RPD	Moisture	2022/04/23	0.67		%	20
7959428	GR1	Matrix Spike	Hot Water Ext. Boron (B)	2022/04/29		108	%	75 - 125
7959428	GR1	Spiked Blank	Hot Water Ext. Boron (B)	2022/04/29		98	%	75 - 125
7959428	GR1	Method Blank	Hot Water Ext. Boron (B)	2022/04/29	<0.050		ug/g	
7959428	GR1	RPD	Hot Water Ext. Boron (B)	2022/04/29	NC		%	40
7961605	KIT	Spiked Blank	Conductivity	2022/04/27		100	%	90 - 110
7961605	KIT	Method Blank	Conductivity	2022/04/27	<0.002		mS/cm	
7961605	KIT	RPD	Conductivity	2022/04/27	1.3		%	10
7961887	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2022/04/27		91	%	75 - 125
			Acid Extractable Arsenic (As)	2022/04/27		96	%	75 - 125
			Acid Extractable Barium (Ba)	2022/04/27		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/04/27		96	%	75 - 125
			Acid Extractable Boron (B)	2022/04/27		93	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/04/27		95	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/04/27		103	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/04/27		97	%	75 - 125
			Acid Extractable Copper (Cu)	2022/04/27		93	%	75 - 125
			Acid Extractable Lead (Pb)	2022/04/27		97	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/04/27		98	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/04/27		99	%	75 - 125
			Acid Extractable Selenium (Se)	2022/04/27		95	%	75 - 125
			Acid Extractable Silver (Ag)	2022/04/27		98	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/04/27		97	%	75 - 125
			Acid Extractable Uranium (U)	2022/04/27		98	%	75 - 125
			Acid Extractable Vanadium (V)	2022/04/27		100	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/04/27		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2022/04/27		88	%	75 - 125
7961887	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2022/04/27		99	%	80 - 120
			Acid Extractable Arsenic (As)	2022/04/27		99	%	80 - 120
			Acid Extractable Barium (Ba)	2022/04/27		98	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/04/27		96	%	80 - 120
			Acid Extractable Boron (B)	2022/04/27		97	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/04/27		98	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/04/27		99	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/04/27		99	%	80 - 120
			Acid Extractable Copper (Cu)	2022/04/27		98	%	80 - 120
			Acid Extractable Lead (Pb)	2022/04/27		102	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/04/27		101	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/04/27		100	%	80 - 120
			Acid Extractable Selenium (Se)	2022/04/27		98	%	80 - 120
			Acid Extractable Silver (Ag)	2022/04/27		101	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/04/27		101	%	80 - 120
			Acid Extractable Uranium (U)	2022/04/27		101	%	80 - 120
			Acid Extractable Vanadium (V)	2022/04/27		100	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/04/27		98	%	80 - 120
			Acid Extractable Mercury (Hg)	2022/04/27		90	%	80 - 120
7961887	VIV	Method Blank	Acid Extractable Antimony (Sb)	2022/04/27	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/04/27	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/04/27	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/04/27	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/04/27	<5.0		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Cadmium (Cd)	2022/04/27	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/04/27	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/04/27	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/04/27	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/04/27	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/04/27	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/04/27	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/04/27	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/04/27	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/04/27	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/04/27	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/04/27	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/04/27	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2022/04/27	<0.050		ug/g	
7961887	VIV	RPD	Acid Extractable Antimony (Sb)	2022/04/27	NC		%	30
			Acid Extractable Arsenic (As)	2022/04/27	4.1		%	30
			Acid Extractable Barium (Ba)	2022/04/27	4.6		%	30
			Acid Extractable Beryllium (Be)	2022/04/27	0.11		%	30
			Acid Extractable Boron (B)	2022/04/27	NC		%	30
			Acid Extractable Cadmium (Cd)	2022/04/27	NC		%	30
			Acid Extractable Chromium (Cr)	2022/04/27	4.5		%	30
			Acid Extractable Cobalt (Co)	2022/04/27	2.9		%	30
			Acid Extractable Copper (Cu)	2022/04/27	4.2		%	30
			Acid Extractable Lead (Pb)	2022/04/27	3.9		%	30
			Acid Extractable Molybdenum (Mo)	2022/04/27	NC		%	30
			Acid Extractable Nickel (Ni)	2022/04/27	3.8		%	30
			Acid Extractable Selenium (Se)	2022/04/27	NC		%	30
			Acid Extractable Silver (Ag)	2022/04/27	NC		%	30
			Acid Extractable Thallium (Tl)	2022/04/27	5.6		%	30
			Acid Extractable Uranium (U)	2022/04/27	3.4		%	30
			Acid Extractable Vanadium (V)	2022/04/27	3.7		%	30
			Acid Extractable Zinc (Zn)	2022/04/27	7.2		%	30
			Acid Extractable Mercury (Hg)	2022/04/27	NC		%	30
7963985	LPG	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2022/04/28		81	%	50 - 130
			Decachlorobiphenyl	2022/04/28		105	%	50 - 130
			Aldrin	2022/04/28		84	%	50 - 130
			a-Chlordane	2022/04/28		100	%	50 - 130
			g-Chlordane	2022/04/28		97	%	50 - 130
			o,p-DDD	2022/04/28		103	%	50 - 130
			p,p-DDD	2022/04/28		97	%	50 - 130
			o,p-DDE	2022/04/28		93	%	50 - 130
			p,p-DDE	2022/04/28		107	%	50 - 130
			o,p-DDT	2022/04/28		107	%	50 - 130
			p,p-DDT	2022/04/28		113	%	50 - 130
			Dieldrin	2022/04/28		107	%	50 - 130
			Lindane	2022/04/28		87	%	50 - 130
			Endosulfan I (alpha)	2022/04/28		97	%	50 - 130
			Endosulfan II (beta)	2022/04/28		97	%	50 - 130
			Endrin	2022/04/28		99	%	50 - 130
			Heptachlor	2022/04/28		82	%	50 - 130
			Heptachlor epoxide	2022/04/28		90	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Hexachlorobenzene	2022/04/28		91	%	50 - 130
			Hexachlorobutadiene	2022/04/28		69	%	50 - 130
			Hexachloroethane	2022/04/28		46 (1)	%	50 - 130
			Methoxychlor	2022/04/28		111	%	50 - 130
7963985	LPG	Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2022/04/28		83	%	50 - 130
			Decachlorobiphenyl	2022/04/28		107	%	50 - 130
			Aldrin	2022/04/28		84	%	50 - 130
			a-Chlordane	2022/04/28		91	%	50 - 130
			g-Chlordane	2022/04/28		87	%	50 - 130
			o,p-DDD	2022/04/28		100	%	50 - 130
			p,p-DDD	2022/04/28		97	%	50 - 130
			o,p-DDE	2022/04/28		93	%	50 - 130
			p,p-DDE	2022/04/28		94	%	50 - 130
			o,p-DDT	2022/04/28		98	%	50 - 130
			p,p-DDT	2022/04/28		105	%	50 - 130
			Dieldrin	2022/04/28		107	%	50 - 130
			Lindane	2022/04/28		82	%	50 - 130
			Endosulfan I (alpha)	2022/04/28		92	%	50 - 130
			Endosulfan II (beta)	2022/04/28		96	%	50 - 130
			Endrin	2022/04/28		98	%	50 - 130
			Heptachlor	2022/04/28		81	%	50 - 130
			Heptachlor epoxide	2022/04/28		89	%	50 - 130
			Hexachlorobenzene	2022/04/28		90	%	50 - 130
			Hexachlorobutadiene	2022/04/28		97	%	50 - 130
			Hexachloroethane	2022/04/28		86	%	50 - 130
			Methoxychlor	2022/04/28		111	%	50 - 130
7963985	LPG	RPD	Aldrin	2022/04/28	2.6		%	40
			a-Chlordane	2022/04/28	5.7		%	40
			g-Chlordane	2022/04/28	5.1		%	40
			o,p-DDD	2022/04/28	12		%	40
			p,p-DDD	2022/04/28	14		%	40
			o,p-DDE	2022/04/28	1.8		%	40
			p,p-DDE	2022/04/28	6.9		%	40
			o,p-DDT	2022/04/28	3.6		%	40
			p,p-DDT	2022/04/28	3.6		%	40
			Dieldrin	2022/04/28	14		%	40
			Lindane	2022/04/28	15		%	40
			Endosulfan I (alpha)	2022/04/28	11		%	40
			Endosulfan II (beta)	2022/04/28	14		%	40
			Endrin	2022/04/28	15		%	40
			Heptachlor	2022/04/28	3.2		%	40
			Heptachlor epoxide	2022/04/28	12		%	40
			Hexachlorobenzene	2022/04/28	0.20		%	40
			Hexachlorobutadiene	2022/04/28	3.5		%	40
			Hexachloroethane	2022/04/28	15		%	40
			Methoxychlor	2022/04/28	14		%	40
			Aldrin	2022/04/28	NC		%	40
			a-Chlordane	2022/04/28	NC		%	40
			g-Chlordane	2022/04/28	NC		%	40
			o,p-DDD	2022/04/28	NC		%	40
			p,p-DDD	2022/04/28	NC		%	40

