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Hatch Corporation

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Vancouver, V6E 3X2
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September 23, 2021

Attn: Ian Mckenna, Civil Engineer

Re: Canadian Pacific Rail Commissioner Street Rail Expansion – Refined Soil Characterization – R2
Commissioner Street, Vancouver, Canada

Introduction

Core6 Environmental Ltd (Core6) was retained by Hatch Corporation (Hatch) to further refine a previous phase of soil characterization along an approximately 2,200 m section of the Canadian Pacific Railway (CPR) Commissioner Street Rail Expansion, located in Vancouver, BC (the "Project Area"). The Project Area is located along Commissioner Street between the Commissioner Street Overpass and Victoria Drive, as illustrated on Figure 1. This letter report has been revised based on comments received on the R1 version.

Core6 understands that Hatch is supporting CPR with upgrades to the Viterra Cascadia West section of rail. The upgrades include installation of two new tracks which will require the excavation and removal of geotechnically unsuitable soils. The objectives for this phase of work were to:

- assess soil quality at proposed sample locations within the Project Area to further refine the previous characterization completed coincident with a geotechnical drilling program; and
- provision of recommendations with respect to soil management based on the findings of the soil characterization relative to select soil quality regulatory screening levels.

Regulatory Framework

Soil quality assessment and management was considered in accordance with the BC *Environmental Management Act* (EMA) and Contaminated Sites Regulation (CSR), as well as the Canadian Council of Ministers of the Environment's (CCME) Environmental Quality Guidelines (EQGs). To support decision-making with respect to potential soil management options, the analytical results were compared to CSR industrial and residential land use low-density (IL and RLLD) standards, as well as the CCME IL soil quality guidelines.

The Canadian federal CCME IL guidelines were considered for the potential re-use of soil in the Project Area. If soil chemical concentrations were less than the CCME guidelines, the soil was considered potentially reusable within the industrial rail corridor. Soil quality guidelines considering the protection of

marine aquatic life were considered applicable given the projects proximity to the Burrard Inlet. Soil quality guidelines considering the protection of freshwater aquatic life were not considered applicable given the lack of freshwater aquatic habitat in the Project Area.

There are CCME guidelines for naphthalene and phenanthrene (0.013 mg/kg and 0.046 mg/kg respectively) in soil that are specific to the protection of freshwater aquatic life. Since protection of freshwater life is not applicable in the Project Area, the interim soil quality criteria for naphthalene and phenanthrene (22 mg/kg and 50 mg/kg respectively) were applied in accordance with CCME guidance.

The BC provincial CSR standards were considered potentially applicable for the offsite disposal of soils that are not re-used onsite. The standards that commonly apply to potential soil disposal locations were considered including the CSR soil quality standards for the protection of freshwater aquatic life (AWf), marine aquatic life (AWm), and drinking water (DW).

Soil with concentrations exceeding the CSR IL standards are classified as Waste (IL+) under the EMA and are required to be disposed of at a permitted facility. Soils with concentrations less than the CSR IL or RLLD standards are suitable for use on industrial land or low-density residential land, respectively, or disposal off-site at an appropriately permitted facility.

Methodology

Between May 25 to May 27, 2021, Core6 completed soil sampling in the Project Area. Thirty-three soil samples were collected from thirty-one sampling locations as shown in Figure 1. Sample depth ranged from 0.2 to 1.2 mbgs. The sample locations were north of the existing yard tracks either within the swale adjacent to the railway, along the laneway that parallels Commissioner Street, or within Commissioner Street itself. The samples were collected at a minimum distance of 15 ft (4.6 m) from the existing rail lines in accordance with project rail safety requirements.

Sample locations were predetermined by Core6 based on the results of the Initial Environmental Assessment (IEA) completed in April 2020. The Project Area was divided into segments based on the CSR Classification of the soil determined in the IEA. Sample locations were spaced to meet the following criteria for each segment:

- Where the CSR classification was suspect RL-, one sample was to be collected per 250 – 300 m³ of soil anticipated for excavation; and
- Where the CSR classification was suspect IL+, one sample was to be collected per 150 m³ of soil anticipated for excavation.

Soil samples were not collected from chainage 1+213 (Sample Location 19) and 1+666 (Sample Location 25) due to the ground composition consisting entirely of rail ballast; insufficient suitable material was present for sample collection. Analytical methods for metals analysis of soil involve first sieving and discarding material with a grain size greater than 2 mm diameter.

Sampling locations were scanned using Ground Penetrating Radar (GPR) and a Metal Detector by the utility locating contractor (Underhill) before excavation to mitigate the potential of encountering

underground utilities. Sampling locations were exposed by TYBO Contracting using a shovel and hand auger. Discrete soil samples were collected from the auger blades or from the base of the excavation. A dedicated pair of nitrile gloves was used for the collection of each sample. The samples were placed in two laboratory-supplied, labeled, 125mL glass jars. After each sample was collected, the shovel and/or hand auger was decontaminated by scrubbing the blades with a coarse bristled brush to remove bulk material, sprayed with a water/Alconox solution, and then wiped dry with a clean shop towel.

Samples were submitted to AGAT Laboratories under chain-of-custody and analyzed for total metals, sodium chloride via the saturated paste method, light extractable petroleum hydrocarbons (LEPHs), heavy extractable petroleum hydrocarbons (HEPHs), and polycyclic aromatic hydrocarbons (PAHs).

Two blind field duplicate samples were collected for quality assurance and quality control (QAQC) purposes, representing one duplicate per every fifteen samples collected. Duplicate samples were collected by filling a 9" by 11" sterilized laboratory provided soil bag with the soil sample. The sample was then homogenized within the bag and partitioned into the glass jars for both the sample and its duplicate. The relative percent differences (RPDs) were calculated for each corresponding characterization/duplication parameter pair where their concentrations were at or greater than the laboratory reported detection limit.

Results

Analytical results compared to the regulatory screening levels are presented in Tables 1-3, attached.

Interpretation of CCME Guidelines

The Index of Additive Cancer Risk (IACR) is a value derived for human health protection associated with drinking water quality and is calculated from PAH concentrations in accordance with CCME guidance. There were a number of instances where the PAH results were less than the laboratory reported detection limits (RDL) (i.e., nondetect). Where IACR-relevant, PAH results in a given sample were less than the laboratory reported detection limits (RDL), IACR results were not calculated. In the case where at least one or more of the IACR-relevant PAH results were at or greater than the RDL, the IACR values were calculated using half of the RDL for the non-detect PAHs.

The concentrations of LEPH and HEPH were considered representative of the extractable hydrocarbon fractions F2 and F3, respectively. There were no exceedances of the applicable standards for LEPH, HEPH, F2, or F3.

Summary of Results

The tables below summarize the exceedances that were observed.

Table A, below, provides a summary of the soil quality exceedances identified in the samples collected.

Table A: Summary of Concentrations greater than Standards/Guidelines in Samples Collected May 25 to May 27, 2021

Sample Location	Sample ID	Sample Depth (mbgs)	Parameter Concentrations Greater than CSR IL Standards	Parameter Concentrations Greater than CSR RLLD Standards	Parameter Concentrations Greater than CCME IL Guidelines
0+313	3-S-0.5	0.5	-	-	Copper
0+410	7-S-0.5	0.5	-	-	Copper, IACR
0+475	8-S-0.2	0.2	Arsenic, Zinc	Arsenic, Iron, Zinc	Arsenic, Copper, IACR
0+563	9-S-0.5	0.5	Arsenic, Zinc	Arsenic, Lead, Zinc	Arsenic, IACR
0+588	10-S-0.3	0.3	-	-	IACR
0+650	12-S-0.5	0.5	-	-	IACR
1+166	18-S-0.3	0.3	Arsenic	Arsenic	Arsenic, Copper, IACR
1+475	20-S-0.2	0.2	Zinc	Zinc	-
1+575	22-S-0.7	0.7	Arsenic	Arsenic	-
2+113	27-S-0.2	0.2	Arsenic, Cadmium, Copper, Zinc	Arsenic, Cadmium, Copper, Lead, Zinc	Arsenic, Copper, Zinc, IACR
2+175	28-S-0.3	0.3	Zinc	Zinc	-
2+200	29-S-0.5	0.5	-	Lead	IACR
2+225	30-S-0.7	0.7	-	-	IACR
2+250	31-S-0.5	0.5	-	-	IACR
2+275	32-S-0.5	0.5	-	-	IACR

During the Initial Environmental Assessment (IEA) in April 2020, soil samples were collected from borehole locations determined by the geotechnical drilling program. There were a number of samples collected during the IEA that remain relevant and are summarized below. Samples that were collected during the IEA that were located outside of the rail corridor are not considered relevant for soil management purposes.

Table B: Summary of Samples Collected during the IEA that are relevant for the Detailed Characterization

Sample Location	Approximate Chainage	Sample ID	Sample Depth (mbgs)	Parameter Concentrations Greater than CSR IL Standards	Parameter Concentrations Greater than CSR RLLD Standards	Parameter Concentrations Greater than CCME IL Guidelines
BH20-04	2+060	BH20-04-SO20-02	0.7-0.9	Chromium	Chromium	-
BH20-05	1+825	BH20-05-SO20-01	0.1-0.3	-	Lead	Copper, IACR
BH20-07	1+420	BH20-07-SO20-01	0.1-0.3	-	-	Copper
BH20-07	1+420	BH20-07-SO20-02	0.7-1.0	-	-	Copper

Quality Assurance and Quality Control

Twenty-one of the 110 calculated Relative Percent Difference (RPD) values exceeded the screening criteria of 20%. Laboratory documentation can be found in the attachment to this letter. It is believed that these RPD results > 20% reflect soil heterogeneity in the area (aka: nugget effect) rather than suggesting a concern with the field samples or laboratory results. This is based on field observations of heterogeneity of soils, review of the laboratory internal quality control results which did not reveal quality assurance issues, and laboratory noted sample heterogeneity. As such, the analytical results are considered reliable for management decision-making purposes.

Discussion

There are two options for soil management in the Project Area. Firstly, soil with concentrations less than the applicable CCME IL guidelines is considered suitable for re-use in the Project Area. The locations and volume of this soil is identified below. The second option for management is offsite disposal. The soil that has concentrations exceeding the CCME IL guidelines must be disposed of offsite.

To support offsite disposal option considerations, a complete classification of the soil in accordance with CSR standards is provided. The volumes of soil for select CSR classifications are provided below. Volumes assuming complete re-use of soil and no-reuse of soil are also provided for comparison.

For detailed classification of soil, the Project Area was divided into segments based on the chainage associated with each sample collected. The dividing line between adjacent segments was the half-way point between a sample's chainage and the following sample's chainage. The volumes provided below are rounded up to the nearest 10 m³.

Detailed Soil Classification in Accordance with CCME Guidelines

In accordance with the CCME Guidelines, the following areas were characterized either less than IL guidelines (IL-) or greater than IL guidelines (IL+) as follows:

- Chainage 0+000 to 0+281: IL-
- Chainage 0+281 to 0+339: IL+
- Chainage 0+339 to 0+388: IL-
- Chainage 0+388 to 0+606: IL+
- Chainage 0+606 to 0+637: IL-
- Chainage 0+637 to 0+662: IL+
- Chainage 0+662 to 1+083: IL-
- Chainage 1+083 to 1+447: IL+
- Chainage 1+447 to 1+725: IL-
- Chainage 1+725 to 2+036: IL+
- Chainage 2+036 to 2+187: IL-
- Chainage 2+187 to 2+294: IL+
- Chainage 2+294 to 2+371: IL-
- Chainage 2+371 to 2+500: IL+

The volumes of soil classified in accordance with CCME guidelines are as follows:

- IL+: 2,920 m³
- IL-: 4,130 m³

Soil with a classification of IL- is potentially suitable for re-use at the site. Soil with a classification of IL+ will require off-site disposal at a suitable provincially regulated receiving location. The CCME IL+ soil cannot be relocated to federally regulated land. The suitability of an off-site disposal location would be determined based on the BC CSR characterization of the soil.

Detailed Soil Classification in Accordance with CSR Standards

In accordance with the CSR Standards, the soil was characterized either less than RL standards (Residential Quality, RL-), greater than RL standards but less than IL standards (Industrial Quality, IL-) or greater than IL guidelines (Waste Quality, IL+).

- Chainage 0+000 to 0+442: RL-
- Chainage 0+442 to 0+575: IL+
- Chainage 0+575 to 1+083: RL-
- Chainage 1+083 to 1+293: IL+
- Chainage 1+293 to 1+447: RL-
- Chainage 1+447 to 1+512: IL+
- Chainage 1+512 to 1+562: RL-

- Chainage 1+562 to 1+587: IL+
- Chainage 1+587 to 1+725: RL-
- Chainage 1+725 to 1+919: RL+ / IL-
- Chainage 1+919 to 2+187: IL+
- Chainage 2+187 to 2+212: RL+ / IL-
- Chainage 2+212 to 2+500: RL-

The volumes of soil classified in accordance with CSR standards are as follows:

- IL+: 1,520 m³
- IL- / RL+: 420 m³
- RL-: 5,110 m³

Soil characterized as IL+ must be disposed at a facility that accepts Waste quality soils. Note that the soil is classified as IL+ because of the concentrations of metals. Soil characterized as either RL- or RL+ / IL- is also suitable for disposal at a facility that accepts waste quality soil and the disposal costs will be less. The Summit Landfill in Mission has previously accepted soils from the Commissioner Street Project area.

There are additional disposal options for soils that are less than RL- or RL+ such as other commercial landfills. It is also possible to dispose of RL- and RL+ soil at offsite industrial properties that accept such quality soil.

Detailed Soil Classification in Accordance with CSR Standards and CCME Guidelines

In accordance with both the CSR Standards and CCME Guidelines, the volumes of soil per classification are as follows:

- CCME IL+ & CSR IL+: 750 m³
- CCME IL+ & CSR IL- / RL +: 420 m³
- CCME IL+ & CSR RL-: 1,750 m³
- Total: 2,920 m³

Requirements for the offsite disposal of this soil are described above. Of the soil that must be removed from the Site due to exceedance of the CCME IL guidelines, approximately 750 m³ is also considered Waste quality in accordance with the CSR and must be disposed of at a facility authorized to accept Waste quality soil.

Recommendations for Soil Management

The Project will require the management 7,050 m³ of soil with several different environmental quality classifications for the purposes of soil relocation and disposal. Recommendations for the onsite handling and management of soils to limit migration and run-off are provided in this section.

Soil classified as IL+ according to CCME guidelines should be loaded directly into trucks for offsite disposal when possible. When direct loading and immediate offsite disposal is not possible, the IL+ soil should be stockpiled in a manner that limits the potential for migration and runoff. Recommended best practices for limiting this potential includes:

- Place stockpiles on impermeable surfaces, including paved or concrete covered areas or areas covered with polyethylene sheeting;
- If stockpiles are placed on polyethylene sheeting, the stockpile area should be cleared of sharp objects and/or rocks before placing the polyethylene;
- Cover stockpiles with secured polyethylene sheeting when stockpiles are not in use, and during periods of precipitation;
- Limit the stockpile height to 1.5 meters where possible;
- Avoid placement of stockpiles adjacent to catch basin or watercourse;
- Avoid placement of stockpiles at the top of slopes; and
- Stockpile areas with the potential to generate sediment should be surrounded by impermeable berms and/or silt fencing.

In addition to stockpile management, best practice erosion and sediment control procedures should be implemented during the Project. These would include protection of catch basins and watercourses from sediment intrusion.

Of the 5,110 m³ of soil to be excavated, approximately 2,920 m³ of soil must be removed from the Project Area on the basis that the soil quality exceeds CCME IL guidelines. The simplest approach is to dispose of the soil at an authorized facility. Facilities that can accept Waste quality soil will typically also accept less contaminated soils at reduced rates. Alternatively, less contaminated soils could be disposed at other closer landfills to reduce trucking costs.

The characterization does not eliminate the potential for chance find soil contamination during the excavation work. If soil encountered during the excavation is observed to be obviously contaminated, it should be segregated and stockpiled for additional characterization. These stockpiles should be placed on an impermeable surface (pavement or polyethylene sheeting), covered with polyethylene sheeting, and managed according to the recommendations above while awaiting analytical results.

Non-Waste soil does not require disposal at authorized facilities and can be relocated to offsite properties with appropriate land uses. For example, Industrial Quality soil can be relocated to offsite industrial land. This type of soil relocation is subject to additional requirements under the CSR and EMA. Core6 is able to work with the Project team to determine cost effective options for disposal of various classifications of soil. Stockpiles of non-waste soil are not required to be placed on impermeable

surfaces; however, the other best practices for stockpile management and for managing erosion and sediment control should be implemented.

The soil management will be the responsibility of the construction contractor.

Water Management

If water is encountered within excavations (e.g., groundwater or accumulated surface water) and requires management it will require management in accordance with applicable legislation.

In the event that water (e.g., groundwater or accumulated surface water) is encountered within excavations and dewatering is required, it will be completed in accordance with applicable legislation and best practices for containment, testing, treatment and discharge of water.

Dewatered water would need to be contained in temporary storage tanks or baffle tanks prior to testing and treatment and/or discharge. Water in each storage tank would require testing for turbidity, pH, metals, and LEPH/HEPH/PAH to determine the requirements for treatment and discharge.

If the water meets CCME surface water quality guidelines and the BC Water Quality Guidelines, it can likely be discharged to the marine environment. Water can be discharged to the environment only if it meets the applicable guidelines.

If concentrations in water are greater than the applicable guidelines, the following disposal methods may be appropriate depending on exceeding parameters and concentrations:

- Obtain an authorization to discharge to Port of Vancouver's combined storm and sanitary sewer;
- Remove the water from the site and dispose at a licensed facility.

If continuous dewatering is expected, options for onsite water treatment should be investigated and groundwater samples should be collected as part of the project planning process.

The specific water management procedures would depend on the volume of dewatering required. The final approach to water management will be the responsibility of the construction contractor.

Closing

We trust this report meets your requirements at this time. Core6 is happy to further assist with the selection and management of soil disposal locations. Should you have any questions or wish to discuss this report further, please do not hesitate to contact the undersigned.

Yours sincerely,

Core6 Environmental Ltd.



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Environmental Engineer
604-725-3845



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Project Director / Principal Scientist
604-880-1785

Attch: *Statement of Limitations*
Table 1 – Analytical Results – CSR RLLD Standards
Table 2 – Analytical Results – CSR IL Standards
Table 3 – Analytical Results – CCME IL Guidelines
Table 4 – Segment Characterizations
Figure 1 – Sample Location Plan
Figure 2 – Soil Analytical Results - CSR
Figure 3 – Soil Classification Plan
Laboratory Analytical Report

STATEMENT OF LIMITATIONS

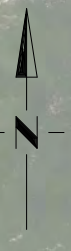
This report was prepared by Core6 Environmental Ltd. (“Core6”) for the exclusive use of Hatch Corporation who have been party to the development of the scope-of-work and objectives for this project and understand its limitations. Any use, reliance on, or decision made by a third party based on this report, is the sole responsibility of the third party. Core6 accepts no liability or responsibility for any damages that may be suffered or incurred by any third party as a result of decisions made or actions taken based on this report.

It is possible that conditions and concentrations of chemicals may vary across the site, and hence currently unrecognized conditions and contamination may exist at the site. No warranty, expressed or implied, is given concerning the presence or concentrations of chemicals at the site, except as specifically noted in this report. The conclusions and recommendations contained in this report are based upon applicable legislation existing at the time the report was drafted. Any changes in the legislation may result in the need to alter the conclusions and recommendations in the report.

This report has been developed in a manner consistent with the level or skill normally exercised by environmental professionals practicing under similar conditions. In preparing this report, Core6 has relied on information provided by others and has assumed that the information provided is factual and accurate. Core6 accepts no responsibility for any deficiency, misstatement, or inaccuracy in this report resulting from information provided by others. If the assumed facts and accuracy of the materials relied upon are shown to be incorrect, or if new information is discovered, then modifications to this report may be necessary.

FIGURES

BURRARD INLET



NOTES:
1. PLAN BASED ON THE CITY OF VANCOUVER'S OPEN DATA CATALOGUE & UNDERHILL GEOMATICS LTD. V191318-ANV-01-LR-01.DWG
2. THIS DRAWING IS FOR GENERAL INFORMATION ONLY. LOT BOUNDARIES AND FEATURES ARE APPROXIMATE.
3. AERIAL PHOTO IS 2015. SOURCE IS THE CITY OF VANCOUVER'S OPEN DATA CATALOGUE.

- LEGEND
- SITE
 - PROPERTY LINES
 - SHORELINE
 - EXISTING RAIL LINE
 - NEW RAIL LINE
 - RAIL LINE TO BE REALIGNED
 - BH20- TETRA TECH BOREHOLE (2020)
 - C- CORE6 BOREHOLE (2021)

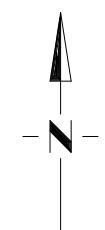
coreb
ENVIRONMENTAL

ADDRESS & CLIENT: CP East Yard Track L30
Vancouver, BC
Hatch

FIGURE TITLE: Investigation Sample Location Plan

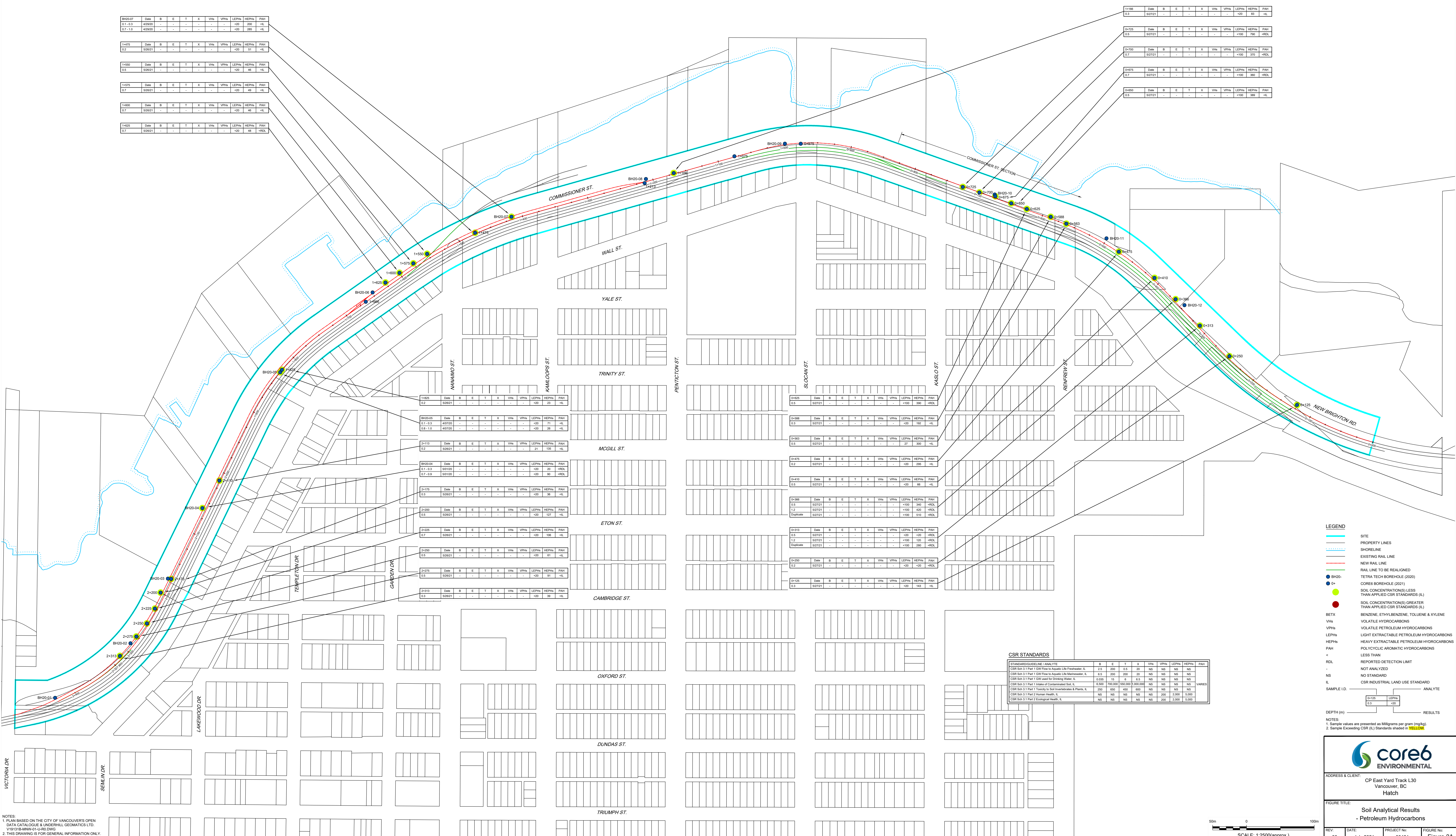
REV: 00	DATE: July 2021	PROJECT NO: 00481	FIGURE NO: Figure 1
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50m 0 100m
SCALE: 1:2500(approx.)



BHID#	Date	B	E	T	X	VHs	VPHs	LEPHs	HEPHs	PAHs	
1415.3	4/20/20	-	-	-	-	-	-	-	<20	700	<RDL
1415.1-2	4/20/20	-	-	-	-	-	-	-	<20	285	<RDL

BHID#	Date	B	E	T	X	VHs	VPHs	LEPHs	HEPHs	PAHs	
1415.3	4/20/20	-	-	-	-	-	-	-	<20	700	<RDL
1415.1-2	4/20/20	-	-	-	-	-	-	-	<20	285	<RDL



STANDARD/GUIDELINE/ANALYTE	B	E	T	X	VHs	VPHs	LEPHs	HEPHs	PAHs
CSR Sub 3.1 Part 1 (GW Flow to Aquatic Life Freshwater, IL)	2.5	200	0.5	20	NS	NS	NS	NS	NS
CSR Sub 3.1 Part 1 (GW Flow to Aquatic Life Marine/Freshwater, IL)	6.5	200	200	20	NS	NS	NS	NS	NS
CSR Sub 3.1 Part 1 (GW Flow to Drinking Water, IL)	0.035	10	10	10	NS	NS	NS	NS	NS
CSR Sub 3.1 Part 1 (Inhalation of Contaminated Soil, IL)	6,000	700,000	100,000	200,000	NS	NS	NS	NS	VARIABLES
CSR Sub 3.1 Part 1 (Toxicity to Soil Invertebrates & Plants, IL)	250	600	450	600	NS	NS	NS	NS	NS
CSR Sub 3.1 Part 2 (Human Health, IL)	NS	145	145	145	NS	200	2,000	5,000	NS
CSR Sub 3.1 Part 2 (Ecological Health, IL)	NS	NS	NS	NS	NS	200	2,000	5,000	NS

LEGEND

- SITE
- PROPERTY LINES
- SHORELINE
- EXISTING RAIL LINE
- NEW RAIL LINE
- RAIL LINE TO BE REALIGNED
- TETRA TECH BOREHOLE (2020)
- COREB BOREHOLE (2021)
- SOIL CONCENTRATIONS LESS THAN APPLIED CSR STANDARDS (L)
- SOIL CONCENTRATIONS GREATER THAN APPLIED CSR STANDARDS (G)
- BETX: BENZENE, ETHYLBENZENE, TOLUENE & XYLENE
- VHs: VOLATILE HYDROCARBONS
- VPHs: VOLATILE PETROLEUM HYDROCARBONS
- LEPHs: LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS
- HEPHs: HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS
- PAHs: POLYCYCLIC AROMATIC HYDROCARBONS
- RDL: REPORTED DETECTION LIMIT
- NS: NOT ANALYZED
- IL: CSR INDUSTRIAL LAND USE STANDARD

NOTES

- Sample values are presented as Milligrams per gram (mg/kg).
- Sample Exceeding CSR (IL) Standards shaded in **YELLOW**.

DEPTH (m) | RESULTS

SAMPLE ID	DEPTH (m)	ANALYTE
D-125	0.3	LEPHs
	0.7	HEPHs

NOTES:
 1. PLAN BASED ON THE CITY OF VANCOUVER'S OPEN DATA CATALOGUE & UNDERHILL GEOMATICS LTD. V191313-01-MW-01-LR-DWG
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PLOT SCALE: 1:1 DRAWN BY: DK CAAD FILE: C:\clients\2021\04\1 East Yard Track L330\Ph 01 Initial Environmental Assessment\green\fig\Soil Analytical-RO.dwg\Layout

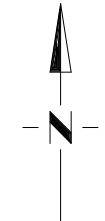
coreb ENVIRONMENTAL

ADDRESS & CLIENT: CP East Yard Track L30 Vancouver, BC Hatch

FIGURE TITLE: Soil Analytical Results - Petroleum Hydrocarbons

REV	DATE	PROJECT NO.	FIGURE NO.
00	July 2021	00481	Figure 2A

SCALE: 1:2500 (approx.)



Sample ID	Date	Arsenic	Cadmium	Chromium	Copper	Zinc	Other Metals	Chloride
BH20-07	05/20/21	1.8	0.23	19	100	62	<L	14
BH20-08	05/20/21	2.7	0.19	18	86.5	50	<L	15

Sample ID	Date	Arsenic	Cadmium	Chromium	Copper	Zinc	Other Metals	Chloride
BH20-09	05/20/21	1.5	0.17	11	27.6	78	<L	<0.002
BH20-10	05/20/21	2.4	0.22	12	29.2	68	<L	<0.002

Sample ID	Date	Arsenic	Cadmium	Chromium	Copper	Zinc	Other Metals	Chloride
BH20-05	05/20/21	0	0.56	19	117	114	<L	3
BH20-06	05/20/21	3.8	0.25	23	48.8	50	<L	2

Sample ID	Date	Arsenic	Cadmium	Chromium	Copper	Zinc	Other Metals	Chloride
BH20-01	05/20/21	1.1	0.17	23	108	446	<L	<0.002
BH20-02	05/20/21	3.1	0.16	14	89	81	<L	2

STANDARD/GUIDELINE/ANALYTE	Arsenic	Cadmium	Chromium	Copper	Zinc	Other Metals	Chloride
CSR Sub 3.1 Part 1 (GR Flow to Aquatic Life Freshwater, IL)	10	1.50	60	75	1,500	150	500
CSR Sub 3.1 Part 1 (GR Flow to Aquatic Life Marine/Estuarine, IL)	10	1.200	80	75	1,500	150	500
CSR Sub 3.1 Part 1 (GR Flow to Drinking Water, IL)	10	1.70	60	250	100,000	200	100
CSR Sub 3.1 Part 1 (Metal in Contaminated Soil, IL)	400	3,000	20,000	100,000	1,000,000	VARIES	2,000
CSR Sub 3.1 Part 1 (Toxicity to Soil Invertebrates & Plants, IL)	40	75	250	300	400		2,000
CSR Sub 3.1 Part 2 (Human Health, IL)	NS	NS	NS	NS	NS		NS
CSR Sub 3.1 Part 2 (Ecological Health, IL)	NS	NS	NS	NS	NS		NS

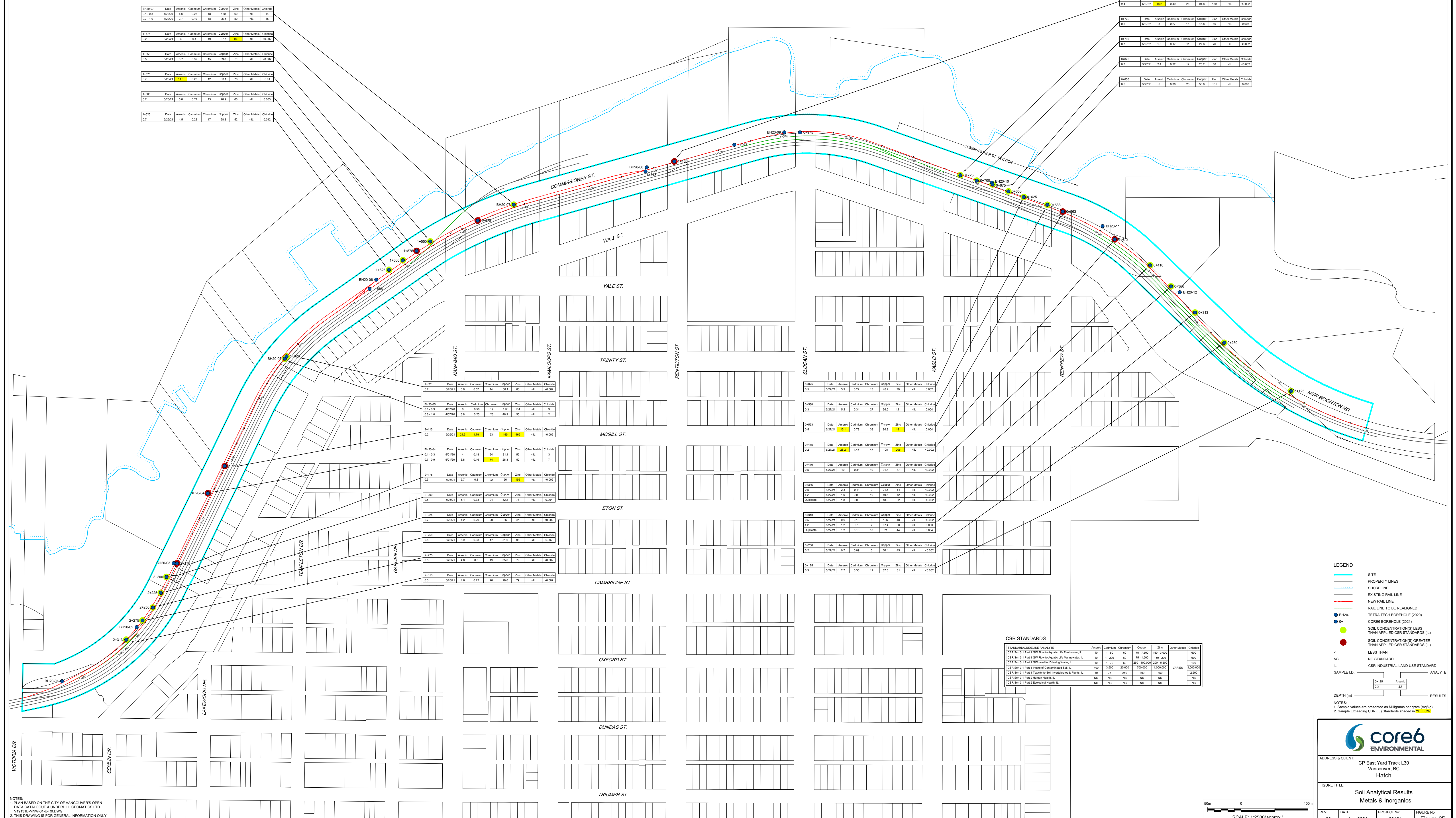
LEGEND

- SITE
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- NEW RAIL LINE
- RAIL LINE TO BE REALIGNED
- RETRA TECH BOREHOLE (2020)
- CORE BOREHOLE (2021)
- SOIL CONCENTRATIONS LESS THAN APPLIED CSR STANDARDS (L)
- SOIL CONCENTRATIONS GREATER THAN APPLIED CSR STANDARDS (H)
- LESS THAN
- NO STANDARD
- IL CSR INDUSTRIAL LAND USE STANDARD

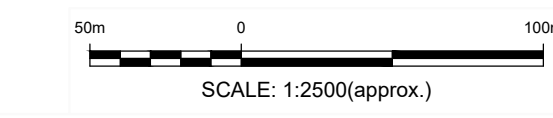
ANALYTE

DEPTH (m)	RESULTS
BH-10	Arsenic
BH-10	Zinc

NOTES:
 1. Sample values are presented as Milligrams per gram (mg/kg).
 2. Sample Exceeding CSR (L) Standards shaded in yellow.



NOTES:
 1. PLAN BASED ON THE CITY OF VANCOUVER'S OPEN DATA CATALOGUE & UNDERHILL GEOMATICS LTD. V191318.MNW-01-LAND.DWG
 2. THIS DRAWING IS FOR GENERAL INFORMATION ONLY. LOT BOUNDARIES AND FEATURES ARE APPROXIMATE.

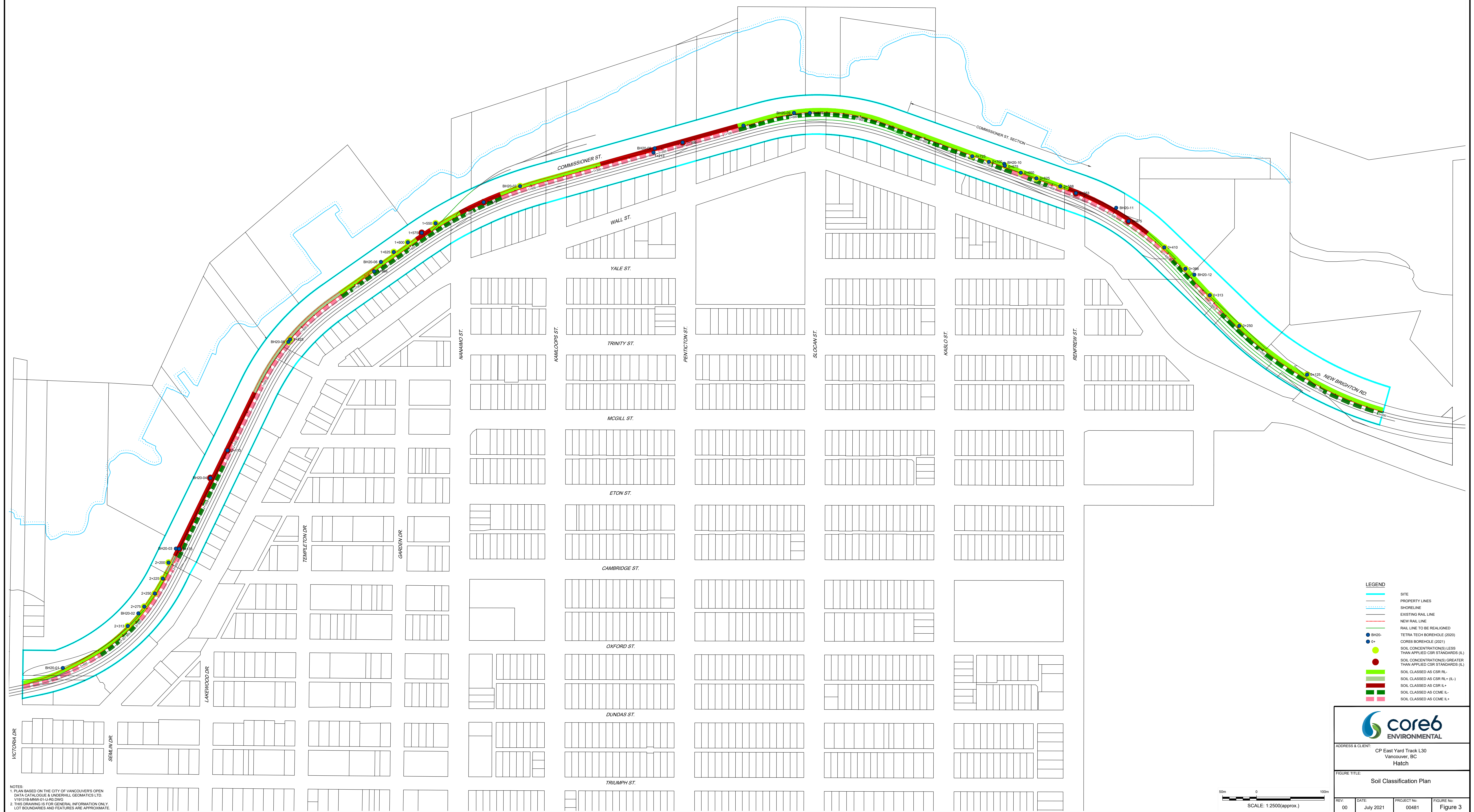
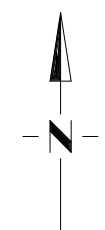


coreb ENVIRONMENTAL

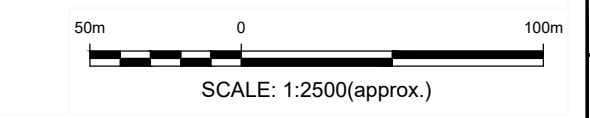
ADDRESS & CLIENT:
 CP East Yard Track L30
 Vancouver, BC
 Hatch

FIGURE TITLE:
 Soil Analytical Results
 - Metals & Inorganics

REV	DATE	PROJECT NO.	FIGURE NO.
00	July 2021	00481	Figure 2B



NOTES:
 1. PLAN BASED ON THE CITY OF VANCOUVER'S OPEN DATA CATALOGUE & UNDERHILL GEOMATICS LTD. V191318.MW-01-14-RE.DWG
 2. THIS DRAWING IS FOR GENERAL INFORMATION ONLY. LOT BOUNDARIES AND FEATURES ARE APPROXIMATE.



- LEGEND**
- SITE
 - PROPERTY LINES
 - SHORELINE
 - EXISTING RAIL LINE
 - NEW RAIL LINE
 - RAIL LINE TO BE REALIGNED
 - BH20- CORE TECH BOREHOLE (2020)
 - 3+ SOIL CONCENTRATIONS LESS THAN APPLIED CSR STANDARDS (IL)
 - SOIL CONCENTRATIONS GREATER THAN APPLIED CSR STANDARDS (IL)
 - SOIL CLASSIFIED AS CSR RL
 - SOIL CLASSIFIED AS CSR IL
 - SOIL CLASSIFIED AS CCME IL
 - SOIL CLASSIFIED AS CCME IL+

coreb ENVIRONMENTAL

ADDRESS & CLIENT: CP East Yard Track L30
 Vancouver, BC
 Hatch

FIGURE TITLE: Soil Classification Plan

REV: 00	DATE: July 2021	PROJECT No: 00481	FIGURE No: Figure 3
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TABLES

Table 1A: Soil Analytical Results (Inorganics) - CSR RLLD Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3							0+125	0+250	0+313			0+366			0+410	0+475	0+563	0+588
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	
Sample Depth (mbgs)		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.3	0.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	0.2	0.5	0.3
Sample ID								1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	X-S-2	5-S-0.5	6-S-1.2	X-S-1	7-S-0.5	8-S-0.2	9-S-0.5	10-S-0.3	
Inorganics & Physical Parameters																				
Moisture	%	-	-	-	-	-	-													
pH (Lab)	s.u.	-	-	-	-	-	-	7.07	6.99	8.14	8.07	8.11	7.39	6.97	7.29	7.44	7.68	7.81	7.7	
Saturation %	%	-	-	-	-	-	-	50.8	62.7	57.2	58.2	90.5	51	68.4	51.6	60.2	60	64.7	59.5	
Soluble Chloride	mg/kg	600	600	100	1,000,000	3500	-	<2	<2	<2	3	4	<2	<2	<2	<2	<2	4	4	
Soluble Sodium	mg/kg	-	-	15000	1,000,000	200	-	<2	3	6	3	5	<2	<2	<2	8	7	4	4	
Metals																				
Aluminum	mg/kg	-	-	-	-	-	40,000	17,700	14,900	13,700	9,210	9,800	10,200	8,600	7,470	17,100	14,400	14,100	12,300	
Antimony	mg/kg	-	-	-	-	-	250	0.5	<0.1	0.1	0.2	0.2	0.4	0.4	0.2	4.3	7	2.8	1.6	
Arsenic	mg/kg	10	10	10	20	25	-	2.7	0.7	0.9	1.2	1.2	2.3	1.6	1.8	10	28.2	15.1	5.2	
Barium	mg/kg	3,500	1,500	350	8,500	700	-	130	138	85.5	50.2	55.8	47.3	36.6	32	142	138	165	86.1	
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	85	150	-	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.2	0.3	0.3	0.2	
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron	mg/kg	-	-	-	-	-	8,500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	6.7	5.7	2.4	
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	20	30	-	0.36	0.09	0.18	0.1	0.13	0.11	0.09	0.08	0.31	1.47	0.78	0.34	
Chromium	mg/kg	60	60	60	100	200	-	12	5	5	7	10	9	10	9	19	47	33	27	
Cobalt	mg/kg	25	25	25	25	45	-	10	10.6	8	6.5	6.1	5.4	4.2	3.9	11.2	10.1	9.2	7.9	
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	3,500	150	-	67.6	54.1	106	67.4	71	21.6	19.6	18.6	91.4	108	86.8	36.5	
Iron	mg/kg	-	-	-	-	-	35,000	25,600	26,100	19,700	14,400	18,300	14,900	13,400	10,700	29,000	38,000	32,400	19,600	
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	120	550	-	24.9	4.9	7	5.5	7.1	10.1	7.3	6.3	25.1	97.5	136	20.5	
Lithium	mg/kg	-	-	-	-	-	30	7.8	7.2	8.5	7.3	7.7	7	8.5	5.8	9.5	9.5	10	8.5	
Manganese	mg/kg	-	-	2,000	6,000	2,000	-	455	399	430	304	313	268	246	186	506	627	547	388	
Mercury	mg/kg	-	-	-	10	40	-	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	0.04	0.09	0.3	0.06	
Molybdenum	mg/kg	650	650	15	200	80	-	1.1	0.5	7	0.7	1.7	0.4	0.3	0.2	1.8	6.5	3.4	0.9	
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	450	150	-	9.6	4.3	4.1	5.3	7	8.4	6.6	6.4	9.8	28.2	29.2	25.4	
Selenium	mg/kg	1	1	1	200	1.5	-	0.3	<0.1	0.2	<0.1	0.1	0.1	<0.1	<0.1	0.3	0.5	0.2	0.2	
Silver	mg/kg	-	-	-	-	-	200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Strontium	mg/kg	-	-	-	-	-	9,500	78	74	72	33	32	20	20	21	81	131	70	51	
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Tin	mg/kg	-	-	-	-	-	25,000	1	0.4	0.4	0.3	0.3	0.5	0.3	0.3	1.8	4.3	6.4	2.1	
Tungsten	mg/kg	-	-	-	-	-	15	0.24	0.37	0.2	0.16	0.72	0.42	0.24	0.22	0.2	0.6	0.54	0.36	
Uranium	mg/kg	150	150	30	100	500	-	0.6	0.5	0.6	0.3	0.4	2.4	0.2	0.2	0.6	0.6	0.5	0.4	
Vanadium	mg/kg			100	200	150	-	71	88	57	42	58	39	38	35	83	57	51	49	
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	10,000	450	-	81	45	48	38	44	41	42	32	87	206	181	121	
Zirconium	mg/kg	-	-	-	-	-	-	0.9	1	1	0.7	0.7	0.5	0.6	0.6	1.2	1.3	1.1	2.1	

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- RLLD = Residential land-use, low density
- s.u. = standard units
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life

Table 1A: Soil Analytical Results (Inorganics) - CSR RLLD Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3							0+625	0+650	0+675	0+700	0+725	BH20-09	1+166	BH20-07	1+475	1+550
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2020-04-07	2021-05-27	2020-04-29	2021-05-26	2021-05-26
Sample Depth (mbgs)		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.5	0.5	0.7	0.7	0.5	0.1 - 0.3 m	0.3	0.1 - 0.3 m	0.2	0.5
Sample ID								11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	BH20-09-S020-01	18-S-0.3	BH20-07-S020-01	20-S-0.2	21-S-0.5	
Inorganics & Physical Parameters																		
Moisture	%	-	-	-	-	-	-							4		4.1		
pH (Lab)	s.u.	-	-	-	-	-	-	8.4	8.03	7.23	7.15	7.36	7.24	8.08	8.47	6.77	8.05	
Saturation %	%	-	-	-	-	-	-	55	70.2	38	46.9	51.9	24.4	55	29.9	55.3	46.9	
Soluble Chloride	mg/kg	600	600	100	1,000,000	3500	-	2	3	<2	<2	3	4	<2	14	<2	<2	
Soluble Sodium	mg/kg	-	-	15000	1,000,000	200	-	<2	2	6	<2	9	11	<2	25	<2	15	
Metals																		
Aluminum	mg/kg	-	-	-	-	-	40,000	13,400	13,400	8,550	8,060	7,940	13,500	13,900	18,600	12,700	11,300	
Antimony	mg/kg	-	-	-	-	-	250	0.7	1.4	0.2	0.2	0.5	0.2	2.1	0.2	1.1	0.7	
Arsenic	mg/kg	10	10	10	20	25	-	3.9	5	2.4	1.5	3	1.9	18.2	1.8	6	3.7	
Barium	mg/kg	3,500	1,500	350	8,500	700	-	109	90.7	36	32.4	35	44.1	86.1	104	67.9	66.3	
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	85	150	-	0.1	0.2	0.1	<0.1	<0.1	0.1	0.3	0.1	0.2	0.2	
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
Boron	mg/kg	-	-	-	-	-	8,500	0.6	2.5	<0.5	<0.5	<0.5	1.1	2.3	1.7	1.2	3.8	
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	20	30	-	0.22	0.36	0.22	0.17	0.27	0.1	0.49	0.23	0.4	0.32	
Chromium	mg/kg	60	60	60	100	200	-	13	23	12	11	15	13	26	18	19	15	
Cobalt	mg/kg	25	25	25	25	45	-	7.6	7.1	5.2	4	4.6	6.7	7.9	9.9	6.4	6.3	
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	3,500	150	-	48.2	56.8	25.2	27.6	46.8	25	91.8	150	57.7	59.8	
Iron	mg/kg	-	-	-	-	-	35,000	21,100	22,700	13,800	14,100	16,600	20,200	22,800	27,000	20,700	20,800	
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	120	550	-	16.3	45.5	12.5	10	20.3	4.1	67.2	15.2	73.6	34.6	
Lithium	mg/kg	-	-	-	-	-	30	8.2	7.6	8.6	7.1	6	12.3	9.7	11.5	12.3	13.4	
Manganese	mg/kg	-	-	2,000	6,000	2,000	-	394	387	263	228	225	343	358	550	358	322	
Mercury	mg/kg	-	-	-	10	40	-	0.03	0.04	0.02	<0.01	0.02	<0.01	0.06	0.03	0.15	0.04	
Molybdenum	mg/kg	650	650	15	200	80	-	1.3	1.5	0.3	0.5	1	0.7	1.9	4.2	1.9	1.5	
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	450	150	-	12.9	18.4	9.2	7.1	10.7	7.5	17	7.2	15.3	13.4	
Selenium	mg/kg	1	1	1	200	1.5	-	0.2	0.3	<0.1	<0.1	0.2	<0.1	0.4	0.3	0.2	0.3	
Silver	mg/kg	-	-	-	-	-	200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Strontium	mg/kg	-	-	-	-	-	9,500	73	62	22	23	21	26	124	97	47	61	
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Tin	mg/kg	-	-	-	-	-	25,000	0.7	2	0.4	0.4	0.6	0.4	2.4	0.5	1.2	1.2	
Tungsten	mg/kg	-	-	-	-	-	15	0.37	0.33	0.26	0.34	0.33	0.16	0.33	2.94	0.3	0.27	
Uranium	mg/kg	150	150	30	100	500	-	0.4	0.4	0.3	0.2	0.3	0.7	0.8	1.3	0.7	0.9	
Vanadium	mg/kg			100	200	150	-	64	57	44	36	41	45	57	78	49	54	
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	10,000	450	-	79	101	68	76	80	42	189	60	189	81	
Zirconium	mg/kg	-	-	-	-	-	-	1.4	1.1	1.2	0.9	0.8	1.2	0.7	2	0.6	1.9	