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			o,p-DDE	2022/04/28	NC		%	40
			p,p-DDE	2022/04/28	NC		%	40
			o,p-DDT	2022/04/28	NC		%	40
			p,p-DDT	2022/04/28	NC		%	40
			Dieldrin	2022/04/28	NC		%	40
			Lindane	2022/04/28	NC		%	40
			Endosulfan I (alpha)	2022/04/28	NC		%	40
			Endosulfan II (beta)	2022/04/28	NC		%	40
			Endrin	2022/04/28	NC		%	40
			Heptachlor	2022/04/28	NC		%	40
			Heptachlor epoxide	2022/04/28	NC		%	40
			Hexachlorobenzene	2022/04/28	NC		%	40
			Hexachlorobutadiene	2022/04/28	NC		%	40
			Hexachloroethane	2022/04/28	NC		%	40
			Methoxychlor	2022/04/28	NC		%	40
			Aroclor 1242	2022/04/28	NC		%	40
			Aroclor 1248	2022/04/28	NC		%	40
			Aroclor 1254	2022/04/28	NC		%	40
			Aroclor 1260	2022/04/28	NC		%	40
7963985	LPG	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2022/04/28		74	%	50 - 130
			Decachlorobiphenyl	2022/04/28		100	%	50 - 130
			Aldrin	2022/04/28	<0.0020		ug/g	
			a-Chlordane	2022/04/28	<0.0020		ug/g	
			g-Chlordane	2022/04/28	<0.0020		ug/g	
			o,p-DDD	2022/04/28	<0.0020		ug/g	
			p,p-DDD	2022/04/28	<0.0020		ug/g	
			o,p-DDE	2022/04/28	<0.0020		ug/g	
			p,p-DDE	2022/04/28	<0.0020		ug/g	
			o,p-DDT	2022/04/28	<0.0020		ug/g	
			p,p-DDT	2022/04/28	<0.0020		ug/g	
			Dieldrin	2022/04/28	<0.0020		ug/g	
			Lindane	2022/04/28	<0.0020		ug/g	
			Endosulfan I (alpha)	2022/04/28	<0.0020		ug/g	
			Endosulfan II (beta)	2022/04/28	<0.0020		ug/g	
			Endrin	2022/04/28	<0.0020		ug/g	
			Heptachlor	2022/04/28	<0.0020		ug/g	
			Heptachlor epoxide	2022/04/28	<0.0020		ug/g	
			Hexachlorobenzene	2022/04/28	<0.0020		ug/g	
			Hexachlorobutadiene	2022/04/28	<0.0020		ug/g	
			Hexachloroethane	2022/04/28	<0.0020		ug/g	
			Methoxychlor	2022/04/28	<0.0050		ug/g	
			Aroclor 1242	2022/04/28	<0.015		ug/g	
			Aroclor 1248	2022/04/28	<0.015		ug/g	
			Aroclor 1254	2022/04/28	<0.015		ug/g	
			Aroclor 1260	2022/04/28	<0.015		ug/g	
7964042	ABP	Matrix Spike	WAD Cyanide (Free)	2022/04/28		90	%	75 - 125
7964042	ABP	Spiked Blank	WAD Cyanide (Free)	2022/04/28		91	%	80 - 120
7964042	ABP	Method Blank	WAD Cyanide (Free)	2022/04/28	<0.01		ug/g	
7964042	ABP	RPD	WAD Cyanide (Free)	2022/04/28	NC		%	35
7964111	SUR	Matrix Spike	Chromium (VI)	2022/04/29		96	%	70 - 130
7964111	SUR	Spiked Blank	Chromium (VI)	2022/04/29		93	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7964111	SUR	Method Blank	Chromium (VI)	2022/04/29	<0.18		ug/g	
7964111	SUR	RPD	Chromium (VI)	2022/04/29	NC		%	35
7964280	TAK	Spiked Blank	Available (CaCl2) pH	2022/04/28		100	%	97 - 103
7964280	TAK	RPD [SKV793-01]	Available (CaCl2) pH	2022/04/28	2.1		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery for the flagged target analyte was below the control limit as stipulated by Ontario Regulation 153, however, this recovery is still within Bureau Veritas Laboratories' performance based limits. Results reported for this specific analyte with spike recoveries within this range are still valid but may have an associated low bias.