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- RLLD = Residential land-use, low density
- s.u. = standard units
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life

Table 1A: Soil Analytical Results (Inorganics) - CSR RLLD Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3							1+575	1+600	1+625	1+825	BH20-05	2+113	BH20-04	2+175	2+200	2+225	
Sample Date (yyyy-mm-dd)		Part 1						Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2020-04-07	2021-05-26	2020-05-01	2021-05-26	2021-05-26	2021-05-26
Sample Depth (mbgs)		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.7	0.7	0.7	0.2	0.1 - 0.3 m	0.2	0.1 - 0.3 m	0.3	0.5	0.7	
Sample ID									22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2	BH20-05-S020-01	27-S-0.2	BH20-04-S020-01	28-S-0.3	29-S-0.5	30-S-0.7	
Inorganics & Physical Parameters																			
Moisture	%	-	-	-	-	-	-	-	-	-	-	-	14.2	-	4	-	-	-	
pH (Lab)	s.u.	-	-	-	-	-	-	8.21	8.24	7.58	6.1	6.29	6.32	7.72	7.23	8.19	8.24		
Saturation %	%	-	-	-	-	-	-	36.8	34.6	44.5	43.7	46.2	76.5	31.9	50.2	55.2	46.3		
Soluble Chloride	mg/kg	600	600	100	1,000,000	3500	-	10	3	12	<2	3	<2	3	<2	4	<2		
Soluble Sodium	mg/kg	-	-	15000	1,000,000	200	-	4	2	10	<2	<2	2	7	<2	5	3		
Metals																			
Aluminum	mg/kg	-	-	-	-	-	40,000	11,700	12,200	14,300	9,940	15,000	12,700	18,300	15,100	10,900	12,400		
Antimony	mg/kg	-	-	-	-	-	250	3.9	2.8	0.4	0.9	13.7	4.5	0.3	0.8	3.4	0.8		
Arsenic	mg/kg	10	10	10	20	25	-	11.3	5.8	4.5	5.6	6	24.3	4	5.7	5.1	4.2		
Barium	mg/kg	3,500	1,500	350	8,500	700	-	41.9	37.6	42.1	60.9	313	253	65.1	57	61.9	65		
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	85	150	-	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.2	0.2	0.2		
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Boron	mg/kg	-	-	-	-	-	8,500	0.7	0.8	<0.5	<0.5	8.2	6.1	1	0.8	1.3	1.2		
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	20	30	-	0.23	0.21	0.22	0.57	0.56	1.79	0.18	0.3	0.33	0.29		
Chromium	mg/kg	60	60	60	100	200	-	12	13	17	14	19	23	24	22	24	20		
Cobalt	mg/kg	25	25	25	25	45	-	5.9	6.5	7.3	4.8	7.6	6.8	9.6	9.4	6.8	6.8		
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	3,500	150	-	33.1	28.9	28.3	58.1	117	159	31.1	56	32.2	36		
Iron	mg/kg	-	-	-	-	-	35,000	18,500	17,800	18,500	15,700	26,900	23,300	26,100	21,300	22,700	21,400		
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	120	550	-	40.6	29.1	17.7	84.2	321	214	6.2	37.2	166	31.7		
Lithium	mg/kg	-	-	-	-	-	30	13.4	12.9	12.5	8.4	12.3	13.3	13.4	9.6	6.9	7.7		
Manganese	mg/kg	-	-	2,000	6,000	2,000	-	323	325	348	222	295	343	437	464	358	339		
Mercury	mg/kg	-	-	-	10	40	-	0.03	0.02	0.02	0.04	0.05	0.16	0.01	0.02	0.02	0.03		
Molybdenum	mg/kg	650	650	15	200	80	-	1.6	1.2	0.8	0.9	1.7	2.6	0.7	1.3	1.1	1.2		
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	450	150	-	9.3	9.2	9.9	11	20	43	11.8	16.3	21.6	15.7		
Selenium	mg/kg	1	1	1	200	1.5	-	0.2	0.3	0.3	<0.1	0.7	0.6	0.2	0.4	0.3	0.3		
Silver	mg/kg	-	-	-	-	-	200	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5		
Strontium	mg/kg	-	-	-	-	-	9,500	38	34	24	35	163	109	31	30	82	114		
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Tin	mg/kg	-	-	-	-	-	25,000	1.3	0.9	0.4	1.7	11.9	12.7	0.4	0.9	1.5	1.9		
Tungsten	mg/kg	-	-	-	-	-	15	0.32	0.24	0.19	0.56	0.3	0.42	0.57	0.84	0.28	0.28		
Uranium	mg/kg	150	150	30	100	500	-	0.9	0.8	0.8	0.6	1.2	1.1	0.6	0.6	0.5	0.6		
Vanadium	mg/kg	-	-	100	200	150	-	44	52	55	43	53	55	65	58	47	51		
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	10,000	450	-	78	60	52	83	114	466	55	156	78	81		
Zirconium	mg/kg	-	-	-	-	-	-	1.1	1.2	1.5	0.7	5.1	1.1	2.8	0.9	2.2	1.6		

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- RLLD = Residential land-use, low density
- s.u. = standard units
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life

Table 1A: Soil Analytical Results (Inorganics) - CSR RLLD Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3							2+250	2+275	2+313	BH20-01
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2020-04-07
Sample Depth (mbgs)		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.5	0.5	0.3	0.1 - 0.3 m
Sample ID								31-S-0.5	32-S-0.5	33-S-0.3	BH20-01-S020-01	
Inorganics & Physical Parameters												
Moisture	%	-	-	-	-	-	-				5.3	
pH (Lab)	s.u.	-	-	-	-	-	-	7.79	8.08	6.79	7.82	
Saturation %	%	-	-	-	-	-	-	43.6	56.3	48.7	31.4	
Soluble Chloride	mg/kg	600	600	100	1,000,000	3500	-	2	<2	<2	36	
Soluble Sodium	mg/kg	-	-	15000	1,000,000	200	-	2	3	5	48	
Metals												
Aluminum	mg/kg	-	-	-	-	-	40,000	11,200	12,700	13,300	13,900	
Antimony	mg/kg	-	-	-	-	-	250	0.9	0.9	1.3	1.1	
Arsenic	mg/kg	10	10	10	20	25	-	5.9	4.8	4.6	4.8	
Barium	mg/kg	3,500	1,500	350	8,500	700	-	54.7	77.3	62.9	62.4	
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	85	150	-	0.2	0.2	0.2	0.1	
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	
Boron	mg/kg	-	-	-	-	-	8,500	0.8	1.6	0.9	1.3	
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	20	30	-	0.38	0.3	0.22	0.36	
Chromium	mg/kg	60	60	60	100	200	-	17	19	20	24	
Cobalt	mg/kg	25	25	25	25	45	-	5.9	6.3	7.3	8	
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	3,500	150	-	51.6	35.6	29.6	51.4	
Iron	mg/kg	-	-	-	-	-	35,000	17,300	20,200	20,100	23,500	
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	120	550	-	60.1	39.1	23.5	84.5	
Lithium	mg/kg	-	-	-	-	-	30	8.8	7.5	7.9	10.4	
Manganese	mg/kg	-	-	2,000	6,000	2,000	-	291	330	340	353	
Mercury	mg/kg	-	-	-	10	40	-	0.04	0.03	0.02	0.04	
Molybdenum	mg/kg	650	650	15	200	80	-	1	1	1.2	1.2	
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	450	150	-	14.7	15.3	14.5	14.2	
Selenium	mg/kg	1	1	1	200	1.5	-	0.2	0.4	0.3	0.3	
Silver	mg/kg	-	-	-	-	-	200	<0.5	<0.5	<0.5	<0.5	
Strontium	mg/kg	-	-	-	-	-	9,500	35	99	41	39	
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	
Tin	mg/kg	-	-	-	-	-	25,000	2	1.8	1.8	2	
Tungsten	mg/kg	-	-	-	-	-	15	0.43	0.25	0.26	0.52	
Uranium	mg/kg	150	150	30	100	500	-	0.5	0.6	0.7	0.6	
Vanadium	mg/kg			100	200	150	-	44	45	56	56	
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	10,000	450	-	98	79	79	81	
Zirconium	mg/kg	-	-	-	-	-	-	0.9	1.3	1.7	2	

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- RLLD = Residential land-use, low density
- s.u. = standard units
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life

Table 1B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR RLLD Standards
 Hatch Corporation
 PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3							0+125	0+250	0+313			0+366			0+410	0+475	0+563	0+588	0+625	0+650	0+675	0+700
		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	
		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.3	0.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	0.2	0.5	0.3	0.5	0.5	0.7	0.7
Sample Date (yyyy-mm-dd)	Sample Depth (mbgs)	Sample ID	1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	X-S-2	5-S-0.5	6-S-1.2	X-S-1	7-S-0.5	8-S-0.2	9-S-0.5	10-S-0.3	11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7						
Extractable Hydrocarbons																								
EPHs C10-C19	mg/kg	-	-	-	-	-	-	<20	<20	<20	<100	<100	<100	<100	<100	<20	20	27	<20	<100	<100	<100	<100	
EPHs C19-C32	mg/kg	-	-	-	-	-	-	143	<20	<20	120	280	340	420	510	66	297	303	192	390	390	360	370	
F2	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F3	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HEPHs	mg/kg	-	-	-	-	-	1,000	1,000	143	<20	<20	120	280	340	420	510	66	295	300	192	390	389	360	370
LEPHs	mg/kg	-	-	-	-	-	1,000	1,000	<20	<20	<20	<100	<100	<100	<100	<20	<20	27	<20	<100	<100	<100	<100	
Polycyclic Aromatic Hydrocarbons (PAHs)																								
Acenaphthene	mg/kg	-	-	-	-	-	950	-	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.01	0.02	<0.01	<0.01	<0.1	0.01	<0.1	<0.1	
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.04	0.24	0.22	0.03	<0.1	0.07	<0.1	<0.1	
Anthracene	mg/kg	-	-	-	10,000	2.5	-	-	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.06	0.4	0.43	0.06	<0.2	0.1	<0.2	<0.2	
Benz(a)anthracene	mg/kg	-	-	-	-	-	50	1	0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.04	0.31	0.32	0.05	<0.2	0.13	<0.2	<0.2	
Benzo(a)pyrene	mg/kg	-	-	-	5	20	-	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	0.06	0.4	0.45	0.09	<0.5	0.16	<0.5	<0.5	
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.05	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.09	0.49	0.68	0.12	<0.2	0.19	<0.2	<0.2	
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	50	1	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.12	0.63	0.89	0.16	<0.03	0.27	<0.03	<0.03	
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	0.06	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	0.14	1.08	0.5	0.18	<0.5	0.13	<0.5	<0.5	
Benzo(j)fluoranthene	mg/kg	-	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.03	0.14	0.21	0.04	<0.2	0.08	<0.2	<0.2	
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	50	1	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.04	0.18	0.24	0.05	<0.2	0.1	<0.2	<0.2	
Chrysene	mg/kg	-	-	-	-	-	200	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	0.06	0.36	0.54	0.08	<0.5	0.18	<0.5	<0.5	
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	5	1	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.02	0.08	0.07	<0.02	<0.2	0.02	<0.2	<0.2	
Fluoranthene	mg/kg	-	-	-	1,500	50	-	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	0.07	0.52	0.6	0.09	<0.5	0.34	<0.5	<0.5	
Fluorene	mg/kg	-	-	-	-	-	600	-	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.02	0.03	0.03	<0.02	<0.2	<0.02	<0.2	<0.2	
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	50	1	0.04	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.06	0.45	0.29	0.08	<0.2	0.09	<0.2	<0.2	
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	250	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.01	0.07	0.11	<0.01	<0.1	0.04	<0.1	<0.1	
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	60	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.01	0.07	0.12	<0.01	<0.1	0.03	<0.1	<0.1	
Naphthalene	mg/kg	75	75	100	850	0.6	-	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.01	0.09	0.11	<0.01	<0.1	0.04	<0.1	<0.1	
Phenanthrene	mg/kg	-	-	-	-	-	1,500	5	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.03	0.27	0.36	0.04	<0.2	0.34	<0.2	<0.2	
Pyrene	mg/kg	-	-	-	-	-	1,000	10	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	0.07	0.42	0.5	0.08	<0.2	0.28	<0.2	<0.2	
Quinoline	mg/kg	-	-	-	-	-	2.5	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.5	<0.5	

- Notes:**
- = Analyte concentration exceeds most stringent applicable standard
 - RLLD = Residential land-use, low density
 - mg/kg = Milligrams per kilogram
 - GW = Groundwater
 - AW-FW = Surface water used by freshwater aquatic life
 - AW-MW = Surface water used by marine aquatic life
 - DW = Drinking water
 - HEPHs = Heavy extractable petroleum hydrocarbons
 - LEPHs = Light extractable petroleum hydrocarbons
 - VPHs = Volatile petroleum hydrocarbons

Table 1B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR RLLD Standards
Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3							0+725	BH20-09	1+166	BH20-07	1+475	1+550	1+575	1+600	1+625	1+825	BH20-05	2+113	BH20-04	2+175	2+200	2+225
		Part 1					Part 2	Part 3	2021-05-27	2020-04-07	2021-05-27	2020-04-29	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2020-04-07	2021-05-26	2020-05-01	2021-05-26	2021-05-26	2021-05-26	
		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.5	0.1 - 0.3 m	0.3	0.1 - 0.3 m	0.2	0.5	0.7	0.7	0.7	0.2	0.1 - 0.3 m	0.2	0.1 - 0.3 m	0.3	0.5	0.7
		15-S-0.5	BH20-09-S020-01	18-S-0.3	BH20-07-S020-01	20-S-0.2	21-S-0.5	22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2	BH20-05-S020-01	27-S-0.2	BH20-04-S020-01	28-S-0.3	29-S-0.5	30-S-0.7							
Extractable Hydrocarbons																								
EPHs C10-C19	mg/kg	-	-	-	-	-	-	<100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	22	<20	<20	<20	<20	
EPHs C19-C32	mg/kg	-	-	-	-	-	-	790	316	83	200	51	46	49	46	48	23	71	137	20	36	134	111	
F2	mg/kg	-	-	-	-	-	-	-	<20	-	<20	-	-	-	-	-	-	<20	-	<20	-	-	-	
F3	mg/kg	-	-	-	-	-	-	-	447	-	235	-	-	-	-	-	-	39	-	20	-	-	-	
F4	mg/kg	-	-	-	-	-	-	-	912	-	346	-	-	-	-	-	-	<20	-	80	-	-	-	
HEPHs	mg/kg	-	-	-	-	-	1,000	1,000	790	316	83	200	51	46	49	46	48	23	71	135	20	36	127	106
LEPHs	mg/kg	-	-	-	-	-	1,000	1,000	<100	<20	<20	<20	<20	<20	<20	<20	<20	<20	21	<20	<20	<20	<20	
Polycyclic Aromatic Hydrocarbons (PAHs)																								
Acenaphthene	mg/kg	-	-	-	-	-	950	-	<0.1	<0.005	<0.01	0.007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	0.04	<0.005	<0.01	0.06	0.19	
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	<0.1	<0.005	0.02	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.011	0.03	<0.005	<0.01	0.02	<0.01	
Anthracene	mg/kg	-	-	-	10,000	2.5	-	-	<0.2	<0.004	0.05	0.014	<0.02	0.02	<0.02	<0.02	<0.02	0.03	0.11	<0.004	0.02	0.23	0.58	
Benz(a)anthracene	mg/kg	-	-	-	-	-	50	1	<0.2	<0.03	0.06	<0.03	0.02	0.04	<0.02	<0.02	<0.02	0.02	0.07	0.27	<0.03	0.03	0.9	0.83
Benzo(a)pyrene	mg/kg	-	-	-	5	20	-	-	<0.5	<0.03	0.06	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.27	<0.03	0.05	1.07	0.86	
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	<0.2	<0.02	0.08	<0.02	0.07	0.03	<0.02	<0.02	<0.02	0.04	0.06	0.25	<0.02	0.04	1.14	0.57
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	50	1	<0.03	<0.03	0.11	<0.03	0.09	0.03	<0.03	<0.03	<0.03	0.06	0.08	0.36	<0.03	0.06	1.49	0.85
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	<0.5	<0.05	0.08	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.24	<0.05	0.05	0.92	0.64	
Benzo(j)fluoranthene	mg/kg	-	-	-	-	-	-	-	<0.2	<0.02	0.03	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.11	<0.02	0.02	0.35	0.28	
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	50	1	<0.2	<0.02	0.04	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	0.02	0.03	0.16	<0.02	0.03	1.22	0.38
Chrysene	mg/kg	-	-	-	-	-	200	-	<0.5	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.31	<0.05	0.06	0.97	0.8	
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	5	1	<0.2	<0.005	<0.02	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	0.019	0.04	<0.005	<0.02	0.13	0.11	
Fluoranthene	mg/kg	-	-	-	1,500	50	-	-	<0.5	0.01	0.12	0.01	<0.05	0.06	<0.05	<0.05	<0.05	0.16	0.61	<0.01	<0.05	1.81	1.66	
Fluorene	mg/kg	-	-	-	-	-	600	-	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.06	0.17	
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	50	1	<0.2	<0.02	0.05	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	0.03	0.06	0.15	<0.02	0.03	0.61	0.44
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	250	-	<0.1	0.005	<0.01	0.064	0.02	0.02	<0.01	<0.01	<0.01	0.065	0.08	<0.005	<0.01	<0.01	0.02	
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	60	-	<0.1	0.005	<0.01	0.075	0.02	0.01	<0.01	<0.01	<0.01	0.059	0.1	<0.005	<0.01	<0.01	0.02	
Naphthalene	mg/kg	75	75	100	850	0.6	-	-	<0.1	<0.005	<0.01	0.092	0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.041	0.08	<0.005	<0.01	0.01	0.03
Phenanthrene	mg/kg	-	-	-	-	-	1,500	5	<0.2	<0.02	0.09	0.03	0.03	0.06	<0.02	<0.02	<0.02	<0.02	0.13	0.52	<0.02	0.03	0.97	1.72
Pyrene	mg/kg	-	-	-	-	-	1,000	10	<0.2	0.01	0.1	0.02	0.04	0.05	0.03	0.02	<0.02	0.03	0.13	0.46	<0.01	0.04	2	1.53
Quinoline	mg/kg	-	-	-	-	-	2.5	-	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	

Notes: = Analyte concentration exceeds most stringent applicable standard

- RLLD = Residential land-use, low density
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life
- DW = Drinking water
- HEPHs = Heavy extractable petroleum hydrocarbons
- LEPHs = Light extractable petroleum hydrocarbons
- VPHs = Volatile petroleum hydrocarbons

Table 1B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR RLLD Standards
 Hatch Corporation
 PO#00481 CP East Yard Track L30

Location ID	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3						2+250	2+275	2+313	BH20-01	
		Part 1					Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2020-04-07
		GW Flow to AW - FW (RLLD)	GW Flow to AW - MW (RLLD)	GW for DW (RLLD)	Intake of Contaminated Soil (RLLD)	Toxicity to Invertebrates & Plants (RLLD)	Human Health (RLLD)	Ecological Health (RLLD)	0.5	0.5	0.3	0.1 - 0.3 m
Sample Date (yyyy-mm-dd)	Sample Depth (mbgs)	Sample ID						31-S-0.5	32-S-0.5	33-S-0.3	BH20-01-S020-01	
Extractable Hydrocarbons												
EPHs C10-C19	mg/kg	-	-	-	-	-	-	<20	<20	<20	<20	
EPHs C19-C32	mg/kg	-	-	-	-	-	-	62	93	39	43	
F2	mg/kg	-	-	-	-	-	-	-	-	-	<20	
F3	mg/kg	-	-	-	-	-	-	-	-	-	51	
F4	mg/kg	-	-	-	-	-	-	-	-	-	180	
HEPHs	mg/kg	-	-	-	-	-	1,000	1,000	61	91	39	43
LEPHs	mg/kg	-	-	-	-	-	1,000	1,000	<20	<20	<20	<20
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	mg/kg	-	-	-	-	-	950	-	<0.01	0.02	<0.01	<0.005
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	0.009
Anthracene	mg/kg	-	-	-	10,000	2.5	-	-	0.04	0.08	<0.02	0.013
Benz(a)anthracene	mg/kg	-	-	-	-	-	50	1	0.11	0.26	<0.02	<0.03
Benzo(a)pyrene	mg/kg	-	-	-	5	20	-	-	0.15	0.35	<0.05	<0.03
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.11	0.24	<0.02	0.02
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	50	1	0.17	0.35	<0.03	<0.03
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	0.12	0.31	<0.05	<0.05
Benzo(j)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.06	0.11	<0.02	<0.02
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	50	1	0.07	0.15	<0.02	<0.02
Chrysene	mg/kg	-	-	-	-	-	200	-	0.12	0.28	<0.05	<0.05
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	5	1	0.02	0.04	<0.02	0.007
Fluoranthene	mg/kg	-	-	-	1,500	50	-	-	0.23	0.54	<0.05	0.03
Fluorene	mg/kg	-	-	-	-	-	600	-	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	50	1	0.08	0.19	<0.02	0.02
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	250	-	<0.01	<0.01	<0.01	<0.005
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	60	-	<0.01	<0.01	<0.01	<0.005
Naphthalene	mg/kg	75	75	100	850	0.6	-	-	0.01	0.01	<0.01	<0.005
Phenanthrene	mg/kg	-	-	-	-	-	1,500	5	0.11	0.29	<0.02	0.02
Pyrene	mg/kg	-	-	-	-	-	1,000	10	0.26	0.6	0.03	0.03
Quinoline	mg/kg	-	-	-	-	-	2.5	-	<0.05	<0.05	<0.05	<0.05

Notes:

■ = Analyte concentration exceeds most stringent applicable standard

- RLLD = Residential land-use, low density
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life
- DW = Drinking water
- HEPHs = Heavy extractable petroleum hydrocarbons
- LEPHs = Light extractable petroleum hydrocarbons
- VPHs = Volatile petroleum hydrocarbons

Table 2A: Soil Analytical Results (Inorganics) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1							0+125	0+250	0+313	0+313	0+313	0+366			0+410	0+475	0+563	0+588
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	
Sample Depth (mgs)		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.3	0.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	0.2	0.5	0.3
Sample ID									1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	X-S-2	5-S-0.5	6-S-1.2	X-S-1	7-S-0.5	8-S-0.2	9-S-0.5	10-S-0.3
Inorganics																				
Moisture	%																			
pH (Lab)	s.u.	-	-	-	-	-	-	7.07	6.99	8.14	8.07	8.11	7.39	6.97	7.29	7.44	7.68	7.81	7.7	
Saturation %	%	-	-	-	-	-	-	50.8	62.7	57.2	58.2	90.5	51	68.4	51.6	60.2	60	64.7	59.5	
Soluble Chloride	mg/kg	600	600	100	1,000,000	2500	-	<2	<2	<2	3	4	<2	<2	<2	<2	<2	4	4	
Soluble Sodium	mg/kg	-	-	15000	1,000,000	1000	-	<2	3	6	3	5	<2	<2	<2	8	7	4	4	
Metals																				
Aluminum	mg/kg	-	-	-	-	-	250,000	17,700	14,900	13,700	9,210	9,800	10,200	8,600	7,470	17,100	14,400	14,100	12,300	
Antimony	mg/kg	-	-	-	-	-	40,000	0.5	<0.1	0.1	0.2	0.2	0.4	0.4	0.2	4.3	7	2.8	1.6	
Arsenic	mg/kg	10	10	10	400	40	-	2.7	0.7	0.9	1.2	1.2	2.3	1.6	1.8	10	28.2	15.1	5.2	
Barium	mg/kg	3,500	1,500	350	1,000,000	1,500	-	130	138	85.5	50.2	55.8	47.3	36.6	32	142	138	165	86.1	
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	15,000	350	-	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.2	0.3	0.3	0.2	
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron	mg/kg	-	-	-	-	-	1,000,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	6.7	5.7	2.4	
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	3,500	75	-	0.36	0.09	0.18	0.1	0.13	0.11	0.09	0.08	0.31	1.47	0.78	0.34	
Chromium	mg/kg	60	60	60	20,000	250	-	12	5	5	7	10	9	10	9	19	47	33	27	
Cobalt	mg/kg	25	25	25	2,000	200	-	10	10.6	8	6.5	6.1	5.4	4.2	3.9	11.2	10.1	9.2	7.9	
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	700,000	300	-	67.6	54.1	106	67.4	71	21.6	19.6	18.6	91.4	108	86.8	36.5	
Iron	mg/kg	-	-	-	-	-	150,000	25,600	26,100	19,700	14,400	18,300	14,900	13,400	10,700	29,000	38,000	32,400	19,600	
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	4,000	1,000	-	24.9	4.9	7	5.5	7.1	10.1	7.3	6.3	25.1	97.5	136	20.5	
Lithium	mg/kg	-	-	-	-	-	450	7.8	7.2	8.5	7.3	7.7	7	8.5	5.8	9.5	9.5	10	8.5	
Manganese	mg/kg	-	-	2,000	1,000,000	2,000	-	455	399	430	304	313	268	246	186	506	627	547	388	
Mercury	mg/kg	-	-	-	2,000	75	-	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	0.04	0.09	0.3	0.06	
Molybdenum	mg/kg	650	650	15	35,000	150	-	1.1	0.5	7	0.7	1.7	0.4	0.3	0.2	1.8	6.5	3.4	0.9	
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	80,000	250	-	9.6	4.3	4.1	5.3	7	8.4	6.6	6.4	9.8	28.2	29.2	25.4	
Selenium	mg/kg	1	1	1	35,000	2	-	0.3	<0.1	0.2	<0.1	0.1	0.1	<0.1	<0.1	0.3	0.5	0.2	0.2	
Silver	mg/kg	-	-	-	-	-	35,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Strontium	mg/kg	-	-	-	-	-	150,000	78	74	72	33	32	20	20	21	81	131	70	51	
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Tin	mg/kg	-	-	-	-	-	1,000,000	1	0.4	0.4	0.3	0.3	0.5	0.3	0.3	1.8	4.3	6.4	2.1	
Tungsten	mg/kg	-	-	-	-	-	200	0.24	0.37	0.2	0.16	0.72	0.42	0.24	0.22	0.2	0.6	0.54	0.36	
Uranium	mg/kg	150	150	30	20,000	2,000	-	0.6	0.5	0.6	0.3	0.4	2.4	0.2	0.2	0.6	0.6	0.5	0.4	
Vanadium	mg/kg	-	-	100	35,000	300	-	71	88	57	42	58	39	38	35	83	57	51	49	
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	1,000,000	450	-	81	45	48	38	44	41	42	32	87	206	181	121	
Zirconium	mg/kg	-	-	-	-	-	-	0.9	1	1	0.7	0.7	0.5	0.6	0.6	1.2	1.3	1.1	2.1	

Notes:

 = Analyte concentration exceeds most stringent applicable standard

IL = Industrial land-use

GW = Groundwater

AW-FW = Surface water used by freshwater aquatic life

AW-MW = Surface water used by marine aquatic life

DW = Drinking water

s.u. = Standard units

mg/kg = Milligrams per kilogram

Table 2A: Soil Analytical Results (Inorganics) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1						0+625	0+650	0+675	0+700	0+725	BH20-09	1+166	BH20-07	1+475	1+550	1+575	
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2020-04-07	2021-05-27	2020-04-29	2021-05-26	2021-05-26	2021-05-26
Sample Depth (mgs)		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.5	0.5	0.7	0.7	0.5	0.1 - 0.3 m	0.3	0.1 - 0.3 m	0.2	0.5	0.7
Sample ID									11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	BH20-09-S020-01	18-S-0.3	BH20-07-S020-01	20-S-0.2	21-S-0.5	22-S-0.7
Inorganics																			
Moisture	%												4		4.1				
pH (Lab)	s.u.	-	-	-	-	-	-	8.4	8.03	7.23	7.15	7.36	7.24	8.08	8.47	6.77	8.05	8.21	
Saturation %	%	-	-	-	-	-	-	55	70.2	38	46.9	51.9	24.4	55	29.9	55.3	46.9	36.8	
Soluble Chloride	mg/kg	600	600	100	1,000,000	2500	-	2	3	<2	<2	3	4	<2	14	<2	<2	10	
Soluble Sodium	mg/kg	-	-	15000	1,000,000	1000	-	<2	2	6	<2	9	11	<2	25	<2	15	4	
Metals																			
Aluminum	mg/kg	-	-	-	-	-	250,000	13,400	13,400	8,550	8,060	7,940	13,500	13,900	18,600	12,700	11,300	11,700	
Antimony	mg/kg	-	-	-	-	-	40,000	0.7	1.4	0.2	0.2	0.5	0.2	2.1	0.2	1.1	0.7	3.9	
Arsenic	mg/kg	10	10	10	400	40	-	3.9	5	2.4	1.5	3	1.9	18.2	1.8	6	3.7	11.3	
Barium	mg/kg	3,500	1,500	350	1,000,000	1,500	-	109	90.7	36	32.4	35	44.1	86.1	104	67.9	66.3	41.9	
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	15,000	350	-	0.1	0.2	0.1	<0.1	<0.1	0.1	0.3	0.1	0.2	0.2	0.1	
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	
Boron	mg/kg	-	-	-	-	-	1,000,000	0.6	2.5	<0.5	<0.5	<0.5	1.1	2.3	1.7	1.2	3.8	0.7	
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	3,500	75	-	0.22	0.36	0.22	0.17	0.27	0.1	0.49	0.23	0.4	0.32	0.23	
Chromium	mg/kg	60	60	60	20,000	250	-	13	23	12	11	15	13	26	18	19	15	12	
Cobalt	mg/kg	25	25	25	2,000	200	-	7.6	7.1	5.2	4	4.6	6.7	7.9	9.9	6.4	6.3	5.9	
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	700,000	300	-	48.2	56.8	25.2	27.6	46.8	25	91.8	150	57.7	59.8	33.1	
Iron	mg/kg	-	-	-	-	-	150,000	21,100	22,700	13,800	14,100	16,600	20,200	22,800	27,000	20,700	20,800	18,500	
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	4,000	1,000	-	16.3	45.5	12.5	10	20.3	4.1	67.2	15.2	73.6	34.6	40.6	
Lithium	mg/kg	-	-	-	-	-	450	8.2	7.6	8.6	7.1	6	12.3	9.7	11.5	12.3	13.4	13.4	
Manganese	mg/kg	-	-	2,000	1,000,000	2,000	-	394	387	263	228	225	343	358	550	358	322	323	
Mercury	mg/kg	-	-	-	2,000	75	-	0.03	0.04	0.02	<0.01	0.02	<0.01	0.06	0.03	0.15	0.04	0.03	
Molybdenum	mg/kg	650	650	15	35,000	150	-	1.3	1.5	0.3	0.5	1	0.7	1.9	4.2	1.9	1.5	1.6	
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	80,000	250	-	12.9	18.4	9.2	7.1	10.7	7.5	17	7.2	15.3	13.4	9.3	
Selenium	mg/kg	1	1	1	35,000	2	-	0.2	0.3	<0.1	<0.1	0.2	<0.1	0.4	0.3	0.2	0.3	0.2	
Silver	mg/kg	-	-	-	-	-	35,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Strontium	mg/kg	-	-	-	-	-	150,000	73	62	22	23	21	26	124	97	47	61	38	
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Tin	mg/kg	-	-	-	-	-	1,000,000	0.7	2	0.4	0.4	0.6	0.4	2.4	0.5	1.2	1.2	1.3	
Tungsten	mg/kg	-	-	-	-	-	200	0.37	0.33	0.26	0.34	0.33	0.16	0.33	2.94	0.3	0.27	0.32	
Uranium	mg/kg	150	150	30	20,000	2,000	-	0.4	0.4	0.3	0.2	0.3	0.7	0.8	1.3	0.7	0.9	0.9	
Vanadium	mg/kg	-	-	100	35,000	300	-	64	57	44	36	41	45	57	78	49	54	44	
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	1,000,000	450	-	79	101	68	76	80	42	189	60	189	81	78	
Zirconium	mg/kg	-	-	-	-	-	-	1.4	1.1	1.2	0.9	0.8	1.2	0.7	2	0.6	1.9	1.1	

Notes:

 = Analyte concentration exceeds most stringent applicable standard

IL = Industrial land-use

GW = Groundwater

AW-FW = Surface water used by freshwater aquatic life

AW-MW = Surface water used by marine aquatic life

DW = Drinking water

s.u. = Standard units

mg/kg = Milligrams per kilogram

Table 2A: Soil Analytical Results (Inorganics) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1							1+600	1+625	1+825	BH20-05	2+113	BH20-04	BH20-04	2+175	2+200	2+225
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2020-04-07	2021-05-26	2020-05-01	2020-05-01	2021-05-26	2021-05-26	2021-05-26
Sample Depth (mgs)		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.7	0.7	0.2	0.1 - 0.3 m	0.2	0.1 - 0.3 m	0.7 - 0.9 m	0.3	0.5	0.7
Sample ID									23-S-0.7	24-S-0.7	26-S-0.2	BH20-05-S020-01	27-S-0.2	BH20-04-S020-01	BH20-04-S020-02	28-S-0.3	29-S-0.5	30-S-0.7
Inorganics																		
Moisture	%											14.2		4	4.4			
pH (Lab)	s.u.	-	-	-	-	-	-	8.24	7.58	6.1	6.29	6.32	7.72	7.6	7.23	8.19	8.24	
Saturation %	%	-	-	-	-	-	-	34.6	44.5	43.7	46.2	76.5	31.9	22.8	50.2	55.2	46.3	
Soluble Chloride	mg/kg	600	600	100	1,000,000	2500	-	3	12	<2	3	<2	3	7	<2	4	<2	
Soluble Sodium	mg/kg	-	-	15000	1,000,000	1000	-	2	10	<2	#VALUE!	2	7	10	<2	5	3	
Metals																		
Aluminum	mg/kg	-	-	-	-	-	250,000	12,200	14,300	9,940	15,000	12,700	18,300	17,000	15,100	10,900	12,400	
Antimony	mg/kg	-	-	-	-	-	40,000	2.8	0.4	0.9	13.7	4.5	0.3	0.3	0.8	3.4	0.8	
Arsenic	mg/kg	10	10	10	400	40	-	5.8	4.5	5.6	6	24.3	4	3.8	5.7	5.1	4.2	
Barium	mg/kg	3,500	1,500	350	1,000,000	1,500	-	37.6	42.1	60.9	313	253	65.1	81.1	57	61.9	65	
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	15,000	350	-	0.1	0.1	0.1	0.4	0.3	0.2	0.1	0.2	0.2	0.2	
Bismuth	mg/kg	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron	mg/kg	-	-	-	-	-	1,000,000	0.8	<0.5	<0.5	8.2	6.1	1	1	0.8	1.3	1.2	
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	3,500	75	-	0.21	0.22	0.57	0.56	1.79	0.18	0.16	0.3	0.33	0.29	
Chromium	mg/kg	60	60	60	20,000	250	-	13	17	14	19	23	24	74	22	24	20	
Cobalt	mg/kg	25	25	25	2,000	200	-	6.5	7.3	4.8	7.6	6.8	9.6	8.6	9.4	6.8	6.8	
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	700,000	300	-	28.9	28.3	58.1	117	159	31.1	28.3	56	32.2	36	
Iron	mg/kg	-	-	-	-	-	150,000	17,800	18,500	15,700	26,900	23,300	26,100	27,900	21,300	22,700	21,400	
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	4,000	1,000	-	29.1	17.7	84.2	321	214	6.2	5.2	37.2	166	31.7	
Lithium	mg/kg	-	-	-	-	-	450	12.9	12.5	8.4	12.3	13.3	13.4	15.6	9.6	6.9	7.7	
Manganese	mg/kg	-	-	2,000	1,000,000	2,000	-	325	348	222	295	343	437	439	464	358	339	
Mercury	mg/kg	-	-	-	2,000	75	-	0.02	0.02	0.04	0.05	0.16	0.01	0.01	0.02	0.02	0.03	
Molybdenum	mg/kg	650	650	15	35,000	150	-	1.2	0.8	0.9	1.7	2.6	0.7	2.9	1.3	1.1	1.2	
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	80,000	250	-	9.2	9.9	11	20	43	11.8	10.7	16.3	21.6	15.7	
Selenium	mg/kg	1	1	1	35,000	2	-	0.3	0.3	<0.1	0.7	0.6	0.2	0.4	0.4	0.3	0.3	
Silver	mg/kg	-	-	-	-	-	35,000	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	
Strontium	mg/kg	-	-	-	-	-	150,000	34	24	35	163	109	31	45	30	82	114	
Thallium	mg/kg	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Tin	mg/kg	-	-	-	-	-	1,000,000	0.9	0.4	1.7	11.9	12.7	0.4	0.5	0.9	1.5	1.9	
Tungsten	mg/kg	-	-	-	-	-	200	0.24	0.19	0.56	0.3	0.42	0.57	0.74	0.84	0.28	0.28	
Uranium	mg/kg	150	150	30	20,000	2,000	-	0.8	0.8	0.6	1.2	1.1	0.6	1.3	0.6	0.5	0.6	
Vanadium	mg/kg	-	-	100	35,000	300	-	52	55	43	53	55	65	65	58	47	51	
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	1,000,000	450	-	60	52	83	114	466	55	52	156	78	81	
Zirconium	mg/kg	-	-	-	-	-	-	1.2	1.5	0.7	5.1	1.1	2.8	2.9	0.9	2.2	1.6	

Notes:

= Analyte concentration exceeds most stringent applicable standard

IL = Industrial land-use

GW = Groundwater

AW-FW = Surface water used by freshwater aquatic life

AW-MW = Surface water used by marine aquatic life

DW = Drinking water

s.u. = Standard units

mg/kg = Milligrams per kilogram

Table 2A: Soil Analytical Results (Inorganics) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1						2+250	2+275	2+313	BH20-01	
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2020-04-07
Sample Depth (mgs)		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.5	0.5	0.3	0.1 - 0.3 m
Sample ID									31-S-0.5	32-S-0.5	33-S-0.3	BH20-01-S020-01
Inorganics												
Moisture	%											5.3
pH (Lab)	s.u.	-	-	-	-	-	-	-	7.79	8.08	6.79	7.82
Saturation %	%	-	-	-	-	-	-	-	43.6	56.3	48.7	31.4
Soluble Chloride	mg/kg	600	600	100	1,000,000	2500	-	-	2	<2	<2	36
Soluble Sodium	mg/kg	-	-	15000	1,000,000	1000	-	-	2	3	5	48
Metals												
Aluminum	mg/kg	-	-	-	-	-	250,000	-	11,200	12,700	13,300	13,900
Antimony	mg/kg	-	-	-	-	-	40,000	40	0.9	0.9	1.3	1.1
Arsenic	mg/kg	10	10	10	400	40	-	-	5.9	4.8	4.6	4.8
Barium	mg/kg	3,500	1,500	350	1,000,000	1,500	-	-	54.7	77.3	62.9	62.4
Beryllium	mg/kg	1 - 500	85 - 350000	1 - 2500	15,000	350	-	-	0.2	0.2	0.2	0.1
Bismuth	mg/kg	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5
Boron	mg/kg	-	-	-	-	-	1,000,000	-	0.8	1.6	0.9	1.3
Cadmium	mg/kg	1 - 50	1 - 200	1 - 70	3,500	75	-	-	0.38	0.3	0.22	0.36
Chromium	mg/kg	60	60	60	20,000	250	-	-	17	19	20	24
Cobalt	mg/kg	25	25	25	2,000	200	-	-	5.9	6.3	7.3	8
Copper	mg/kg	75 - 7500	75 - 1500	250 - 100000	700,000	300	-	-	51.6	35.6	29.6	51.4
Iron	mg/kg	-	-	-	-	-	150,000	-	17,300	20,200	20,100	23,500
Lead	mg/kg	200 - 90000	120 - 15000	120 - 8500	4,000	1,000	-	-	60.1	39.1	23.5	84.5
Lithium	mg/kg	-	-	-	-	-	450	-	8.8	7.5	7.9	10.4
Manganese	mg/kg	-	-	2,000	1,000,000	2,000	-	-	291	330	340	353
Mercury	mg/kg	-	-	-	2,000	75	-	-	0.04	0.03	0.02	0.04
Molybdenum	mg/kg	650	650	15	35,000	150	-	-	1	1	1.2	1.2
Nickel	mg/kg	90 - 9500	70 - 500	70 - 500	80,000	250	-	-	14.7	15.3	14.5	14.2
Selenium	mg/kg	1	1	1	35,000	2	-	-	0.2	0.4	0.3	0.3
Silver	mg/kg	-	-	-	-	-	35,000	40	<0.5	<0.5	<0.5	<0.5
Strontium	mg/kg	-	-	-	-	-	150,000	-	35	99	41	39
Thallium	mg/kg	-	-	-	-	-	-	25	<0.1	<0.1	<0.1	<0.1
Tin	mg/kg	-	-	-	-	-	1,000,000	300	2	1.8	1.8	2
Tungsten	mg/kg	-	-	-	-	-	200	-	0.43	0.25	0.26	0.52
Uranium	mg/kg	150	150	30	20,000	2,000	-	-	0.5	0.6	0.7	0.6
Vanadium	mg/kg	-	-	100	35,000	300	-	-	44	45	56	56
Zinc	mg/kg	150 - 3000	150 - 200	200 - 5500	1,000,000	450	-	-	98	79	79	81
Zirconium	mg/kg	-	-	-	-	-	-	-	0.9	1.3	1.7	2

Notes:

= Analyte concentration exceeds most stringent applicable standard

IL = Industrial land-use

GW = Groundwater

AW-FW = Surface water used by freshwater aquatic life

AW-MW = Surface water used by marine aquatic life

DW = Drinking water

s.u. = Standard units

mg/kg = Milligrams per kilogram

Table 2B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1						0+125	0+250	0+313	0+313	0+313	0+366	0+313	0+313	0+410	0+475	0+563	0+588	
		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	
		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.3	0.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	0.2	0.5	0.3
		Sample Date (yyyy-mm-dd)	Sample Depth (mgbs)	Sample ID	1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	X-S-2	5-S-0.5	6-S-1.2	X-S-1	7-S-0.5	8-S-0.2	9-S-0.5	10-S-0.3				
Extractable Hydrocarbons																				
HEPHs	mg/kg	-	-	-	-	-	5,000	5,000	143	<20	<20	120	280	340	420	510	66	295	300	192
LEPHs	mg/kg	-	-	-	-	-	2,000	2,000	<20	<20	<20	<100	<100	<100	<100	<100	<20	<20	27	<20
Polycyclic Aromatic Hydrocarbons (PAHs)																				
Acenaphthene	mg/kg	-	-	-	-	-	15,000	-	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	0.02	<0.01	<0.01
Anthracene	mg/kg	-	-	-	1,000,000	30	-	-	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.06	0.4	0.43	0.06
Benz(a)anthracene	mg/kg	-	-	-	-	-	500	10	0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.04	0.31	0.32	0.05
Benzo(a)pyrene	mg/kg	-	-	-	50	70	-	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.06	0.4	0.45	0.09
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	500	10	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.12	0.63	0.89	0.16
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	500	10	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.04	0.18	0.24	0.05
Chrysene	mg/kg	-	-	-	-	-	4,500	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.06	0.36	0.54	0.08
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	50	10	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	0.08	0.07	<0.02
Fluoranthene	mg/kg	-	-	-	300,000	200	-	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.07	0.52	0.6	0.09
Fluorene	mg/kg	-	-	-	-	-	9,500	-	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	0.03	0.03	<0.02
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	500	10	0.04	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.06	0.45	0.29	0.08
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	1,000	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	0.07	0.11	<0.01
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	950	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	0.07	0.12	<0.01
Naphthalene	mg/kg	75	75	100	150,000	20	-	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	0.09	0.11	<0.01
Phenanthrene	mg/kg	-	-	-	-	-	300,000	50	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.03	0.27	0.36	0.04
Pyrene	mg/kg	-	-	-	-	-	200,000	100	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.07	0.42	0.5	0.08
Quinoline	mg/kg	-	-	-	-	-	10	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- IL = Industrial land-use
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life
- DW = Drinking water
- HEPHs = Heavy extractable petroleum hydrocarbons
- LEPHs = Light extractable petroleum hydrocarbons
- VPHs = Volatile petroleum hydrocarbons

Table 2B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1						0+625	0+650	0+675	0+700	0+725	BH20-09	1+166	BH20-07	1+475	1+550	
		Part 1					Part 2	Part 3	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2020-04-07	2021-05-27	2020-04-29	2021-05-26	2021-05-26
		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.5	0.5	0.7	0.7	0.5	0.1 - 0.3 m	0.3	0.1 - 0.3 m	0.2	0.5
		Sample Date (yyyy-mm-dd)	Sample Depth (mgbs)	Sample ID	11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	BH20-09-S020-01	18-S-0.3	BH20-07-S020-01	20-S-0.2	21-S-0.5				
Extractable Hydrocarbons																		
HEPHs	mg/kg	-	-	-	-	-	5,000	5,000	390	389	360	370	790	316	83	200	51	46
LEPHs	mg/kg	-	-	-	-	-	2,000	2,000	<100	<100	<100	<100	<100	<20	<20	<20	<20	<20
Polycyclic Aromatic Hydrocarbons (PAHs)																		
Acenaphthene	mg/kg	-	-	-	-	-	15,000	-	<0.1	0.01	<0.1	<0.1	<0.1	<0.005	<0.01	0.007	<0.01	<0.01
Anthracene	mg/kg	-	-	-	1,000,000	30	-	-	<0.2	0.1	<0.2	<0.2	<0.2	<0.004	0.05	0.014	<0.02	0.02
Benz(a)anthracene	mg/kg	-	-	-	-	-	500	10	<0.2	0.13	<0.2	<0.2	<0.2	<0.03	0.06	<0.03	0.02	0.04
Benzo(a)pyrene	mg/kg	-	-	-	50	70	-	-	<0.5	0.16	<0.5	<0.5	<0.5	<0.03	0.06	<0.03	<0.05	<0.05
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	500	10	<0.03	0.27	<0.03	<0.03	<0.03	<0.03	0.11	<0.03	0.09	0.03
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	500	10	<0.2	0.1	<0.2	<0.2	<0.2	<0.02	0.04	<0.02	0.03	<0.02
Chrysene	mg/kg	-	-	-	-	-	4,500	-	<0.5	0.18	<0.5	<0.5	<0.5	<0.05	0.07	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	50	10	<0.2	0.02	<0.2	<0.2	<0.2	<0.005	<0.02	<0.005	<0.02	<0.02
Fluoranthene	mg/kg	-	-	-	300,000	200	-	-	<0.5	0.34	<0.5	<0.5	<0.5	0.01	0.12	0.01	<0.05	0.06
Fluorene	mg/kg	-	-	-	-	-	9,500	-	<0.2	<0.02	<0.2	<0.2	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	500	10	<0.2	0.09	<0.2	<0.2	<0.2	<0.02	0.05	<0.02	0.04	<0.02
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	1,000	-	<0.1	0.04	<0.1	<0.1	<0.1	0.005	<0.01	0.064	0.02	0.02
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	950	-	<0.1	0.03	<0.1	<0.1	<0.1	0.005	<0.01	0.075	0.02	0.01
Naphthalene	mg/kg	75	75	100	150,000	20	-	-	<0.1	0.04	<0.1	<0.1	<0.1	<0.005	<0.01	0.092	0.01	<0.01
Phenanthrene	mg/kg	-	-	-	-	-	300,000	50	<0.2	0.34	<0.2	<0.2	<0.2	<0.02	0.09	0.03	0.03	0.06
Pyrene	mg/kg	-	-	-	-	-	200,000	100	<0.2	0.28	<0.2	<0.2	<0.2	0.01	0.1	0.02	0.04	0.05
Quinoline	mg/kg	-	-	-	-	-	10	-	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- IL = Industrial land-use
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life
- DW = Drinking water
- HEPHs = Heavy extractable petroleum hydrocarbons
- LEPHs = Light extractable petroleum hydrocarbons
- VPHs = Volatile petroleum hydrocarbons