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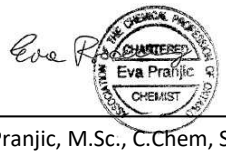
Bureau Veritas Job #: C2A7484
Report Date: 2022/05/03

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Your P.O. #: MAR3475
Sampler Initials: MJ

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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Your P.O. #: MAR3475
Your Project #: 209.30125.00001
Site Location: Ida Street
Your C.O.C. #: 878149-02-01

Attention: Alicia Dibben

SLR Consulting (Canada) Ltd
200-300 Town Centre Blvd.
Markham, ON
CANADA L3R 5Z6

Report Date: 2022/05/18
Report #: R7129945
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C6952
Received: 2022/05/10, 18:20

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	1	N/A	2022/05/13	CAM SOP-00301	EPA 8270D m
Chloride by Automated Colourimetry	1	N/A	2022/05/16	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	1	N/A	2022/05/13	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	1	N/A	2022/05/12	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2022/05/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/05/12	2022/05/13	CAM SOP-00316	CCME PHC-CWS m
Mercury	1	2022/05/12	2022/05/12	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	1	N/A	2022/05/18	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2022/05/12	2022/05/13	CAM SOP-00318	EPA 8270D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s

Your P.O. #: MAR3475
Your Project #: 209.30125.00001
Site Location: Ida Street
Your C.O.C. #: 878149-02-01

Attention: Alicia Dibben

SLR Consulting (Canada) Ltd
200-300 Town Centre Blvd.
Markham, ON
CANADA L3R 5Z6

Report Date: 2022/05/18
Report #: R7129945
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C6952

Received: 2022/05/10, 18:20

Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Bureau Veritas
18 May 2022 13:34:50

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

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For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Job #: C2C6952
Report Date: 2022/05/18

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: Ida Street
Your P.O. #: MAR3475
Sampler Initials: MG

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		SPA811		
Sampling Date		2022/05/10 14:25		
COC Number		878149-02-01		
	UNITS	**ESA-1**	**RDL**	**QC Batch**
Inorganics				
WAD Cyanide (Free)	ug/L	<1	1	7991656
Dissolved Chloride (Cl-)	mg/L	130	1.0	7992040

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2C6952
Report Date: 2022/05/18