Table 2B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1						1+575	1+600	1+625	1+825	BH20-05	2+113	BH20-04	2+175	2+200	2+225	
		Part 1					Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2020-04-07	2021-05-26	2020-05-01	2021-05-26	2021-05-26	2021-05-26
		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.7	0.7	0.7	0.2	0.1 - 0.3 m	0.2	0.1 - 0.3 m	0.3	0.5	0.7
Sample Date (yyyy-mm-dd)	Sample Depth (mgbs)	Sample ID					22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2	BH20-05-S020-01	27-S-0.2	BH20-04-S020-01	28-S-0.3	29-S-0.5	30-S-0.7		
Extractable Hydrocarbons																		
HEPHs	mg/kg	-	-	-	-	-	5,000	5,000	49	46	48	23	71	135	20	36	127	106
LEPHs	mg/kg	-	-	-	-	-	2,000	2,000	<20	<20	<20	<20	<20	21	<20	<20	<20	<20
Polycyclic Aromatic Hydrocarbons (PAHs)																		
Acenaphthene	mg/kg	-	-	-	-	-	15,000	-	<0.01	<0.01	<0.01	<0.01	<0.005	0.04	<0.005	<0.01	0.06	0.19
Anthracene	mg/kg	-	-	-	1,000,000	30	-	-	<0.02	<0.02	<0.02	<0.02	0.03	0.11	<0.004	0.02	0.23	0.58
Benz(a)anthracene	mg/kg	-	-	-	-	-	500	10	<0.02	<0.02	<0.02	0.02	0.07	0.27	<0.03	0.03	0.9	0.83
Benzo(a)pyrene	mg/kg	-	-	-	50	70	-	-	<0.05	<0.05	<0.05	<0.05	0.06	0.27	<0.03	0.05	1.07	0.86
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	500	10	<0.03	<0.03	<0.03	0.06	0.08	0.36	<0.03	0.06	1.49	0.85
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	500	10	<0.02	<0.02	<0.02	0.02	0.03	0.16	<0.02	0.03	1.22	0.38
Chrysene	mg/kg	-	-	-	-	-	4,500	-	<0.05	<0.05	<0.05	<0.05	0.11	0.31	<0.05	0.06	0.97	0.8
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	50	10	<0.02	<0.02	<0.02	<0.02	0.019	0.04	<0.005	<0.02	0.13	0.11
Fluoranthene	mg/kg	-	-	-	300,000	200	-	-	<0.05	<0.05	<0.05	<0.05	0.16	0.61	<0.01	<0.05	1.81	1.66
Fluorene	mg/kg	-	-	-	-	-	9,500	-	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.06	0.17
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	500	10	<0.02	<0.02	<0.02	0.03	0.06	0.15	<0.02	0.03	0.61	0.44
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	1,000	-	<0.01	<0.01	<0.01	<0.01	0.065	0.08	<0.005	<0.01	<0.01	0.02
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	950	-	<0.01	<0.01	<0.01	0.01	0.059	0.1	<0.005	<0.01	<0.01	0.02
Naphthalene	mg/kg	75	75	100	150,000	20	-	-	<0.01	<0.01	<0.01	0.02	0.041	0.08	<0.005	<0.01	0.01	0.03
Phenanthrene	mg/kg	-	-	-	-	-	300,000	50	<0.02	<0.02	<0.02	<0.02	0.13	0.52	<0.02	0.03	0.97	1.72
Pyrene	mg/kg	-	-	-	-	-	200,000	100	0.03	0.02	<0.02	0.03	0.13	0.46	<0.01	0.04	2	1.53
Quinoline	mg/kg	-	-	-	-	-	10	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- IL = Industrial land-use
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life
- DW = Drinking water
- HEPHs = Heavy extractable petroleum hydrocarbons
- LEPHs = Light extractable petroleum hydrocarbons
- VPHs = Volatile petroleum hydrocarbons

Table 2B: Soil Analytical Results (Hydrocarbons, PAHs) - CSR IL Standards

Hatch Corporation
PO#00481 CP East Yard Track L30

Location	Reporting Units	British Columbia Contaminated Sites Regulation Schedule 3.1						2+250	2+275	2+313	BH20-01	
Sample Date (yyyy-mm-dd)		Part 1					Part 2	Part 3	2021-05-26	2021-05-26	2021-05-26	2020-04-07
Sample Depth (mgbs)		GW Flow to AW - FW (IL)	GW Flow to AW - MW (IL)	GW used for DW (IL)	Intake of Contaminated Soil (IL)	Toxicity to Invertebrates & Plants (IL)	Human Health (IL)	Ecological Health (IL)	0.5	0.5	0.3	0.1 - 0.3 m
Sample ID									31-S-0.5	32-S-0.5	33-S-0.3	BH20-01-S020-01
Extractable Hydrocarbons												
HEPHs	mg/kg	-	-	-	-	-	5,000	5,000	61	91	39	43
LEPHs	mg/kg	-	-	-	-	-	2,000	2,000	<20	<20	<20	<20
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	mg/kg	-	-	-	-	-	15,000	-	<0.01	0.02	<0.01	<0.005
Anthracene	mg/kg	-	-	-	1,000,000	30	-	-	0.04	0.08	<0.02	0.013
Benz(a)anthracene	mg/kg	-	-	-	-	-	500	10	0.11	0.26	<0.02	<0.03
Benzo(a)pyrene	mg/kg	-	-	-	50	70	-	-	0.15	0.35	<0.05	<0.03
Benzo(b+j)fluoranthenes	mg/kg	-	-	-	-	-	500	10	0.17	0.35	<0.03	<0.03
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	500	10	0.07	0.15	<0.02	<0.02
Chrysene	mg/kg	-	-	-	-	-	4,500	-	0.12	0.28	<0.05	<0.05
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	50	10	0.02	0.04	<0.02	0.007
Fluoranthene	mg/kg	-	-	-	300,000	200	-	-	0.23	0.54	<0.05	0.03
Fluorene	mg/kg	-	-	-	-	-	9,500	-	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	500	10	0.08	0.19	<0.02	0.02
Methylnaphthalene, 1-	mg/kg	-	-	-	-	-	1,000	-	<0.01	<0.01	<0.01	<0.005
Methylnaphthalene, 2-	mg/kg	-	-	-	-	-	950	-	<0.01	<0.01	<0.01	<0.005
Naphthalene	mg/kg	75	75	100	150,000	20	-	-	0.01	0.01	<0.01	<0.005
Phenanthrene	mg/kg	-	-	-	-	-	300,000	50	0.11	0.29	<0.02	0.02
Pyrene	mg/kg	-	-	-	-	-	200,000	100	0.26	0.6	0.03	0.03
Quinoline	mg/kg	-	-	-	-	-	10	-	<0.05	<0.05	<0.05	<0.05

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- IL = Industrial land-use
- mg/kg = Milligrams per kilogram
- GW = Groundwater
- AW-FW = Surface water used by freshwater aquatic life
- AW-MW = Surface water used by marine aquatic life
- DW = Drinking water
- HEPHs = Heavy extractable petroleum hydrocarbons
- LEPHs = Light extractable petroleum hydrocarbons
- VPHs = Volatile petroleum hydrocarbons

Table 3A: Soil Analytical Results (Inorganics) - CCME IL Guidelines
Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	Canadian Council of Ministers of the Environment: Environmental Quality Guidelines		0+125	0+250	0+313			0+366			0+410	0+475	0+563	0+588	0+625	0+650	0+675	0+700	0+725			
Sample Date (yyyy-mm-dd)				2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	
Sample Depth (mbgs)				0.3	0.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	0.2	0.5	0.3	0.5	0.5	0.7	0.7	0.5			
Sample ID				CCME Coarse Soil (IL)	CCME Fine Soil (IL)	1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	X-S-2	5-S-0.5	6-S-1.2	X-S-1	7-S-0.5	8-S-0.2	9-S-0.5	10-S-0.3	11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	
Inorganics & Physical Parameters																							
Moisture	%	-	-																				
pH (Lab)	s.u.	-	-	7.07	6.99	8.14	8.07	8.11	7.39	6.97	7.29	7.44	7.68	7.81	7.7	8.4	8.03	7.23	7.15	7.36			
Saturation %	%	-	-	50.8	62.7	57.2	58.2	90.5	51	68.4	51.6	60.2	60	64.7	59.5	55	70.2	38	46.9	51.9			
Soluble Chloride	mg/kg	-	-	<2	<2	<2	3	4	<2	<2	<2	<2	<2	4	4	2	3	<2	<2	3			
Soluble Sodium	mg/kg	-	-	<2	3	6	3	5	<2	<2	<2	8	7	4	4	<2	2	6	<2	9			
Metals																							
Aluminum	mg/kg	-	-	17,700	14,900	13,700	9,210	9,800	10,200	8,600	7,470	17,100	14,400	14,100	12,300	13,400	13,400	8,550	8,060	7,940			
Antimony	mg/kg	40	40	0.5	<0.1	0.1	0.2	0.2	0.4	0.4	0.2	4.3	7	2.8	1.6	0.7	1.4	0.2	0.2	0.5			
Arsenic	mg/kg	12	12	2.7	0.7	0.9	1.2	1.2	2.3	1.6	1.8	10	28.2	15.1	5.2	3.9	5	2.4	1.5	3			
Barium	mg/kg	2,000	2,000	130	138	85.5	50.2	55.8	47.3	36.6	32	142	138	165	86.1	109	90.7	36	32.4	35			
Beryllium	mg/kg	8	8	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.2	0.3	0.3	0.2	0.1	0.2	0.1	<0.1	<0.1			
Bismuth	mg/kg	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Boron	mg/kg	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	6.7	5.7	2.4	0.6	2.5	<0.5	<0.5	<0.5			
Cadmium	mg/kg	22	22	0.36	0.09	0.18	0.1	0.13	0.11	0.09	0.08	0.31	1.47	0.78	0.34	0.22	0.36	0.22	0.17	0.27			
Chromium	mg/kg	87	87	12	5	5	7	10	9	10	9	19	47	33	27	13	23	12	11	15			
Cobalt	mg/kg	300	300	10	10.6	8	6.5	6.1	5.4	4.2	3.9	11.2	10.1	9.2	7.9	7.6	7.1	5.2	4	4.6			
Copper	mg/kg	91	91	67.6	54.1	106	67.4	71	21.6	19.6	18.6	91.4	108	86.8	36.5	48.2	56.8	25.2	27.6	46.8			
Iron	mg/kg	-	-	25,600	26,100	19,700	14,400	18,300	14,900	13,400	10,700	29,000	38,000	32,400	19,600	21,100	22,700	13,800	14,100	16,600			
Lead	mg/kg	600	600	24.9	4.9	7	5.5	7.1	10.1	7.3	6.3	25.1	97.5	136	20.5	16.3	45.5	12.5	10	20.3			
Lithium	mg/kg	-	-	7.8	7.2	8.5	7.3	7.7	7	8.5	5.8	9.5	9.5	10	8.5	8.2	7.6	8.6	7.1	6			
Manganese	mg/kg	-	-	455	399	430	304	313	268	246	186	506	627	547	388	394	387	263	228	225			
Mercury	mg/kg	50	50	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	0.04	0.09	0.3	0.06	0.03	0.04	0.02	<0.01	0.02			
Molybdenum	mg/kg	40	40	1.1	0.5	7	0.7	1.7	0.4	0.3	0.2	1.8	6.5	3.4	0.9	1.3	1.5	0.3	0.5	1			
Nickel	mg/kg	89	89	9.6	4.3	4.1	5.3	7	8.4	6.6	6.4	9.8	28.2	29.2	25.4	12.9	18.4	9.2	7.1	10.7			
Selenium	mg/kg	2.9	2.9	0.3	<0.1	0.2	<0.1	0.1	0.1	<0.1	<0.1	0.3	0.5	0.2	0.2	0.2	0.3	<0.1	<0.1	0.2			
Silver	mg/kg	40	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Strontium	mg/kg	-	-	78	74	72	33	32	20	20	21	81	131	70	51	73	62	22	23	21			
Thallium	mg/kg	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Tin	mg/kg	300	300	1	0.4	0.4	0.3	0.3	0.5	0.3	0.3	1.8	4.3	6.4	2.1	0.7	2	0.4	0.4	0.6			
Tungsten	mg/kg	-	-	0.24	0.37	0.2	0.16	0.72	0.42	0.24	0.22	0.2	0.6	0.54	0.36	0.37	0.33	0.26	0.34	0.33			
Uranium	mg/kg	300	300	0.6	0.5	0.6	0.3	0.4	2.4	0.2	0.2	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.3			
Vanadium	mg/kg	130	130	71	88	57	42	58	39	38	35	83	57	51	49	64	57	44	36	41			
Zinc	mg/kg	410	410	81	45	48	38	44	41	42	32	87	206	181	121	79	101	68	76	80			
Zirconium	mg/kg	-	-	0.9	1	1	0.7	0.7	0.5	0.6	0.6	1.2	1.3	1.1	2.1	1.4	1.1	1.2	0.9	0.8			

Notes:
 = Analyte concentration exceeds most stringent applicable standard

- IL = Industrial land-use
- s.u. = standard units
- mg/kg = Milligrams per kilogram

Table 3A: Soil Analytical Results (Inorganics) - CCME IL Guidelines
Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	Canadian Council of Ministers of the Environment: Environmental Quality Guidelines		BH20-09	1+166	BH20-07	1+475	1+550	1+575	1+600	1+625	1+825	BH20-05	2+113	BH20-04	2+175	2+200	2+225		
Sample Date (yyyy-mm-dd)				2020-04-07	2021-05-27	2020-04-29	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2020-04-07	2021-05-26	2020-05-01	2021-05-26	2021-05-26	2021-05-26
Sample Depth (mbgs)				0.1 - 0.3 m	0.3	0.1 - 0.3 m	0.2	0.5	0.7	0.7	0.7	0.7	0.7	0.2	0.1 - 0.3 m	0.2	0.1 - 0.3 m	0.3	0.5	0.7
Sample ID				CCME Coarse Soil (IL)	CCME Fine Soil (IL)	BH20-09-S020-01	18-S-0.3	BH20-07-S020-01	20-S-0.2	21-S-0.5	22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2	BH20-05-S020-01	27-S-0.2	BH20-04-S020-01	28-S-0.3	29-S-0.5	30-S-0.7
Inorganics & Physical Parameters																				
Moisture	%	-	-	4		4.1							14.2		4					
pH (Lab)	s.u.	-	-	7.24	8.08	8.47	6.77	8.05	8.21	8.24	7.58	6.1	6.29	6.32	7.72	7.23	8.19	8.24		
Saturation %	%	-	-	24.4	55	29.9	55.3	46.9	36.8	34.6	44.5	43.7	46.2	76.5	31.9	50.2	55.2	46.3		
Soluble Chloride	mg/kg	-	-	4	<2	14	<2	<2	10	3	12	<2	3	<2	3	<2	4	<2		
Soluble Sodium	mg/kg	-	-	11	<2	25	<2	15	4	2	10	<2	<2	2	7	<2	5	3		
Metals																				
Aluminum	mg/kg	-	-	13,500	13,900	18,600	12,700	11,300	11,700	12,200	14,300	9,940	15,000	12,700	18,300	15,100	10,900	12,400		
Antimony	mg/kg	40	40	0.2	2.1	0.2	1.1	0.7	3.9	2.8	0.4	0.9	13.7	4.5	0.3	0.8	3.4	0.8		
Arsenic	mg/kg	12	12	1.9	18.2	1.8	6	3.7	11.3	5.8	4.5	5.6	6	24.3	4	5.7	5.1	4.2		
Barium	mg/kg	2,000	2,000	44.1	86.1	104	67.9	66.3	41.9	37.6	42.1	60.9	313	253	65.1	57	61.9	65		
Beryllium	mg/kg	8	8	0.1	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.2	0.2	0.2		
Bismuth	mg/kg	-	-	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Boron	mg/kg	-	-	1.1	2.3	1.7	1.2	3.8	0.7	0.8	<0.5	<0.5	8.2	6.1	1	0.8	1.3	1.2		
Cadmium	mg/kg	22	22	0.1	0.49	0.23	0.4	0.32	0.23	0.21	0.22	0.57	0.56	1.79	0.18	0.3	0.33	0.29		
Chromium	mg/kg	87	87	13	26	18	19	15	12	13	17	14	19	23	24	22	24	20		
Cobalt	mg/kg	300	300	6.7	7.9	9.9	6.4	6.3	5.9	6.5	7.3	4.8	7.6	6.8	9.6	9.4	6.8	6.8		
Copper	mg/kg	91	91	25	91.8	150	57.7	59.8	33.1	28.9	28.3	58.1	117	159	31.1	56	32.2	36		
Iron	mg/kg	-	-	20,200	22,800	27,000	20,700	20,800	18,500	17,800	18,500	15,700	26,900	23,300	26,100	21,300	22,700	21,400		
Lead	mg/kg	600	600	4.1	67.2	15.2	73.6	34.6	40.6	29.1	17.7	84.2	321	214	6.2	37.2	166	31.7		
Lithium	mg/kg	-	-	12.3	9.7	11.5	12.3	13.4	13.4	12.9	12.5	8.4	12.3	13.3	13.4	9.6	6.9	7.7		
Manganese	mg/kg	-	-	343	358	550	358	322	323	325	348	222	295	343	437	464	358	339		
Mercury	mg/kg	50	50	<0.01	0.06	0.03	0.15	0.04	0.03	0.02	0.02	0.04	0.05	0.16	0.01	0.02	0.02	0.03		
Molybdenum	mg/kg	40	40	0.7	1.9	4.2	1.9	1.5	1.6	1.2	0.8	0.9	1.7	2.6	0.7	1.3	1.1	1.2		
Nickel	mg/kg	89	89	7.5	17	7.2	15.3	13.4	9.3	9.2	9.9	11	20	43	11.8	16.3	21.6	15.7		
Selenium	mg/kg	2.9	2.9	<0.1	0.4	0.3	0.2	0.3	0.2	0.3	0.3	<0.1	0.7	0.6	0.2	0.4	0.3	0.3		
Silver	mg/kg	40	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5		
Strontium	mg/kg	-	-	26	124	97	47	61	38	34	24	35	163	109	31	30	82	114		
Thallium	mg/kg	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Tin	mg/kg	300	300	0.4	2.4	0.5	1.2	1.2	1.3	0.9	0.4	1.7	11.9	12.7	0.4	0.9	1.5	1.9		
Tungsten	mg/kg	-	-	0.16	0.33	2.94	0.3	0.27	0.32	0.24	0.19	0.56	0.3	0.42	0.57	0.84	0.28	0.28		
Uranium	mg/kg	300	300	0.7	0.8	1.3	0.7	0.9	0.9	0.8	0.8	0.6	1.2	1.1	0.6	0.6	0.5	0.6		
Vanadium	mg/kg	130	130	45	57	78	49	54	44	52	55	43	53	55	65	58	47	51		
Zinc	mg/kg	410	410	42	189	60	189	81	78	60	52	83	114	466	55	156	78	81		
Zirconium	mg/kg	-	-	1.2	0.7	2	0.6	1.9	1.1	1.2	1.5	0.7	5.1	1.1	2.8	0.9	2.2	1.6		

Notes:
 = Analyte concentration exceeds most stringent applica

- IL = Industrial land-use
- s.u. = standard units
- mg/kg = Milligrams per kilogram

Table 3A: Soil Analytical Results (Inorganics) - CCME IL Guidelines
Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	Canadian Council of Ministers of the Environment: Environmental Quality Guidelines		2+250	2+275	2+313	BH20-01
Sample Date (yyyy-mm-dd)				2021-05-26	2021-05-26	2021-05-26	2020-04-07
Sample Depth (mbgs)				0.5	0.5	0.3	0.1 - 0.3 m
Sample ID				CCME Coarse Soil (IL)	CCME Fine Soil (IL)	31-S-0.5	32-S-0.5
Inorganics & Physical Parameters							
Moisture	%	-	-				5.3
pH (Lab)	s.u.	-	-	7.79	8.08	6.79	7.82
Saturation %	%	-	-	43.6	56.3	48.7	31.4
Soluble Chloride	mg/kg	-	-	2	<2	<2	36
Soluble Sodium	mg/kg	-	-	2	3	5	48
Metals							
Aluminum	mg/kg	-	-	11,200	12,700	13,300	13,900
Antimony	mg/kg	40	40	0.9	0.9	1.3	1.1
Arsenic	mg/kg	12	12	5.9	4.8	4.6	4.8
Barium	mg/kg	2,000	2,000	54.7	77.3	62.9	62.4
Beryllium	mg/kg	8	8	0.2	0.2	0.2	0.1
Bismuth	mg/kg	-	-	<0.5	<0.5	<0.5	<0.5
Boron	mg/kg	-	-	0.8	1.6	0.9	1.3
Cadmium	mg/kg	22	22	0.38	0.3	0.22	0.36
Chromium	mg/kg	87	87	17	19	20	24
Cobalt	mg/kg	300	300	5.9	6.3	7.3	8
Copper	mg/kg	91	91	51.6	35.6	29.6	51.4
Iron	mg/kg	-	-	17,300	20,200	20,100	23,500
Lead	mg/kg	600	600	60.1	39.1	23.5	84.5
Lithium	mg/kg	-	-	8.8	7.5	7.9	10.4
Manganese	mg/kg	-	-	291	330	340	353
Mercury	mg/kg	50	50	0.04	0.03	0.02	0.04
Molybdenum	mg/kg	40	40	1	1	1.2	1.2
Nickel	mg/kg	89	89	14.7	15.3	14.5	14.2
Selenium	mg/kg	2.9	2.9	0.2	0.4	0.3	0.3
Silver	mg/kg	40	40	<0.5	<0.5	<0.5	<0.5
Strontium	mg/kg	-	-	35	99	41	39
Thallium	mg/kg	1	1	<0.1	<0.1	<0.1	<0.1
Tin	mg/kg	300	300	2	1.8	1.8	2
Tungsten	mg/kg	-	-	0.43	0.25	0.26	0.52
Uranium	mg/kg	300	300	0.5	0.6	0.7	0.6
Vanadium	mg/kg	130	130	44	45	56	56
Zinc	mg/kg	410	410	98	79	79	81
Zirconium	mg/kg	-	-	0.9	1.3	1.7	2

Notes:
 = Analyte concentration exceeds most stringent applica

- IL = Industrial land-use
- s.u. = standard units
- mg/kg = Milligrams per kilogram

Table 3B: Soil Analytical Results (Hydrocarbons, PAHs) - CCME IL Guidelines

Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	Canadian Council of Ministers of the Environment: Environmental Quality Guidelines		0+125	0+250	0+313			0+366			0+410	0+475	0+563	0+588	0+625	0+650	0+675	0+700	0+725	BH20-09	1+166		
Sample Date (yyyy-mm-dd)				2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2021-05-27	2020-04-07	2021-05-27
Sample Depth (mbgs)				0.3	0.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	1.2	1.2	0.5	0.2	0.5	0.3	0.5	0.5	0.7	0.7	0.5	0.1 - 0.3 m
Sample ID		CCME Coarse Soil (IL)	CCME Fine Soil (IL)	1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	X-S-2	5-S-0.5	6-S-1.2	X-S-1	7-S-0.5	8-S-0.2	9-S-0.5	10-S-0.3	11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	BH20-09-S020-01	18-S-0.3		
Extractable Hydrocarbons																								
EPHs C10-C19	mg/kg	-	-	<20	<20	<20	<100	<100	<100	<100	<100	<20	20	27	<20	<100	<100	<100	<100	<100	<20	<20		
EPHs C19-C32	mg/kg	-	-	143	<20	<20	120	280	340	420	510	66	297	303	192	390	390	360	370	790	316	83		
F2	mg/kg	260	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<20	-		
F3	mg/kg	1,700	2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	447	-		
F4	mg/kg	3,300	6,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	912	-		
HEPHs	mg/kg	-	-	143	<20	<20	120	280	340	420	510	66	295	300	192	390	389	360	370	790	316	83		
LEPHs	mg/kg	-	-	<20	<20	<20	<100	<100	<100	<100	<100	<20	<20	27	<20	<100	<100	<100	<100	<100	<20	<20		
Polycyclic Aromatic Hydrocarbons (PAHs)																								
Acenaphthene	mg/kg	0.28	0.28	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	0.02	<0.01	<0.01	<0.1	0.01	<0.1	<0.1	<0.1	<0.005	<0.01		
Acenaphthylene	mg/kg	320	320	0.01	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	0.04	0.24	0.22	0.03	<0.1	0.07	<0.1	<0.1	<0.1	<0.005	0.02		
Anthracene	mg/kg	32	32	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.06	0.4	0.43	0.06	<0.2	0.1	<0.2	<0.2	<0.2	<0.004	0.05		
Benzo(a)anthracene	mg/kg	10	10	0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.04	0.31	0.32	0.05	<0.2	0.13	<0.2	<0.2	<0.2	<0.03	0.06		
Benzo(a)pyrene	mg/kg	72	72	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.06	0.4	0.45	0.09	<0.5	0.16	<0.5	<0.5	<0.5	<0.03	0.06		
Benzo(b)fluoranthene	mg/kg	10	10	0.05	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.09	0.49	0.68	0.12	<0.2	0.19	<0.2	<0.2	<0.2	<0.02	0.08		
Benzo(b+j)fluoranthenes	mg/kg	-	-	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.12	0.63	0.89	0.16	<0.03	0.27	<0.03	<0.03	<0.03	<0.03	0.11		
Benzo(g,h,i)perylene	mg/kg	-	-	0.06	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.14	1.08	0.5	0.18	<0.5	0.13	<0.5	<0.5	<0.5	<0.05	0.08		
Benzo(j)fluoranthene	mg/kg	-	-	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.03	0.14	0.21	0.04	<0.2	0.08	<0.2	<0.2	<0.2	<0.02	0.03		
Benzo(k)fluoranthene	mg/kg	10	10	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.04	0.18	0.24	0.05	<0.2	0.1	<0.2	<0.2	<0.2	<0.02	0.04		
Chrysene	mg/kg	-	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.06	0.36	0.54	0.08	<0.5	0.18	<0.5	<0.5	<0.5	<0.05	0.07		
Dibenz(a,h)anthracene	mg/kg	10	10	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	0.08	0.07	<0.02	<0.2	0.02	<0.2	<0.2	<0.2	<0.005	<0.02		
Fluoranthene	mg/kg	180	180	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	0.07	0.52	0.6	0.09	<0.5	0.34	<0.5	<0.5	<0.5	0.01	0.12		
Fluorene	mg/kg	0.25	0.25	<0.02	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	0.03	0.03	<0.02	<0.2	<0.02	<0.2	<0.2	<0.2	<0.02	<0.02		
Indeno(1,2,3-cd)pyrene	mg/kg	10	10	0.04	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.06	0.45	0.29	0.08	<0.2	0.09	<0.2	<0.2	<0.2	<0.02	0.05		
Methylnaphthalene, 1-	mg/kg	-	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	0.07	0.11	<0.01	<0.1	0.04	<0.1	<0.1	<0.1	0.005	<0.01		
Methylnaphthalene, 2-	mg/kg	-	-	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	0.07	0.12	<0.01	<0.1	0.03	<0.1	<0.1	<0.1	0.005	<0.01		
Naphthalene	mg/kg	22	22	0.02	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	0.09	0.11	<0.01	<0.1	0.04	<0.1	<0.1	<0.1	<0.005	<0.01		
Phenanthrene	mg/kg	50	50	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.03	0.27	0.36	0.04	<0.2	0.34	<0.2	<0.2	<0.2	<0.02	0.09		
Pyrene	mg/kg	100	100	0.03	<0.02	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	0.07	0.42	0.5	0.08	<0.2	0.28	<0.2	<0.2	<0.2	0.01	0.1		
Quinoline	mg/kg	-	-	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.5	<0.5	<0.5	<0.05	<0.05		
Human Health Calculations																								
Benzo(a)pyrene TPE	mg/kg	5.3	5.3	0.05	0.04	0.04	0.38	0.38	0.38	0.38	0.38	0.10	0.65	0.70	0.14	0.41	0.24	0.41	0.41	0.41	0.02	0.10		
Index of Additive Cancer Risk	Unitless	1	1	0.77	0.16	0.16	NC	NC	NC	NC	NC	1.40	7.93	9.99	1.84	NC	3.36	NC	NC	NC	0.12	1.39		

- Notes:**
- = Analyte concentration exceeds most stringent applicable standard
 - IL = Industrial land-use
 - mg/kg = Milligrams per kilogram
 - F2 = Normal straight-chain hydrocarbons (nC) fraction range >NC10 to NC16
 - F3 = nC fraction range >NC16 to NC34
 - F4 = nC fraction range nC35+
 - NC = Index of Additive Cancer Risk values have not been calculated if every component parameter is less than the detection limit

Table 3B: Soil Analytical Results (Hydrocarbons, PAHs) - CCME IL Guidelines

Hatch Corporation
PO#00481 CP East Yard Track L30

Location ID	Reporting Units	Canadian Council of Ministers of the Environment: Environmental Quality Guidelines		BH20-07	1+475	1+550	1+575	1+600	1+625	1+825	BH20-05	2+113	BH20-04	2+175	2+200	2+225	2+250	2+275	2+313	BH20-01		
Sample Date (yyyy-mm-dd)				2020-04-29	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2020-04-07	2021-05-26	2020-05-01	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2020-04-07
Sample Depth (mbgs)				0.1 - 0.3 m	0.2	0.5	0.7	0.7	0.7	0.2	0.1 - 0.3 m	0.2	0.1 - 0.3 m	0.3	0.5	0.7	0.5	0.5	0.5	0.5	0.3	0.1 - 0.3 m
Sample ID		CCME Coarse Soil (IL)	CCME Fine Soil (IL)	BH20-07-SO20-01	20-S-0.2	21-S-0.5	22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2	BH20-05-SO20-01	27-S-0.2	BH20-04-SO20-01	28-S-0.3	29-S-0.5	30-S-0.7	31-S-0.5	32-S-0.5	33-S-0.3	BH20-01-SO20-01		
Extractable Hydrocarbons																						
EPHs C10-C19	mg/kg	-	-	<20	<20	<20	<20	<20	<20	<20	<20	22	<20	<20	<20	<20	<20	<20	<20	<20		
EPHs C19-C32	mg/kg	-	-	200	51	46	49	46	48	23	71	137	20	36	134	111	62	93	39	43		
F2	mg/kg	260	230	<20	-	-	-	-	-	-	<20	-	<20	-	-	-	-	-	-	<20		
F3	mg/kg	1,700	2,500	235	-	-	-	-	-	-	39	-	20	-	-	-	-	-	-	51		
F4	mg/kg	3,300	6,600	346	-	-	-	-	-	-	<20	-	80	-	-	-	-	-	-	180		
HEPHs	mg/kg	-	-	200	51	46	49	46	48	23	71	135	20	36	127	106	61	91	39	43		
LEPHs	mg/kg	-	-	<20	<20	<20	<20	<20	<20	<20	<20	21	<20	<20	<20	<20	<20	<20	<20	<20		
Polycyclic Aromatic Hydrocarbons (PAHs)																						
Acenaphthene	mg/kg	0.28	0.28	0.007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	0.04	<0.005	<0.01	0.06	0.19	<0.01	0.02	<0.01	<0.005		
Acenaphthylene	mg/kg	320	320	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.011	0.03	<0.005	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.009		
Anthracene	mg/kg	32	32	0.014	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	0.03	0.11	<0.004	0.02	0.23	0.58	0.04	0.08	<0.02	0.013		
Benzo(a)anthracene	mg/kg	10	10	<0.03	0.02	0.04	<0.02	<0.02	<0.02	0.02	0.07	0.27	<0.03	0.03	0.9	0.83	0.11	0.26	<0.02	<0.03		
Benzo(a)pyrene	mg/kg	72	72	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.27	<0.03	0.05	1.07	0.86	0.15	0.35	<0.05	<0.03		
Benzo(b)fluoranthene	mg/kg	10	10	<0.02	0.07	0.03	<0.02	<0.02	<0.02	0.04	0.06	0.25	<0.02	0.04	1.14	0.57	0.11	0.24	<0.02	0.02		
Benzo(b+j)fluoranthenes	mg/kg	-	-	<0.03	0.09	0.03	<0.03	<0.03	<0.03	0.06	0.08	0.36	<0.03	0.06	1.49	0.85	0.17	0.35	<0.03	<0.03		
Benzo(g,h,i)perylene	mg/kg	-	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.24	<0.05	0.05	0.92	0.64	0.12	0.31	<0.05	<0.05		
Benzo(j)fluoranthene	mg/kg	-	-	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.02	0.11	<0.02	0.02	0.35	0.28	0.06	0.11	<0.02	<0.02		
Benzo(k)fluoranthene	mg/kg	10	10	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	0.02	0.03	0.16	<0.02	0.03	1.22	0.38	0.07	0.15	<0.02	<0.02		
Chrysene	mg/kg	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.31	<0.05	0.06	0.97	0.8	0.12	0.28	<0.05	<0.05		
Dibenz(a,h)anthracene	mg/kg	10	10	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.019	0.04	<0.005	<0.02	0.13	0.11	0.02	0.04	<0.02	0.007		
Fluoranthene	mg/kg	180	180	0.01	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	0.16	0.61	<0.01	<0.05	1.81	1.66	0.23	0.54	<0.05	0.03		
Fluorene	mg/kg	0.25	0.25	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.06	0.17	<0.02	<0.02	<0.02	<0.02		
Indeno(1,2,3-cd)pyrene	mg/kg	10	10	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	0.03	0.06	0.15	<0.02	0.03	0.61	0.44	0.08	0.19	<0.02	0.02		
Methylnaphthalene, 1-	mg/kg	-	-	0.064	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.065	0.08	<0.005	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.005		
Methylnaphthalene, 2-	mg/kg	-	-	0.075	0.02	0.01	<0.01	<0.01	<0.01	0.01	0.059	0.1	<0.005	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.005		
Naphthalene	mg/kg	22	22	0.092	0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.041	0.08	<0.005	<0.01	0.01	0.03	0.01	0.01	<0.01	<0.005		
Phenanthrene	mg/kg	50	50	0.03	0.03	0.06	<0.02	<0.02	<0.02	<0.02	0.13	0.52	<0.02	0.03	0.97	1.72	0.11	0.29	<0.02	0.02		
Pyrene	mg/kg	100	100	0.02	0.04	0.05	0.03	0.02	<0.02	0.03	0.13	0.46	<0.01	0.04	2	1.53	0.26	0.6	0.03	0.03		
Quinoline	mg/kg	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Human Health Calculations																						
Benzo(a)pyrene TPE	mg/kg	5.3	5.3	0.02	0.05	0.05	0.04	0.04	0.04	0.05	0.10	0.41	0.02	0.08	1.64	1.23	0.22	0.49	0.04	0.03		
Index of Additive Cancer Risk	Unitless	1	1	0.12	0.96	0.56	0.35	0.35	0.35	0.70	1.23	5.21	0.12	0.88	23.95	13.64	2.43	5.28	0.16	0.39		

- Notes:**
- = Analyte concentration exceeds most stringent applicable s
 - IL = Industrial land-use
 - mg/kg = Milligrams per kilogram
 - F2 = Normal straight-chain hydrocabrons (nC) fraction range >N
 - F3 = nC fraction range >NC16 to NC34
 - F4 = nC fraction range nC35+
 - NC = Index of Additive Cancer Risk values have not been calcula

Table 4: Segment Characterization
Hatch Corporation
PO#00481 CP East Yard Track L30

Station Start	Station End	Representative Sample ID	CSR Characterization	CCME Characterization	Rep vol (m3)
0+000	0+187	1-S-03	RL-	IL-	188
0+187	0+281	2-S-0.2	RL-	IL-	219
0+281	0+313	3-S-0.5	RL-	IL+	225
0+313	0+339	4-S-1.2	RL-	IL+	263
0+339	0+366	5-S-0.5	RL-	IL-	300
0+366	0+388	6-S-1.2	RL-	IL-	300
0+388	0+442	7-S-0.5	RL-	IL+	206
0+442	0+519	8-S-0.2	IL+	IL+	152
0+519	0+575	9-S-0.5	IL+	IL+	188
0+575	0+606	10-S-0.3	RL-	IL+	188
0+606	0+637	11-S-0.5	RL-	IL-	113
0+637	0+662	12-S-0.5	RL-	IL+	113
0+662	0+687	13-S-0.7	RL-	IL-	150
0+687	0+712	14-S-0.7	RL-	IL-	150
0+712	0+862	15-S-0.5	RL-	IL-	144
0+862	1+083	BH20-09	RL-	IL-	488
1+083	1+293	18-S-0.3	IL+	IL+	271
1+293	1+447	BH20-07	RL-	IL+	0*
1+447	1+512	20-S-0.2	IL+	IL-	263
1+512	1+562	21-S-0.5	RL-	IL-	225
1+562	1+587	22-S-0.7	IL+	IL-	300
1+587	1+612	23-S-0.7	RL-	IL-	300
1+612	1+725	24-S-0.7	RL-	IL-	356
1+725	1+919	BH20-05	RL+	IL+	193
1+919	2+036	27-S-0.2	IL+	IL+	138
2+036	2+117	BH20-04	IL+	IL-	0*
2+117	2+187	28-S-0.3	IL+	IL-	206
2+187	2+212	29-S-0.5	RL+	IL+	225
2+212	2+237	30-S-0.7	RL-	IL+	300
2+237	2+262	31-S-0.5	RL-	IL+	225
2+262	2+294	32-S-0.5	RL-	IL+	225
2+294	2+371	33-S-0.3	RL-	IL-	425
2+371	2+500	BH20-01	RL-	IL+	0*

Notes:

* = Representative volume of 0 indicates a "Fill" segment



= Characterized as IL+

= Characterized as IL- / RL+

= Characterized as RL-

IL+ = Industrial land use

IL- / RL+ = Commercial land use

RL- = Residential low-density land use

LABORATORY ANALYTICAL REPORT

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
305 - 1166 ALBERNI STREET
VANCOUVER, BC V6E 3Z3
(604) 696-2673

ATTENTION TO: Alex Drover

PROJECT: 00481-02

AGAT WORK ORDER: 21V752805

SOIL ANALYSIS REVIEWED BY: Clarissa Muljono, Report Writer

TRACE ORGANICS REVIEWED BY: Clarissa Muljono, Report Writer

DATE REPORTED: Jun 04, 2021

PAGES (INCLUDING COVER): 34

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

***Notes**

VERSION 1: Sample receipt temperature 15°C.
Samples were received above specified storage temperature of 10 °C.

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

Certificate of Analysis

AGAT WORK ORDER: 21V752805

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

CSR Omnibus Metals in Soil

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	SAMPLE DESCRIPTION:		1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	5-S-0.5	6-S-1.2	7-S-0.5	8-S-0.2
		G / S	RDL	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:	DATE SAMPLED:
				2021-05-27 08:15 2522416	2021-05-27 08:15 2522498	2021-05-27 08:20 2522499	2021-05-27 09:20 2522500	2021-05-27 09:25 2522501	2021-05-27 09:05 2522502	2021-05-27 09:10 2522503	2021-05-27 08:40 2522504
Aluminum	µg/g		10	17700	14900	13700	9210	10200	8600	17100	14400
Antimony	µg/g		0.1	0.5	<0.1	0.1	0.2	0.4	0.4	4.3	7.0
Arsenic	µg/g		0.1	2.7	0.7	0.9	1.2	2.3	1.6	10.0	28.2
Barium	µg/g		0.5	130	138	85.5	50.2	47.3	36.6	142	138
Beryllium	µg/g		0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	0.3
Bismuth	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	6.7
Cadmium	µg/g		0.01	0.36	0.09	0.18	0.10	0.11	0.09	0.31	1.47
Chromium	µg/g		1	12	5	5	7	9	10	19	47
Cobalt	µg/g		0.1	10.0	10.6	8.0	6.5	5.4	4.2	11.2	10.1
Copper	µg/g		0.2	67.6	54.1	106	67.4	21.6	19.6	91.4	108
Iron	µg/g		10	25600	26100	19700	14400	14900	13400	29000	38000
Lead	µg/g		0.1	24.9	4.9	7.0	5.5	10.1	7.3	25.1	97.5
Lithium	µg/g		0.5	7.8	7.2	8.5	7.3	7.0	8.5	9.5	9.5
Manganese	µg/g		1	455	399	430	304	268	246	506	627
Mercury	µg/g		0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	0.04	0.09
Molybdenum	µg/g		0.2	1.1	0.5	7.0	0.7	0.4	0.3	1.8	6.5
Nickel	µg/g		0.5	9.6	4.3	4.1	5.3	8.4	6.6	9.8	28.2
Selenium	µg/g		0.1	0.3	<0.1	0.2	<0.1	0.1	<0.1	0.3	0.5
Silver	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Strontium	µg/g		1	78	74	72	33	20	20	81	131
Thallium	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	µg/g		0.2	1.0	0.4	0.4	0.3	0.5	0.3	1.8	4.3
Tungsten	µg/g		0.05	0.24	0.37	0.20	0.16	0.42	0.24	0.20	0.60
Uranium	µg/g		0.2	0.6	0.5	0.6	0.3	2.4	0.2	0.6	0.6
Vanadium	µg/g		1	71	88	57	42	39	38	83	57
Zinc	µg/g		1	81	45	48	38	41	42	87	206
Zirconium	µg/g		0.1	0.9	1.0	1.0	0.7	0.5	0.6	1.2	1.3
pH 1:2	pH units		0.05	7.07	6.99	8.14	8.07	7.39	6.97	7.44	7.68

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

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FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

CSR Omnibus Metals in Soil

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Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	9-S-0.5	10-S-0.3	11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	X-S-1
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2021-05-27 08:45	2021-05-27 09:00	2021-05-27 09:35	2021-05-27 09:55	2021-05-27 10:00	2021-05-27 10:05	2021-05-27 10:10	2021-05-27 10:15	2021-05-27 10:15
				2522505	2522506	2522507	2522508	2522509	2522510	2522511	2522512	2522512
Aluminum	µg/g		10	14100	12300	13400	13400	8550	8060	7940	7470	
Antimony	µg/g		0.1	2.8	1.6	0.7	1.4	0.2	0.2	0.5	0.2	
Arsenic	µg/g		0.1	15.1	5.2	3.9	5.0	2.4	1.5	3.0	1.8	
Barium	µg/g		0.5	165	86.1	109	90.7	36.0	32.4	35.0	32.0	
Beryllium	µg/g		0.1	0.3	0.2	0.1	0.2	0.1	<0.1	<0.1	<0.1	
Bismuth	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron	µg/g		0.5	5.7	2.4	0.6	2.5	<0.5	<0.5	<0.5	<0.5	
Cadmium	µg/g		0.01	0.78	0.34	0.22	0.36	0.22	0.17	0.27	0.08	
Chromium	µg/g		1	33	27	13	23	12	11	15	9	
Cobalt	µg/g		0.1	9.2	7.9	7.6	7.1	5.2	4.0	4.6	3.9	
Copper	µg/g		0.2	86.8	36.5	48.2	56.8	25.2	27.6	46.8	18.6	
Iron	µg/g		10	32400	19600	21100	22700	13800	14100	16600	10700	
Lead	µg/g		0.1	136	20.5	16.3	45.5	12.5	10.0	20.3	6.3	
Lithium	µg/g		0.5	10.0	8.5	8.2	7.6	8.6	7.1	6.0	5.8	
Manganese	µg/g		1	547	388	394	387	263	228	225	186	
Mercury	µg/g		0.01	0.30	0.06	0.03	0.04	0.02	<0.01	0.02	0.01	
Molybdenum	µg/g		0.2	3.4	0.9	1.3	1.5	0.3	0.5	1.0	0.2	
Nickel	µg/g		0.5	29.2	25.4	12.9	18.4	9.2	7.1	10.7	6.4	
Selenium	µg/g		0.1	0.2	0.2	0.2	0.3	<0.1	<0.1	0.2	<0.1	
Silver	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Strontium	µg/g		1	70	51	73	62	22	23	21	21	
Thallium	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Tin	µg/g		0.2	6.4	2.1	0.7	2.0	0.4	0.4	0.6	0.3	
Tungsten	µg/g		0.05	0.54	0.36	0.37	0.33	0.26	0.34	0.33	0.22	
Uranium	µg/g		0.2	0.5	0.4	0.4	0.4	0.3	0.2	0.3	0.2	
Vanadium	µg/g		1	51	49	64	57	44	36	41	35	
Zinc	µg/g		1	181	121	79	101	68	76	80	32	
Zirconium	µg/g		0.1	1.1	2.1	1.4	1.1	1.2	0.9	0.8	0.6	
pH 1:2	pH units		0.05	7.81	7.70	8.40	8.03	7.23	7.15	7.36	7.29	

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FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

SAMPLING SITE:

ATTENTION TO: Alex Drover

SAMPLED BY:

CSR Omnibus Metals in Soil

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

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DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	SAMPLE DESCRIPTION:		X-S-2	18-S-0.3	20-S-0.2	21-S-0.5	22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-05-27 09:10	2021-05-27 09:25	2021-05-26 14:20	2021-05-26 14:00	2021-05-26 13:50	2021-05-26 13:45	2021-05-26 13:35	2021-05-26 11:45
		G / S	RDL	2522513	2522514	2522515	2522516	2522517	2522518	2522519	2522520
Aluminum	µg/g		10	9800	13900	12700	11300	11700	12200	14300	9940
Antimony	µg/g		0.1	0.2	2.1	1.1	0.7	3.9	2.8	0.4	0.9
Arsenic	µg/g		0.1	1.2	18.2	6.0	3.7	11.3	5.8	4.5	5.6
Barium	µg/g		0.5	55.8	86.1	67.9	66.3	41.9	37.6	42.1	60.9
Beryllium	µg/g		0.1	<0.1	0.3	0.2	0.2	0.1	0.1	0.1	0.1
Bismuth	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g		0.5	<0.5	2.3	1.2	3.8	0.7	0.8	<0.5	<0.5
Cadmium	µg/g		0.01	0.13	0.49	0.40	0.32	0.23	0.21	0.22	0.57
Chromium	µg/g		1	10	26	19	15	12	13	17	14
Cobalt	µg/g		0.1	6.1	7.9	6.4	6.3	5.9	6.5	7.3	4.8
Copper	µg/g		0.2	71.0	91.8	57.7	59.8	33.1	28.9	28.3	58.1
Iron	µg/g		10	18300	22800	20700	20800	18500	17800	18500	15700
Lead	µg/g		0.1	7.1	67.2	73.6	34.6	40.6	29.1	17.7	84.2
Lithium	µg/g		0.5	7.7	9.7	12.3	13.4	13.4	12.9	12.5	8.4
Manganese	µg/g		1	313	358	358	322	323	325	348	222
Mercury	µg/g		0.01	<0.01	0.06	0.15	0.04	0.03	0.02	0.02	0.04
Molybdenum	µg/g		0.2	1.7	1.9	1.9	1.5	1.6	1.2	0.8	0.9
Nickel	µg/g		0.5	7.0	17.0	15.3	13.4	9.3	9.2	9.9	11.0
Selenium	µg/g		0.1	0.1	0.4	0.2	0.3	0.2	0.3	0.3	<0.1
Silver	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Strontium	µg/g		1	32	124	47	61	38	34	24	35
Thallium	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	µg/g		0.2	0.3	2.4	1.2	1.2	1.3	0.9	0.4	1.7
Tungsten	µg/g		0.05	0.72	0.33	0.30	0.27	0.32	0.24	0.19	0.56
Uranium	µg/g		0.2	0.4	0.8	0.7	0.9	0.9	0.8	0.8	0.6
Vanadium	µg/g		1	58	57	49	54	44	52	55	43
Zinc	µg/g		1	44	189	189	81	78	60	52	83
Zirconium	µg/g		0.1	0.7	0.7	0.6	1.9	1.1	1.2	1.5	0.7
pH 1:2	pH units		0.05	8.11	8.08	6.77	8.05	8.21	8.24	7.58	6.10

Certified By:





AGAT Laboratories

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Parameter	Unit	SAMPLE DESCRIPTION:		27-S-0.2	28-S-0.3	29-S-0.5	30-S-0.7	31-S-0.5	32-S-0.5	33-S-0.3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-05-26 11:05	2021-05-26 11:00	2021-05-26 10:50	2021-05-26 10:40	2021-05-26 10:30	2021-05-26 08:00	2021-05-26 07:50
		G / S	RDL	2522521	2522522	2522523	2522524	2522525	2522526	2522527
Aluminum	µg/g		10	12700	15100	10900	12400	11200	12700	13300
Antimony	µg/g		0.1	4.5	0.8	3.4	0.8	0.9	0.9	1.3
Arsenic	µg/g		0.1	24.3	5.7	5.1	4.2	5.9	4.8	4.6
Barium	µg/g		0.5	253	57.0	61.9	65.0	54.7	77.3	62.9
Beryllium	µg/g		0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Bismuth	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g		0.5	6.1	0.8	1.3	1.2	0.8	1.6	0.9
Cadmium	µg/g		0.01	1.79	0.30	0.33	0.29	0.38	0.30	0.22
Chromium	µg/g		1	23	22	24	20	17	19	20
Cobalt	µg/g		0.1	6.8	9.4	6.8	6.8	5.9	6.3	7.3
Copper	µg/g		0.2	159	56.0	32.2	36.0	51.6	35.6	29.6
Iron	µg/g		10	23300	21300	22700	21400	17300	20200	20100
Lead	µg/g		0.1	214	37.2	166	31.7	60.1	39.1	23.5
Lithium	µg/g		0.5	13.3	9.6	6.9	7.7	8.8	7.5	7.9
Manganese	µg/g		1	343	464	358	339	291	330	340
Mercury	µg/g		0.01	0.16	0.02	0.02	0.03	0.04	0.03	0.02
Molybdenum	µg/g		0.2	2.6	1.3	1.1	1.2	1.0	1.0	1.2
Nickel	µg/g		0.5	43.0	16.3	21.6	15.7	14.7	15.3	14.5
Selenium	µg/g		0.1	0.6	0.4	0.3	0.3	0.2	0.4	0.3
Silver	µg/g		0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Strontium	µg/g		1	109	30	82	114	35	99	41
Thallium	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	µg/g		0.2	12.7	0.9	1.5	1.9	2.0	1.8	1.8
Tungsten	µg/g		0.05	0.42	0.84	0.28	0.28	0.43	0.25	0.26
Uranium	µg/g		0.2	1.1	0.6	0.5	0.6	0.5	0.6	0.7
Vanadium	µg/g		1	55	58	47	51	44	45	56
Zinc	µg/g		1	466	156	78	81	98	79	79
Zirconium	µg/g		0.1	1.1	0.9	2.2	1.6	0.9	1.3	1.7
pH 1:2	pH units		0.05	6.32	7.23	8.19	8.24	7.79	8.08	6.79

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

CSR Omnibus Metals in Soil

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

2522416-2522527 Results are based on the dry weight of the sample

Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

Soluble Sodium and Chloride in Soil

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

		SAMPLE DESCRIPTION:		1-S-0.3	2-S-0.2	3-S-0.5	4-S-1.2	5-S-0.5	6-S-1.2	7-S-0.5	8-S-0.2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-05-27 08:15	2021-05-27 08:15	2021-05-27 08:20	2021-05-27 09:20	2021-05-27 09:25	2021-05-27 09:05	2021-05-27 09:10	2021-05-27 08:40
Parameter	Unit	G / S	RDL	2522416	2522498	2522499	2522500	2522501	2522502	2522503	2522504
Chloride, Soluble	mg/L		2	3	3	3	5	3	<2	<2	<2
Sodium, Soluble	mg/L		2	3	4	10	6	2	<2	14	11
Saturation Percentage	%		0.5	50.8	62.7	57.2	58.2	51.0	68.4	60.2	60.0
Chloride, Soluble (mg/kg)	mg/kg		2	<2	<2	<2	3	<2	<2	<2	<2
Sodium, Soluble (mg/kg)	mg/kg		2	<2	3	6	3	<2	<2	8	7
		SAMPLE DESCRIPTION:		9-S-0.5	10-S-0.3	11-S-0.5	12-S-0.5	13-S-0.7	14-S-0.7	15-S-0.5	X-S-1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-05-27 08:45	2021-05-27 09:00	2021-05-27 09:35	2021-05-27 09:55	2021-05-27 10:00	2021-05-27 10:05	2021-05-27 10:10	2021-05-27 10:15
Parameter	Unit	G / S	RDL	2522505	2522506	2522507	2522508	2522509	2522510	2522511	2522512
Chloride, Soluble	mg/L		2	6	6	4	4	4	3	5	3
Sodium, Soluble	mg/L		2	6	6	2	3	15	4	18	<2
Saturation Percentage	%		0.5	64.7	59.5	55.0	70.2	38.0	46.9	51.9	51.6
Chloride, Soluble (mg/kg)	mg/kg		2	4	4	2	3	<2	<2	3	<2
Sodium, Soluble (mg/kg)	mg/kg		2	4	4	<2	2	6	<2	9	<2
		SAMPLE DESCRIPTION:		X-S-2	18-S-0.3	20-S-0.2	21-S-0.5	22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-05-27 09:10	2021-05-27 09:25	2021-05-26 14:20	2021-05-26 14:00	2021-05-26 13:50	2021-05-26 13:45	2021-05-26 13:35	2021-05-26 11:45
Parameter	Unit	G / S	RDL	2522513	2522514	2522515	2522516	2522517	2522518	2522519	2522520
Chloride, Soluble	mg/L		2	4	3	3	4	28	8	27	<2
Sodium, Soluble	mg/L		2	5	3	2	33	11	7	23	2
Saturation Percentage	%		0.5	90.5	55.0	55.3	46.9	36.8	34.6	44.5	43.7
Chloride, Soluble (mg/kg)	mg/kg		2	4	<2	<2	<2	10	3	12	<2
Sodium, Soluble (mg/kg)	mg/kg		2	5	<2	<2	15	4	2	10	<2

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
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 TEL (778)452-4000
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<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

Soluble Sodium and Chloride in Soil

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	SAMPLE DESCRIPTION:									
		G / S	RDL	27-S-0.2	28-S-0.3	29-S-0.5	30-S-0.7	31-S-0.5	32-S-0.5	33-S-0.3	
				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2021-05-26 11:05	2021-05-26 11:00	2021-05-26 10:50	2021-05-26 10:40	2021-05-26 10:30	2021-05-26 08:00	2021-05-26 07:50
2522521	2522522	2522523	2522524	2522525	2522526	2522527					
Chloride, Soluble	mg/L	2	<2	<2	8	<2	5	<2	<2		
Sodium, Soluble	mg/L	2	3	3	9	7	5	6	10		
Saturation Percentage	%	0.5	76.5	50.2	55.2	46.3	43.6	56.3	48.7		
Chloride, Soluble (mg/kg)	mg/kg	2	<2	<2	4	<2	2	<2	<2		
Sodium, Soluble (mg/kg)	mg/kg	2	2	<2	5	3	2	3	5		

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard
 Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:



Certificate of Analysis

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: 1-S-0.3		2-S-0.2		3-S-0.5		4-S-1.2		5-S-0.5		6-S-1.2	
				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
DATE SAMPLED:				2021-05-27 08:15	2021-05-27 08:15	2021-05-27 08:20			2021-05-27 09:20	2021-05-27 09:25	2021-05-27 09:05				
				2522416	2522498	2522499	RDL	2522500	2522501	2522502					
Naphthalene	µg/g		0.01	0.02	<0.01	<0.01	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	µg/g		0.01	0.02	<0.01	<0.01	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-Methylnaphthalene	µg/g		0.01	0.02	<0.01	<0.01	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/g		0.01	0.01	<0.01	<0.01	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenanthrene	µg/g		0.02	0.03	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Anthracene	µg/g		0.02	0.03	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluoranthene	µg/g		0.05	<0.05	<0.05	<0.05	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	µg/g		0.02	0.03	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)anthracene	µg/g		0.02	0.02	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	µg/g		0.02	0.05	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(j)fluoranthene	µg/g		0.02	<0.02	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(k)fluoranthene	µg/g		0.02	0.03	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(b+j)fluoranthene	µg/g		0.03	0.05	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	µg/g		0.02	0.04	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dibenzo(a,h)anthracene	µg/g		0.02	<0.02	<0.02	<0.02	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(g,h,i)perylene	µg/g		0.05	0.06	<0.05	<0.05	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Quinoline	µg/g		0.05	<0.05	<0.05	<0.05	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EPH C10-C19	µg/g		20	<20	<20	<20	100	<100	<100	<100	<100	<100	<100	<100	<100
EPH C19-C32	µg/g		20	143	<20	<20	100	120	340	420					
LEPH C10-C19	µg/g		20	<20	<20	<20	100	<100	<100	<100					
HEPH C19-C32	µg/g		20	143	<20	<20	100	120	340	420					
Surrogate	Unit	Acceptable Limits													
Naphthalene - d8	%	50-140		128	118	122		89.6	99.6	89.2					
Pyrene-d10	%	50-140		131	111	122		109	111	110					
P-Terphenyl - d14	%	50-140		137	107	119		110	110	112					

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
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<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

SAMPLING SITE:

ATTENTION TO: Alex Drover

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	G / S	RDL	7-S-0.5		8-S-0.2		9-S-0.5		10-S-0.3		11-S-0.5		12-S-0.5	
				2522503	2522504	2522505	2522506	RDL	2522507	RDL	2522508				
Naphthalene	µg/g		0.01	0.01	0.09	0.11	<0.01	0.1	<0.1	0.01	0.04				
2-Methylnaphthalene	µg/g		0.01	<0.01	0.07	0.12	<0.01	0.1	<0.1	0.01	0.03				
1-Methylnaphthalene	µg/g		0.01	<0.01	0.07	0.11	<0.01	0.1	<0.1	0.01	0.04				
Acenaphthylene	µg/g		0.01	0.04	0.24	0.22	0.03	0.1	<0.1	0.01	0.07				
Acenaphthene	µg/g		0.01	<0.01	0.02	<0.01	<0.01	0.1	<0.1	0.01	0.01				
Fluorene	µg/g		0.02	<0.02	0.03	0.03	<0.02	0.2	<0.2	0.02	<0.02				
Phenanthrene	µg/g		0.02	0.03	0.27	0.36	0.04	0.2	<0.2	0.02	0.34				
Anthracene	µg/g		0.02	0.06	0.40	0.43	0.06	0.2	<0.2	0.02	0.10				
Fluoranthene	µg/g		0.05	0.07	0.52	0.60	0.09	0.5	<0.5	0.05	0.34				
Pyrene	µg/g		0.02	0.07	0.42	0.50	0.08	0.2	<0.2	0.02	0.28				
Benzo(a)anthracene	µg/g		0.02	0.04	0.31	0.32	0.05	0.2	<0.2	0.02	0.13				
Chrysene	µg/g		0.05	0.06	0.36	0.54	0.08	0.5	<0.5	0.05	0.18				
Benzo(b)fluoranthene	µg/g		0.02	0.09	0.49	0.68	0.12	0.2	<0.2	0.02	0.19				
Benzo(j)fluoranthene	µg/g		0.02	0.03	0.14	0.21	0.04	0.2	<0.2	0.02	0.08				
Benzo(k)fluoranthene	µg/g		0.02	0.04	0.18	0.24	0.05	0.2	<0.2	0.02	0.10				
Benzo(b+j)fluoranthene	µg/g		0.03	0.12	0.63	0.89	0.16	0.03	<0.03	0.03	0.27				
Benzo(a)pyrene	µg/g		0.05	0.06	0.40	0.45	0.09	0.5	<0.5	0.05	0.16				
Indeno(1,2,3-c,d)pyrene	µg/g		0.02	0.06	0.45	0.29	0.08	0.2	<0.2	0.02	0.09				
Dibenzo(a,h)anthracene	µg/g		0.02	<0.02	0.08	0.07	<0.02	0.2	<0.2	0.02	0.02				
Benzo(g,h,i)perylene	µg/g		0.05	0.14	1.08	0.50	0.18	0.5	<0.5	0.05	0.13				
Quinoline	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.5	<0.5	0.05	<0.05				
EPH C10-C19	µg/g		20	<20	20	27	<20	100	<100	100	<100				
EPH C19-C32	µg/g		20	66	297	303	192	100	390	100	390				
LEPH C10-C19	µg/g		20	<20	<20	27	<20	100	<100	100	<100				
HEPH C19-C32	µg/g		20	66	295	300	192	100	390	100	389				
Surrogate	Unit		Acceptable Limits												
Naphthalene - d8	%		50-140	120	121	124	121		95.0		117				
Pyrene-d10	%		50-140	105	103	107	105		116		102				
P-Terphenyl - d14	%		50-140	124	110	115	132		111		110				

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

SAMPLING SITE:

ATTENTION TO: Alex Drover

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: 13-S-0.7		14-S-0.7		15-S-0.5		X-S-1		X-S-2		18-S-0.3		20-S-0.2		
				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
DATE SAMPLED:				2021-05-27 10:00	2021-05-27 10:05	2021-05-27 10:10	2021-05-27 10:15	2021-05-27 09:10			2021-05-27 09:25	2021-05-26 14:20						
				2522509	2522510	2522511	2522512	2522513	RDL		2522514	2522515						
Naphthalene	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.02		
2-Methylnaphthalene	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	<0.01	0.01	<0.01	0.02	<0.01	0.02		
1-Methylnaphthalene	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	<0.01	0.01	<0.01	0.02	<0.01	0.02		
Acenaphthylene	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	0.02	0.01	0.02	0.01	0.02	0.01		
Acenaphthene	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01		
Fluorene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02		
Phenanthrene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.09	0.02	0.09	0.03	0.09	0.03		
Anthracene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.05	0.02	0.05	<0.02	0.05	<0.02		
Fluoranthene	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.05	0.12	0.05	0.12	<0.05	0.12	<0.05		
Pyrene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.10	0.02	0.10	0.04	0.10	0.04		
Benzo(a)anthracene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.06	0.02	0.06	0.02	0.06	0.02		
Chrysene	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.05	0.07	0.05	0.07	<0.05	0.07	<0.05		
Benzo(b)fluoranthene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.08	0.02	0.08	0.07	0.08	0.07		
Benzo(j)fluoranthene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.03	0.02	0.03	0.02	0.03	0.02		
Benzo(k)fluoranthene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.04	0.02	0.04	0.03	0.04	0.03		
Benzo(b+j)fluoranthene	µg/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.11	0.03	0.11	0.09	0.11	0.09		
Benzo(a)pyrene	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.05	0.06	0.05	0.06	<0.05	0.06	<0.05		
Indeno(1,2,3-c,d)pyrene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.05	0.02	0.05	0.04	0.05	0.04		
Dibenzo(a,h)anthracene	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02		
Benzo(g,h,i)perylene	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.05	0.08	0.05	0.08	0.05	0.08	0.05		
Quinoline	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05		
EPH C10-C19	µg/g		100	<100	<100	<100	<100	<100	<100	20	<20	20	<20	<20	<20	<20		
EPH C19-C32	µg/g		100	360	370	790	510	280	20	83	51	20	83	51	20	83		
LEPH C10-C19	µg/g		100	<100	<100	<100	<100	<100	20	<20	<20	20	<20	<20	<20	<20		
HEPH C19-C32	µg/g		100	360	370	790	510	280	20	83	51	20	83	51	20	83		
Surrogate	Unit	Acceptable Limits																
Naphthalene - d8	%	50-140		86.4	92.8	88.5	89.6	86.5			114	125						
Pyrene-d10	%	50-140		112	108	115	111	109			102	108						
P-Terphenyl - d14	%	50-140		101	114	110	88.8	106			121	127						

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

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SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	21-S-0.5	22-S-0.7	23-S-0.7	24-S-0.7	26-S-0.2	27-S-0.2	28-S-0.3	29-S-0.5
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26	2021-05-26
				14:00	13:50	13:45	13:35	11:45	11:05	11:00	10:50	10:50
				2522516	2522517	2522518	2522519	2522520	2522521	2522522	2522523	2522523
Naphthalene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.08	<0.01	0.01
2-Methylnaphthalene	µg/g		0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.10	<0.01	<0.01
1-Methylnaphthalene	µg/g		0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.02
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.06
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	0.06
Phenanthrene	µg/g		0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	0.52	0.03	0.97
Anthracene	µg/g		0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.11	0.02	0.23
Fluoranthene	µg/g		0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.61	<0.05	1.81
Pyrene	µg/g		0.02	0.05	0.03	0.02	<0.02	<0.02	0.03	0.46	0.04	2.00
Benzo(a)anthracene	µg/g		0.02	0.04	<0.02	<0.02	<0.02	<0.02	0.02	0.27	0.03	0.90
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	0.06	0.97
Benzo(b)fluoranthene	µg/g		0.02	0.03	<0.02	<0.02	<0.02	<0.02	0.04	0.25	0.04	1.14
Benzo(j)fluoranthene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.11	0.02	0.35
Benzo(k)fluoranthene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.16	0.03	1.22
Benzo(b+j)fluoranthene	µg/g		0.03	0.03	<0.03	<0.03	<0.03	<0.03	0.06	0.36	0.06	1.49
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27	0.05	1.07
Indeno(1,2,3-c,d)pyrene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	0.15	0.03	0.61
Dibenzo(a,h)anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	0.13
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	0.05	0.92
Quinoline	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EPH C10-C19	µg/g		20	<20	<20	<20	<20	<20	<20	22	<20	<20
EPH C19-C32	µg/g		20	46	49	46	48	23	137	36	134	134
LEPH C10-C19	µg/g		20	<20	<20	<20	<20	<20	<20	21	<20	<20
HEPH C19-C32	µg/g		20	46	49	46	48	23	135	36	127	127
Surrogate	Unit	Acceptable Limits										
Naphthalene - d8	%	50-140		119	91.6	89.0	92.8	87.0	78.5	91.0	92.7	92.7
Pyrene-d10	%	50-140		106	83.4	94.2	85.2	89.7	72.2	82.3	87.9	87.9
P-Terphenyl - d14	%	50-140		125	103	101	106	97.4	80.3	102	84.7	84.7

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

SAMPLING SITE:

ATTENTION TO: Alex Drover

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Certified By:

Certificate of Analysis

AGAT WORK ORDER: 21V752805

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:	30-S-0.7	31-S-0.5	32-S-0.5	33-S-0.3
				SAMPLE TYPE:	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2021-05-26	2021-05-26	2021-05-26	2021-05-26
					10:40	10:30	08:00	07:50
					2522524	2522525	2522526	2522527
Naphthalene	µg/g		0.01	0.03	0.01	0.01	<0.01	<0.01
2-Methylnaphthalene	µg/g		0.01	0.02	<0.01	<0.01	<0.01	<0.01
1-Methylnaphthalene	µg/g		0.01	0.02	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/g		0.01	0.19	<0.01	0.02	<0.01	<0.01
Fluorene	µg/g		0.02	0.17	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g		0.02	1.72	0.11	0.29	<0.02	<0.02
Anthracene	µg/g		0.02	0.58	0.04	0.08	<0.02	<0.02
Fluoranthene	µg/g		0.05	1.66	0.23	0.54	<0.05	<0.05
Pyrene	µg/g		0.02	1.53	0.26	0.60	0.03	0.03
Benzo(a)anthracene	µg/g		0.02	0.83	0.11	0.26	<0.02	<0.02
Chrysene	µg/g		0.05	0.80	0.12	0.28	<0.05	<0.05
Benzo(b)fluoranthene	µg/g		0.02	0.57	0.11	0.24	<0.02	<0.02
Benzo(j)fluoranthene	µg/g		0.02	0.28	0.06	0.11	<0.02	<0.02
Benzo(k)fluoranthene	µg/g		0.02	0.38	0.07	0.15	<0.02	<0.02
Benzo(b+j)fluoranthene	µg/g		0.03	0.85	0.17	0.35	<0.03	<0.03
Benzo(a)pyrene	µg/g		0.05	0.86	0.15	0.35	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g		0.02	0.44	0.08	0.19	<0.02	<0.02
Dibenzo(a,h)anthracene	µg/g		0.02	0.11	0.02	0.04	<0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.05	0.64	0.12	0.31	<0.05	<0.05
Quinoline	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EPH C10-C19	µg/g		20	<20	<20	<20	<20	<20
EPH C19-C32	µg/g		20	111	62	93	39	39
LEPH C10-C19	µg/g		20	<20	<20	<20	<20	<20
HEPH C19-C32	µg/g		20	106	61	91	39	39
Surrogate	Unit		Acceptable Limits					
Naphthalene - d8	%		50-140	90.9	87.8	88.0	92.4	92.4
Pyrene-d10	%		50-140	74.5	85.8	83.2	83.0	83.0
P-Terphenyl - d14	%		50-140	75.1	97.1	88.7	101	101

Certified By:





Certificate of Analysis

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PROJECT: 00481-02

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CLIENT NAME: CORE6 ENVIRONMENTAL LTD

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

LEPH/HEPH PAHs in Soil (µg/g)

DATE RECEIVED: 2021-05-27

DATE REPORTED: 2021-06-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

2522416-2522499 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.
Soil sample is visibly heterogeneous.

2522500-2522502 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.
Soil sample is visibly heterogeneous.
Reduction of EPH/PAH analytical volume was necessary due to the nature of the sample. Detection limits increased.

2522503-2522506 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.
Soil sample is visibly heterogeneous.

2522507-2522513 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.
Soil sample is visibly heterogeneous.
Reduction of EPH/PAH analytical volume was necessary due to the nature of the sample. Detection limits increased.

2522514-2522527 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.
Soil sample is visibly heterogeneous.