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: Ida Street
Your P.O. #: MAR3475
Sampler Initials: MG

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		SPA811			SPA811		
Sampling Date		2022/05/10 14:25			2022/05/10 14:25		
COC Number		878149-02-01			878149-02-01		
	UNITS	ESA-1	RDL	QC Batch	ESA-1 Lab-Dup	RDL	QC Batch
Metals							
Chromium (VI)	ug/L	<0.50	0.50	7989436			
Mercury (Hg)	ug/L	<0.10	0.10	7991350			
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7994016	<0.50	0.50	7994016
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7994016	<1.0	1.0	7994016
Dissolved Barium (Ba)	ug/L	43	2.0	7994016	43	2.0	7994016
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7994016	<0.40	0.40	7994016
Dissolved Boron (B)	ug/L	33	10	7994016	33	10	7994016
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7994016	<0.090	0.090	7994016
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7994016	<5.0	5.0	7994016
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7994016	<0.50	0.50	7994016
Dissolved Copper (Cu)	ug/L	1.1	0.90	7994016	1.2	0.90	7994016
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7994016	<0.50	0.50	7994016
Dissolved Molybdenum (Mo)	ug/L	0.68	0.50	7994016	0.64	0.50	7994016
Dissolved Nickel (Ni)	ug/L	1.5	1.0	7994016	1.5	1.0	7994016
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7994016	<2.0	2.0	7994016
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7994016	<0.090	0.090	7994016
Dissolved Sodium (Na)	ug/L	79000	100	7994016	77000	100	7994016
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7994016	<0.050	0.050	7994016
Dissolved Uranium (U)	ug/L	0.84	0.10	7994016	0.90	0.10	7994016
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7994016	<0.50	0.50	7994016
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7994016	<5.0	5.0	7994016

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		SPA811		
Sampling Date		2022/05/10 14:25		
COC Number		878149-02-01		
	UNITS	ESA-1	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	7989189
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	7992016
Acenaphthylene	ug/L	<0.050	0.050	7992016
Anthracene	ug/L	<0.050	0.050	7992016
Benzo(a)anthracene	ug/L	<0.050	0.050	7992016
Benzo(a)pyrene	ug/L	<0.0090	0.0090	7992016
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	7992016
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	7992016
Benzo(k)fluoranthene	ug/L	<0.050	0.050	7992016
Chrysene	ug/L	<0.050	0.050	7992016
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	7992016
Fluoranthene	ug/L	<0.050	0.050	7992016
Fluorene	ug/L	<0.050	0.050	7992016
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	7992016
1-Methylnaphthalene	ug/L	<0.050	0.050	7992016
2-Methylnaphthalene	ug/L	<0.050	0.050	7992016
Naphthalene	ug/L	<0.050	0.050	7992016
Phenanthrene	ug/L	<0.030	0.030	7992016
Pyrene	ug/L	<0.050	0.050	7992016
Surrogate Recovery (%)				
D10-Anthracene	%	91		7992016
D14-Terphenyl (FS)	%	88		7992016
D8-Acenaphthylene	%	86		7992016

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SPA811		
Sampling Date		2022/05/10 14:25		
COC Number		878149-02-01		
	UNITS	ESA-1	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	7994344
Toluene	ug/L	<0.20	0.20	7994344
Ethylbenzene	ug/L	<0.20	0.20	7994344
o-Xylene	ug/L	<0.20	0.20	7994344
p+m-Xylene	ug/L	<0.40	0.40	7994344
Total Xylenes	ug/L	<0.40	0.40	7994344
F1 (C6-C10)	ug/L	<25	25	7994344
F1 (C6-C10) - BTEX	ug/L	<25	25	7994344
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7992032
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7992032
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7992032
Reached Baseline at C50	ug/L	Yes		7992032
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	102		7994344
4-Bromofluorobenzene	%	97		7994344
D10-o-Xylene	%	90		7994344
D4-1,2-Dichloroethane	%	102		7994344
o-Terphenyl	%	95		7992032

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2C6952
Report Date: 2022/05/18

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: Ida Street
Your P.O. #: MAR3475
Sampler Initials: MG

TEST SUMMARY

Bureau Veritas ID: SPA811
Sample ID: ESA-1
Matrix: Water

Collected: 2022/05/10
Shipped:
Received: 2022/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7989189	N/A	2022/05/13	Automated Statchk
Chloride by Automated Colourimetry	KONE	7992040	N/A	2022/05/16	Alina Dobreanu
Chromium (VI) in Water	IC	7989436	N/A	2022/05/13	Violeta Porcila
Free (WAD) Cyanide	SKAL/CN	7991656	N/A	2022/05/12	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7994344	N/A	2022/05/13	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7992032	2022/05/12	2022/05/13	Anna Stuglik-Rolland
Mercury	CV/AA	7991350	2022/05/12	2022/05/12	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	7994016	N/A	2022/05/18	Arefa Dabhad
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7992016	2022/05/12	2022/05/13	Mitesh Raj

Bureau Veritas ID: SPA811 Dup
Sample ID: ESA-1
Matrix: Water

Collected: 2022/05/10
Shipped:
Received: 2022/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7994016	N/A	2022/05/18	Arefa Dabhad

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7989436	VP2	Matrix Spike	Chromium (VI)	2022/05/13		97	%	80 - 120
7989436	VP2	Spiked Blank	Chromium (VI)	2022/05/13		99	%	80 - 120
7989436	VP2	Method Blank	Chromium (VI)	2022/05/13	<0.50		ug/L	
7989436	VP2	RPD	Chromium (VI)	2022/05/13	1.8		%	20
7991350	JWK	Matrix Spike	Mercury (Hg)	2022/05/12		90	%	75 - 125
7991350	JWK	Spiked Blank	Mercury (Hg)	2022/05/12		91	%	80 - 120
7991350	JWK	Method Blank	Mercury (Hg)	2022/05/12	<0.10		ug/L	
7991350	JWK	RPD	Mercury (Hg)	2022/05/12	NC		%	20
7991656	NS3	Matrix Spike	WAD Cyanide (Free)	2022/05/12		94	%	80 - 120
7991656	NS3	Spiked Blank	WAD Cyanide (Free)	2022/05/12		95	%	80 - 120
7991656	NS3	Method Blank	WAD Cyanide (Free)	2022/05/12	<1		ug/L	
7991656	NS3	RPD	WAD Cyanide (Free)	2022/05/12	NC		%	20
7992016	RAJ	Matrix Spike [SPA811-01]	D10-Anthracene	2022/05/13		93	%	50 - 130
			D14-Terphenyl (FS)	2022/05/13		90	%	50 - 130
			D8-Acenaphthylene	2022/05/13		88	%	50 - 130
			Acenaphthene	2022/05/13		88	%	50 - 130
			Acenaphthylene	2022/05/13		86	%	50 - 130
			Anthracene	2022/05/13		93	%	50 - 130
			Benzo(a)anthracene	2022/05/13		98	%	50 - 130
			Benzo(a)pyrene	2022/05/13		86	%	50 - 130
			Benzo(b/j)fluoranthene	2022/05/13		97	%	50 - 130
			Benzo(g,h,i)perylene	2022/05/13		96	%	50 - 130
			Benzo(k)fluoranthene	2022/05/13		95	%	50 - 130
			Chrysene	2022/05/13		98	%	50 - 130
			Dibenzo(a,h)anthracene	2022/05/13		91	%	50 - 130
			Fluoranthene	2022/05/13		105	%	50 - 130
			Fluorene	2022/05/13		93	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/05/13		98	%	50 - 130
			1-Methylnaphthalene	2022/05/13		83	%	50 - 130
			2-Methylnaphthalene	2022/05/13		80	%	50 - 130
			Naphthalene	2022/05/13		78	%	50 - 130
			Phenanthrene	2022/05/13		96	%	50 - 130
			Pyrene	2022/05/13		103	%	50 - 130
7992016	RAJ	Spiked Blank	D10-Anthracene	2022/05/13		95	%	50 - 130
			D14-Terphenyl (FS)	2022/05/13		91	%	50 - 130
			D8-Acenaphthylene	2022/05/13		89	%	50 - 130
			Acenaphthene	2022/05/13		90	%	50 - 130
			Acenaphthylene	2022/05/13		88	%	50 - 130
			Anthracene	2022/05/13		95	%	50 - 130
			Benzo(a)anthracene	2022/05/13		100	%	50 - 130
			Benzo(a)pyrene	2022/05/13		87	%	50 - 130
			Benzo(b/j)fluoranthene	2022/05/13		98	%	50 - 130
			Benzo(g,h,i)perylene	2022/05/13		99	%	50 - 130
			Benzo(k)fluoranthene	2022/05/13		97	%	50 - 130
			Chrysene	2022/05/13		99	%	50 - 130
			Dibenzo(a,h)anthracene	2022/05/13		93	%	50 - 130
			Fluoranthene	2022/05/13		106	%	50 - 130
			Fluorene	2022/05/13		93	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/05/13		100	%	50 - 130
			1-Methylnaphthalene	2022/05/13		87	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2022/05/13		83	%	50 - 130
			Naphthalene	2022/05/13		80	%	50 - 130
			Phenanthrene	2022/05/13		96	%	50 - 130
			Pyrene	2022/05/13		104	%	50 - 130
7992016	RAJ	Method Blank	D10-Anthracene	2022/05/13		96	%	50 - 130
			D14-Terphenyl (FS)	2022/05/13		94	%	50 - 130
			D8-Acenaphthylene	2022/05/13		89	%	50 - 130
			Acenaphthene	2022/05/13	<0.050		ug/L	
			Acenaphthylene	2022/05/13	<0.050		ug/L	
			Anthracene	2022/05/13	<0.050		ug/L	
			Benzo(a)anthracene	2022/05/13	<0.050		ug/L	
			Benzo(a)pyrene	2022/05/13	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2022/05/13	<0.050		ug/L	
			Benzo(g,h,i)perylene	2022/05/13	<0.050		ug/L	
			Benzo(k)fluoranthene	2022/05/13	<0.050		ug/L	
			Chrysene	2022/05/13	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2022/05/13	<0.050		ug/L	
			Fluoranthene	2022/05/13	<0.050		ug/L	
			Fluorene	2022/05/13	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2022/05/13	<0.050		ug/L	
			1-Methylnaphthalene	2022/05/13	<0.050		ug/L	
			2-Methylnaphthalene	2022/05/13	<0.050		ug/L	
			Naphthalene	2022/05/13	<0.050		ug/L	
			Phenanthrene	2022/05/13	<0.030		ug/L	
			Pyrene	2022/05/13	<0.050		ug/L	
7992016	RAJ	RPD	Acenaphthene	2022/05/13	NC		%	30
			Acenaphthylene	2022/05/13	NC		%	30
			Anthracene	2022/05/13	NC		%	30
			Benzo(a)anthracene	2022/05/13	NC		%	30
			Benzo(a)pyrene	2022/05/13	NC		%	30
			Benzo(b/j)fluoranthene	2022/05/13	NC		%	30
			Benzo(g,h,i)perylene	2022/05/13	NC		%	30
			Benzo(k)fluoranthene	2022/05/13	NC		%	30
			Chrysene	2022/05/13	NC		%	30
			Dibenzo(a,h)anthracene	2022/05/13	NC		%	30
			Fluoranthene	2022/05/13	NC		%	30
			Fluorene	2022/05/13	NC		%	30
			Indeno(1,2,3-cd)pyrene	2022/05/13	NC		%	30
			1-Methylnaphthalene	2022/05/13	NC		%	30
			2-Methylnaphthalene	2022/05/13	3.2		%	30
			Naphthalene	2022/05/13	14		%	30
			Phenanthrene	2022/05/13	2.0		%	30
			Pyrene	2022/05/13	NC		%	30
7992032	AS2	Matrix Spike	o-Terphenyl	2022/05/13		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/05/13		106	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/05/13		108	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/05/13		106	%	60 - 130
7992032	AS2	Spiked Blank	o-Terphenyl	2022/05/13		102	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/05/13		106	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/05/13		112	%	60 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F4 (C34-C50 Hydrocarbons)	2022/05/13		107	%	60 - 130
7992032	AS2	Method Blank	o-Terphenyl	2022/05/13		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/05/13	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2022/05/13	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2022/05/13	<200		ug/L	
7992032	AS2	RPD	F2 (C10-C16 Hydrocarbons)	2022/05/13	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/05/13	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/05/13	NC		%	30
7992040	ADB	Matrix Spike	Dissolved Chloride (Cl-)	2022/05/16		111	%	80 - 120
7992040	ADB	Spiked Blank	Dissolved Chloride (Cl-)	2022/05/16		104	%	80 - 120
7992040	ADB	Method Blank	Dissolved Chloride (Cl-)	2022/05/16	<1.0		mg/L	
7992040	ADB	RPD	Dissolved Chloride (Cl-)	2022/05/16	2.3		%	20
7994016	ADA	Matrix Spike [SPA811-05]	Dissolved Antimony (Sb)	2022/05/18		111	%	80 - 120
			Dissolved Arsenic (As)	2022/05/18		103	%	80 - 120
			Dissolved Barium (Ba)	2022/05/18		100	%	80 - 120
			Dissolved Beryllium (Be)	2022/05/18		99	%	80 - 120
			Dissolved Boron (B)	2022/05/18		94	%	80 - 120
			Dissolved Cadmium (Cd)	2022/05/18		106	%	80 - 120
			Dissolved Chromium (Cr)	2022/05/18		100	%	80 - 120
			Dissolved Cobalt (Co)	2022/05/18		99	%	80 - 120
			Dissolved Copper (Cu)	2022/05/18		103	%	80 - 120
			Dissolved Lead (Pb)	2022/05/18		95	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/05/18		108	%	80 - 120
			Dissolved Nickel (Ni)	2022/05/18		94	%	80 - 120
			Dissolved Selenium (Se)	2022/05/18		102	%	80 - 120
			Dissolved Silver (Ag)	2022/05/18		99	%	80 - 120
			Dissolved Sodium (Na)	2022/05/18		NC	%	80 - 120
			Dissolved Thallium (Tl)	2022/05/18		95	%	80 - 120
			Dissolved Uranium (U)	2022/05/18		99	%	80 - 120
			Dissolved Vanadium (V)	2022/05/18		96	%	80 - 120
			Dissolved Zinc (Zn)	2022/05/18		98	%	80 - 120
7994016	ADA	Spiked Blank	Dissolved Antimony (Sb)	2022/05/18		102	%	80 - 120
			Dissolved Arsenic (As)	2022/05/18		100	%	80 - 120
			Dissolved Barium (Ba)	2022/05/18		101	%	80 - 120
			Dissolved Beryllium (Be)	2022/05/18		100	%	80 - 120
			Dissolved Boron (B)	2022/05/18		95	%	80 - 120
			Dissolved Cadmium (Cd)	2022/05/18		102	%	80 - 120
			Dissolved Chromium (Cr)	2022/05/18		96	%	80 - 120
			Dissolved Cobalt (Co)	2022/05/18		100	%	80 - 120
			Dissolved Copper (Cu)	2022/05/18		98	%	80 - 120
			Dissolved Lead (Pb)	2022/05/18		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/05/18		102	%	80 - 120
			Dissolved Nickel (Ni)	2022/05/18		96	%	80 - 120
			Dissolved Selenium (Se)	2022/05/18		95	%	80 - 120
			Dissolved Silver (Ag)	2022/05/18		93	%	80 - 120
			Dissolved Sodium (Na)	2022/05/18		95	%	80 - 120
			Dissolved Thallium (Tl)	2022/05/18		96	%	80 - 120
			Dissolved Uranium (U)	2022/05/18		91	%	80 - 120
			Dissolved Vanadium (V)	2022/05/18		94	%	80 - 120
			Dissolved Zinc (Zn)	2022/05/18		96	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7994016	ADA	Method Blank	Dissolved Antimony (Sb)	2022/05/18	<0.50		ug/L	
			Dissolved Arsenic (As)	2022/05/18	<1.0		ug/L	
			Dissolved Barium (Ba)	2022/05/18	<2.0		ug/L	
			Dissolved Beryllium (Be)	2022/05/18	<0.40		ug/L	
			Dissolved Boron (B)	2022/05/18	<10		ug/L	
			Dissolved Cadmium (Cd)	2022/05/18	<0.090		ug/L	
			Dissolved Chromium (Cr)	2022/05/18	<5.0		ug/L	
			Dissolved Cobalt (Co)	2022/05/18	<0.50		ug/L	
			Dissolved Copper (Cu)	2022/05/18	<0.90		ug/L	
			Dissolved Lead (Pb)	2022/05/18	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2022/05/18	<0.50		ug/L	
			Dissolved Nickel (Ni)	2022/05/18	<1.0		ug/L	
			Dissolved Selenium (Se)	2022/05/18	<2.0		ug/L	
			Dissolved Silver (Ag)	2022/05/18	<0.090		ug/L	
			Dissolved Sodium (Na)	2022/05/18	<100		ug/L	
			Dissolved Thallium (Tl)	2022/05/18	<0.050		ug/L	
			Dissolved Uranium (U)	2022/05/18	<0.10		ug/L	
			Dissolved Vanadium (V)	2022/05/18	<0.50		ug/L	
			Dissolved Zinc (Zn)	2022/05/18	<5.0		ug/L	
7994016	ADA	RPD [SPA811-05]	Dissolved Antimony (Sb)	2022/05/18	NC		%	20
			Dissolved Arsenic (As)	2022/05/18	NC		%	20
			Dissolved Barium (Ba)	2022/05/18	1.5		%	20
			Dissolved Beryllium (Be)	2022/05/18	NC		%	20
			Dissolved Boron (B)	2022/05/18	0.34		%	20
			Dissolved Cadmium (Cd)	2022/05/18	NC		%	20
			Dissolved Chromium (Cr)	2022/05/18	NC		%	20
			Dissolved Cobalt (Co)	2022/05/18	NC		%	20
			Dissolved Copper (Cu)	2022/05/18	4.9		%	20
			Dissolved Lead (Pb)	2022/05/18	NC		%	20
			Dissolved Molybdenum (Mo)	2022/05/18	5.0		%	20
			Dissolved Nickel (Ni)	2022/05/18	5.5		%	20
			Dissolved Selenium (Se)	2022/05/18	NC		%	20
			Dissolved Silver (Ag)	2022/05/18	NC		%	20
			Dissolved Sodium (Na)	2022/05/18	1.8		%	20
			Dissolved Thallium (Tl)	2022/05/18	NC		%	20
			Dissolved Uranium (U)	2022/05/18	6.9		%	20
			Dissolved Vanadium (V)	2022/05/18	NC		%	20
			Dissolved Zinc (Zn)	2022/05/18	NC		%	20
7994344	AAI	Matrix Spike	1,4-Difluorobenzene	2022/05/13		102	%	70 - 130
			4-Bromofluorobenzene	2022/05/13		99	%	70 - 130
			D10-o-Xylene	2022/05/13		94	%	70 - 130
			D4-1,2-Dichloroethane	2022/05/13		102	%	70 - 130
			Benzene	2022/05/13		104	%	50 - 140
			Toluene	2022/05/13		102	%	50 - 140
			Ethylbenzene	2022/05/13		108	%	50 - 140
			o-Xylene	2022/05/13		105	%	50 - 140
			p+m-Xylene	2022/05/13		105	%	50 - 140
			F1 (C6-C10)	2022/05/13		96	%	60 - 140
7994344	AAI	Spiked Blank	1,4-Difluorobenzene	2022/05/13		103	%	70 - 130
			4-Bromofluorobenzene	2022/05/13		98	%	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D10-o-Xylene	2022/05/13		97	%	70 - 130
			D4-1,2-Dichloroethane	2022/05/13		100	%	70 - 130
			Benzene	2022/05/13		107	%	50 - 140
			Toluene	2022/05/13		106	%	50 - 140
			Ethylbenzene	2022/05/13		114	%	50 - 140
			o-Xylene	2022/05/13		108	%	50 - 140
			p+m-Xylene	2022/05/13		108	%	50 - 140
			F1 (C6-C10)	2022/05/13		101	%	60 - 140
7994344	AAI	Method Blank	1,4-Difluorobenzene	2022/05/13		104	%	70 - 130
			4-Bromofluorobenzene	2022/05/13		97	%	70 - 130
			D10-o-Xylene	2022/05/13		93	%	70 - 130
			D4-1,2-Dichloroethane	2022/05/13		100	%	70 - 130
			Benzene	2022/05/13	<0.20		ug/L	
			Toluene	2022/05/13	<0.20		ug/L	
			Ethylbenzene	2022/05/13	<0.20		ug/L	
			o-Xylene	2022/05/13	<0.20		ug/L	
			p+m-Xylene	2022/05/13	<0.40		ug/L	
			Total Xylenes	2022/05/13	<0.40		ug/L	
			F1 (C6-C10)	2022/05/13	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/05/13	<25		ug/L	
7994344	AAI	RPD	Benzene	2022/05/13	NC		%	30
			Toluene	2022/05/13	NC		%	30
			Ethylbenzene	2022/05/13	NC		%	30
			o-Xylene	2022/05/13	NC		%	30
			p+m-Xylene	2022/05/13	NC		%	30
			Total Xylenes	2022/05/13	NC		%	30
			F1 (C6-C10)	2022/05/13	NC		%	30
			F1 (C6-C10) - BTEX	2022/05/13	NC		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

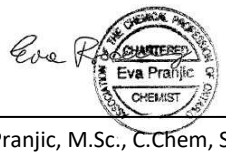
Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Bureau Veritas Job #: C2C6952
Report Date: 2022/05/18

SLR Consulting (Canada) Ltd
Client Project #: 209.30125.00001
Site Location: Ida Street
Your P.O. #: MAR3475
Sampler Initials: MG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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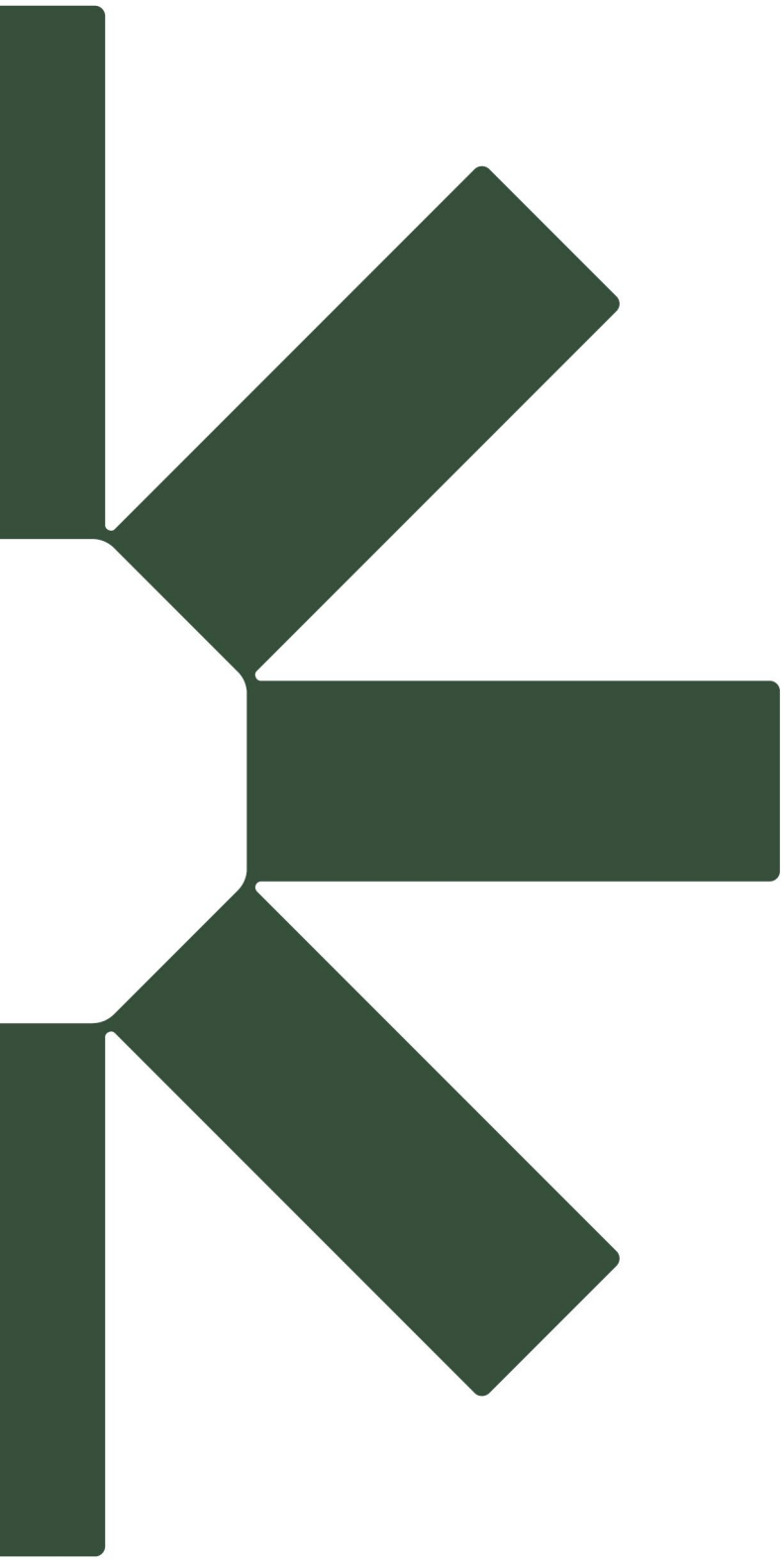

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