Analysis performed at AGAT Vancouver (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
AGAT WORK ORDER: 21V752805
PROJECT: 00481-02
ATTENTION TO: Alex Drover
SAMPLING SITE:
SAMPLED BY:

Soil Analysis															
RPT Date: Jun 04, 2021			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

CSR Omnibus Metals in Soil

Aluminum	2507366		17500	16600	5.3%	< 10	91%	70%	130%	101%	85%	115%
Antimony	2507366		0.2	0.2	NA	< 0.1	101%	70%	130%	101%	85%	115%
Arsenic	2507366		3.5	3.0	17.3%	< 0.1	104%	70%	130%	87%	85%	115%
Barium	2507366		68.6	66.4	3.3%	< 0.5	97%	70%	130%	90%	85%	115%
Beryllium	2507366		0.2	0.2	NA	< 0.1	84%	70%	130%	96%	85%	115%
Bismuth	2507366		<0.5	<0.5	NA	< 0.5				90%	85%	115%
Boron	2507366		1.1	1.0	NA	< 0.5				100%	85%	115%
Cadmium	2507366		0.19	0.17	7.5%	< 0.01	102%	70%	130%	98%	85%	115%
Chromium	2507366		26	26	0.5%	< 1	97%	70%	130%	105%	85%	115%
Cobalt	2507366		8.7	8.7	0.1%	< 0.1	96%	70%	130%	111%	85%	115%
Copper	2507366		19.4	19.9	2.3%	< 0.2	94%	70%	130%	104%	85%	115%
Iron	2507366		20700	20500	1.0%	< 10	86%	70%	130%	90%	85%	115%
Lead	2507366		3.0	2.9	1.8%	< 0.1	95%	70%	130%	106%	85%	115%
Lithium	2507366		7.4	7.3	2.5%	< 0.5	NA			93%	85%	115%
Manganese	2507366		357	348	2.6%	< 1	104%	70%	130%	95%	85%	115%
Mercury	2507366		0.02	0.02	NA	< 0.01	111%	70%	130%	92%	85%	115%
Molybdenum	2507366		0.4	0.4	NA	< 0.2	88%	70%	130%	94%	85%	115%
Nickel	2507366		23.7	24.7	4.1%	< 0.5	93%	70%	130%	103%	85%	115%
Selenium	2507366		0.2	0.2	NA	< 0.1				104%	85%	115%
Silver	2507366		<0.5	<0.5	NA	< 0.5	99%	70%	130%	101%	85%	115%
Strontium	2507366		36	32	12.1%	< 1	83%	70%	130%	86%	85%	115%
Thallium	2507366		<0.1	<0.1	NA	< 0.1	88%	70%	130%	95%	85%	115%
Tin	2507366		0.4	0.3	NA	< 0.2	97%	70%	130%	91%	85%	115%
Tungsten	2507366		0.09	0.09	NA	< 0.05	83%	70%	130%	87%	85%	115%
Uranium	2507366		0.3	0.3	NA	< 0.2	86%	70%	130%	97%	85%	110%
Vanadium	2507366		51	53	3.9%	< 1	97%	70%	130%	106%	85%	115%
Zinc	2507366		41	42	1.7%	< 1	95%	70%	130%	108%	85%	115%
Zirconium	2507366		4.3	4.1	4.8%	< 0.1				88%	85%	115%
pH 1:2	2507366		6.47	6.41	0.9%		100%	90%	110%	100%	95%	105%

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

Soluble Sodium and Chloride in Soil

Chloride, Soluble	2522416	Ref.	5560	5320	4.5%	< 2	97%	80%	120%	86%	85%	115%
Sodium, Soluble	2522416	Ref.	2650	2640	0.7%	< 2	94%	80%	120%	102%	85%	115%
Saturation Percentage	2522416	Ref.	43.1	43.1	0.0%	< 0.5	100%	80%	120%			

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

CSR Omnibus Metals in Soil

Aluminum	2548971		8010	8340	4.0%	< 10	86%	70%	130%	89%	85%	115%
Antimony	2548971		0.5	0.5	7.6%	< 0.1	103%	70%	130%	104%	85%	115%

AGAT QUALITY ASSURANCE REPORT (V1)

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AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

Quality Assurance

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
AGAT WORK ORDER: 21V752805
PROJECT: 00481-02
ATTENTION TO: Alex Drover
SAMPLING SITE:
SAMPLED BY:

Soil Analysis (Continued)

RPT Date: Jun 04, 2021			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Arsenic	2548971		3.4	1.4	82.5%	< 0.1	82%	70%	130%	109%	85%	115%			
Barium	2548971		53.2	44.3	18.2%	< 0.5	95%	70%	130%	99%	85%	115%			
Beryllium	2548971		<0.1	<0.1	NA	< 0.1	90%	70%	130%	105%	85%	115%			
Bismuth	2548971		<0.5	<0.5	NA	< 0.5				98%	85%	115%			
Boron	2548971		1.9	1.4	NA	< 0.5				95%	85%	115%			
Cadmium	2548971		0.14	0.15	3.6%	< 0.01	114%	70%	130%	103%	85%	115%			
Chromium	2548971		20	15	25.3%	< 1	98%	70%	130%	112%	85%	115%			
Cobalt	2548971		4.5	4.3	5.4%	< 0.1	82%	70%	130%	101%	85%	115%			
Copper	2548971		38.2	31.3	19.7%	< 0.2	90%	70%	130%	112%	85%	115%			
Iron	2548971		13600	14600	7.1%	< 10	90%	70%	130%	104%	85%	115%			
Lead	2548971		11.9	11.4	4.4%	< 0.1	96%	70%	130%	110%	85%	115%			
Lithium	2548971		4.6	4.0	14.8%	< 0.5	NA			97%	85%	115%			
Manganese	2548971		414	380	8.6%	< 1	101%	70%	130%	97%	85%	115%			
Mercury	2548971		0.87	0.69	24.3%	< 0.01	110%	70%	130%	103%	85%	115%			
Molybdenum	2548971		2.8	2.0	31.4%	< 0.2	79%	70%	130%	113%	85%	115%			
Nickel	2548971		10.7	9.3	13.5%	< 0.5	90%	70%	130%	110%	85%	115%			
Selenium	2548971		0.2	0.3	NA	< 0.1	NA			114%	85%	115%			
Silver	2548971		<0.5	<0.5	NA	< 0.5	104%	70%	130%	106%	85%	115%			
Strontium	2548971		47	43	10.5%	< 1	79%	70%	130%	98%	85%	115%			
Thallium	2548971		<0.1	<0.1	NA	< 0.1	95%	70%	130%	106%	85%	115%			
Tin	2548971		0.9	0.8	NA	< 0.2	91%	70%	130%	96%	85%	115%			
Tungsten	2548971		0.68	0.55	21.4%	< 0.05	94%	70%	130%	99%	85%	115%			
Uranium	2548971		0.5	0.4	NA	< 0.2	87%	70%	130%	107%	85%	110%			
Vanadium	2548971		39	39	1.2%	< 1	98%	70%	130%	112%	85%	115%			
Zinc	2548971		59	60	1.9%	< 1	91%	70%	130%	102%	85%	115%			
Zirconium	2548971		1.4	1.9	30.2%	< 0.1				95%	85%	115%			
pH 1:2	2548971		6.42	6.44	0.3%		101%	90%	110%	100%	95%	105%			

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.
Sample used for duplicate was visibly heterogeneous.

CSR Omnibus Metals in Soil

Aluminum	2542400		15300	15900	3.5%	< 10	88%	70%	130%	101%	85%	115%		
Antimony	2542400		0.2	0.2	NA	< 0.1	102%	70%	130%	97%	85%	115%		
Arsenic	2542400		3.5	4.0	12.1%	< 0.1	89%	70%	130%	101%	85%	115%		
Barium	2542400		65.6	74.2	12.2%	< 0.5	101%	70%	130%	94%	85%	115%		
Beryllium	2542400		0.2	0.2	NA	< 0.1	94%	70%	130%	96%	85%	115%		
Bismuth	2542400		<0.5	<0.5	NA	< 0.5				113%	85%	115%		
Boron	2542400		0.6	0.7	NA	< 0.5				93%	85%	115%		
Cadmium	2542400		0.13	0.14	8.1%	< 0.01	121%	70%	130%	103%	85%	115%		
Chromium	2542400		25	25	3.2%	< 1	98%	70%	130%	97%	85%	115%		

Quality Assurance

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
 PROJECT: 00481-02
 SAMPLING SITE:

AGAT WORK ORDER: 21V752805
 ATTENTION TO: Alex Drover
 SAMPLED BY:

Soil Analysis (Continued)															
RPT Date: Jun 04, 2021			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Cobalt	2542400		7.6	7.7	1.4%	< 0.1	88%	70%	130%	94%	85%	115%			
Copper	2542400		20.9	22.4	7.1%	< 0.2	93%	70%	130%	97%	85%	115%			
Iron	2542400		19200	18700	2.6%	< 10	83%	70%	130%	92%	85%	115%			
Lead	2542400		4.9	4.6	7.0%	< 0.1	97%	70%	130%	99%	85%	115%			
Lithium	2542400		7.2	8.0	10.9%	< 0.5				102%	85%	115%			
Manganese	2542400		325	338	3.8%	< 1	100%	70%	130%	95%	85%	115%			
Mercury	2542400		0.03	0.02	NA	< 0.01	111%	70%	130%	111%	85%	115%			
Molybdenum	2542400		0.3	0.3	NA	< 0.2	86%	70%	130%	90%	85%	115%			
Nickel	2542400		19.1	18.8	1.7%	< 0.5	91%	70%	130%	96%	85%	115%			
Selenium	2542400		0.3	0.2	NA	< 0.1				95%	85%	115%			
Silver	2542400		<0.5	<0.5	NA	< 0.5	118%	70%	130%	105%	85%	115%			
Strontium	2542400		35	36	4.6%	< 1	86%	70%	130%	94%	85%	115%			
Thallium	2542400		<0.1	<0.1	NA	< 0.1	95%	70%	130%	99%	85%	115%			
Tin	2542400		0.3	0.3	NA	< 0.2	106%	70%	130%	114%	85%	115%			
Tungsten	2542400		0.12	0.12	NA	< 0.05	87%	70%	130%	100%	85%	115%			
Uranium	2542400		0.4	0.4	NA	< 0.2	96%	70%	130%	98%	85%	110%			
Vanadium	2542400		58	56	3.4%	< 1	99%	70%	130%	98%	85%	115%			
Zinc	2542400		40	43	5.6%	< 1	91%	70%	130%	97%	85%	115%			
Zirconium	2542400		2.4	2.6	7.5%	< 0.1				90%	85%	115%			

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

Soluble Sodium and Chloride in Soil

Chloride, Soluble	2522517	Ref.	5320	5690	6.6%	< 2	93%	80%	120%	102%	85%	115%		
Sodium, Soluble	2522517	Ref.	2630	2610	0.7%	< 2	93%	80%	120%	102%	85%	115%		
Saturation Percentage	2522517	Ref.	43.4	43.0	0.9%	< 0.5	101%	80%	120%					

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

Certified By:



Quality Assurance

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
AGAT WORK ORDER: 21V752805
PROJECT: 00481-02
ATTENTION TO: Alex Drover
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis															
RPT Date: Jun 04, 2021			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

LEPH/HEPH PAHs in Soil (µg/g)

Naphthalene	75199	2522498	<0.01	<0.01	NA	< 0.01	101%	80%	120%	103%	50%	140%	107%	50%	140%
2-Methylnaphthalene	75199	2522498	<0.01	<0.01	NA	< 0.01	96%	80%	120%	78%	50%	140%	83%	50%	140%
1-Methylnaphthalene	75199	2522498	<0.01	<0.01	NA	< 0.01	96%	80%	120%	108%	50%	140%	112%	50%	140%
Acenaphthylene	75199	2522498	<0.01	<0.01	NA	< 0.01	97%	80%	120%	95%	50%	140%	103%	50%	140%
Acenaphthene	75199	2522498	<0.01	<0.01	NA	< 0.01	100%	80%	120%	112%	50%	140%	114%	50%	140%
Fluorene	75199	2522498	<0.02	<0.02	NA	< 0.02	97%	80%	120%	90%	50%	140%	95%	50%	140%
Phenanthrene	75199	2522498	<0.02	<0.02	NA	< 0.02	97%	80%	120%	86%	50%	140%	89%	50%	140%
Anthracene	75199	2522498	<0.02	<0.02	NA	< 0.02	104%	80%	120%	117%	50%	140%	119%	50%	140%
Fluoranthene	75199	2522498	<0.05	<0.05	NA	< 0.05	100%	80%	120%	105%	50%	140%	108%	50%	140%
Pyrene	75199	2522498	<0.02	<0.02	NA	< 0.02	97%	80%	120%	117%	50%	140%	108%	50%	140%
Benzo(a)anthracene	75199	2522498	<0.02	<0.02	NA	< 0.02	98%	80%	120%	91%	50%	140%	98%	50%	140%
Chrysene	75199	2522498	<0.05	<0.05	NA	< 0.05	100%	80%	120%	116%	50%	140%	116%	50%	140%
Benzo(b)fluoranthene	75199	2522498	<0.02	<0.02	NA	< 0.02	93%	80%	120%	89%	50%	140%	97%	50%	140%
Benzo(j)fluoranthene	75199	2522498	<0.02	<0.02	NA	< 0.02	102%	80%	120%	108%	50%	140%	108%	50%	140%
Benzo(k)fluoranthene	75199	2522498	<0.02	<0.02	NA	< 0.02	100%	80%	120%	93%	50%	140%	99%	50%	140%
Benzo(a)pyrene	75199	2522498	<0.05	<0.05	NA	< 0.05	99%	80%	120%	106%	50%	140%	99%	50%	140%
Indeno(1,2,3-c,d)pyrene	75199	2522498	<0.02	<0.02	NA	< 0.02	99%	80%	120%	103%	50%	140%	108%	50%	140%
Dibenzo(a,h)anthracene	75199	2522498	<0.02	<0.02	NA	< 0.02	98%	80%	120%	98%	50%	140%	108%	50%	140%
Benzo(g,h,i)perylene	75199	2522498	<0.05	<0.05	NA	< 0.05	99%	80%	120%	114%	50%	140%	102%	50%	140%
Quinoline	75199	2522498	<0.05	<0.05	NA	< 0.05	96%	80%	120%	118%	50%	140%	110%	50%	140%
Naphthalene - d8	75199	2522498	118	119	1.3%		103%	80%	120%	129%	50%	140%	101%	50%	140%
Pyrene-d10	75199	2522498	111	113	2.3%		98%	80%	120%	120%	50%	140%	122%	50%	140%
P-Terphenyl - d14	75199	2522498	107	110	2.9%		102%	80%	120%	113%	50%	140%	117%	50%	140%
EPH C10-C19	75199	2522498	<20	<20	NA	< 20	100%	70%	130%	110%	70%	130%	98%	60%	140%
EPH C19-C32	75199	2522498	<20	<20	NA	< 20	103%	70%	130%	124%	70%	130%	109%	60%	140%

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.

LEPH/HEPH PAHs in Soil (µg/g)

Naphthalene	75200	2522523	0.01	0.01	NA	< 0.01	101%	80%	120%	120%	50%	140%	92%	50%	140%
2-Methylnaphthalene	75200	2522523	<0.01	<0.01	NA	< 0.01	95%	80%	120%	67%	50%	140%	64%	50%	140%
1-Methylnaphthalene	75200	2522523	<0.01	0.01	NA	< 0.01	103%	80%	120%	95%	50%	140%	79%	50%	140%
Acenaphthylene	75200	2522523	0.02	0.01	NA	< 0.01	98%	80%	120%	80%	50%	140%	73%	50%	140%
Acenaphthene	75200	2522523	0.06	0.03	NA	< 0.01	99%	80%	120%	100%	50%	140%	52%	50%	140%
Fluorene	75200	2522523	0.06	0.03	NA	< 0.02	97%	80%	120%	80%	50%	140%	54%	50%	140%
Phenanthrene	75200	2522523	0.97	0.51	63.2%	< 0.02	99%	80%	120%	80%	50%	140%	NA	50%	140%
Anthracene	75200	2522523	0.23	0.15	42.0%	< 0.02	99%	80%	120%	99%	50%	140%	NA	50%	140%
Fluoranthene	75200	2522523	1.81	1.01	56.5%	< 0.05	101%	80%	120%	93%	50%	140%	NA	50%	140%
Pyrene	75200	2522523	2.00	1.13	55.4%	< 0.02	106%	80%	120%	99%	50%	140%	NA	50%	140%
Benzo(a)anthracene	75200	2522523	0.90	0.45	66.7%	< 0.02	97%	80%	120%	76%	50%	140%	NA	50%	140%

Quality Assurance

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
 PROJECT: 00481-02
 SAMPLING SITE:

AGAT WORK ORDER: 21V752805
 ATTENTION TO: Alex Drover
 SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 04, 2021			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Chrysene	75200	2522523	0.97	0.52	60.9%	< 0.05	99%	80%	120%	101%	50%	140%	NA	50%	140%	
Benzo(b)fluoranthene	75200	2522523	1.14	0.40	95.4%	< 0.02	98%	80%	120%	67%	50%	140%	NA	50%	140%	
Benzo(j)fluoranthene	75200	2522523	0.35	0.20	53.7%	< 0.02	103%	80%	120%	102%	50%	140%	NA	50%	140%	
Benzo(k)fluoranthene	75200	2522523	1.22	0.26	130.3%	< 0.02	100%	80%	120%	86%	50%	140%	NA	50%	140%	
Benzo(a)pyrene	75200	2522523	1.07	0.61	54.7%	< 0.05	100%	80%	120%	95%	50%	140%	NA	50%	140%	
Indeno(1,2,3-c,d)pyrene	75200	2522523	0.61	0.32	62.7%	< 0.02	101%	80%	120%	95%	50%	140%	NA	50%	140%	
Dibenzo(a,h)anthracene	75200	2522523	0.13	0.07	61.4%	< 0.02	100%	80%	120%	90%	50%	140%	NA	50%	140%	
Benzo(g,h,i)perylene	75200	2522523	0.92	0.50	59.3%	< 0.05	103%	80%	120%	111%	50%	140%	NA	50%	140%	
Quinoline	75200	2522523	<0.05	<0.05	NA	< 0.05	95%	80%	120%	128%	50%	140%	108%	50%	140%	
Naphthalene - d8	75200	2522523	92.7	107	14.3%		97%	80%	120%	107%	50%	140%	96%	50%	140%	
Pyrene-d10	75200	2522523	87.9	103	15.6%		97%	80%	120%	106%	50%	140%	91%	50%	140%	
P-Terphenyl - d14	75200	2522523	84.7	106	22.5%		102%	80%	120%	101%	50%	140%	103%	50%	140%	
EPH C10-C19	75200	2522523	<20	<20	NA	< 20	100%	70%	130%	108%	70%	130%	87%	60%	140%	
EPH C19-C32	75200	2522523	134	118	12.7%	< 20	103%	70%	130%	117%	70%	130%	106%	60%	140%	

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.
 Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.
 Duplicate not within acceptance limits. Sample visibly non-homogeneous.

Certified By: _____



Method Summary

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
AGAT WORK ORDER: 21V752805
PROJECT: 00481-02
ATTENTION TO: Alex Drover
SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Aluminum	MET-181-6106, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP/OES
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Bismuth	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP/MS
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Iron	MET-181-6106, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP/OES
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Lithium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Manganese	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Mercury	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Strontium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tungsten	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS

Method Summary

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
AGAT WORK ORDER: 21V752805
PROJECT: 00481-02
ATTENTION TO: Alex Drover
SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Zirconium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual B (pH, Electrometric, Soil)	PH METER
Chloride, Soluble	LAB-181-4022, INOR-181-6023	BC MOE Lab Manual Section B	COLORIMETER
Sodium, Soluble	LAB-181-4022, MET-181-6106	BC MOE Lab Manual Section B	ICP/OES
Saturation Percentage	LAB-181-4022	BC MOE Lab Manual Section B	GRAVIMETRIC

Method Summary

CLIENT NAME: CORE6 ENVIRONMENTAL LTD
AGAT WORK ORDER: 21V752805
PROJECT: 00481-02
ATTENTION TO: Alex Drover
SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(j)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b+j)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Quinoline	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Naphthalene - d8	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene-d10	ORG-180-5102	Modified from BCMOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
EPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
EPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID

Method Summary

CLIENT NAME: CORE6 ENVIRONMENTAL LTD

AGAT WORK ORDER: 21V752805

PROJECT: 00481-02

ATTENTION TO: Alex Drover

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
P: 778.452.4000 - F: 778.452.4074

Laboratory Use Only

Arrival Temperature: 15
AGAT Job Number: 21V752805
Notes: MAY 27 PM 1:26

Chain of Custody Record

Report Information

Company: Coreb Environmental
Contact: Alex Drover
Address: 1166 Alberni St
Phone: 236 788 5667 Fax: _____
AGAT Quote #: _____
Client Project #: 00481-02

Report Information

1. Name: Alex Drover
Email: adrover@coreb.ca
2. Name: _____
Email: _____

Report Format

- Single
 Sample per Page
Multiple
 Samples per Page
 Excel Format Included

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
Rush TAT Same Business Day - 2009
 1 Business Day - 100%
 2 Business Days - 50%
 3 Business Days - 25%
- Date Required: _____

PLEASE CONTACT LABORATORY IF RUSH REQUIRED!
SUBMISSION CUT OFF FOR EFFECTIVE DATE BY 3

Invoice To Same as above Yes / No

Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/A/E#: _____

Requirements (Please Check)

BC CSR Soil BC CSR - Water
 AL DW
 IL AW
 PL IW
 CL LW
 RL-LD RL-HD
 WL-N WL-R

Schedule 3.3 (Please Specify) _____
CCME (Please Specify) _____
Other (Please Specify) _____

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	Metals	Sodium and Chloride	Sat. Paste	LEACH/HEAT/PAH	NUMBER OF CONTAINERS
2522498	1-S-0.3	S	2021-05-27 8:15		X	X	X		2
2522499	2-S-0.2		8:20		X	X	X		2
2522500	3-S-0.5		9:20		X	X	X		
2522501	4-S-1.2		9:25		X	X	X		
	5-S-0.5		9:05		X	X	X		
	6-S-1.2		9:10		X	X	X		
	7-S-0.5		8:40		X	X	X		
	8-S-0.2		8:45		X	X	X		
	9-S-0.5		9:00		X	X	X		
	10-S-0.3		9:35		X	X	X		
	11-S-0.5		9:55		X	X	X		

Samples Relinquished By (Print Name and Sign): <u>Alex Drover</u>	Date/Time: <u>2021-05-27 13:10</u>	Samples Received By (Print Name and Sign): <u>[Signature]</u>	Date/Time:	Page <u>1</u> of <u>3</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	No: <u>045501</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	

Westkey Graphics Ltd. 403-253-9029

DROVER/AV/11



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
P: 778.452.4000 • F: 778.452.4074

Laboratory Use Only

Arrival Temperature: _____
AGAT Job Number: _____

Notes: _____

Chain of Custody Record

Report Information

Company: Coreb Environmental
 Contact: Alex Drover
 Address: 1166 Alberni St
 Phone: 236 788 5667 Fax: _____
 AGAT Quote #: _____
 Client Project #: 00481-02

Report Information

1. Name: Alex Drover
 Email: adrover@coreb.ca
 2. Name: _____
 Email: _____

Report Format

Single
 Sample per Page
 Multiple
 Samples per Page
 Excel Format Included

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
 Rush TAT Same Business Day - 2009
 1 Business Day - 100%
 2 Business Days - 50%
 3 Business Days - 25%

Date Required: _____

PLEASE CONTACT LABORATORY IF RUSH REQUIRED
 SUBMISSION CUT OFF FOR EFFECTIVE DATE BY 3

Invoice To Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE#: _____

Requirements (Please Check)

BC CSR Soil BC CSR - Water
 AL DW
 IL AW
 PL IW
 CL LW
 RL-LD RL-HD
 WL-N WL-R

Schedule 3.3 (Please Specify) _____
 CCME (Please Specify) _____
 Other (Please Specify) _____

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	NUMBER OF CONTAINERS
2522509	12-S-0.5	S	2011-05-27 10:00	Mixes Sodium and Nitrate Sat Paste LEPA/HEPA/PAT	2
	13-S-0.7		10:05		
	14-S-0.7		10:10		
	15-S-0.5		10:15		
	X-S-1		9:10		
	X-S-2		9:25		
	18-S-0.3		2011-05-26 14:20		
	20-S-0.2		14:00		
	21-S-0.5		13:50		
	22-S-0.7		13:45		
	23-S-0.7		13:35		

Samples Requisitioned By (Print Name and Sign): Alex Drover AD Date/Time: 2011-05-27 13:10

Samples Received By (Print Name and Sign): _____ Date/Time: _____

Samples Requisitioned By (Print Name and Sign): _____ Date/Time: _____

Samples Received By (Print Name and Sign): _____ Date/Time: _____

Page 2 of 3
 No: 045501

Wesley Graphics Ltd. 403-253-9029



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
P: 778.452.4000 - F: 778.452.4074

Laboratory Use Only

Arrival Temperature: _____
AGAT Job Number: _____

Notes: _____

Chain of Custody Record

Report Information

Company: Core6 Environmental
 Contact: Alex Drover
 Address: 1166 Aldern St
 Phone: 236 788 5667 Fax: _____
 AGAT Quote #: _____
 Client Project #: 00181-02

Report Information

1. Name: Alex Drover
 Email: adrover@core6.ca
 2. Name: _____
 Email: _____

Report Format

Single
 Sample per Page
 Multiple
 Samples per Page
 Excel Format Included

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
 Rush TAT Same Business Day - 200%
 1 Business Day - 100%
 2 Business Days - 50%
 3 Business Days - 25%

Date Required: _____

PLEASE CONTACT LABORATORY IF RUSH REQUIRED!
 SUBMISSION CUT OFF FOR EFFECTIVE DATE BY 5

Invoice To Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE#: _____

Requirements (Please Check)

BC CSR Soil BC CSR - Water
 AL DW
 IL AW
 PL IW
 CL LW
 RL-LD RL-HD
 WL-N WL-R

Schedule 3.3 (Please Specify) _____
 CCME (Please Specify) _____
 Other (Please Specify) _____

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	M/Labs	NUMBER OF CONTAINERS
2522520	24-S-0.7	S	2021-05-26 11:45		X	2
	26-S-0.2		11:05		X	
	27-S-0.2		11:00		X	
	28-S-0.3		10:50		X	
	29-S-0.5		10:40		X	
	30-S-0.7		10:30		X	
	31-S-0.5		8:00		X	
	32-S-0.5		7:50		X	
2522528	33-S-0.3		7:40		X	

M/Labs Sodium and Chloride Set Risk LEPI/HEPI/PAH

Samples Requisitioned By (Print Name and Sign): <u>Alex Drover</u>	Date/Time: <u>2021-05-27 13:10</u>	Samples Received By (Print Name and Sign): <u>Muy</u>	Date/Time: _____	Page <u>3</u> of _____
Samples Requisitioned By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: _____	
Samples Requisitioned By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: _____	

No: 04550

Wesley Graphics Ltd. 403-253-9029

RECEIVED 2/2/21



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY Work Order # _____

RECEIVING BASICS:

Received From: Core 6 Waybill #: _____

SAMPLE QUANTITIES:

Coolers: 1 Containers: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: _____ ALREADY EXCEEDED? Yes No

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's) *use jars when available

(1) 15 + 15 + 15 = 15 °C (2) _____ + _____ = _____ °C (3) _____ + _____ = _____ °C (4) _____ + _____ = _____ °C

Was ice or ice pack present: Yes No

Integrity Issues:

Account Project Manager: _____

_____ have they been notified of the above issues: Yes No

Whom spoken to: _____

Date and Time: _____

ADDITIONAL NOTES:

