

**THE COLLECTION OF LANDFILL
MONITORING DATA AT THE FORMER
PIN-4 DISTANT EARLY WARNING LINE SITE**

Byron Bay, Nunavut

Final report - 2015
(O/Ref.: CD3654) (Y/Ref.: DLC MON (KITIK 13))

DEFENCE CONSTRUCTION CANADA

March 2016



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Presented to:

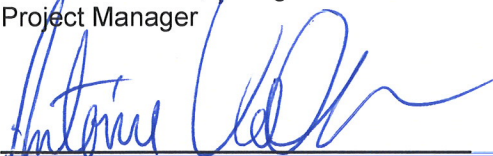
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Written by:



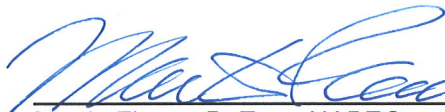
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2016 03-30

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1 OUTLINE

1.1 OBJECTIVE AND SCOPE OF WORK

The objective of the Defence Construction Canada (DCC) Landfill Monitoring Program is to collect sufficient information to assess the performance of landfills at former Distant Early Warning (DEW) Line Sites that have been remediated, from a geotechnical and environmental perspective. DCC has specified the requirements for the Landfill Monitoring Program in the document entitled “*Terms of Reference – Contracting Services for the Collection of Landfill Monitoring Data – PIN-2 Cape Young, PIN-4 Byron Bay, CAM-1 Jenny Lind Island - DEW LINE SITES, NUNAVUT, KITIKMEOT REGION, DCC PROJECT #: DLC MON(KITIK13), April 18, 2013*”. This report contains a summary of the findings from the 2015 inspection of the PIN-4 Byron Bay site.

During the 2015 monitoring program, a visual inspection was completed at all site landfills identified on the overall site plan (Figure PIN-4.1), in addition to soil and groundwater sampling, and thermal monitoring completed at the Tier II Disposal Facility. Table I summarizes the monitoring requirements of the 2015 season. No deviations from the TOR were experienced while completing the 2015 monitoring.

Table I: 2015 Monitoring Requirements for PIN-4 Landfills

Landfill	Visual Inspection	Soil Sampling	Groundwater Sampling	Thermal Monitoring
Northwest Landfill	✓	✓		
North Landfill	✓	✓		
Non-Hazardous Waste Landfill	✓	✓	✓	
Station Area Landfill – West	✓	✓		
USAF Landfill	✓	✓		
Tier II Disposal Facility	✓	✓	✓	✓
Airstrip Landfill	✓	✓		

1.2 FIELD PROGRAM STAFF AND TIMING

The 2015 on-site field program at PIN-4 Byron Bay took place on August 17, 2015. Englobe Corp. (Englobe) subcontracted Sila Remediation Inc. (Sila), from Igloolik, Nunavut to perform the fieldwork. The Sila field program was executed by Mr. Andrew Passalis with the assistance of three local representatives, whose names and responsibilities are detailed below:

- Mr. Andrew Passalis, Project Engineer (Sila)
- John Henry Etegak, Field Technician (Sila)
- Kaylene Epsilon, Field Technician (Sila)
- Gordon Anayoak, Field Technician (Sila)
- Susie Koaha, Camp Attendant (Sila)
- Joe Koaha, Wildlife Monitor (Sila)

1.3 2015 WEATHER CONDITIONS

Seasonally warm weather conditions were observed during the PIN-4 Byron Bay monitoring event with daytime temperatures ranging between 5-9°C.

1.4 REPORT FORMAT

This report describes the work carried out in August 2015, at the seven landfill sites at PIN-4 Byron Bay. Results from soil and groundwater sampling, thermal monitoring, and visual inspection of the sites are also presented in the formats described in the TOR (Reference A). An electronic version of the report and its associated tables, figures, and data files are included in an Addendum DVD-ROM, which is appended to this report.

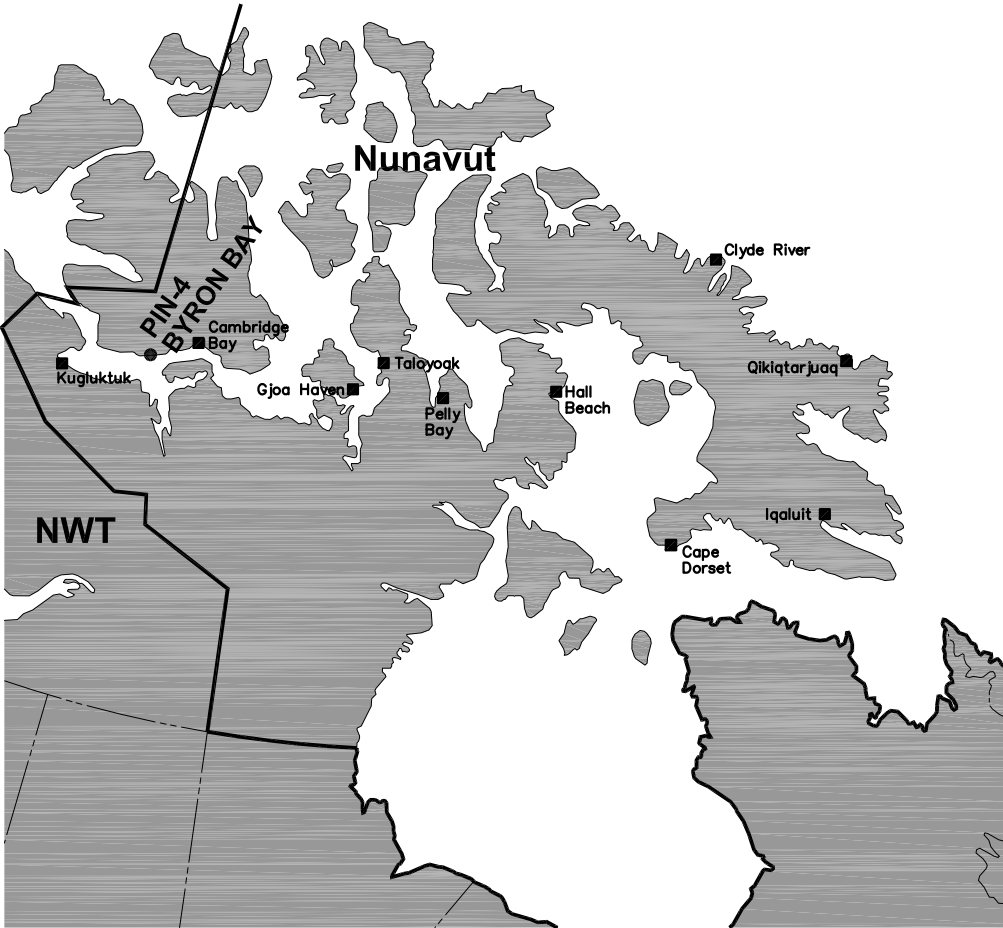
The report is organized with a separate section for each of the landfill areas. Each section contains all relevant information for that landfill area, for the 2015 Landfill Monitoring Program. The following information is provided in each landfill section:

- Visual inspection checklist
- Visual inspection drawing mark-up
- A selection of visual inspection photos
- Thermal monitoring inspection reports (where applicable)
- Summary of 2015 soil analytical data

- Summary of 2015 groundwater analytical data
- Monitoring well development/sampling reports (where applicable)

An overall site plan (Figure PIN-4.1) presents an overview of the former PIN-4 site with the localization of each landfill areas. For the photographic record, a photographic index has been completed as per the TOR for each of the landfill areas. The full resolution photos are included in electronic format in the Addendum DVD-ROM attached to this report. Certificates of Analyses, Quality Assurance/Quality Control (QA/QC) analytical results and field notes are attached in the Annexes.

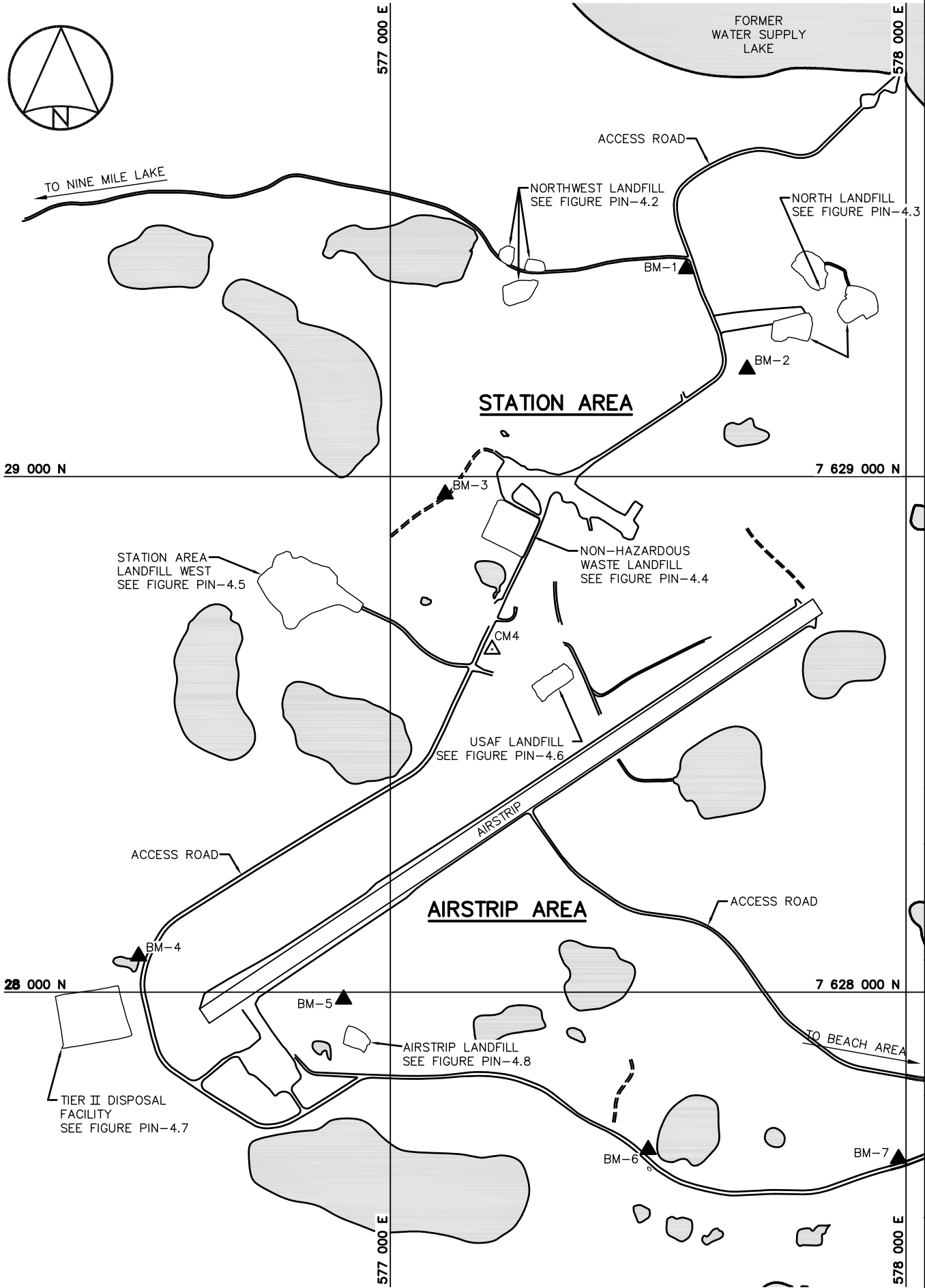
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LOCATION OF BYRON BAY WITHIN NUNAVUT TERRITORY
SCALE: NTS

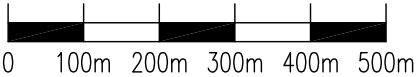
SURVEY CONTROL MONUMENTS				
NO.	UTM COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
CM4	7 628 665.138	577 197.194	106.968	GEODETIC MONUMENT 649020

PERMANENT BENCHMARK (AS-BUILT)				
NO.	UTM COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM-1	7 629 402.938	577 573.748	105.711	25mm DIA. STEEL PIPE
BM-2	7 629 208.381	577 691.650	106.895	25mm DIA. STEEL PIPE
BM-3	7 628 966.171	577 106.215	102.610	25mm DIA. STEEL PIPE
BM-4	7 628 070.119	576 511.803	90.608	25mm DIA. STEEL PIPE
BM-5	7 627 986.564	576 909.188	87.778	25mm DIA. STEEL PIPE
BM-6	7 627 694.789	577 499.858	88.479	25mm DIA. STEEL PIPE
BM-7	7 627 677.411	577 985.417	88.710	25mm DIA. STEEL PIPE



LEGEND

- CM4 SURVEY CONTROL MONUMENT
- BM-1 PERMANENT BENCHMARK LOCATION
- BODY OF WATER



1	FINAL	16-03-15	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



COLLECTION OF
LANDFILL MONITORING DATA
PIN-4, BYRON BAY, NUNAVUT

OVERALL SITE PLAN



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MEASUREMENT UNIT Metre	SCALE: 1 : 10,000	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARÉ	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4A-PL	PAGE PL

FIGURE PIN-4.1

2 METHODOLOGY

2.1 VISUAL INSPECTION

Data and information collected during the visual inspection of the PIN-4 landfills are included in the visual inspection data sheets. These data sheets include inspection data such as the location of settlement, erosion, frost action, sloughing and cracking, animal burrows, vegetation cover and stress, staining, seepage points, exposed debris, and any other features of note.

Each feature was identified with an alphabetical or numerical tag to be used consistently each year in an effort to track changes in conditions for each specific feature.

Digital photos were taken to illustrate the current state of the landfills as well as features of interest. Annotated sketches/diagrams are included in the report for each landfill.

The photos were taken with a Sony DSC-TX5 10.2 megapixel (MP) digital camera. Full resolution digital jpg copies are available on the DVD-ROM appended to this report. The photo log, including the local coordinates from where the photo was taken, orientation (relative to map north), features of note, and picture numbers are included with each landfill report.

2.2 SOIL SAMPLING

The soil sampling methodology conformed to guidance provided in the following Canadian Council of Ministers of the Environment (CCME) documents:

- CCME Guidance Document on the *Management of Contaminated Sites in Canada*, April 1997, CCME PN 1279. (CCME catalogue - http://www.ccme.ca/pdfs/cat_eng.pdf).
- CCME EPC-NCS62E Guidance Manual on *Sampling, Analysis, and Data Management for Contaminated Sites* - Volume I: Main Report, Dec 1993 (CCME catalogue - http://www.ccme.ca/pdfs/cat_eng.pdf).
- CCME EPC-NCS66E Guidance Manual on *Sampling, Analysis, and Data Management for Contaminated Sites* - Volume II: Analytical Method Summaries, Dec. 1993 (CCME catalogue - http://www.ccme.ca/pdfs/cat_eng.pdf).
- Reference method for the *Determination of Petroleum Hydrocarbons in Soil - Tier I Method*, 2001.
- CCME *Subsurface Assessment Handbook for Contaminated Sites*, March 1994, EPC-NCSRP-48E (CCME catalogue - http://www.ccme.ca/pdfs/cat_eng.pdf).

Specific methodologies used for the collection of soil samples during the August 2015 landfill monitoring program are summarized in Englobe's Draft Standard Operating Procedures (SOPs), developed for the Kitik12 (DLCMON 50503) and Kitik13 (DLCMON 53649) contracts, dated August 17, 2015. These included:

- Soil sample locations were identified through the use of GPS and field observation of existing monitoring wells and/or sample tags left from previous monitoring events. For soil sampling near monitoring wells, samples were collected from undisturbed ground located between 2 to 4 m from the monitoring well. At each monitoring location, discrete soil samples were collected from two depths, 0.00 to 0.15 m, and 0.40 to 0.50 m. If the specified depth was not reached, the sample was collected near the zone of refusal. Testpits were dug using a hand shovel down to the prescribed sample depth or refusal, where encountered.
- Soil samples were collected as grab samples from the specified intervals and placed directly into clean laboratory supplied 125 mL glass containers with minimum headspace. Disposable nitrile gloves were used during the sample handling and were changed between each sample collection. Jars/bottles were cleaned prior to placement into the cooler. For the 2015 monitoring event, 32 soil sampling stations were visited. Bedrock, frozen ground or frost was not encountered at any of the soil stations during the August 2015 sampling, except for a shallow refusal encountered on fractured bedrock (20 cm) at P4-6, located at the North Landfill. Several attempts were made in the immediate area, all with shallow refusal less than 20 cm.
- Non-disposable sampling utensils and tools utilized during soil sample collection were cleaned between each sampling episode and rinsed with commercially available isopropyl alcohol and laboratory supplied distilled water.
- The location of soil samples were recorded using a surveyor's chain (from the center of the monitoring well) or using a GPS and photographed. Once sampling was completed, all the test pits were backfilled using the soil previously excavated.
- Quality assurance and quality control samples were collected for a minimum of 10 % of the sample population. This included seven blind field duplicate; seven field inter-laboratory duplicate and seven field duplicate to be sent to the owner's representative (ESG OPS CENTRE) in Kingston for archiving as specified by DCC. Duplicate samples were collected from a single sample location depth interval. Samples were prepared by homogenizing (thoroughly mixing) approximately 2.5 kg of soil in a clean stainless steel bowl followed by placement into the appropriate respective sample containers.

The soil samples were analyzed for requested parameters (TPH [F1-F4], total metals (As, Cd, Cr, Co, Cu, Pb, Ni, Zn and Hg) and PCBs) as specified by DCC.

Table II below summarizes the soil sampling at PIN-4 during the August 2015 field program:

Table II: Summary of Soil Sampling at PIN-4 - August 2015

Landfill Site	Soil Sample Locations				
Northwest Landfill	P4-1	P4-2	P4-3	P4-4	P4-5
North Landfill	P4-6	P4-7	P4-8	P4-9	P4-10
	P4-11	P4-12			
Non-Hazardous Waste Landfill	MW-5	MW-6	MW-7	MW-8	
Station Area Landfill - West	P4-13	P4-14	P4-15	P4-16	P4-17
USAF Landfill	P4-18	P4-19	P4-20	P4-21	
Tier II Disposal Facility	MW-1	MW-2	MW-3	MW-4	
Airstrip Landfill	P4-22	P4-23	P4-24		

2.3 GROUNDWATER SAMPLING

The groundwater sampling methodology conformed to guidance provided in the following CCME documents:

- CCME EPC-NCS62E Guidance Manual on *Sampling, Analysis and Data Management for Contaminated Sites* - Volume I: Main Report, Dec 1993 (CCME catalogue - http://www.ccme.ca/pdfs/cat_eng.pdf).
- CCME EPC-NCS66E Guidance Manual on *Sampling, Analysis and Data Management for Contaminated Sites* - Volume II: Analytical Method Summaries, Dec. 1993 (CCME catalogue - http://www.ccme.ca/pdfs/cat_eng.pdf).

Specific methodologies used for the measurement of water level and free product, and for the collection of groundwater samples during the August 2015 landfill monitoring program are summarized in Englobe's Draft SOPs developed for the Kitik12 (DLCMON 50503) and Kitik13 (DLCMON 53649) contracts, dated August 17, 2015. These included:

- Free product and water level monitoring were completed using a Heron Model H.01L Interface Probe. Depths were recorded from the calibrated wire attached to the probe, using the top of the well casing as the reference datum. The end of the probe was lowered into the well, and programmed to emit a continuous audible signal when in contact with LNAPL, and an intermittent one when in contact with water. Depth and height of water column were measured and recorded in a field book, and if LNAPL was detected, thickness was be measured and recorded in a field book. The probe was then removed from the well and decontaminated between each well to reduce cross contamination. Decontamination included rinsing with Alconox soap and water, followed by an isopropyl alcohol rinse and finally rinsed with de-ionized organic free water (supplied by the laboratory).

- In addition to using an interface probe, any visual and/or olfactory evidence of free product was noted during monitoring and well purging activities (if present). Results of the free product monitoring and well purging observations are included in the Monitoring Well Sampling Logs. Monitoring during well purging was completed using a Spectra Field Pro peristaltic pump, equipped with a multi-parameter meter, flow cell, silicon head tubing and LDPE intake and outflow tubing. All tubing materials were replaced after use at each monitoring well. The multi-parameter meter was calibrated prior to the field program and checked daily with parameter specific calibration standards. There was no deviation in standard readings during 2015 field program.
- Purging at each monitoring well location was completed using the following procedures:
 - Install new silicon head tubing on the peristaltic pump;
 - Connect decontaminated field parameter monitoring equipment to the decontaminated flow cell;
 - Using new nitrile gloves and new LDPE tubing, install the intake tubing to the approximate midpoint of the last known water level (if available) and the bottom of the well;
 - Purge the groundwater at a low flow rate of approximately 100 millilitres per minute (mL/min);
 - Continue purging until the field parameters stabilized for three consecutive readings spaced at three to five minute intervals and/or purging of a minimum of one well volume (stabilization was determined by temperature and conductivity readings within +/- 3% and pH readings within +/- 0.1 pH units).
- Groundwater sampling was undertaken at the completion of the purging and consisted of the following:
 - After stabilization of the field parameters, the intake tubing to the flow cell was disconnected;
 - A new pair of nitrile gloves was adorned and water samples collected for each COC in the appropriate laboratory supplied containers, filling the inorganic containers first, followed by PCBs and lastly PHCs, and ensuring that the tubing did not contact any of the sample containers;
 - Collection of all sample containers in a single sampling event. The samples were not acidified and were not filtered.
- All full sample containers were placed in a cooler, with ice packs, for transportation to the receiving lab.
- A field blank was prepared using laboratory supplied travel blank water and pumping this water with the peristaltic pump using the same procedures established for groundwater sampling.

The 2015 field program included sampling monitoring wells at the Non-Hazardous Waste Landfill and Tier II Disposal Facility. Groundwater samples were collected at all monitoring well locations with the exception of MW-5 at the NHWLF which was dry at the time of monitoring. A summary of the groundwater sampling undertaken at PIN-4 is summarized in Table III.

In all monitoring wells, no evidence of free-phase hydrocarbon product were detected. Results of the free product monitoring and well purging observations are included in Monitoring Well Development and Sampling Record forms, which are included in appropriate sections in this report.

Table III: Summary of Groundwater Sampling at PIN-4 - August 2015

Landfill Site	Groundwater Sample Locations			
Tier II Disposal Facility	MW-1	MW-2	MW-3	MW-4
Non-Hazardous Waste Landfill	MW-5 (dry)	MW-6	MW-7	MW-8

2.4 THERMAL MONITORING

The 2015 thermal monitoring program at PIN-4 consisted of an inspection of four thermistors and data loggers, the downloading of datasets and the manual reading of thermistors at all datalogger locations. Specific detailed information regarding temperature data is contained in the Tier II Disposal Facility section of this report.

2.5 FIELD NOTES

Field notes from the 2015 Landfill Monitoring program, including soil and water sampling, are included in Annex 3 for reference. Notes were written in field books, previously prepared logs or entered directly into a field computer. The notes were scanned to an Adobe PDF document for future reference and backup. Locations of all observations and features for the visual inspection were recorded using a Garmin Oregon 400 hand held GPS, which included a combination of continuous tracks and discrete way points. Data sets collected from the individual vertical thermistors were downloaded directly to a field lab top computer.

2.6 QUALITY CONTROL

It should be noted that, although samples were sent to Exova and Maxxam laboratories, only Exova's bottles/jars were used.

Sila implemented standard sample collection techniques to decrease the likelihood of compromising collected samples. The methods used for sample collection are summarized in Sections 2.2 and 2.3 of this report. The following measures were taken to minimize sample cross-contamination:

- All samples were placed directly into the appropriate laboratory-supplied containers (for the particular analysis).

- Soil samples were collected with the use of decontaminated sampling equipment and/or nitrile gloves that were used only once.
- Water samples were collected through the use of dedicated tubing.

Chain-of-Custody (COC) forms were prepared prior to mobilisation to the site and completed by the Project Engineer after sample collection. The samples were refrigerated prior to off-site shipment, in chilled coolers, by First Air Cargo directly to Maxxam (via Yellowknife) and Exova in Edmonton and ESG, via Ottawa to Kingston, Ontario (via Edmonton), where they were checked in by laboratory representatives. All analyses were completed as specified on COC forms.

Annex 1 provides a sample integrity report from Exova. This report indicates that all samples received were acceptable for analysis, except for two broken vials

2.7 QA/QC PROCEDURES

Sila used standard QA/QC procedures as specified in the TOR and CCME Guidance Documents for this project. The following is a summary of the analytical QA/QC samples collected:

- 10% field Blind Duplicate Samples of soil and water were sent to Exova. Results can be found in Annex 1.
- 10% Inter-laboratory Duplicate Samples were sent to Maxxam (to determine if variation in procedures may cause significant difference in analytical results).
- 10% Archival Samples of soil were sent to ESG.

Exova has QA/QC measures for sample analysis. Exova QC samples will typically be introduced into the analytical stream on a batch basis, normally comprising 20% – 30% of the total sample throughput. A batch size of 15 – 20 typically includes one of each control standard, reference standard, surrogate spike, duplicate sample, and method blank. A control sample is a blank matrix fortified with the analyte of interest and carried through all analytical steps to monitor lab performance (recovery & basis) on clean matrix. A reference sample is a sample with predetermined certified characteristics that undergoes the same processing as samples used to evaluate accuracy of procedure. A surrogate spike is an organic compound with similar chemical composition and behaviour in the analytical process used to monitor recovery in each sample. A duplicate sample occurs when client samples are analyzed in duplicate to monitor reproducibility in analysis and preparation. Finally, a method blank is a blank sample matrix carried through the same procedure as the samples, and is used to monitor for process contamination.

Maxxam follows similar in-house QA/QC procedures. Exova and Maxxam QA/QC reports can be found within the certificates of analysis in Annex 1.

2.8 PROJECT REFERENCES

The following references are specifically relevant to the 2015 Landfill Monitoring activities:

- A. Invitation to Tender - *Contractor Services for the Collection of Landfill Monitoring Data: PIN-2 Cape Young, PIN-4 Byron Bay, CAM-1 Jenny Lind Island - DEW LINE SITES, NUNAVUT, KITIKMEOT REGION, DCC PROJECT #: DLC MON(KITIK13),*
- B. Terms of Reference – *Contracting Services for the Collection of Landfill Monitoring Data – PIN-2 Cape Young, PIN-4 Byron Bay, CAM-1 Jenny Lind Island - DEW LINE SITES, NUNAVUT, KITIKMEOT REGION, DCC PROJECT #: DLC MON (KITIK13), April 18, 2013.*
- C. Technical Proposal – *The Collection of Landfill Monitoring Data for the DEW Line Sites: PIN-2 Cape Young, PIN-4 Byron Bay, CAM-1 Jenny Lind Island - DEW LINE SITES, NUNAVUT, KITIKMEOT REGION, DCC PROJECT #: DLC MON (KITIK13), April 18, 2013. Project Ref 6121-150, May 2013.*
- D. *Meeting Minutes - June 16, 2015*
- E. *Post-Field Progress Report, PIN-4 Landfill Monitoring 2015, September 2015.*

3 NORTHWEST LANDFILL

3.1 SUMMARY

On August 17, 2015 a visual inspection was completed at the Northwest Landfill. Soil sampling was completed at five stations located upgradient and downgradient of the landfill.

No TPH, PCB or relatively high metal concentrations were detected in any of the soil samples collected with the exception of zinc which had a slightly elevated concentration of 30 mg/kg in the surface sample collected at station P4-3, located downgradient of Lobe B.

As of 2015, no features with “significant” or “unacceptable” severity ratings were identified in the Preliminary Stability Assessment of the Northwest Landfill. Indications of minor settlement were noted at two locations, including two minor depressions on the northwest side of Lobe B (Feature A). Two pot-hole type depressions were also noted on the north side of Lobe D (Feature B). These features were consistent with observations noted during the previous 2014 assessment. One isolated area of erosion was noted along the north side of Lobe B (Feature C). The erosion extended along the toe of the lobe. The area was not in direct contact with the landfill and appears to be the result of directed runoff and washing of fines along the toe. This feature (Feature C) was also consistent with previous observations during the 2014 assessment. No exposed debris is present at the lobes. There was a notable increase in vegetation growth on the cover and side slope of the landfill from previous observations in 2014.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table IV of this report and has been completed as per the TOR. Please refer to Figure PIN-4.2 for a sketch of the Northwest Landfill detailing the location of photographs, settlement and erosional features.

Table IV: Visual Inspection Checklist / Report – Northwest Landfill

**DEW LINE CLEANUP: POST-CONSTRUCTION – LANDFILL MONITORING
VISUAL INSPECTION CHECKLIST**

INSPECTION REPORT – PAGE 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: Northwest Landfill (Regrade Landfill)
DATE OF INSPECTION: August 17, 2015
DATE OF PREVIOUS INSPECTION: August 25, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT NUMBER: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE IV : NORTHWEST LANDFILL VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	Yes	FEATURE A See Figure PIN-4.2 (Lobe B - NW side)	0.15 - 0.4 m	0.15 m	0.02 - 0.05 m	Isolated	2 minor depressions	NWLF-11, 12	Acceptable	Minor depressions. No notable change from 2014 assessment.
		FEATURE B See Figure PIN-4.2 (Lobe D - N side)	0.3 m	0.3 m	0.05 m	Isolated	2 pothole type depressions	NWLF-28, 29	Acceptable	Minor depressions. No significant change from 2014 assessment.
Erosion	Yes	FEATURE C See Figure PIN-4.2 (Lobe B - N side)	30 m	0.1 m	0.01 - 0.02 m	Isolated	Minor erosion along toe	NWLF-13, 14	Acceptable	Self armouring. Not in direct contact with landfill. No change from 2014 assessment.
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	Yes	See Figure PIN-4.2 Lobe B (SW cover and side) Lobe C (W and Cental cover), Lobe D (E, W, S sides)	Varies	Varies	N/A	N/A	Moderate coverage on side slopes, sparse on cover areas)	NWLF-3, 4, 6-8, 16-19, 25, 26, 30-33	N/A	Notable increase in coverage from 2014 assessment.
Staining	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Other Features of Note:	No	Tension Crack Lobe D (N crest)	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	Tension crack previously noted in 2013. Not visible during 2014 or 2015 assessment.
Additional Photos	Yes	See Figure PIN-4.2 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation, no additional features of note.

3.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for Northwest Landfill has been completed as per the TOR and is included as Table V hereafter.

Table V: Preliminary Stability Assessment – Northwest Landfill

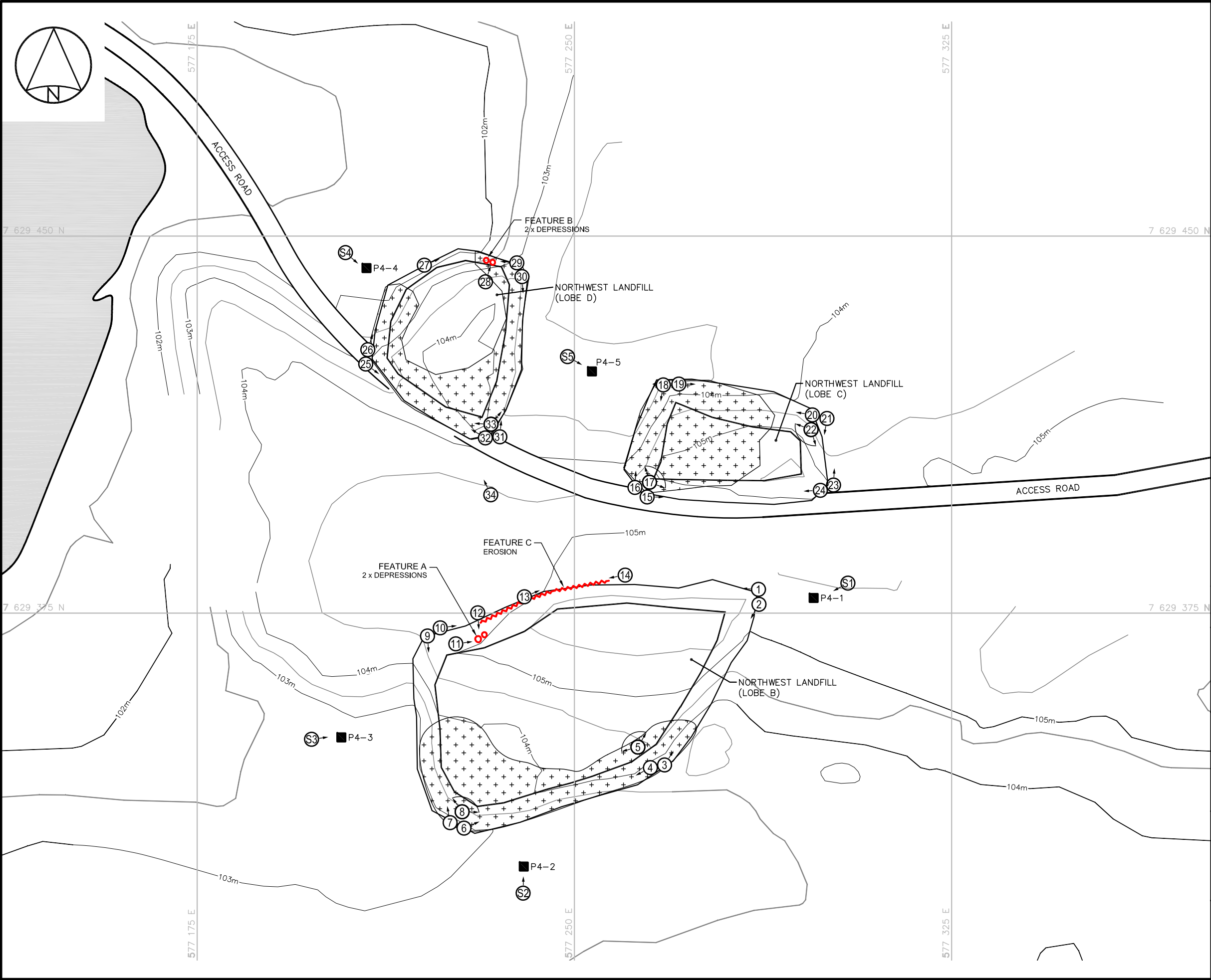
Feature	Severity Rating	Extent
Settlement	Acceptable	Isolated
Erosion	Acceptable	Isolated
Frost Action	Not observed	None
Staining	Not observed	None
Vegetation Stress	Not observed	None
Seepage/Ponded Water	Not observed	None
Debris exposure	Not observed	None
Overall Landfill Performance	Acceptable	

Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Debris exposed in erosion channels or areas of differential settlement. Liner exposed. Slope failure.
Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50% of the surface area of the landfill

3.3 LOCATION PLAN

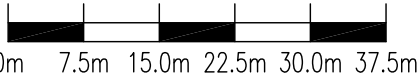
The Location Plan for the Northwest Landfill has been completed as per the ToR and is presented in Figure PIN-4.2.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- BODY OF WATER
- SPARSE VEGETATION
- SETTLEMENT
- EROSION
- APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-15	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



COLLECTION OF
LANDFILL MONITORING DATA
PIN-4, BYRON BAY, NUNAVUT
NORTHWEST LANDFILL



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Quebec (Quebec) Canada, G1P 2J7
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MEASUREMENT UNIT Metre	SCALE: 1 : 750	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARÉ	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4B-PL	PAGE PL

FIGURE PIN-4.2

3.4 PHOTOGRAPHIC RECORDS

The Photographic Record for the Northwest Landfill has been completed as per the TOR and is included as Table VI hereafter. Full-sized photographs are contained in the Addendum DVD-ROM.

Table VI: Landfill Visual Inspection Photo Log – Northwest Landfill

Photo (NWLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
LOBE B						
1	P415_7578	4 421	15-08-17	577286	7629379	View looking west along north side of Lobe B
2	P415_7579	4 443	15-08-17	577286	7629377	View looking southwest along east side of Lobe B
3	P415_7580	4 376	15-08-17	577267	7629344	View looking northeast along east side of Lobe B
4	P415_7581	4 444	15-08-17	577266	7629344	View looking west along south side of Lobe B
5	P415_7582	1 344	15-08-17	577263	7629348	Panoramic view looking southwest to northeast across Lobe B
6	P415_7583	4 380	15-08-17	577228	7629333	View looking northeast along south side of Lobe B
7	P415_7584	4 349	15-08-17	577226	7629334	View looking north along west side of Lobe B
8	P415_7585	1 453	15-08-17	577227	7629336	Panoramic view looking northwest to east across Lobe B
9	P415_7588	4 440	15-08-17	577221	7629371	View looking south along west side of Lobe B
10	P415_7589	4 429	15-08-17	577223	7629372	View looking east along north side of Lobe B
11	P415_7590	4 309	15-08-17	577227	7629368	View looking east at two minor depressions on northwest cover of Lobe B - FEATURE A
12	P415_7591	4 328	15-08-17	577231	7629374	View looking south at two minor depressions on northwest cover of Lobe - FEATURE A
13	P415_7592	4 312	15-08-17	577240	7629378	View looking east-northeast at minor erosion along toe on north side of Lobe B - FEATURE C
14	P415_7593	4 404	15-08-17	577260	7629382	View looking west at minor erosion along toe on north side of Lobe B - FEATURE C
LOBE C						
15	P415_7566	4 263	15-08-17	577265	7629399	View looking east along south side of Lobe C
16	P415_7567	4 392	15-08-17	577263	7629400	View looking north along west side of Lobe C
17	P415_7568	1 337	15-08-17	577265	7629401	Panoramic view looking northwest to east from southwest corner of Lobe C
18	P415_7569	4 327	15-08-17	577268	7629420	View looking south along west side of Lobe C
19	P415_7570	4 351	15-08-17	577270	7629420	View looking east along north side of Lobe C
20	P415_7571	4 262	15-08-17	577298	7629413	View looking west along north side of Lobe C
21	P415_7572	4 263	15-08-17	577300	7629413	View looking south along east side of Lobe C
22	P415_7573	1 430	15-08-17	577298	7629412	Panoramic view looking southeast to west from northeast corner of Lobe C
23	P415_7574	4 377	15-08-17	577301	7629400	View looking north along east side of Lobe C
24	P415_7575	4 343	15-08-17	577299	7629400	View looking west along south side of Lobe C

Table VI: Landfill Visual Inspection Photo Log – Northwest Landfill (page 2 of 2)

Photo (NWLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
LOBE D						
25	P415_7552	4 397	15-08-17	577209	7629425	View looking southeast along south side of Lobe D
26	P415_7553	4 413	15-08-17	577210	7629426	View looking north along west side of Lobe D
27	P415_7554	4 380	15-08-17	577221	7629444	View looking northeast along northwest toe of Lobe D
28	P415_7555	4 426	15-08-17	577233	7629442	View looking north at two pothole depressions below northeast crest - FEATURE B
29	P415_7556	4 353	15-08-17	577238	7629445	View looking west at two pothole depressions below northeast crest - FEATURE B
30	P415_7558	4 343	15-08-17	577239	7629441	View looking south along west side of Lobe D
31	P415_7562	4 268	15-08-17	577235	7629411	View looking north along east side of Lobe D
32	P415_7563	4 334	15-08-17	577233	7629410	View looking northwest along south side of Lobe D
33	P415_7564	1 526	15-08-17	577233	7629412	Panoramic view looking west to northeast from southwest corner of Lobe D
34	P415_7565	4 324	15-08-17	577233	7629399	View looking northwest at Lobe D
Soil Sampling						
P4-1	P415_7596	4 415	15-08-17	577298	7629378	Sample location P415-1A/B located upgradient of Lobe B
S1	P415_7597	4 258	15-08-17	577303	7629380	View looking southwest at sample location P415-1A/B
P4-2	P415_7594	4 455	15-08-17	577240	7629324	Sample location P415-2A/B located downgradient of Lobe B
S2	P415_7595	4 366	15-08-17	577240	7629320	View looking north at sample location P415-2A/B
P4-3	P415_7586	4 391	15-08-17	577204	7629350	Sample location P415-3A/B located downgradient of Lobe B
S3	P415_7587	4 430	15-08-17	577198	7629350	View looking east at sample location P415-3A/B
P4-4	P415_7560	4 320	15-08-17	577208	7629444	Sample location P415-4A/B located downgradient of Lobe D
S4	P415_7561	4 394	15-08-17	577205	7629446	View looking southeast at sample location P415-4A/B
P4-5	P415_7576	4 313	15-08-17	577254	7629423	Sample location P415-5A/B located downgradient of Lobe C
S5	P415_7577	4 391	15-08-17	577249	7629425	View looking southeast at sample location P415-5A/B

3.5 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 Northwest Landfill samples are presented in Table VII hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table VII: Northwest Landfill Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters										F1	F2	F3
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]	C ₆ -C ₁₀ [mg/kg]	C ₁₀ -C ₁₆ [mg/kg]	C ₁₆ -C ₃ [mg/kg]
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40
Upgradient Soil Samples															
P415-1A	P4-1	0-15	3.6	0.04	11.6	3.4	5.6	12.4	7.5	7	0.01	<0.05	<10	<40	<40
P415-1B		40-50	3.5	0.04	11.8	2.9	5.2	11.7	7.9	7	<0.01	<0.05	<10	<40	<40
Downgradient Soil Samples															
P415-2A	P4-2	0-15	3.2	0.04	15.0	5.8	9.4	7.2	13.4	13	0.01	<0.05	<10	<40	<40
P415-2B		40-50	3.6	0.02	16.2	6.5	11.6	5.2	14.5	17	<0.01	<0.05	<10	<40	<40
P415-3A	P4-3	0-15	3.5	0.12	9.9	2.9	8.1	8.1	7.5	30	0.03	<0.05	<10	<40	<40
P415-3B		40-50	4.2	0.06	12.7	3.3	7.5	8.7	10.0	10	0.01	<0.05	<10	<40	<40
P415-4A	P4-4	0-15	4.1	0.02	13.3	3.3	9.2	14.5	9.0	3	<0.01	<0.05	<10	<40	<40
P415-BD3 (Intra-Lab Blind Duplicate)		0-15	3.5	0.02	12.9	3.3	9.8	14.6	8.9	4	<0.01	<0.05	<10	<40	<40
P415-4A (Inter-Lab Blind Duplicate)		0-15	3.0	<0.050	16.0	3.3	10	15	9.9	<10	<0.050	<0.01	<10	<50	<50
Average Value for P415-4A Sample		0-15	3.5 ± 0.5	0.02 ± 0.0	14.6 ± 1.7	3.3 ± 0.0	9.7 ± 0.4	14.7 ± 0.3	9.3 ± 0.6	3.5 ± 0.7	--	--	--	--	--
P415-4B		40-50	2.9	0.02	13.4	2.7	9.6	15.2	7.1	3	<0.01	<0.05	<10	<40	<40
P415-5A	P4-5	0-15	4.2	0.03	11.4	4.3	7.8	10.6	9.1	9	0.01	<0.05	<10	<40	<40
P415-5B		40-50	4.2	0.04	10.9	3.8	7.1	10.0	8.4	8	0.01	<0.05	<10	<40	<40

4 NORTH LANDFILL

4.1 SUMMARY

On August 17, a visual inspection was completed at the North Landfill. Soil sampling was completed at seven stations located upgradient and downgradient of the landfill lobes.

No PCB or relatively high metal concentrations were detected in any of the soil samples collected. Detectable concentrations of TPH (PHC F3 Fraction) were noted in the surface sample collected at down gradient locations P4-11 (72 mg/kg) and P4-12 (85 mg/kg).

As of the 2015 monitoring event, no features were identified with “significant” or “unacceptable” severity ratings. Minor settlement was noted at one location on the south side of Lobe A (Feature A). The settlement area extends along the base of the side slope. This feature was consistent with observations made during the previous 2014 assessment. Minor erosion features were observed in seven areas on Lobes A, B and C at the North Landfill, including localized areas on the south cover of Lobe A (Feature B), southeast crest of Lobe B (Feature C), northwest corner of Lobe C (Feature D), northeast cover of Lobe C (Feature E), one new area of erosion on the northeast side of Lobe C (Feature F) and two new areas of erosion on the east and west sides of Lobe B (Features G and H). Surface runoff in each area has resulted in the washing and re-deposition of finer grained materials. All features appear to be self-armouring. With the exception of the erosion on the northeast side of Lobe C (Feature F), east side of Lobe B (Feature G) and west side of Lobe B (Feature H), all features were noted during the previous 2014 assessment. No significant changes were observed with these existing features with the exception of the feature on the southeast of Lobe B (Feature C) where a notable increase (from 0.15 m in 2014 to 0.5 m in 2015) in width was noted.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table VIII of this report and has been completed as per the TOR. Please refer to Figure PIN-4.3 for a sketch of the North Landfill detailing the location of photographs, settlement and erosional features.

Table VIII: Visual Inspection Checklist - North Landfill
DEW Line Cleanup: Post-construction - Landfill Monitoring
Visual Inspection Checklist
Inspection Report - Page 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: North Landfill (Existing Regrade Landfill)
DATE OF INSPECTION: August 17, 2015
DATE OF PREVIOUS INSPECTION: August 25, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE VIII: NORTH LANDFILL VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	Yes	FEATURE A See Figure PIN-4.3 (Lobe A-S side slope)	5 m	0.3 - 0.5 m	0.1 - 0.2 m	Isolated	Settlement along base of side slope	NLF-8	Acceptable	Suspected settlement at base of Type 1 material. No noteable change from 2014 assessment.
Erosion	Yes	FEATURE B See Figure PIN-4.3 (Lobe A-S cover)	12 m	0.1 m	0.01 - 0.02 m	Isolated	Minor erosion	NLF-13, 14	Acceptable	Washing of fines. Self armouring. No significant change from 2014 assessment.
		FEATURE C See Figure PIN-4.3 (Lobe B-SE crest)	5 - 6 m	0.2 - 0.5 m	0.1 - 0.15 m	Isolated	Minor erosion	NLF-24, 25	Acceptable	Scouring in Type 1 material on crest. Noteable increase in width from 2014 assessment.
		FEATURE D See Figure PIN-4.3 (Lobe C-NW corner)	2 m	0.2 - 0.4 m	0.03 m	Isolated	Minor erosion on side slope	NLF-47, 48	Acceptable	Self armouring. No significant change from 2014 assessment.
		FEATURE E See Figure PIN-4.3 (Lobe C-NE cover)	4 m	0.1 m	0.01 - 0.03 m	Isolated	Minor erosion on cover slope	NLF-42, 43	Acceptable	Self armouring. No change from 2014 assessment.
		FEATURE F See Figure PIN-4.3 (Lobe C-NE side) - <i>New Obs.</i>	4 m	0.1 m	0.01 - 0.03 m	Isolated	Minor erosion on side slope	NLF-40, 41	Acceptable	Self armouring. New observation.
		FEATURE G See Figure PIN-4.3 (Lobe B-E side) - <i>New Obs.</i>	3 m	0.2 - 1.0 m	0.01 - 0.15 m	Isolated	Minor erosion on side slope	NLF-40, 41	Acceptable	Possible ice scour. New observation.
		FEATURE H See Figure PIN-4.3 (Lobe B-W side slope) - <i>New Obs.</i>	3 m	0.3 m	0.05 m	Isolated	Minor erosion on side slope	NLF-28, 29	Acceptable	Self armouring. New observation.
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Staining	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Other Features of Note:	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Additional Photos	Yes	See Figure PIN-4.3 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation, no additional features of note.
Overall Landfill Performance:	Acceptable									

4.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for North Landfill has been completed as per the TOR and is included as Table IX hereafter.

Table IX: Preliminary Stability Assessment – North Landfill

Feature	Severity Rating	Extent
Settlement	Acceptable	Isolated
Erosion	Acceptable	Isolated
Frost Action	Not observed	None
Staining	Not observed	None
Vegetation Stress	Not observed	None
Seepage/Ponded Water	Not observed	None
Debris exposure	Not observed	None
Overall Landfill Performance	Acceptable	

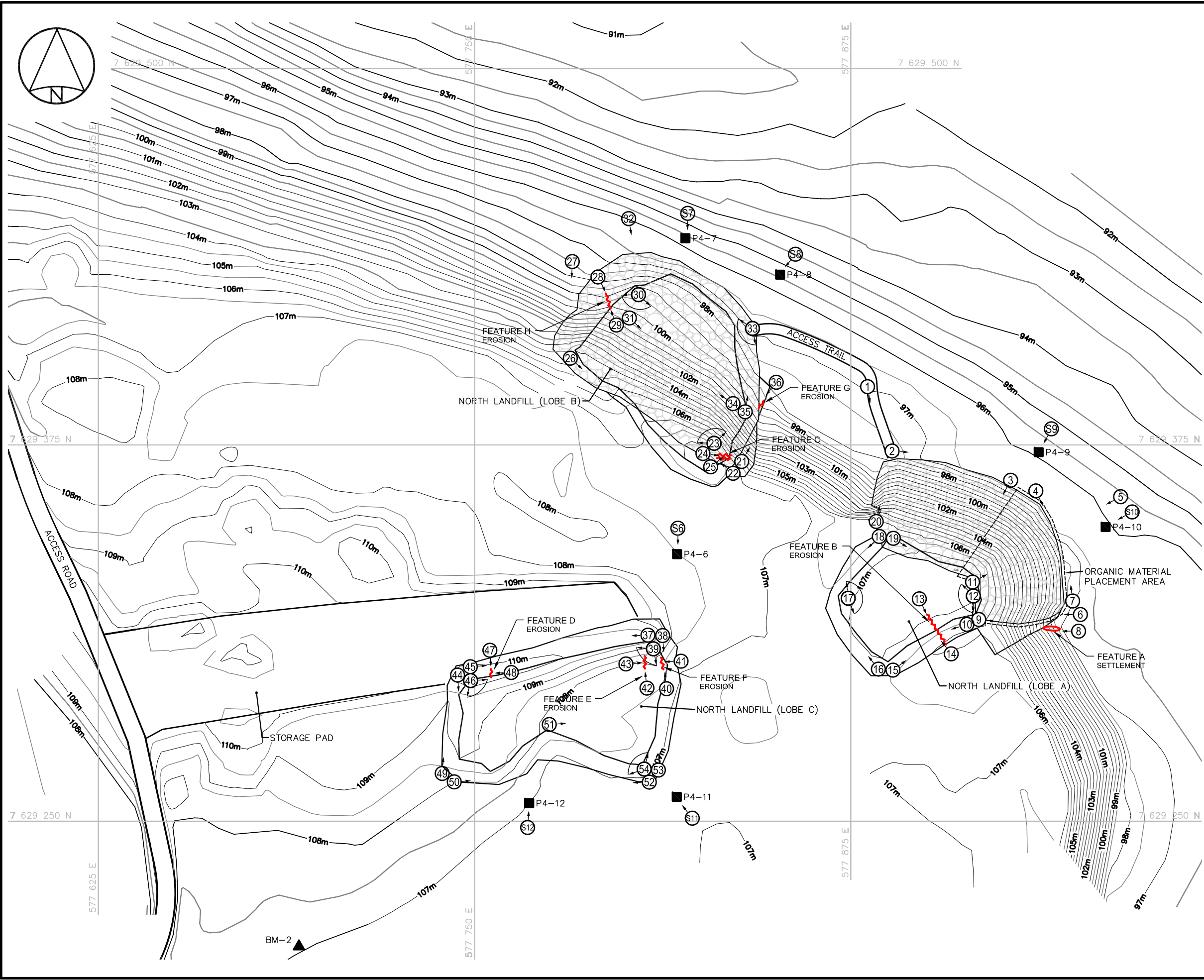
Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> • Debris exposed in erosion channels or areas of differential settlement. • Liner exposed. • Slope failure.

Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50% of the surface area of the landfill

4.3 LOCATION PLAN

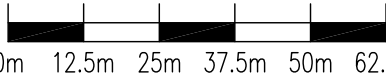
The Location Plan for the North Landfill has been completed as per the TOR and is presented in Figure PIN-4.3.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- BM-2 ▲ PERMANENT BENCHMARK LOCATION
- SETTLEMENT
- ~ EROSION
- ① → APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-15	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



COLLECTION OF
LANDFILL MONITORING DATA
PIN-4, BYRON BAY, NUNAVUT
NORTH LANDFILL



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MEASUREMENT UNIT Metre	SCALE: 1 : 1,250	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARÉ	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4C-PL	PAGE PL

FIGURE PIN-4.3

4.4 PHOTOGRAPHIC RECORDS

The Photographic Record for the North Landfill has been completed as per the TOR and is included in the following page as Table X. Full-sized photographs are contained in the Addendum DVD-ROM.

Table X: Landfill Visual Inspection Photo Log – North Landfill (page 1 of 4)

Photo (NLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
LOBE A						
A4	P415_7891	3 863	15-08-18	578260	7629100	Aerial view looking northwest at North Landfill
1	P415_7644	4 278	15-08-17	577880	7629394	View looking south-southeast at north slope on Lobe A
2	P415_7645	4 441	15-08-17	577888	7629373	View looking east along to of north slope on Lobe A
3	P415_7646	4 270	15-08-17	577929	7629362	View looking southwest at west edge of organic cover placed on north slope of Lobe A
4	P415_7647	4 349	15-08-17	577937	7629357	View looking southeast along toe of organic cover placed on north slope of Lobe A.
5	P415_7648	4 248	15-08-17	577964	7629357	View looking southwest at organic cover placed on north slope of Lobe A
6	P415_7649	4 318	15-08-17	577949	7629318	View looking west upslope along edge of organic cover on Lobe A.
7	P415_7650	4 393	15-08-17	577949	7629322	View looking north along east toe of Lobe A.
8	P415_7655	4 437	15-08-17	577949	7629314	View looking west a minor settlement near base of side slope of Type I cover - FEATURE A
9	P415_7656	4 335	15-08-17	577917	7629317	View looking east downslope from east crest of Lobe A
10	P415_7657	4 386	15-08-17	577914	7629316	View looking southwest along south side of Lobe A
11	P415_7658	4 374	15-08-17	577916	7629328	View looking northeast at organic cover placed on crest of Lobe A
12	P415_7659	1 270	15-08-17	577916	7629325	Panoramic view looking south to northwest from east crest of Lobe A
13	P415_7660	4 376	15-08-17	577899	7629324	View looking southeast a minor erosion across south cover of Lobe A - FEATURE B
14	P415_7661	4 369	15-08-17	577907	7629309	View looking northwest a minor erosion across south cover of Lobe A - FEATURE B
15	P415_7662	4 315	15-08-17	577888	7629300	View looking northeast along southeast side of Lobe A
16	P415_7663	4 350	15-08-17	577886	7629300	View looking northwest along southwest side of Lobe B
17	P415_7664	1 279	15-08-17	577873	7629324	Panoramic view looking north to southeast from west corner of Lobe A
18	P415_7665	4 297	15-08-17	577886	7629344	View looking southwest along northwest side of Lobe A
19	P415_7666	4 479	15-08-17	577889	7629344	View looking southeast along crest side of Lobe A
20	P415_7667	4 300	15-08-17	577885	7629348	View looking downslope along west edge of Type 1 cover on northwest crest of Lobe A

Table X: Landfill Visual Inspection Photo Log – North Landfill (page 2 of 4)

Photo (NLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
LOBE B						
21	P415_7620	4,314	15/08/17	577838	7629368	View looking northeast from southeast corner of Lobe B
22	P415_7621	4,308	15/08/17	577836	7629367	View looking northwest along southwest side of Lobe B
23	P415_7623	1,577	15/08/17	577831	7629372	Panoramic view looking west to northeast from southeast corner of Lobe B
24	P415_7624	4,358	15/08/17	577827	7629372	View looking east at scours on southeast crest of Lobe B - FEATURE C
25	P415_7625	4,299	15/08/17	577828	7629368	View looking northeast at scours on southeast crest of Lobe B - FEATURE C
26	P415_7626	4,340	15/08/17	577783	7629404	View looking southeast along southwest side of Lobe B
27	P415_7629	4,374	15/08/17	577783	7629435	View looking south upslope from northwest corner of Lobe B
28	P415_7630	4,315	15/08/17	577792	7629430	View looking northwest at erosion on northwest toe of Lobe B - FEATURE H (new)
29	P415_7631	4,356	15/08/17	577797	7629416	View looking southeast at erosion on northwest toe of Lobe B - FEATURE H (new)
30	P415_7632	1,622	15/08/17	577804	7629424	Panoramic view looking south to west at north cover of Lobe B
31	P415_7633	4,259	15/08/17	577801	7629417	View looking southeast along slope break on cover of Lobe B
32	P415_7634	4,159	15/08/17	577802	7629449	View looking south at north side of Lobe B
33	P415_7637	1,366	15/08/17	577843	7629413	Panoramic view looking south to west at north side of Lobe B
34	P415_7638	4,307	15/08/17	577837	7629387	View looking northwest along north toe of mid-slope of Lobe B
35	P415_7639	4,401	15/08/17	577840	7629386	View looking north along east side slope of Lobe B
36	P415_7640	4,310	15/08/17	577849	7629395	View looking southwest at minor erosion on east side slope of Lobe B - FEATURE F (new)

Table X: Landfill Visual Inspection Photo Log – North Landfill (page 3 of 4)

Photo (NLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
LOBE C						
37	P415_7600	4,453	15/08/17	577808	7629311	View looking west along north side of Lobe C
38	P415_7601	4,407	15/08/17	577812	7629311	View looking south along east side of Lobe C
39	P415_7602	1,200	15/08/17	577810	7629307	Panoramic view looking west to south from northeast corner of Lobe C
40	P415_7603	4,314	15/08/17	577814	7629297	View looking north at minor erosion along mid-slope on east side of Lobe C - FEATURE G (new)
41	P415_7604	4,287	15/08/17	577817	7629303	View looking west at minor erosion along mid-slope on east side of Lobe C - FEATURE G (new)
42	P415_7605	4,374	15/08/17	577807	7629296	View looking north at minor erosion along mid-slope on east side of Lobe C- FEATURE E
43	P415_7606	4,360	15/08/17	577803	7629302	View looking east at minor erosion along mid-slope on east side of Lobe C - FEATURE E
44	P415_7607	4,321	15/08/17	577745	7629298	View looking south along west side of Lobe C
45	P415_7608	4,332	15/08/17	577747	7629300	View looking east along north side of Lobe C
46	P415_7609	1,192	15/08/17	577747	7629297	Panoramic view looking east to south from northwest corner of Lobe C
47	P415_7610	4,303	15/08/17	577750	7629310	View looking south at minor erosion on northwest corner of Lobe C - FEATURE D
48	P415_7611	4,366	15/08/17	577755	7629305	View looking west at minor erosion on northwest corner of Lobe C - FEATURE D
49	P415_7612	4,426	15/08/17	577741	7629265	View looking north along west side of Lobe C
50	P415_7613	4,416	15/08/17	577743	7629263	View looking east along south side of Lobe C
51	P415_7614	4,431	15/08/17	577774	7629281	View looking east across south cover of Lobe C
52	P415_7615	4,390	15/08/17	577808	7629263	View looking west along south side of Lobe C
52	P415_7616	4,380	15/08/17	577810	7629266	View looking north along east side of Lobe C
54	P415_7617	1,295	15/08/17	577807	7629267	Panoramic view looking southwest to north from southeast corner of Lobe C

Table X: Landfill Visual Inspection Photo Log – North Landfill (page 4 of 4)

Photo (NLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
Soil Sampling						
P4-6	P415_7627	4,408	15/08/17	577818	7629339	Sample location P415-6A/B located between Lobes B & C
S6	P415_7628	4,306	15/08/17	577818	7629345	View looking south at sample location P415-6A/B
P4-7	P415_7635	4,347	15/08/17	577819	7629444	Sample location P415-7A/B located downgradient of Lobe B
S7	P415_7636	4,365	15/08/17	577821	7629452	View looking south at sample location P415-7A/B
P4-8	P415_7642	4,388	15/08/17	577851	7629431	Sample location P415-8A/B located downgradient of Lobe B
S8	P415_7643	4,264	15/08/17	577855	7629437	View looking southwest at sample location P415-8A/B
P4-9	P415_7651	4,380	15/08/17	577937	7629373	Sample location P415-9A/B located downgradient of Lobe A
S9	P415_7652	4,305	15/08/17	577940	7629379	View looking southwest at sample location P415-9A/B
P4-10	P415_7653	4,284	15/08/17	577960	7629349	Sample location P415-10A/B located downgradient of Lobe A
S10	P415_7654	4,404	15/08/17	577968	7629353	View looking southwest at sample location P415-10A/B
P4-11	P415_7618	4,443	15/08/17	577818	7629257	Sample location P415-11A/B located downgradient of Lobe C
S11	P415_7619	4,321	15/08/17	577822	7629252	View looking northwest at sample location P415-11A/B
P412	P415_7598	4,416	15/08/17	577768	7629255	Sample location P415-12A/B located downgradient of Lobe C
S12	P415_7599	4,378	15/08/17	577768	7629250	View looking north at sample location P415-12A/B

4.5 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 North Landfill samples are presented in Table XI hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XI: North Landfill Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters												F1	F2	F3
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]	C ₆ -C ₁₀ [mg/kg]	C ₁₀ -C ₁₆ [mg/kg]	C ₁₆ -C ₃ [mg/kg]		
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40		
Upgradient Soil Samples																	
P415-6A	P4-6	0-15	5.0	0.03	6.9	3.2	4.6	11.8	5.8	5	<0.01	<0.05	<10	<40	<40		
P415-6B		40-50	4.4	0.02	6.9	2.9	3.7	13.2	5.5	4	<0.01	<0.05	<10	<40	<40		
Downgradient Soil Samples																	
P415-7A	P4-7	0-15	3.6	0.02	9.4	4.1	8.1	5.9	9.1	6	0.01	<0.05	<10	<40	<40		
P415-7B		40-50	3.4	0.02	9.9	3.1	7.2	5.2	8.4	5	0.01	<0.05	<10	<40	<40		
P415-8A	P4-8	0-15	4.9	0.02	9.7	4.0	8.2	5.4	8.7	6	<0.01	<0.05	<10	<40	<40		
P415-8B		40-50	3.3	0.01	8.9	3.3	6.2	5.2	8.1	4	<0.01	<0.05	<10	<40	<40		
P415-9A	P4-9	0-15	4.0	0.03	11.9	5.1	10.2	6.7	12.6	6	0.01	<0.05	<10	<40	<40		
P415-9B		40-50	4.0	0.02	11.6	5.2	9.4	6.6	12.0	6	0.01	<0.05	<10	<40	<40		
P415-10A	P4-10	0-15	3.0	0.06	9.2	3.6	12.8	4.9	8.5	8	0.02	<0.05	<10	<40	<40		
P415-10B		40-50	2.8	0.03	11.4	3.2	10.3	5.1	10.8	6	0.01	<0.05	<10	<40	<40		
P415-11A	P4-11	0-15	1.1	0.22	2.6	1.3	13.1	2.3	4.1	4	0.06	<0.05	<10	<40	72		
P415-11B		40-50	2.7	0.02	11.1	2.5	8.9	8.0	7.8	6	0.01	<0.05	<10	<40	<40		
P415-12A	P4-12	0-15	2.8	0.07	6.0	2.2	5.7	4.9	8.3	6	0.02	<0.05	<10	<40	85		
P415-BD6 (Intra-Lab Blind Duplicate)		0-15	3.0	0.09	6.2	2.2	8.2	6.7	5.1	10	0.03	<0.05	<10	<40	<40		
P415-12A (Inter-Lab Blind Duplicate)		0-15	2.5	0.11	5.5	2.4	9.8	6.2	5.5	<20	<0.050	<0.02	<10	<50	<50		
Average Value for P415-4A Sample		0-15	2.7 ± 0.3	0.09 ± 0.02	5.9 ± 0.4	2.3 ± 0.1	7.9 ± 2.1	5.9 ± 0.9	6.3 ± 1.7	8 ± 3	0.03 ± 0.01	--	--	--	--		
P415-12B		40-50	3.5	0.02	10.1	2.5	7.8	7.5	6.0	4	0.01	<0.05	<10	<40	<40		

5 NON-HAZARDOUS WASTE LANDFILL

5.1 SUMMARY

On August 17, 2015 a visual inspection was completed at the Non-Hazardous Waste Landfill. Soil and groundwater sampling was completed at four stations located upgradient and downgradient of the landfill. One monitoring well, MW-5, located upgradient of the landfill was dry at the time of the monitoring program and could not be sampled.

No PCB or relatively high metal concentrations were detected in any of the soil samples collected. Slightly elevated concentrations of zinc were however noted in surface samples collected at upgradient location MW-5 (25 mg/kg) and downgradient location MW-6 (31 mg/kg). Detectable concentrations of TPH (PHC F3 Fraction) were noted in the surface samples collected at downgradient locations MW-7 (78 mg/kg) and MW-8 (53 mg/kg).

No PCB, TPH or relatively high metal concentrations were detected in any of the wells sampled, except for downgradient groundwater samples from MW-6, MW-7 or MW-8, where results showed F2 concentrations slightly over the detection limits.

As of the 2015 monitoring event, no features were identified with “significant” or “unacceptable” severity ratings. Three localized areas of minor settlement were noted on the Non-Hazardous Waste Landfill, including one existing feature on the north crest (Feature A) and two newly observed features on the northeast crest (Feature B) and northwest corner (Feature C). Several shallow ridges and depressions were also noted across the cover of the landfill. There was no change observed in the north crest feature from the previous 2014 assessment. These features appear to be associated with final rough grading of organic material on the landfill surface and are consistent with previous observations. One isolated area of minor erosion (Feature D) was noted on the northwest corner of the landfill. This feature was not observed during the previous 2014 assessment. Possible construction artifact (heavy equipment tracks and rough grading of landfill cover with organic material) was observed in the south corner of the landfill (Feature E). No significant change from previous assessments was observed. It should be noted that the artifact was previously observed but not named during the 2014 assessment.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table XII of this report and has been completed as per the TOR. Please refer to Figure PIN-4.4 for a sketch of the Non-Hazardous Waste Landfill detailing the location of photographs, settlement and erosional features.

Table XII: Visual Inspection Checklist / Report – NHWLF

**DEW Line Cleanup: Post-construction - Landfill Monitoring
Visual Inspection Checklist**

Inspection Report - Page 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: Non-Hazardous Waste Landfill (Existing Regraded Landfill)
DATE OF INSPECTION: August 17, 2015
DATE OF PREVIOUS INSPECTION: August 25, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE XII: NON-HAZARDOUS WASTE LANDFILL VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	Yes	FEATURE A See Figure PIN-4.4 (N crest)	0.7 m	0.3 m	0.1 m	Occasional	Minor depression	NHWLF-10, 11	Acceptable	Depression below crest. Slope appears stable. No changes from 2014 assessment.
		FEATURE B See Figure PIN-4.4 (NE crest) - New Obs.	1 m	0.25 m	0.05 - 0.07 m		Minor depression	NHWLF-8, 9	Acceptable	Linear depression parallel to crest. Slope appears stable. New observation.
		FEATURE C See Figure PIN-4.4 (NW cover) - New Obs.	3 m	0.15 m	0.05 m		Minor depression	NHWLF-31, 32	Acceptable	Slope appears stable. New observation.
Erosion	Yes	FEATURE D See Figure PIN-4.4 (NW corner) - New Obs.	1.5 m	0.1 - 0.15 m	0.05 m	Isolated	Minor erosion	NHWLF-15, 16	Acceptable	Self armouring. New observation.
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	Yes	See Figure PIN-4.4 (landfill cover)	Varies	Varies	N/A	<4%	Sparse vegetation across cover	NHWLF-27-30	N/A	Subtle increase in coverage since 2014 assessment..
Staining	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	Yes	See Figure PIN-4.4	N/A	N/A	N/A	N/A	MW-05, 06, 07, 08	NHWLF-1, 23, 32 5W, 6W, 7W, 8W	Acceptable	N/A
Other Features of Note:	No	FEATURE E See Figure PIN-4.4 and Photographic Record	2 - 5 m	0.3 - 0.6 m	0.05 - 0.15 m	N/A	Ridges and depressions on cover	NHWLF-27-30, 39	Acceptable	Possible construction artifact (heavy equipment tracks and rough grading of landfill cover with organic material). No Significant change from previous assessments.
Additional Photos	Yes	See Figure PIN-4.4 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation, no additional features of note.
Overall Landfill Performance:	Acceptable									

5.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for NHWLF has been completed as per the TOR and is included as Table XIII hereafter.

Table XIII: Preliminary Stability Assessment – NHWLF

Feature	Severity Rating	Extent
Settlement	Acceptable	Isolated
Erosion	Acceptable	Isolated
Frost Action	Not observed	None
Staining	Not observed	None
Vegetation Stress	Not observed	None
Seepage/Ponded Water	Not observed	None
Debris exposure	Not observed	None
Overall Landfill Performance	Acceptable	

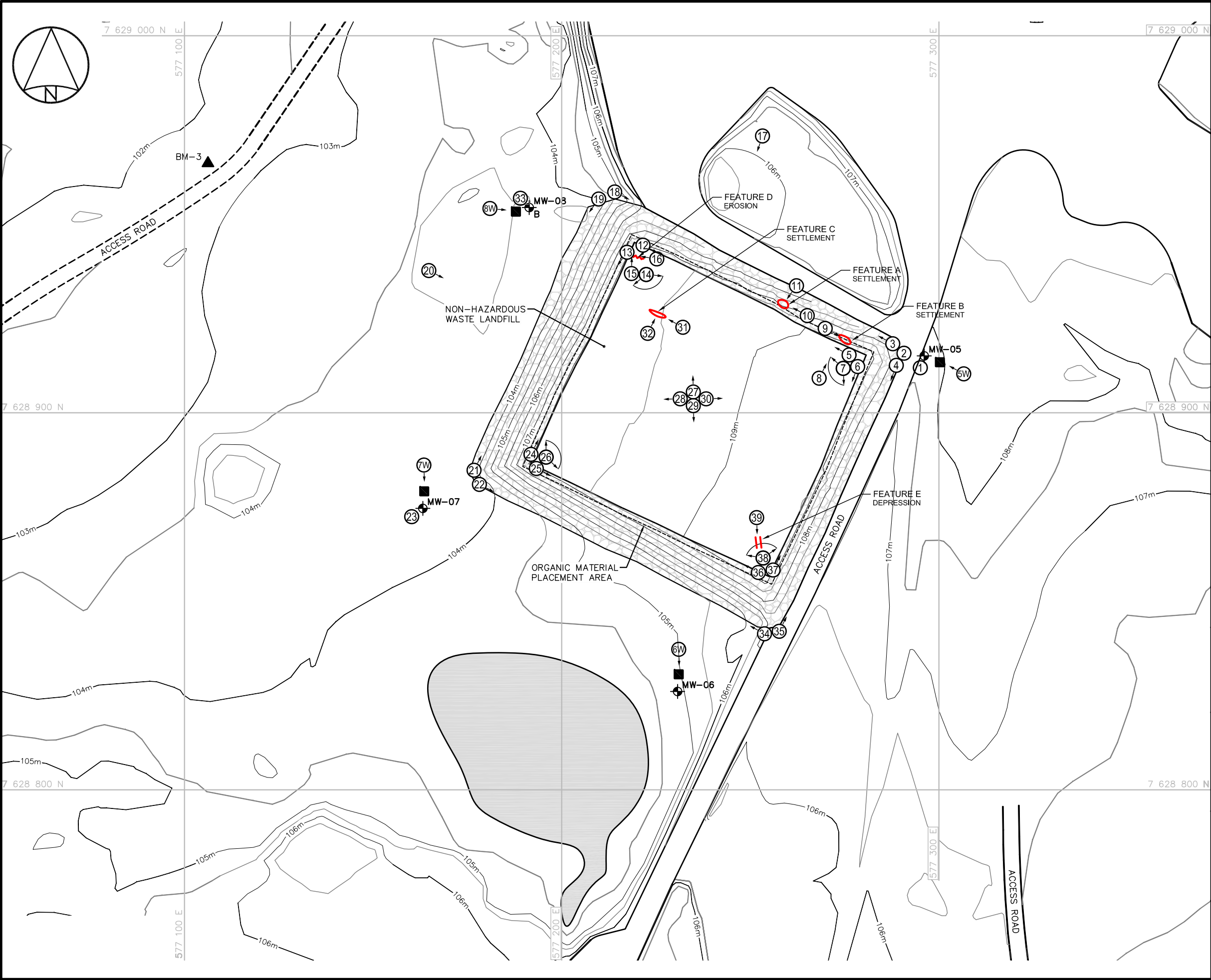
Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Debris exposed in erosion channels or areas of differential settlement. Liner exposed. Slope failure.

Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50% of the surface area of the landfill

5.3 LOCATION PLAN

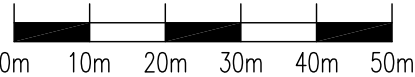
The Location Plan for the NHWLF has been completed as per the TOR and is presented in Figure PIN-4.4.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- ▲ BM-3 PERMANENT BENCHMARK LOCATION
- ⊕ MW-05 MONITORING WELL LOCATION
- ⊕ MW-08 BACKGROUND MONITORING WELL LOCATION
- BODY OF WATER
- SETTLEMENT
- ≡ DEPRESSION
- ⚡ EROSION
- ① → APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-15	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



Construction de Défense Canada
Défence Construction Canada

COLLECTION OF LANDFILL MONITORING DATA

PIN-4, BYRON BAY, NUNAVUT

NON-HAZARDOUS WASTE LANDFILL



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PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4D-PL	PAGE PL

FIGURE PIN-4.4

5.4 PHOTOGRAPHIC RECORDS

The Photographic Record for the Non-Hazardous Waste Landfill has been completed as per the TOR and is included in the following pages as Table XIV. Full-sized photographs are contained in the Addendum DVD-ROM.

Table XIV: Landfill Visual Inspection Photo Log – NHWLF

Photo (NHWLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
A1	P415_7536	3 969	15-08-16	577816	7628511	Aerial view looking northwest at USAF Landfill, Station Area Landfill - West and NHWLF.
A2	P415_7537	4 028	15-08-16	577816	7628511	Aerial view looking northwest at USAF Landfill, Station Area Landfill - West and NHWLF.
1	P415_7668	4 321	15-08-17	577295	7628914	MW-5
2	P415_7669	4 437	15-08-17	577290	7628916	Three small pieces of surficial metal debris near access road northeast of NHWLF
3	P415_7671	4 337	15-08-17	577289	7628917	View looking northwest along north side slope of NHWLF
4	P415_7672	4 272	15-08-17	577289	7628913	View looking southwest along east toe of NHWLF
5	P415_7673	4 328	15-08-17	577277	7628915	View looking northwest along north crest of NHWLF
6	P415_7674	4 365	15-08-17	577278	7628913	View looking southwest along east crest of NHWLF
7	P415_7675	1 420	15-08-17	577276	7628913	Panoramic view looking south to northwest from northeast corner of NHWLF
8	P415_7676	4 381	15-08-17	577274	7628917	View looking northeast at linear depression below crest on northeast side of NHWLF - FEATURE B (new)
9	P415_7677	4 336	15-08-17	577271	7628922	View looking southeast at linear depression below crest on northeast side of NHWLF - FEATURE B (new)
10	P415_7678	4 260	15-08-17	577263	7628927	View looking northwest at minor depression along north crest of NHWLF - FEATURE A
11	P415_7679	4 313	15-08-17	577260	7628930	View looking southwest at minor depression along north crest of NHWLF - FEATURE A
12	P415_7680	4 352	15-08-17	577221	7628944	View looking southeast along north crest of NHWLF
13	P415_7681	4 384	15-08-17	577218	7628943	View looking southwest along west crest of NHWLF
14	P415_7682	1 394	15-08-17	577221	7628942	Panoramic view looking east to southwest from northwest corner of NHWLF
15	P415_7683	4 306	15-08-17	577219	7628939	View looking north at minor erosion on northwest crest - FEATURE D (new)
16	P415_7684	4 343	15-08-17	577224	7628941	View looking west at minor erosion on northwest crest - FEATURE D (new)
17	P415_7685	4 367	15-08-17	577253	7628973	View looking southwest at north side of NHWLF
18	P415_7688	4 265	15-08-17	577210	7628956	View looking southeast along north toe of NHWLF
19	P415_7689	4 346	15-08-17	577214	7628957	View looking southwest along west toe of NHWLF
20	P415_7690	4 343	15-08-17	577166	7628938	View looking southeast at west side of NHWLF
21	P415_7691	4 330	15-08-17	577178	7628884	View looking northeast along west toe of NHWLF
22	P415_7692	4 304	15-08-17	577177	7628882	View looking southeast along south toe of NHWLF
23	P415_7693	4 234	15-08-17	577162	7628874	MW-7
24	P415_7694	4 341	15-08-17	577193	7628888	View looking northeast along west crest of NHWLF
25	P415_7695	4 280	15-08-17	577194	7628886	View looking southeast along south crest of NHWLF
26	P415_7696	1 522	15-08-17	577195	7628887	Panoramic view looking north to southeast from southwest corner of NHWLF
27	P415_7697	4 466	15-08-17	577235	7628904	View looking north across cover of NHWLF
28	P415_7698	4 345	15-08-17	577233	7628903	View looking west across cover of NHWLF
29	P415_7699	4 276	15-08-17	577235	7628903	View looking south across cover of NHWLF
30	P415_7700	4 390	15-08-17	577238	7628904	View looking east across cover of NHWLF
31	P415_7701	4 355	15-08-17	577230	7628925	View looking northwest at linear depression on north cover of NHWLF - FEATURE C (new)
32	P415_7702	4 411	15-08-17	577224	7628923	View looking northeast at linear depression on north cover of NHWLF - FEATURE C (new)
33	P415_7705	4 421	15-08-17	577200	7628841	MW-8
34	P415_7706	4 046	15-08-17	577255	7628842	View looking northwest along south toe of NHWLF
35	P415_7707	4 306	15-08-17	577257	7628842	View looking northeast along east toe of NHWLF
36	P415_7708	4 301	15-08-17	577254	7628858	View looking northwest along south crest of NHWLF
37	P415_7709	4 331	15-08-17	577256	7628858	View looking northeast along east crest of NHWLF
38	P415_7710	1 605	15-08-17	577255	7628860	Panoramic view looking west to northeast from southwest corner of NHWLF with heavy equipment tracks visible (Feature E)
39	P415_7711	4321	15-08-17	577252	7628870	View looking south at typical ridges (heavy equipment tracks) on cover of NHWLF (Feature E)
Soil Sampling						
5W	P415_7686	4317	15-08-17	577300	7628913	Sampling location P415-5W located upgradient of NHWLF
MW5	P415_7687	4373	15-08-17	577304	7628911	View looking northwest at MW-05 located upgradient of NHWLF
6W	P415_7714	4345	15-08-17	577231	7628831	Sampling location P415-6W located downgradient of NHWLF
MW6	P415_7715	4381	15-08-17	577231	7628835	View looking south at MW-06 located downgradient of NHWLF
7W	P415_7712	4320	15-08-17	577163	7628880	Sampling location P415-7W located downgradient of NHWLF
MW7	P415_7713	4354	15-08-17	577163	7628883	View looking south at MW-07 located downgradient of NHWLF
8W	P415_7703	4360	15-08-17	577188	7628954	Sampling location P415-8W located downgradient of NHWLF
MW8	P415_7704	4313	15-08-17	577183	7628953	View looking east at MW-08 located downgradient of NHWLF

5.5 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 NHWLF samples are presented in Table XV hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XV: NHWLF Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters												F1	F2	F3
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]					
			C ₆ -C ₁₀ [mg/kg]	C ₁₀ -C ₁₆ [mg/kg]	C ₁₆ -C ₃₄ [mg/kg]												
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40		
Upgradient Soil Samples																	
P415-5WA	MW-05	0-15	2.2	0.06	8.9	4.5	12.1	11.5	7.5	25	<0.01	<0.05	<10	<40	<40		
P415-5WB		40-50	3.2	0.03	10.4	3.7	7.6	10.7	7.9	10	0.01	<0.05	<10	<40	<40		
Downgradient Soil Samples																	
P415-6WA	MW-06	0-15	2.5	0.08	12.2	4.5	17.2	7.0	10.7	31	0.03	<0.05	<10	<40	<40		
P415-6WB		40-50	2.4	0.03	14.6	4.8	15.7	6.0	10.9	13	<0.01	<0.05	<10	<40	<40		
P415-7WA	MW-07	0-15	1.9	0.12	5.7	2.0	16.5	7.0	8.9	9	0.05	<0.05	<10	<40	78		
P415-7WB		40-50	4.1	0.02	18.0	6.4	22.0	14.8	16.7	12	0.01	<0.05	<10	<40	<40		
P415-8WA	MW-08	0-15	4.0	0.06	14.2	4.9	12.1	16.1	13.5	17	0.01	<0.05	<10	<40	<40		
P415-BD2 (Intra-Lab Blind Duplicate)		0-15	5.1	0.07	15.5	5.8	12.9	20.9	14.9	16	0.01	<0.05	<10	<40	<40		
P415-8WA (Inter-Lab Blind Duplicate)		0-15	3.6	0.071	14.0	4.8	14	17	12.0	17	<0.05	0.015	<10	<50	<50		
Average Value for P415-8WA Sample		0-15	4.2 ± 0.8	0.067 ± 0.006	14.6 ± 0.8	5.2 ± 0.6	13 ± 1	18 ± 3	13.5 ± 1.4	16.7 ± 0.6	0.01 ± 0.00	--	--	--	--		
P415-8WB		40-50	4.1	0.04	13.4	4.5	10.6	15.0	12.2	11	0.02	<0.05	<10	<40	<40		

5.6 GROUNDWATER SAMPLE ANALYTICAL DATA

The groundwater chemical analysis results and evaluation for the analytical data for the 2015 NHWLF samples are presented in Table XVI hereafter. Certificates of analyses and results for groundwater samples collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XVI: NHWLF Summary Table for Groundwater Analytical Data

Sample #	Location	Parameters												
		As [mg/L]	Cd [mg/L]	Cr [mg/L]	Co [mg/L]	Cu [mg/L]	Pb [mg/L]	Ni [mg/L]	Zn [mg/L]	Hg [mg/L]	PCBs [mg/L]	F1	F2	F3
												C ₆ -C ₁₀ [mg/L]	C ₁₀ -C ₁₆ [mg/L]	C ₁₀ -C ₃₄ [mg/L]
Detection Limit		0.0002	0.00001	0.0005	0.0001	0.001	0.0001	0.0005	0.001	0.000005	0.00005	0.1	0.1	0.1
Upgradient Groundwater Sample														
Dry	MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Downgradient Groundwater Samples														
P415-6W	MW-6	0.0003	<0.00001	0.0007	0.0002	0.002	0.0006	0.0023	0.010	0.000009	<0.00005	<0.1	0.2	<0.1
P415-7W	MW-7	<0.0002	<0.00001	<0.0005	<0.0001	0.001	<0.0001	0.0010	<0.001	<0.000005	<0.00005	<0.1	0.1	<0.1
P415-8W	MW-8	0.0016	0.00001	0.0285	0.0005	0.010	0.0008	0.0142	0.008	<0.000005	<0.00005	<0.1	0.2	<0.1

5.7 MONITORING WELL SAMPLING / INSPECTION LOGS

The monitoring well sampling logs for MW-5 to MW-8 are presented in this section. MW-5 was dry and groundwater could not be sampled.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: NHWLF
Monitoring Well ID: MW-5
Sample Number(s) include dups.: P415-5W
Bottles filled (by parameter type): N/A
Date of Sampling Event: N/A Time: N/A
Weather: 10C, P.Cloudy, 20-40 km/h SE
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Well in good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 5
*Depth to top of screen (cm)= 50 Length screened section (cm)= 300
*note: *depths are from ground surface*

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= - dry -
Static water level (cm) from top of pipe = N/A
Static water level (cm) (below ground surface) calculated = N/A
Measured well refusal depth (cm) (measure after sampling)= N/A
Thickness of water column (cm)= N/A Static volume of water in well (mL)= N/A
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: N/A
Well purged (Y/N): N Recharge Rate: N/A
Volume Purged (L) (note multiple purging events if applicable):

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	-	-	-	
Conductivity (uS/cm)	-	-	-	
Turbidity (NTU)	-	-	-	
Temperature (degC)	-	-	-	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): N/A

Decontamination of sampling equipment

Type of decontamination fluid (s): N/A
Number washes: Number rinses:

Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: NHWLF
Monitoring Well ID: MW-6
Sample Number(s) include dups.: P415-6W
Bottles filled (by parameter type): 200 mL/40 mL (Met), 1 L amber (PCBs), 1 L amber/3 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 10:30
Weather: 10C, P.Cloudy, 20-40 km/h SE
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Well in good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 430 Diameter of well (cm)= 5
*Depth to top of screen (cm)= 30 Length screened section (cm)= 300
note: *depths are from ground surface

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 49
Static water level (cm) from top of pipe = 148
Static water level (cm) (below ground surface) calculated = 99
Measured well refusal depth (cm) (measure after sampling)= 198
Thickness of water column (cm)= 50 Static volume of water in well (mL)= 1013
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: >200 mL/min
Volume Purged (L) (note multiple purging events if applicable): 1.8

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	8.1	8.2	8.1	
Conductivity (uS/cm)	632	642	650	
Turbidity (NTU)	54.0	18.8	11.8	
Temperature (degC)	1.1	0.9	0.9	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required,dedicated tubing
Number washes: N/A Number rinses: N/A
Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: NHWLF
Monitoring Well ID: MW-7
Sample Number(s) include dups.: P415-7W
Bottles filled (by parameter type): 200 mL/40 mL (Met), 1 L amber (PCBs), 1 L amber/3 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 11:00
Weather: 10C, P.Cloudy, 20-40 km/h SE
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Well in good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 5
*Depth to top of screen (cm)= 50 Length screened section (cm)= 300
note: *depths are from ground surface

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 42
Static water level (cm) from top of pipe = 161
Static water level (cm) (below ground surface) calculated = 119
Measured well refusal depth (cm) (measure after sampling)= 362
Thickness of water column (cm)= 201 Static volume of water in well (mL)= 4072
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: >200 mL/min
Volume Purged (L) (note multiple purging events if applicable): 4.8

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	8.1	7.8	7.7	
Conductivity (uS/cm)	636	634	630	
Turbidity (NTU)	3.69	1.26	0.76	
Temperature (degC)	4.3	4.3	4.3	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required,dedicated tubing
Number washes: N/A Number rinses: N/A

Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: NHWLF
Monitoring Well ID: MW-8
Sample Number(s) include dups.: P415-8W
Bottles filled (by parameter type): 200 mL/40 mL (Met), 1 L amber (PCBs), 1 L amber/3 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 11:30
Weather: 10C, P.Cloudy, 20-40 km/h SE
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Well in good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 5
*Depth to top of screen (cm)= 50 Length screened section (cm)= 300
note: *depths are from ground surface

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 64
Static water level (cm) from top of pipe = 67
Static water level (cm) (below ground surface) calculated = 3
Measured well refusal depth (cm) (measure after sampling)= 132
Thickness of water column (cm)= 65 Static volume of water in well (mL)= 1317
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: ~75 mL/min
Volume Purged (L) (note multiple purging events if applicable): 1.8

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	8.2	9.1	9.2	
Conductivity (uS/cm)	458	562	566	
Turbidity (NTU)	3.8	11.8	10.2	
Temperature (degC)	2.2	2.2	2.0	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required,dedicated tubing
Number washes: N/A Number rinses: N/A
Other Relevant Comments: Slow recharge

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

6 STATION AREA LANDFILL WEST

6.1 SUMMARY

On August 17, 2015 a visual inspection was completed at the Station Area Landfill West. Soil sampling was completed at five stations located upgradient and downgradient of the landfill.

No PCB or relatively high metal concentrations were detected in any of the soil samples collected. One slightly elevated concentration of copper was however noted in the surface sample collected at upgradient location P4-13 (35.2 mg/kg). Detectable concentrations of TPH (PHC F3 Fraction) were noted in the surface and depth samples collected at downgradient locations P4-15 (59 mg/kg) and P4-16 (56 mg/kg), respectively.

As of the 2015 monitoring event, no features were identified with “significant” or “unacceptable” severity ratings. Six localized areas of settlement were noted on the Station Area Landfill West, including three existing features located on the north cover and side slope (Feature A), south crest (Feature B) and east cover (Feature C); and three newly observed features on the west crest (Feature G), the southwest crest (Feature H) and south central cover (Feature I). No significant changes were observed with the existing features, with the exception of the feature on the south crest (Feature B) where a marginal increase in length from 1.5 m to 2.0 m was noted from the 2014 assessment. Evidence of erosion was observed at two locations on the northeast and south cover and side slope areas. These features (Feature D and E) were observed during the previous 2014 assessment with no significant changes noted.

One area of minor staining (Feature F) was also noted on the northwest cover of the landfill and has not significantly changed since the last observation. No exposed debris was noted.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table XVII of this report and has been completed as per the TOR. Please refer to Figure PIN-4.5 for a sketch of the Station Area Landfill West detailing the location of photographs, settlement, erosional and staining features.

Table XVII: Visual Inspection Checklist - Station Area Landfill West

**DEW Line Cleanup: Post-construction - Landfill Monitoring
Visual Inspection Checklist**

Inspection Report - Page 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: Station Area Landfill West (Existing Regrade Landfill)
DATE OF INSPECTION: August 17, 2015
DATE OF PREVIOUS INSPECTION: August 25, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE XVII: STATION AREA LANDFILL WEST - VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	Yes	FEATURE A See Figure PIN-4.5 (N cover and side)	0.5 - 5 m	0.3 m	0.05 - 0.15 m	Occasional	Minor pothole and linear depressions	SLF-4, 5, 15-17	Acceptable	Slope and side slope appear stable. No significant change from 2014 assessment.
		FEATURE B See Figure PIN-4.5 (S crest)	2 m	0.5 - 1 m	0.05 - 0.15 m	Isolated	Single depression	SLF-25, 27	Acceptable	Subtle depression on S crest. Marginal increase in length from 2014 assessment.
		FEATURE C See Figure PIN-4.5 (E cover)	0.4 m	0.6 m	0.1 m	Isolated	Single minor depression	SLF-10, 11	Acceptable	Subtle depression on E crest. No change from 2014 assessment.
		FEATURE G See Figure PIN-4.5 (W crest) - <i>New Obs.</i>	1 m	0.45 m	0.05 m	Isolated	Single minor depression	SLF-22, 23	Acceptable	Linear depression below W crest. New observation.
		FEATURE H See Figure PIN-4.5 (SW crest) - <i>New Obs.</i>	2 m	0.5 - 1 m	0.1 m	Isolated	Single minor depression	SLF-29, 30	Acceptable	Linear depression on SW crest. New observation.
		FEATURE I See Figure PIN-4.5 (S Cental cover) - <i>New Obs.</i>	4 - 5 m	0.2 m	0.05 m	Isolated	Parallel depressions	SLF-35, 37	Acceptable	Two parallel depressions on landfill cover. New observation.
Erosion	Yes	FEATURE D See Figure PIN-4.5 (NE cover and side slope)	10 - 18 m	0.1 m	0.01 - 0.02 m	Isolated	Two locations of minor erosion	SLF-6, 7, 12, 13	Acceptable	Washing of fines. Self armouring. No significant change from 2014 assessment.
		FEATURE E See Figure PIN-4.5 (S cover and side slope)	5 - 10 m	0.1 - 0.15 m	0.01 m	Isolated	Single area of minor erosion	SLF-33	Acceptable	Washing of fines. Self armouring. No change from 2014 assessment
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Staining	Yes	FEATURE F See Figure PIN-4.5 (NW cover)	0. 3 m	0.75 m	Unknown	Isolated	Single area of dark staining	SLF-14	Acceptable	No significant change from previous assessments.
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Other Features of Note:	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Additional Photos	Yes	See Figure PIN-4.5 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation. No additional features of note.
Overall Landfill Performance:	Acceptable									

6.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for Station Area Landfill West has been completed as per the TOR and is included as Table XVIII hereafter.

Table XVIII: Preliminary Stability Assessment – Station Area Landfill West

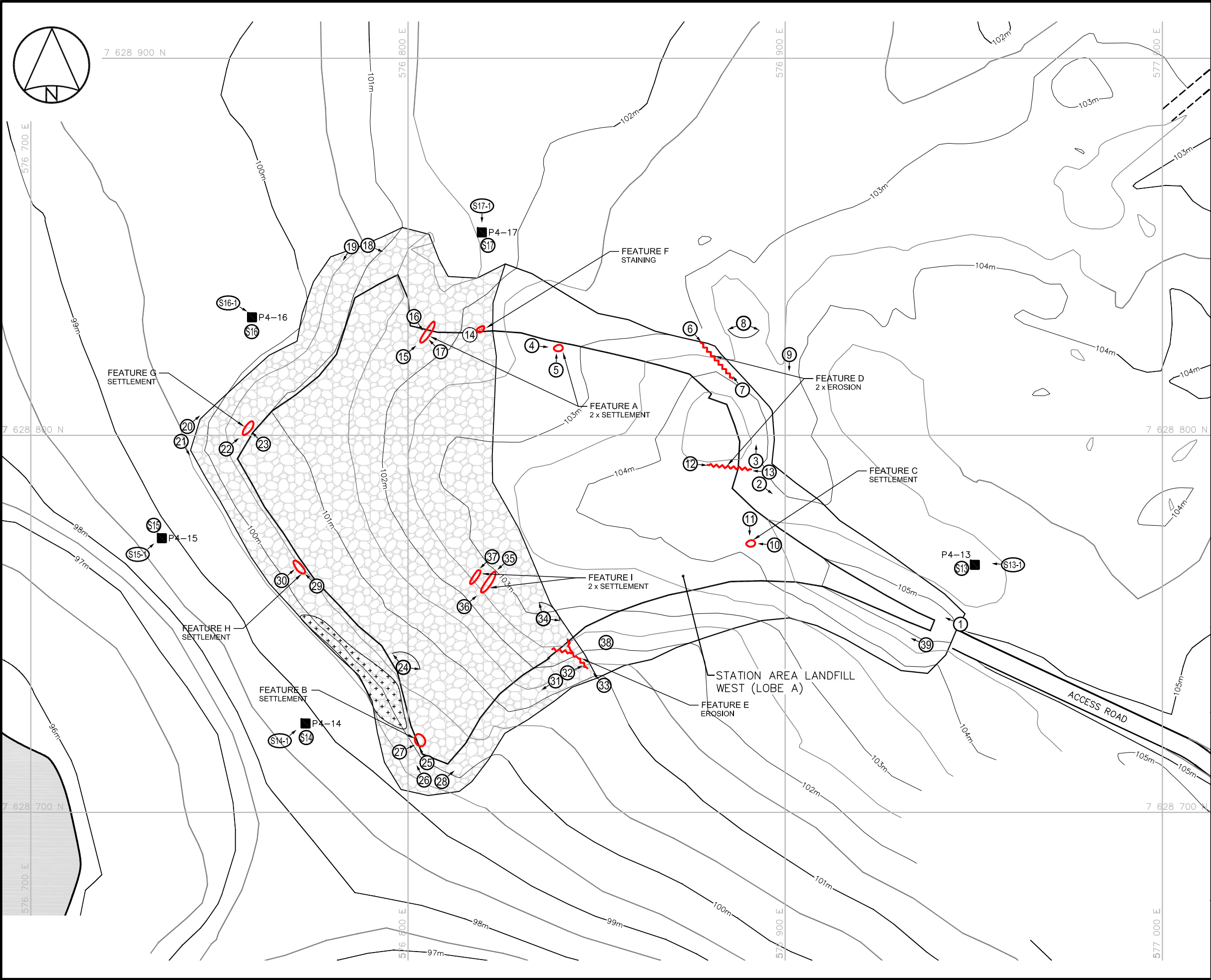
Feature	Severity Rating	Extent
Settlement	Acceptable	Occasional
Erosion	Acceptable	Isolated
Frost Action	Not observed	None
Staining	Acceptable	Isolated
Vegetation Stress	Not observed	None
Seepage/Ponded Water	Not observed	None
Debris exposure	Not observed	None
Overall Landfill Performance	Acceptable	

Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> • Debris exposed in erosion channels or areas of differential settlement. • Liner exposed. • Slope failure.
Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50% of the surface area of the landfill

6.3 LOCATION PLAN

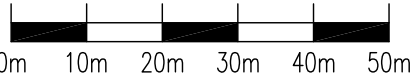
The Location Plan for the Station Area Landfill West has been completed as per the TOR and is presented in Figure PIN-4.5.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- BODY OF WATER
- SPARSE VEGETATION
- SETTLEMENT
- STAINING
- EROSION
- APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-21	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



Construction de Défense Canada
Défence Construction Canada

COLLECTION OF
LANDFILL MONITORING DATA
PIN-4, BYRON BAY, NUNAVUT

STATION AREA LANDFILL WEST



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MEASUREMENT UNIT Metre	SCALE: 1 : 1,000	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARE	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4E-PL	PAGE PL

FIGURE PIN-4.5

6.4 PHOTOGRAPHIC RECORDS

The Photographic Record for the Station Area Landfill West has been completed as per the TOR and is included in the following page as Table XIX. Full-sized photographs are contained in the Addendum DVD-ROM.

Table XIX: Landfill Visual Inspection Photo Log – Station Area Landfill West

Photo (SLF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
A1	P415_7536	3,969	15/08/16	577816	7628511	Aerial view looking northwest at USAF Landfill, Station Area Landfill - West and NHWLF.
A2	P415_7537	4,028	15/08/16	577816	7628511	Aerial view looking northwest at USAF Landfill, Station Area Landfill - West and NHWLF.
1	P415_7718	4,244	15/08/17	576945	7628750	View looking northwest along north side of Station Area Landfill
2	P415_7719	4,399	15/08/17	576893	7628788	View looking southeast along north side of Station Area Landfill
3	P415_7720	4,310	15/08/17	576893	7628792	View looking north along north side of Station Area Landfill
4	P415_7721	4,433	15/08/17	576835	7628824	View looking north at pothole depression on northwest cover of Station Area Landfill - FEATURE A
5	P415_7722	4,408	15/08/17	576840	7628819	View looking east at pothole depression on northwest cover of Station Area Landfill - FEATURE A
6	P415_7723	4,104	15/08/17	576876	7628827	View looking southeast at minor erosion on cover of Station Area Landfill - FEATURE D
7	P415_7724	4,397	15/08/17	576888	7628814	View looking northwest at minor erosion on cover of Station Area Landfill - FEATURE D
8	P415_7725	1,121	15/08/17	576889	7628829	Panoramic view looking southeast to southwest at northwest side of Station Area Landfill
9	P415_7726	4,432	15/08/17	576901	7628821	View looking southeast along north side of Station Area Landfill
10	P415_7729	4,406	15/08/17	576895	7628771	View west at localized depression on east side of Station Area Landfill cover - FEATURE C
11	P415_7730	4,273	15/08/17	576891	7628775	View south at localized depression on east side of Station Area Landfill cover - FEATURE C
12	P415_7731	4,459	15/08/17	576877	7628793	View looking east at minor erosion on west cover of Station Area Landfill - FEATURE D
13	P415_7732	4,474	15/08/17	576895	7628790	View looking west at minor erosion on west cover of Station Area Landfill - FEATURE D
14	P415_7733	4,262	15/08/17	576818	7628827	View of surface stain on northwest cover of Station Area Landfill - FEATURE F
15	P415_7734	4,362	15/08/17	576801	7628822	View looking northeast at linear depression on west side of Station Area Landfill - FEATURE A
16	P415_7735	4,286	15/08/17	576804	7628831	View looking southeast at linear depression on west side of Station Area Landfill - FEATURE A
17	P415_7736	4,377	15/08/17	576808	7628823	View looking northwest at linear depression on west side of Station Area Landfill - FEATURE A
18	P415_7739	4,335	15/08/17	576788	7628850	View looking southeast along north side of Station Area Landfill
19	P415_7740	4,404	15/08/17	576786	7628850	View looking southwest along west side of Station Area Landfill
20	P415_7741	4,354	15/08/17	576741	7628801	View looking northeast along west side of Station Area Landfill
21	P415_7742	4,331	15/08/17	576741	7628800	View looking southeast along west side of Station Area Landfill
22	P415_7743	4,392	15/08/17	576753	7628797	View looking northeast at linear depression on west crest of Station Area Landfill - FEATURE G (new)
23	P415_7744	4,328	15/08/17	576760	7628799	View looking northwest at linear depression on west crest of Station Area Landfill - FEATURE G (new)
24	P415_7747	1,323	15/08/17	576798	7628738	Panoramic view looking northwest to east across west cover of Station Area Landfill
25	P415_7748	4,349	15/08/17	576805	7628713	View looking northwest at depression on south crest of Station Area Landfill - FEATURE B
26	P415_7749	4,330	15/08/17	576804	7628709	View looking northwest along southwest side of Station Area Landfill
27	P415_7750	4,336	15/08/17	576799	7628716	View looking northeast at depression on south crest of Station Area Landfill - FEATURE B
28	P415_7751	4,262	15/08/17	576809	7628709	View looking northeast along southeast side of Station Area Landfill
29	P415_7752	4,408	15/08/17	576775	7628761	View looking northwest at depression on west crest of Station Area Landfill - FEATURE H (new)
30	P415_7753	4,358	15/08/17	576767	7628762	View looking northeast at depression on west crest of Station Area Landfill - FEATURE H (new)
31	P415_7756	4,144	15/08/17	576840	7628735	View looking southwest along south side of Station Area Landfill
32	P415_7757	4,355	15/08/17	576842	7628737	View looking northeast along south side of Station Area Landfill
33	P415_7758	4,440	15/08/17	576852	7628735	View looking northwest at minor erosion on cover and side slope of Station Area Landfill - FEATURE E
34	P415_7760	1,336	15/08/17	576837	7628752	Panoramic view looking north to east across east cover of Station Area Landfill
35	P415_7761	4,269	15/08/17	576826	7628766	View looking southwest at linear depression on south central cover of Station Area Landfill - FEATURE I (new)
36	P415_7762	4,344	15/08/17	576816	7628755	View looking northeast at linear depression on south central cover of Station Area Landfill - FEATURE I (new)
37	P415_7763	4,280	15/08/17	576822	7628767	View looking southwest at linear depression on south central cover of Station Area Landfill - FEATURE I (new)
38	P415_7764	4,350	15/08/17	576851	7628745	Typical sparse vegetation on Station Area Landfill cover
39	P415_7767	4,290	15/08/17	576937	7628744	View looking west-northwest along south side of Station Area Landfill
Soil Sampling						
S13	P415_7727	4,325	15/08/17	576951	7628766	Sample location P415-13A/B located upgradient of Station Area Landfill
S13-1	P415_7728	4,349	15/08/17	576957	7628766	View looking west at sample location P415-13A/B
S14	P415_7765	4,388	15/08/17	576773	7628722	Sample location P415-14A/B located downgradient of Station Area Landfill
S14-1	P415_7766	4,329	15/08/17	576769	7628720	View looking northeast at sample location P415-14A/B
S15	P415_7754	4,330	15/08/17	576735	7628772	Sample location P415-15A/B located downgradient of Station Area Landfill
S15-1	P415_7755	4,408	15/08/17	576730	7628769	View looking east at sample location P415-15A/B
S16	P415_7745	4,373	15/08/17	576758	7628832	Sample location P415-16A/B located downgradient of Station Area Landfill
S16-1	P415_7746	4,330	15/08/17	576755	7628835	View looking southeast at sample location P415-16A/B
S17	P415_7737	4,351	15/08/17	576819	7628854	Sample location P415-17A/B located downgradient of Station Area Landfill
S17-1	P415_7738	4,411	15/08/17	576819	7628859	View looking south at sample location P415-17A/B

6.5 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 Station Area Landfill West samples are presented in Table XX hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XX: Station Area Landfill West Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters												F1	F2	F3
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]	C ₆ -C ₁₀ [mg/kg]	C ₁₀ -C ₁₆ [mg/kg]	C ₁₆ -C ₃₄ [mg/kg]		
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40		
Upgradient Soil Samples																	
P415-13A	P4-13	0-15	2.9	0.02	11.7	7.2	35.2	5.7	13.4	18	<0.01	<0.05	<10	<40	<40		
P415-13B		40-50	4.1	0.02	12.1	4.6	10.5	10.5	9.9	6	<0.01	<0.05	<10	<40	<40		
Downgradient Soil Samples																	
P415-14A	P4-14	0-15	3.4	0.07	10.7	4.2	10.8	9.8	8.6	12	0.03	<0.05	<10	<40	<40		
P415-14B		40-50	4.8	0.04	17.4	6.9	12.8	11.1	12.9	7	0.02	<0.05	<10	<40	<40		
P415-15A	P4-15	0-15	3.9	0.04	14.3	5.4	10.6	9.7	10.9	7	0.02	<0.05	<10	<40	<40		
P415-BD5 (Intra-Lab Blind Duplicate)		0-15	3.9	0.04	13.2	5.5	11.9	9.8	12	8	0.01	<0.05	<10	<40	<40		
P415-15A (Inter-Lab Blind Duplicate)		0-15	3.2	<0.05	13	4.9	18.0	11	10	<10	<0.05	<0.01	<10	<50	<50		
Average Value for P415-15A Sample		0-15	3.7 ± 0.4	0.04 ± 0.00	13.5 ± 0.7	5.3 ± 0.3	13.5 ± 4.0	10.2 ± 0.7	11 ± 1	8 ± 1	0.02 ± 0.01	--	--	--	--		
P415-15B	P4-16	40-50	4.6	0.03	16.2	6.2	11.7	10.0	12.4	7	0.02	<0.05	<10	<40	59		
P415-16A		0-15	1.1	0.15	3.7	1.5	5.9	3.1	3.9	4	0.06	<0.05	<10	<40	56		
P415-16B	P4-17	40-50	3.8	0.03	11.7	4.5	9.9	9.7	9.5	4	0.02	<0.05	<10	<40	<40		
P415-17A		0-15	3.9	0.03	9.5	4.3	7.2	13.3	9.3	5	<0.01	<0.05	<10	<40	<40		
P415-17B		40-50	4.0	0.03	9.0	3.9	7.2	11.6	8.8	4	0.01	<0.05	<10	<40	<40		

7 USAF LANDFILL

7.1 SUMMARY

On August 17, 2015 a visual inspection was completed at the USAF Landfill. Soil sampling was completed at four stations located upgradient and downgradient of the landfill.

No PCB, TPH or relatively high metal concentrations were detected in any of the soil samples collected. One slightly elevated concentrations of lead was however noted in the depth sample collected at upgradient location P4-18 (30.9 mg/kg).

As of the 2015 monitoring event, no features were identified with “significant” or “unacceptable” severity ratings. Indications of settlement or erosion were not observed, however three localized areas of seepage were observed within a wetted area along the south toe of the landfill (Feature A). There was a notable increase in length of the wetted area from 10 m to 18 m from the previous 2014 assessment. One partially infilled tension crack (Feature B) was also noted on the east cover of the landfill. This feature was not observed during the previous 2014 assessment. No exposed debris was noted.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table XXI of this report and has been completed as per the TOR. Please refer to Figure PIN-4.6 for a sketch of the USAF Landfill detailing the location of photographs and erosional features.

Table XXI: Visual Inspection Checklist - USAF Landfill
DEW Line Cleanup: Post-construction - Landfill Monitoring
Visual Inspection Checklist
Inspection Report - Page 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: USAF Landfill
DATE OF INSPECTION: August 18, 2015
DATE OF PREVIOUS INSPECTION: August 25, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE XXI: USAF LANDFILL VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Erosion	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	Yes	See Figure PIN-4.6 and Photographic Record	N/A	N/A	N/A	<1%	Sparse vegetation on south side	USAF-16	N/A	No Significant Change from Past Observation.
Staining	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	Yes	Feature A See Figure PIN-4.6 (S toe)	18 m	2.5 m	N/A	Occasional	Three areas of seepage along toe	USAF-15-17	Acceptable	Algal growth noted in seepage areas. Notable increase in wetted area from 10 m to 18 m in length from 2014 observations.
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Other Features of Note:	Yes	Feature B See Figure PIN-4.6 (E cover) - New Obs.	3 m	2 - 3 cm	3 cm	Isolated	Tension crack	USAF-7-9	Acceptable	Single partially infilled crack. New observation.
Additional Photos	Yes	See Figure PIN-4.6 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation, no additional features of note.

7.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for USAF Landfill has been completed as per the TOR and is included as Table XXII hereafter.

Table XXII: Preliminary Stability Assessment – USAF Landfill

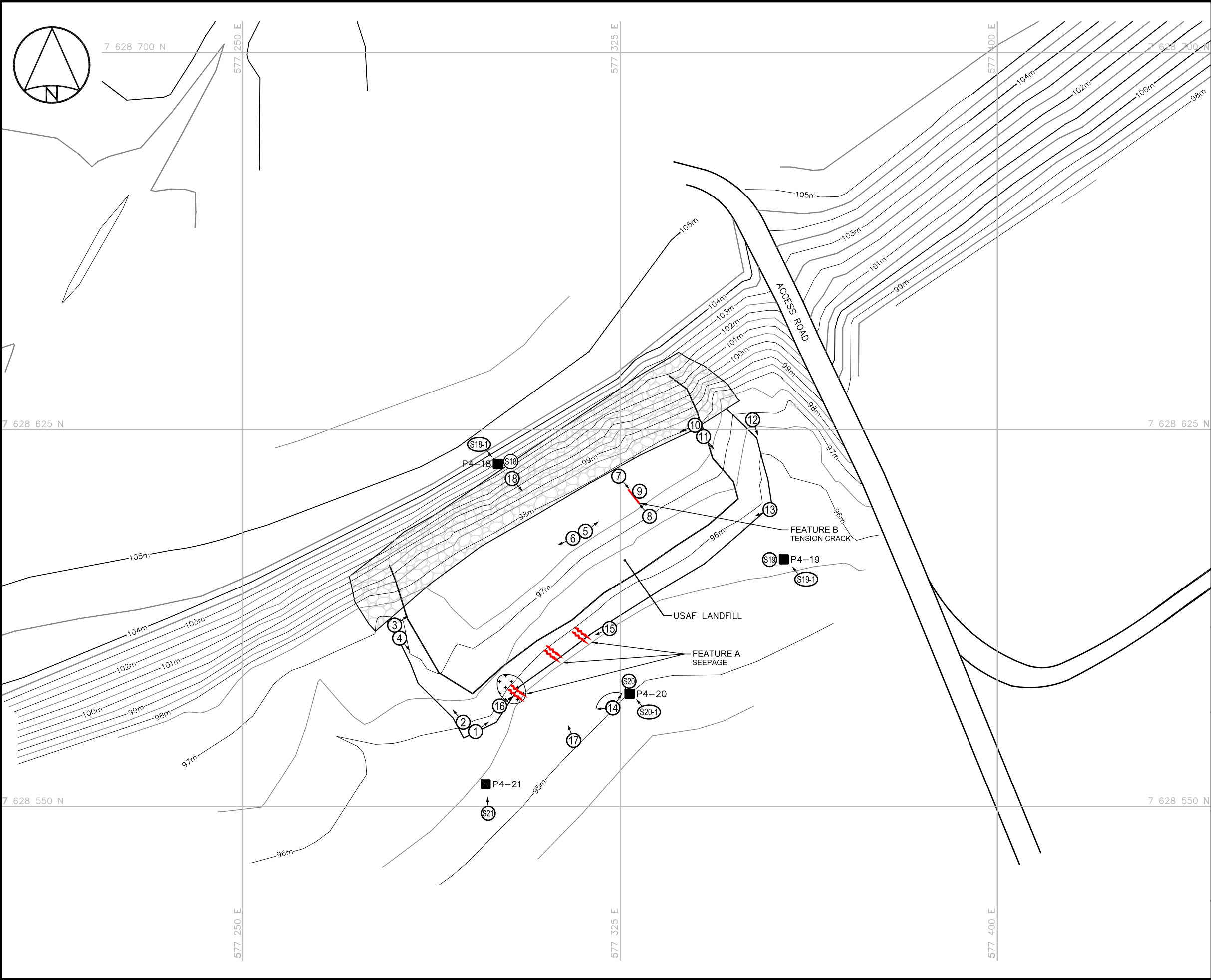
Feature	Severity Rating	Extent
Settlement	Not observed	None
Erosion	Not observed	None
Frost Action	Not observed	None
Staining	Not observed	None
Vegetation Stress	Not observed	None
Seepage/Ponded Water	Acceptable	Occasional
Debris exposure	Not observed	None
Overall Landfill Performance	Acceptable	

Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Debris exposed in erosion channels or areas of differential settlement. Liner exposed. Slope failure.
Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50 % of the surface area of the landfill

7.3 LOCATION PLAN

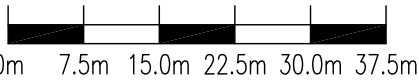
The Location Plan for the USAF Landfill has been completed as per the TOR and is presented in Figure PIN-4.6.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- SPARSE VEGETATION
- SEEPAGE
- TENSION CRACK
- APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-21	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



COLLECTION OF
LANDFILL MONITORING DATA
PIN-4, BYRON BAY, NUNAVUT

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MEASUREMENT UNIT Metre	SCALE: 1 : 750	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARÉ	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4F-PL	PAGE PL

FIGURE PIN-4.6

7.4 PHOTOGRAPHIC RECORDS

The Photographic Record for the USAF Landfill has been completed as per the TOR and is included in the following page as Table XXIII. Full-sized photographs are contained in the Addendum DVD-ROM.

Table XXIII: Landfill Visual Inspection Photo Log – USAF Landfill

Photo (USAF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
A1	P415_7536	3,969	15/08/16	577816	7628511	Aerial view looking northwest at USAF Landfill, Station Area Landfill - West and NHWLF.
A2	P415_7537	4,028	15/08/16	577816	7628511	Aerial view looking northwest at USAF Landfill, Station Area Landfill - West and NHWLF.
1	P415_7854	4,331	15/08/18	577296	7628565	View looking northeast along south side of USAF Landfill
2	P415_7855	4,264	15/08/18	577295	7628566	View looking northwest along west side of USAF Landfill
3	P415_7856	4,316	15/08/18	577280	7628586	View looking northeast along north side of USAF Landfill
4	P415_7857	4,312	15/08/18	577280	7628583	View looking southeast along west side of USAF Landfill
5	P415_7858	4,342	15/08/18	577318	7628605	View looking northeast across east cover of USAF Landfill
6	P415_7859	4,271	15/08/18	577316	7628604	View looking southwest across west cover of USAF Landfill
7	P415_7860	4,327	15/08/18	577325	7628615	View looking southeast at partially infilled crack on cover of USAF Landfill - FEATURE B (new)
8	P415_7861	4,408	15/08/18	577331	7628609	View looking northwest at partially infilled crack on cover of USAF Landfill - FEATURE B (new)
9	P415_7862	4,334	15/08/18	577328	7628612	View of partially infilled crack on cover of USAF Landfill - FEATURE B (new)
10	P415_7863	4,291	15/08/18	577341	7628626	View looking southwest along north side of USAF Landfill
11	P415_7864	4,418	15/08/18	577341	7628624	View looking southeast along east side of USAF Landfill
12	P415_7865	4,384	15/08/18	577352	7628626	View looking southeast along east toe of USAF Landfill
13	P415_7866	4,426	15/08/18	577355	7628610	View looking southeast along south toe of USAF Landfill
14	P415_7869	1,191	15/08/18	577323	7628570	Panoramic view looking west to northeast at south side of USAF Landfill
15	P415_7870	4,060	15/08/18	577322	7628585	View looking southwest at seepage/wetted area on south toe of USAF Landfill - FEATURE A
16	P415_7871	4,270	15/08/18	577302	7628571	View looking northeast at seepage/wetted area on south toe of USAF Landfill - FEATURE A
17	P415_7872	4,196	15/08/18	577316	7628564	View looking north-northwest at wetted area on south toe of USAF Landfill - FEATURE A
18	P415_7873	4,412	15/08/18	577304	7628615	View looking southeast across cover from north side of USAF Landfill
Soil Sampling						
S18	P415_7878	4,401	15/08/18	577300	7628618	Sample location P415-18A/B located upgradient of USAF Landfill
S18-1	P415_7879	4,380	15/08/18	577298	7628622	View looking southeast at sample location P415-18A/B
S19	P415_7867	4,374	15/08/18	577358	7628598	Sample location P415-19A/B located downgradient of USAF Landfill
S19-1	P415_7868	4,407	15/08/18	577360	7628597	View looking northwest at sample location P415-19A/B
S20	P415_7874	4,419	15/08/18	577327	7628572	Sample location P415-20A/B located downgradient of USAF Landfill
S20-1	P415_7875	4,297	15/08/18	577330	7628570	View looking northwest at sample location P415-20A/B
S21	P415_7876	4,389	15/08/18	577298	7628554	Sample location P415-21A/B located downgradient of USAF Landfill
S21-1	P415_7877	4,306	15/08/18	577299	7628550	View looking northwest at sample location P415-21A/B

7.5 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 USAF Landfill samples are presented in Table XXIV hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XXIV: USAF Landfill Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters												
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]	F1	F2	F3
													C ₆ -C ₁₀ [mg/kg]	C ₁₀ -C ₁₆ [mg/kg]	C ₁₆ -C ₃₀ [mg/kg]
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40
Upgradient Soil Samples															
P415-18A	P4-18	0-15	4.7	0.02	10.5	4.0	7.3	9.9	9.1	4	0.01	<0.05	<10	<40	<40
P415-18B		40-50	4.3	0.02	10.4	4.0	7.9	30.9	8.8	5	0.01	<0.05	<10	<40	<40
Downgradient Soil Samples															
P415-19A	P4-19	0-15	3.9	0.04	11.2	5.4	10.5	12.8	13.9	8	0.01	<0.05	<10	<40	<40
P415-19B		40-50	3.8	0.02	13.3	5.6	12.9	8.4	17.5	6	0.01	<0.05	<10	<40	<40
P415-20A	P4-20	0-15	4.0	0.05	12.5	5.2	10.7	9.5	14.1	10	0.01	<0.05	<10	<40	<40
P415-20B		40-50	3.3	0.02	10.5	4.2	8.0	7.1	11.9	6	0.01	<0.05	<10	<40	<40
P415-21A	P4-21	0-15	3.6	0.03	11.9	5.0	9.8	8.0	14.3	7	0.01	<0.05	<10	<40	<40
P415-BD4 (Intra-Lab Blind Duplicate)		0-15	3.7	0.03	12.4	5.4	10.8	8.4	13.8	8	0.01	<0.05	<10	<40	<40
P415-21A (Inter-Lab Blind Duplicate)		0-15	3.1	<0.05	12	4.9	11.0	8.3	13	<10	<0.05	<0.01	<10	<50	<50
Average Value for P415-21A Sample		0-15	3.5 ± 0.3	0.03 ± 0.00	12.1 ± 0.3	5.1 ± 0.3	10.5 ± 0.6	8.2 ± 0.2	13.7 ± 0.6	8 ± 1	0.01 ± 0.00	--	--	--	--
P415-21B		40-50	4.0	0.03	12.5	6.1	11.4	8.7	16.0	7	0.01	<0.05	<10	<40	<40

8 TIER II DISPOSAL FACILITY

8.1 SUMMARY

The 2015 monitoring of the Tier II Disposal Facility conducted on August 17, 2015 consisted of a visual inspection to identify areas of erosion and, as per the TOR, the collection of soil and groundwater samples, as well as thermal monitoring.

No PCB was detected in any of the soil samples collected. Detectable concentrations of TPH (PHC F3 Fraction) were noted in the depth sample collected at down gradient location MW-2 (80 mg/kg). Depth sample collected at MW-2 also showed elevated levels of copper (70.1 mg/kg), nickel (42.0 mg/kg) and zinc (69 mg/kg).

No PCB, TPH or relatively high metal concentrations were detected at any of the wells sampled.

All thermistors at the Tier II Soil Disposal Facility were inspected and found to be in good condition with no significant concerns identified. Data from all thermistors was successfully retrieved with the exception of VT-2, which was re-installed following off-site repair during the 2014-2015 monitoring period. As of the 2015 monitoring event, no features were identified with “significant” or “unacceptable” severity ratings. Indications of minor settlement were noted at three locations on the Tier II Disposal Facility, including one existing localized depressions on the southeast corner (Feature A) and one small linear type feature on the west crest (Feature B). Both features appear consistent with the previous 2014 assessment. One new area of settlement (Feature E) was noted on the east crest, consisting of an oval and linear-type depression. Evidence of minor surface erosion was noted at a single location on the east crest and upper slope (Feature C). New minor staining (Feature F) was also noted at the southeast toe. A moderate sized area of ponded water was noted in a low lying area adjacent to the southeast corner of the facility. No exposed debris were noted. There was a notable increase in width of the wetted area around the southeast toe (Feature D) from 5 m to 20 m from the previous 2014 assessment. The increase appears to be attributed to variations in seasonal precipitations. Ponding within the undisturbed vegetated area beyond the immediate toe appears consistent with pre-construction and recent assessment (2013 & 2014) observations.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table XXV of this report and has been completed as per the TOR. Please refer to Figure PIN-4.7 for a sketch of the Tier II Disposal Facility detailing the location of photographs and erosional features.

Table XXV: Visual Inspection Checklist - Tier II Disposal Facility

**DEW Line Cleanup: Post-construction - Landfill Monitoring
Visual Inspection Checklist**

Inspection Report - Page 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: Tier II Disposal Facility (New Landfill)
DATE OF INSPECTION: August 17, 2015
DATE OF PREVIOUS INSPECTION: August 13, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT NUMBER: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE XXV: TIER II DISPOSAL FACILITY VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	Yes	FEATURE A See Figure PIN-4.7 (SE corner)	1.5 m	2 m	0.1 m	Isolated	Minor depression	Tier II-14, 15	Acceptable	Single depression below crest on southeast corner. Slope appears stable. No change from 2014 assessment.
		FEATURE B See Figure PIN-4.7 (W crest)	0.5 m	0.15 m	0.05 m	Isolated	Linear depression	Tier II-20, 31	Acceptable	Single depression on W crest. Slope appears stable. No change from 2014 assessment..
		FEATURE E See Figure PIN-4.7 (E crest) - New Obs.	0.6 - 1 m	0.2 - 0.5 m	0.05 - 0.1 m	Isolated	Oval and linear depressions	Tier II-8-10	Acceptable	Two depressions on and just below E crest. Slope appears stable. New observation.
Erosion	Yes	FEATURE C See Figure PIN-4.7 (E crest/slope)	8 m	0.1 - 0.2 m	up to 0.05 m	Isolated	Minor erosion	Tier II-43-45	Acceptable	Self armouring. Slope appears stable. Increase in length from 2014 assessment.
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	Yes	See Figure PIN-4.7 and Photographic Record	N/A	N/A	N/A	Isolated	Sparse vegetation on cover	Tier II-10, 11, 27, 28	N/A	No significant change from past observation.
Staining	Yes	FEATURE F See Figure PIN-4.7 (SE toe) - New Obs	1.5 m	0.3 m	Unknown	Isolated	Rust coloured staining	Tier II-41, 42	Acceptable	Minor staining and non-hydrocarbon sheen in ponded water at southeast toe. Not noted during 2014 assessment.
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	Yes	N/A	N/A	N/A	N/A	N/A	VT-1, 2, 3, 4 MW-1, 2, 3, 4	Tier II - 26, 17, 18, 9 MW1, MW2, MW3, MW4	Acceptable	N/A
Other Features of Note:	Yes	See Figure PIN-4.7 and Photographic Record	2 - 5 m	0.3 - 0.5 m	0.1 - 0.15 m	N/A	Ridges and depressions on cover	Tier II-13, 16, 23	Acceptable	Possible construction artifact (rough grading of landfill cover with organic material). No significant change from past observation.
		FEATURE D See Figure PIN-4.7 and Photographic Record	7 m	20 m	Unknown	N/A	Localized ponding on SE toe	Tier II-39, 40	Acceptable	Localized ponding in low lying area. Notable increase in size from 2014 assessment (5 x 7 m). Increase likely due to variation in seasonal precipitation. Ponding beyond toe is consistent with pre-construction and recent assessment (2013 & 2014) observations.
Additional Photos	Yes	See Figure PIN-4.7 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation, no additional features of note.

8.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for Tier II Disposal Facility has been completed as per the TOR and is included as Table XXVI hereafter.

Table XXVI: Preliminary Stability Assessment – Tier II Disposal Facility

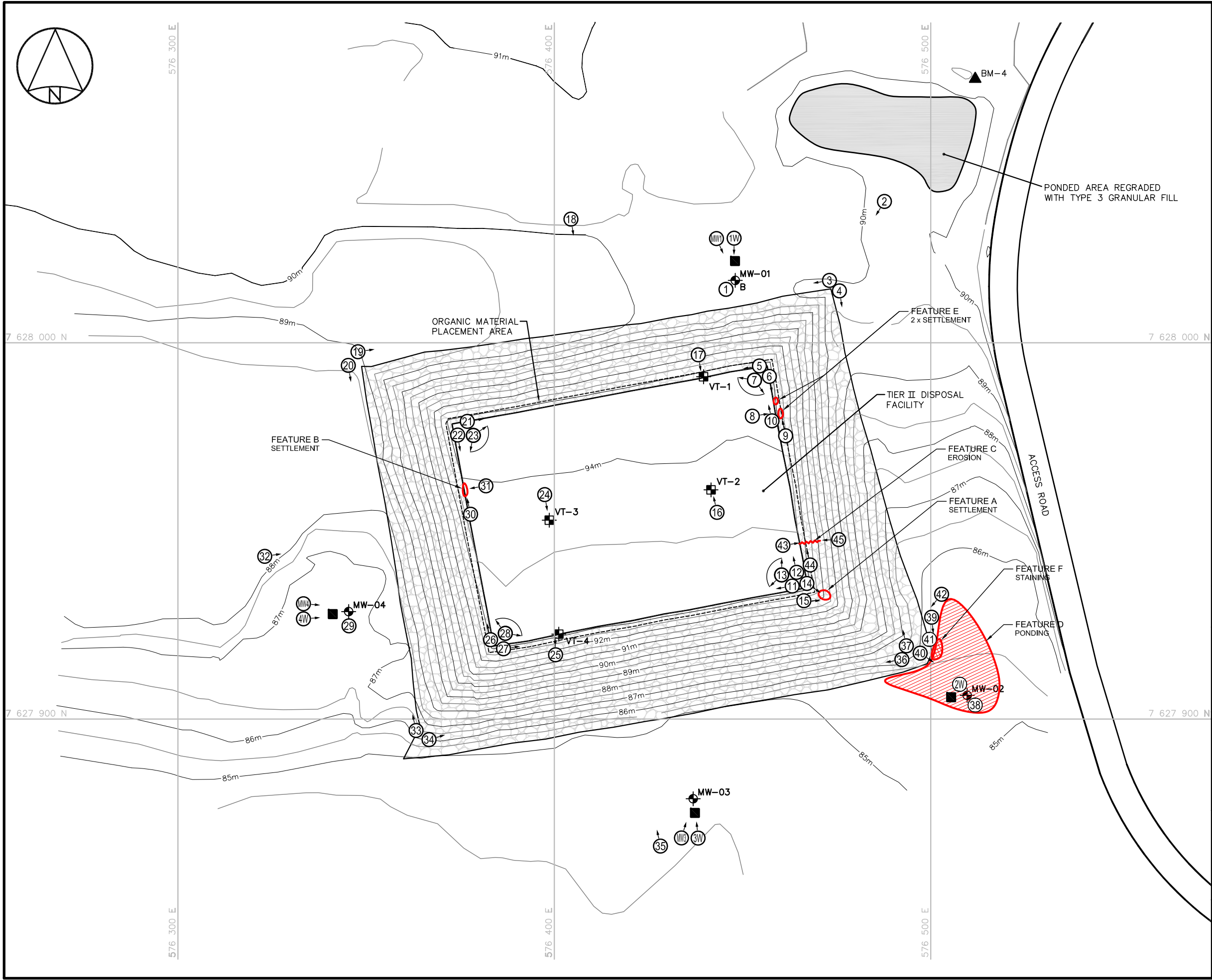
Feature	Severity Rating	Extent
Settlement/Cracks	Acceptable	Isolated
Erosion	Acceptable	Isolated
Frost Action	Not observed	None
Staining	Acceptable	Isolated
Vegetation Stress	Not observed	None
Seepage/Ponded Water	Acceptable	Isolated
Debris Exposure	Not observed	None
Overall Landfill Performance	Acceptable	

Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Debris exposed in erosion channels or areas of differential settlement. Liner exposed. Slope failure.
Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50% of the surface area of the landfill

8.3 LOCATION PLAN

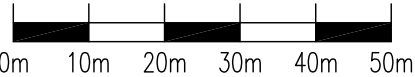
The Location Plan for the Tier II Disposal Facility has been completed as per the TOR and is included in the following page as Figure PIN-4.7.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- BM-4 PERMANENT BENCHMARK LOCATION
- MW-02 MONITORING WELL LOCATION
- MW-01 BACKGROUND MONITORING WELL LOCATION
- B
- VT-1 GROUND TEMPERATURE CABLE LOCATION
- BODY OF WATER
- SETTLEMENT
- PONDING
- STAINING
- EROSION
- 1 APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-16	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



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Défence Construction Canada

COLLECTION OF
LANDFILL MONITORING DATA
PIN-4, BYRON BAY, NUNAVUT
TIER II DISPOSAL FACILITY



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MEASUREMENT UNIT Metre	SCALE: 1 : 1,000	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARÉ	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4G-PL	PAGE PL

FIGURE PIN-4.7

8.4 PHOTOGRAPHIC RECORDS

The Photographic Record for Tier II Disposal Facility has been completed as per the TOR and is included as Table XXVII hereafter. Full-sized photographs are contained in the Addendum DVD-ROM.

Table XXVII: Landfill Visual Inspection Photo Log – Tier II Disposal Facility (page 1 of 2)

Photo (Tier II-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
A3	P415_7542	4,043	15/08/16	576589	7627697	Aerial view looking northwest at Tier II DF
1	P415_7768	4,313	15/08/17	576447	7628015	MW-1
2	P415_7769	4,411	15/08/17	576488	7628037	View looking southwest at north and east sides of Tier II DF
3	P415_7770	4,262	15/08/17	576473	7628016	View looking south along east toe of Tier II DF
4	P415_7771	4,427	15/08/17	576475	7628015	View looking west along north toe of Tier II DF
5	P415_7772	4,340	15/08/17	576455	7627993	View looking south along east crest of Tier II DF
6	P415_7773	4,405	15/08/17	576457	7627992	View looking west along north crest of Tier II DF
7	P415_7774	1,516	15/08/17	576454	7627991	Panoramic view looking southeast to west from northeast corner of Tier II DF
8	P415_7775	4,284	15/08/17	576456	7627981	View looking east at depression 1 m below crest on east side of Tier II DF - FEATURE E (new)
9	P415_7776	4,391	15/08/17	576461	7627978	View looking north at depression 1 m below crest on east side of Tier II DF - FEATURE E (new)
10	P415_7777	4,306	15/08/17	576459	7627981	View looking north at linear depression on east crest of Tier II DF - FEATURE E (new)
11	P415_7778	4444	15/08/17	576464	7627936	View looking west along south crest of Tier II DF
12	P415_7779	4,162	15/08/17	576465	7627937	View looking north along east crest of Tier II DF
13	P415_7780	1,509	15/08/17	576462	7627938	Panoramic view looking southwest to north from northwest corner of Tier II DF
14	P415_7781	4,279	15/08/17	576466	7627936	View looking southeast at depression below crest on southeast corner of Tier II DF - FEATURE A
15	P415_7782	4,299	15/08/17	576466	7627932	View looking east at depression below crest on southeast corner of Tier II DF - FEATURE A
16	P415_7783	4,421	15/08/17	576443	7627956	View looking north at VT-2. VT-1 in background
17	P415_7784	4,161	15/08/17	576439	7627995	View looking south at VT-1, VT-2 in background
18	P415_7787	4,101	15/08/17	576404	7628032	View looking south at north side of Tier II DF
19	P415_7788	4,405	15/08/17	576349	7627997	View looking east along north toe of Tier II DF
20	P415_7789	4,325	15/08/17	576347	7627994	View looking south along west toe of Tier II DF

Table XXVII: Visual Inspection Photo Log – Tier II Disposal Facility (page 2 of 2)

Photo (Tier II-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
21	P415_7790	4,263	15/08/17	576376	7627978	View looking east along north crest of Tier II DF
22	P415_7791	4,408	15/08/17	576375	7627976	View looking south along west crest of Tier II DF
23	P415_7792	1,502	15/08/17	576378	7627976	Panoramic view looking northeast to south from northwest corner of Tier II DF
24	P415_7793	4,275	15/08/17	576397	7627958	View looking south at \VT-2, VT-4 in background
25	P415_7794	4,317	15/08/17	576401	7627918	View looking north at VT-4. VT-3 in background
26	P415_7795	4,422	15/08/17	576384	7627921	View looking north along west crest of Tier II DF
27	P415_7796	4,365	15/08/17	576386	7627920	View looking east along south crest of Tier II DF
28	P415_7797	1,509	15/08/17	576387	7627922	Panoramic view looking northwest to east from southwest corner of Tier II DF
29	P415_7798	4,372	15/08/17	576346	7627925	MW-4
30	P415_7799	4,396	15/08/17	576378	7627957	View looking north at linear depression along west crest of Tier II DF - FEATURE B
31	P415_7800	4,340	15/08/17	576380	7627962	View looking west at linear depression along west crest of Tier II DF - FEATURE B
32	P415_7803	4,391	15/08/17	576323	7627943	View looking east at west side of Tier II DF
33	P415_7804	4,202	15/08/17	576364	7627897	View looking north along west toe of Tier II DF
34	P415_7805	4,261	15/08/17	576367	7627894	View looking east along south toe of Tier II DF
35	P415_7806	4,448	15/08/17	576428	7627868	View looking north at south side of Tier II DF
36	P415_7809	4,279	15/08/17	576494	7627917	View looking north along east toe of Tier II DF
37	P415_7810	4,336	15/08/17	576495	7627919	View looking northwest at south and east sides of Tier II DF
38	P415_7811	3,960	15/08/17	576511	7627905	MW-2
39	P415_7812	4,327	15/08/17	576500	7627927	View looking south at ponded water around MW-2 southeast of Tier II DF - FEATURE D
40	P415_7813	4,440	15/08/17	576499	7627917	View at ponded water (FEATURE D) and minor staining (FEATURE F -new) at southeast toe of Tier II DF
41	P415_7814	4,308	15/08/17	576500	7627920	Minor iron staining and non-hydrocarbon sheen in ponded water at southeast toe of Tier II DF - FEATURE F (new)
42	P415_7816	4,249	15/08/17	576503	7627932	View looking southwest at iron staining and ponding at southeast toe of Tier II DF - FEATURE F (new)
43	P415_7818	4,401	15/08/17	576463	7627946	View looking east at minor erosion at southeast crest of Tier II DF - FEATURE C
44	P415_7819	4,438	15/08/17	576468	7627942	View looking north at minor erosion at crest near southeast corner of Tier II DF - FEATURE C
45	P415_7820	4,363	15/08/17	576473	7627948	View looking west at minor erosion at southeast crest of Tier II DF - FEATURE C
Soil Sampling						
1W	P415_7785	4,273	15/08/17	576447	7628021	Sampling location P415-1W located upgradient of Tier II DF
MW1	P415_7786	4,363	15/08/17	576447	7628026	View looking south at MW-01 located upgradient of Tier II DF
2W	P415_7817	4,314	15/08/17	576505	7627906	Samples collected at P415-2W located downgradient of Tier II DF
3W	P415_7807	4,313	15/08/17	576438	7627875	Sampling location P415-3W located downgradient of Tier II DF
MW3	P415_7808	4,390	15/08/17	576438	7627870	View looking north at MW-03 located downgradient of Tier II DF
4W	P415_7801	4,425	15/08/17	576341	7627927	Sampling location P415-4W located downgradient of Tier II DF
MW4	P415_7802	4,427	15/08/17	576334	7627926	View looking east at MW-04 located downgradient of Tier II DF

8.5 THERMISTOR ANNUAL MAINTENANCE REPORTS

All thermistors at the Tier II Soil Disposal Facility were inspected and found to be in good condition with no significant concerns identified. Data from all thermistors was successfully retrieved with the exception of VT-2, which was re-installed following off-site repair during the 2014-2015 monitoring period.

Review of the downloaded thermal data identified all analogues/thermocouples to be functioning properly during the 2013/2015 monitoring period.

Internal memories were reset and clocks were synchronized using the Prolog Software. Manual resistive readings were collected from the thermistor strings as per the TOR. Manual readings and inspection results for each thermistor are presented on the Thermistor Annual Maintenance Reports (VT-1 to VT-4) included in this section of the report.

Thermistor Annual Maintenance Report

Contractor Name: Sila Remediation Inc.	Inspection Date: 2015-08-17
Prepared By: A.Passalis	

Thermistor Information

Thermistor Information					
Site Name: PIN-4		Thermistor Location		Tier II Disposal Facility	
Thermistor Number: VT-1		Inclination		Vertical	
Install Date: 13-08-2012		First Date Event		01-08-2012 Last Date Event 2014-08-25	
Coordinates and Elevation N 7627991		E 576439.6		Elev 94.4	
Length of Cable (m) 9.2		Cable Lead Above Ground (m) 2.35		Nodal Points 13	
Datalogger Serial # 12030012			Cable Serial Number TS07060012		

Thermistor Inspection

	Good		Problem/Maintenance
	Yes	No	
Casing	x		
Cover	x		
Data Logger	x		
Cable	x		
Beads	x		
Battery Installation Date	08-2012		
Battery Levels	Main	11.34 V	Aux 13.63 V

Manual Ground Temperature Readings

Bead	ohms	Degrees C
1	13.448	3.9687
2	15.253	1.4524
3	16.405	-0.0166
4	17.012	-0.6898
5	18.18	-2.0647
6	19.11	-3.0219
7	20.05	-4.0019
8	20.95	-4.8683

Bead	ohms	Degrees C
9	21.7	-5.5565
10	22.37	-6.2433
11	22.97	-6.8004
12	23.64	-7.354
13	24.21	-7.6825
-	-	-
-	-	-
-	-	-

Observations and Proposed Maintenance

Clock was 12:55 min slow. Memory at 39%.
Download thermistor data. File: Site_001_VT-1 PIN-4_Aug_17_2015
Reset clock and restart datalogger.

Thermistor Annual Maintenance Report

Contractor Name: Sila Remediation Inc.	Inspection Date: 25/08/2014
Prepared By: A.Passalis	

Thermistor Information

Site Name: PIN-4	Thermistor Location: Tier II Disposal Facility
Thermistor Number: VT-2	Inclination: Vertical
Install Date: 13/08/2012	First Date Event: 01/08/2012 Last Date Event: 25/08/2014
Coordinates and Elevation: N 7627960.9 E 576441.6 Elev 93.9	
Length of Cable (m): 9.2	Cable Lead Above Ground (m): 3.7 Nodal Points: 13
Datalogger Serial #: 07060012	Cable Serial Number: TS07060014

Thermistor Inspection

	Good		Problem/Maintenance
	Yes	No	
Casing	x		
Cover	x		
Data Logger	x		Re-installed
Cable	x		
Beads	x		
Battery Installation Date	2014 (during off-site repair)		
Battery Levels	Main	11.34 V	Aux 13.99 V

Manual Ground Temperature Readings

Bead	ohms	Degrees C
1	10.421	9.0521
2	1-.826	8.3501
3	11.723	6.7268
4	12.698	5.1016
5	14.192	2.8617
6	15.804	0.7244
7	17.017	-0.7740
8	18.117	-1.9978

Bead	ohms	Degrees C
9	19.469	-3.4335
10	19.919	-3.9362
11	21.260	-5.2703
12	22.070	-6.0379
13	23.120	-6.8004
-	-	-
-	-	-
-	-	-

Observations and Proposed Maintenance

Datalogger re-installed after off-site repair/maintenance
All communications verified following installation
Clock reset and datalogger restarted.
Download test File: Site_12_lw_Aug_17_2015

Thermistor Annual Maintenance Report

Contractor Name: Sila Remediation Inc.	Inspection Date: 25/08/2014
Prepared By: A.Passalis	

Thermistor Information

Site Name: PIN-4	Thermistor Location	Tier II Disposal Facility
Thermistor Number: VT-3	Inclination	Vertical
Install Date: 13/08/2012	First Date Event	01/08/2012 Last Date Event 25/08/2014
Coordinates and Elevation	N 7627952.9 E 576398.7	Elev 93.8
Length of Cable (m) 9.2	Cable Lead Above Ground (m) 3.75	Nodal Points 13
Datalogger Serial # 07040011	Cable Serial Number	TS07060021

Thermistor Inspection

	Good		Problem/Maintenance
	Yes	No	
Casing	x		
Cover		x	Lock replaced with version issued in 2014.
Data Logger	x		
Cable	x		
Beads	x		
Battery Installation Date	08-2012		
Battery Levels	Main	11.34 V	Aux 13.26 V

Manual Ground Temperature Readings

Bead	ohms	Degrees C
1	10.995	8.4079
2	10.021	9.3144
3	10.859	8.0087
4	11.604	6.7468
5	13.193	4.3706
6	14.834	2.0301
7	16.42	-0.0166
8	17.429	-1.1796

Bead	ohms	Degrees C
9	18.726	-2.6224
10	19.952	-3.8549
11	20.760	-4.7595
12	21.560	-5.5271
13	22.520	-6.2649
-	-	-
-	-	-
-	-	-

Observations and Proposed Maintenance

Clock was 18:41 min slow. Memory at 39%.
Download thermistor data. File: Site_003_VT-3 PIN-4_Aug_17_2015
Reset clock and restart datalogger.

Thermistor Annual Maintenance Report

Contractor Name: Sila Remediation Inc.	Inspection Date: 2015-08-17
Prepared By: A.Passalis	

Thermistor Information

Site Name: PIN-4	Thermistor Location	Tier II Disposal Facility
Thermistor Number: VT-4	Inclination	Vertical
Install Date: 13-08-2012	First Date Event	01-08-2012 Last Date Event 2014-08-25
Coordinates and Elevation	N 7627922.6	E 576401.2 Elev 93.3
Length of Cable (m) 10.5	Cable Lead Above Ground (m) 4.35	Nodal Points 16
Datalogger Serial # 07060014	Cable Serial Number	TS07040011

Thermistor Inspection

	Good		Problem/Maintenance
	Yes	No	
Casing	x		
Cover	x		
Data Logger	x		
Cable	x		
Beads	x		
Battery Installation Date	08-2012		
Battery Levels	Main	11.34 V	Aux 13.63 V

Manual Ground Temperature Readings

Bead	ohms	Degrees C
1	10.516	8.8934
2	11.041	7.9660
3	11.688	6.8043
4	13.211	3.3331
5	14.682	2.2081
6	16.440	-0.0800
7	17.432	-1.2282
8	18.621	-2.5603

Bead	ohms	Degrees C
9	19.498	-3.4936
10	20.440	-4.4815
11	21.160	-5.2276
12	21.950	-5.9812
13	22.410	-6.5389
14	23.060	-7.1342
15	23.290	-7.5277
16	23.330	-7.7268

Observations and Proposed Maintenance

Clock was 28:58 min slow. Memory at 39%.
Download thermistor data. File: Site_004_VT-4 PIN-4_Aug_17_2015
Reset clock and restart datalogger.

8.6 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 Tier II Disposal Facility samples are presented in Table XXVIII hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XXVIII: Tier II Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters												
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]	F1 C ₆ -C ₁₀ [mg/kg]	F2 C ₁₀ -C ₁₆ [mg/kg]	F3 C ₁₆ -C ₃₄ [mg/kg]
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40
Upgradient Soil Samples															
P415-1WA	MW-01	0-15	2.2	0.02	7.7	5.3	21.7	3.4	8.2	14	<0.01	<0.05	<10	<40	<40
P415-1WB		40-50	2.8	0.03	12.6	9.0	21.7	4.5	17.6	25	0.01	<0.05	<10	<40	<40
Downgradient Soil Samples															
P415-2WA	MW-02	0-15	2.4	0.01	9.4	8.0	45.4	3.7	12.2	20	<0.01	<0.05	<10	<40	<40
P415-2WB		40-50	4.1	0.09	12.9	15.5	70.1	11.3	42.0	69	0.04	<0.05	<10	<40	80
P415-3WA	MW-03	0-15	1.8	<0.01	11.2	6.5	28.9	3.9	11.7	18	<0.01	<0.05	<10	<40	<40
P415-BD1 (Intra-Lab Blind Duplicate)		0-15	3.0	0.03	10.6	6.7	36.4	4.9	12.6	22	<0.01	<0.05	<10	<40	<40
Average Value for P415-3WA Sample		0-15	2.4 ± 0.8	0.03 ± 0.00	10.9 ± 0.4	6.6 ± 0.1	32.7 ± 5.3	4.4 ± 0.7	12.2 ± 0.6	20 ± 3	--	--	--	--	--
P415-3WB		40-50	1.9	0.01	11.4	7.2	30.3	3.6	13.1	18	<0.01	<0.05	<10	<40	<40
P415-3WB (Inter-Lab Blind Duplicate)		40-50	1.2	<0.05	24	5.7	26	3.2	15.0	17	<0.05	<0.01	<10	<50	<50
Average Value for P415-3WB Sample		40-50	1.6 ± 0.5	0.01 ± 0.00	17.7 ± 8.9	6.5 ± 1.1	28 ± 3	3.4 ± 0.3	14.1 ± 1.3	17 ± 1	--	--	--	--	--
P415-4WA	MW-04	0-15	2.5	0.01	9.3	7.5	24.1	3.3	15.6	22	<0.01	<0.05	<10	<40	<40
P415-4WB		40-50	2.4	<0.01	9.1	6.7	27.1	3.8	10.6	14	<0.01	<0.05	<10	<40	<40

8.7 GROUNDWATER SAMPLE ANALYTICAL DATA

The groundwater chemical analysis results and evaluation for the analytical data for the 2015 Tier II Disposal Facility samples are presented in Table XXIX hereafter. Certificates of analyses and results for groundwater samples collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XXIX: Tier II Summary Table for Groundwater Analytical Data

Sample #	Location	Parameters										F1	F2	F3
		As [mg/L]	Cd [mg/L]	Cr [mg/L]	Co [mg/L]	Cu [mg/L]	Pb [mg/L]	Ni [mg/L]	Zn [mg/L]	Hg [mg/L]	PCBs [mg/L]	C ₆ -C ₁₀ [mg/L]	C ₁₀ -C ₁₆ [mg/L]	C ₁₀ -C ₃₄ [mg/L]
Detection Limit		0.0002	0.00001	0.0005	0.0001	0.001	0.0001	0.0005	0.001	0.000005	0.00005	0.1	0.1	0.1
Upgradient Groundwater Sample														
P415-1W	MW-1	<0.001	0.00004	0.0078	0.0008	0.007	<0.0005	0.022	0.03	<0.000005	<0.00005	<0.1	<0.1	<0.1
Downgradient Groundwater Samples														
P415-2W	MW-2	0.0022	0.00002	0.0058	0.011	<0.002	0.0008	0.028	0.234	<0.000010	<0.00005	<0.1	<0.1	<0.1
P415-3W	MW-3	<0.0004	0.00002	0.0081	0.0072	0.01	<0.0002	0.0418	0.062	0.000005	<0.00005	<0.1	<0.1	<0.1
P415-BDW1 (Intra-Lab Blind Duplicate)		0.0004	0.00003	0.0079	0.0072	0.009	<0.0002	0.0401	0.06	<0.000005	<0.00005	<0.1	<0.1	<0.1
P415-3W (Inter-Lab Blind Duplicate)		0.00028	0.000058	0.015	0.0076	0.0095	<0.0002	0.05	0.054	0.0000073	<0.00005	<0.1	<0.1	<0.2
Average Value for P415-3W Sample		0.00034 ± 0.00008	0.00004 ± 0.00002	0.0103 ± 0.0040	0.0073 ± 0.0002	0.009 ± 0.001	--	0.0440 ± 0.0053	0.058 ± 0.004	0.000006 ± 0.000002	--	--	--	--
P415-4W	MW-4	<0.0020	0.00008	0.061	0.005	0.01	<0.0010	0.159	0.98	<0.000005	<0.00005	<0.1	<0.1	<0.1

Exova used dilution factors 1:2 for sample P415-3W and dilution factor 1:10 for sample P415-4W for all metal analyses

8.8 MONITORING WELL SAMPLING / INSPECTION LOGS

The monitoring well sampling logs for MW-1 to MW-4 are presented in this section.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: Tier II Disposal Facility
Monitoring Well ID: MW-1
Sample Number(s) include dups.: P415-1W
Bottles filled (by parameter type): 200 mL/40 mL (Met), 1 L amber (PCBs), 1 L amber/3 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 12:45
Weather: 9C, Overcast, 15-25 km/h NW
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 5
*Depth to top of screen (cm)= 50 Length screened section (cm)= 300
*note: *depths are from ground surface*

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 54
Static water level (cm) from top of pipe = 122
Static water level (cm) (below ground surface) calculated = 68
Measured well refusal depth (cm) (measure after sampling)= 228
Thickness of water column (cm)= 106 Static volume of water in well (mL)= 2147
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: >200 mL/min
Volume Purged (L) (note multiple purging events if applicable): 3.5

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	7.9	8.0	8.0	
Conductivity (uS/cm)	10240	5410	5360	
Turbidity (NTU)	9.17	6.72	5.14	
Temperature (degC)	2.7	3.7	4.0	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required,dedicated tubing
Number washes: N/A Number rinses: N/A

Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters V/S time as per EPA low flow sampling procedures should be appended to this summary.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: Tier II Disposal Facility
Monitoring Well ID: MW-2
Sample Number(s) include dups.: P415-2W
Bottles filled (by parameter type): 200 mL/40 mL (Met), 1 L amber (PCBs), 1 L amber/3 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 15:00
Weather: 9C, Overcast, 15-25 km/h NW
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 4
*Depth to top of screen (cm)= 60 Length screened section (cm)= 300
*note: *depths are from ground surface*

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 43
Static water level (cm) from top of pipe = 62
Static water level (cm) (below ground surface) calculated = 19
Measured well refusal depth (cm) (measure after sampling)= 181
Thickness of water column (cm)= 119 Static volume of water in well (mL)= 1495
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: >200 mL/min
Volume Purged (L) (note multiple purging events if applicable): 2.9

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	7.6	7.4	7.3	
Conductivity (uS/cm)	2110	2560	2610	
Turbidity (NTU)	45.6	29.8	22.6	
Temperature (degC)	4.6	4.0	3.9	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required,dedicated tubing
Number washes: N/A Number rinses: N/A

Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: Tier II Disposal Facility
Monitoring Well ID: MW-3
Sample Number(s) include dups.: P415-3W, P415-BDW1, P415-3W (Maxxam)
Bottles filled (by parameter type): 3x200 mL/40 mL (Met), 3x1 L amber (PCBs), 3x1 L amber/9 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 13:55
Weather: 9C, Overcast, 15-25 km/h NW
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Good condition, well located in ponded area extending from toe of landfill
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 4
*Depth to top of screen (cm)= 40 Length screened section (cm)= 300
*note: *depths are from ground surface*

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 56
Static water level (cm) from top of pipe = 56
Static water level (cm) (below ground surface) calculated = 0
Measured well refusal depth (cm) (measure after sampling)= 177
Thickness of water column (cm)= 121 Static volume of water in well (mL)= 1520
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: >200 mL/min
Volume Purged (L) (note multiple purging events if applicable): 3.6

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	7.5	7.4	7.3	
Conductivity (uS/cm)	3520	3500	3520	
Turbidity (NTU)	10.1	3.74	3.43	
Temperature (degC)	1.8	1.9	1.9	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required, dedicated tubing
Number washes: N/A Number rinses: N/A
Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

Monitoring Well Sampling Log

Site Name: PIN-4 Landfill Name: Tier II Disposal Facility
Monitoring Well ID: MW-4
Sample Number(s) include dups.: P415-4W
Bottles filled (by parameter type): 200 mL/40 mL (Met), 1 L amber (PCBs), 1 L amber/3 x 40 mL (PHCs)
Date of Sampling Event: 18/08/2015 Time: 13:20
Weather: 9C, Overcast, 15-25 km/h NW
Names of Samplers: A.Passalis
Description of Well Condition and Surrounding ground conditions (note ponding of water):
Good condition, no ponding.
Lock (condition, presence, model, manufacturer): Good, KA1

Pre-Measured Data (From Water Well Record Log)

*Depth of well installation (cm)= 450 Diameter of well (cm)= 4
*Depth to top of screen (cm)= 50 Length screened section (cm)= 300
*note: *depths are from ground surface*

Field Measurements

Measurement method (interface probe, tape, etc): Interface
Well pipe height above ground (cm) (to top of pipe)= 38
Static water level (cm) from top of pipe = 74
Static water level (cm) (below ground surface) calculated = 36
Measured well refusal depth (cm) (measure after sampling)= 229
Thickness of water column (cm)= 155 Static volume of water in well (mL)= 1947
Free product thickness (mm)= 0 Evidence of sludge or siltation: No

Purging Information Summary*

Purging/sampling equipment, sampling technique and equipment calibration information: Peristaltic pump with dedicated 1/4" LDPE tubing, multimeter, turbidimeter with daily calibration check
Well purged (Y/N): Y Recharge Rate: >200 mL/min
Volume Purged (L) (note multiple purging events if applicable): 3.6

Parameter	Initial	Stabilized	Final	Notes (if not stabilized)
pH	7.6	7.8	7.7	
Conductivity (uS/cm)	19790	1385	1384	
Turbidity (NTU)	17.1	31.2	20.9	
Temperature (degC)	4.9	5.1	5.3	

Visual/olfactory observations (incl. colour, odour, presence of free product/sheen/globules, siltation...): Clear, colourless, odourless

Decontamination of sampling equipment

Type of decontamination fluid (s): None required,dedicated tubing
Number washes: N/A Number rinses: N/A

Other Relevant Comments:

* Complete field notes including full suite of water quality indicator parameters VS time as per EPA low flow sampling procedures should be appended to this summary.

9 AIRSTRIP LANDFILL

9.1 SUMMARY

On August 17, 2015 a visual inspection was completed at the Airstrip Landfill. Soil sampling was completed at five stations located upgradient and downgradient of the landfill.

No PCB or elevated levels of metals were detected in any soil samples collected. TPH (Fraction F3) was detected in the surface sample at P4-23 (133 mg/kg).

As of the 2015 monitoring event, no features were identified with “significant” or “unacceptable” severity ratings. Isolated areas of minor settlement and erosion were noted on the northeast cover (Feature A) and east side (Feature B) of the Airstrip Landfill. A marginal increase was observed in the size of the settlement feature on the northeast cover (Feature A), increase from 1.0 m to 1.3 m in length and from 0.3 m to 0.6 m in width from the 2014 assessment. One of the tension cracks observed in 2014 (Feature C) was completely infilled. The second crack noted in 2014 was not observed in 2015. Newly observed localized ponding at the southwest and southeast margins of the landfill were also noted in 2015 (Feature D). A sheen was observed on the southwest ponded area. It was not associated with petroleum hydrocarbons.

At this time, the overall performance of the landfill is rated as acceptable.

The Visual Inspection Checklist is included in Table XXX of this report and has been completed as per the TOR. Please refer to Figure PIN-4.8 for a sketch of the Airstrip Landfill detailing the location of photographs and erosional features.

Table XXX: Visual Inspection Checklist / Report – Airstrip Landfill

**DEW LINE CLEANUP: POST-CONSTRUCTION – LANDFILL MONITORING
VISUAL INSPECTION CHECKLIST**

INSPECTION REPORT – PAGE 1 of 2

SITE NAME: PIN-4 Byron Bay
LANDFILL DESIGNATION: Airstrip Landfill (Regrade Landfill)
DATE OF INSPECTION: August 17, 2015
DATE OF PREVIOUS INSPECTION: August 13, 2014
INSPECTED BY: A. Passalis
REPORT PREPARED BY: A. Passalis
MONITORING EVENT NUMBER: 3
The inspector/reporter represents to the best of his/her knowledge that the following statements and observations are true and correct and to the best of the preparer's actual knowledge, no material facts have been suppressed or misstated.

TABLE XXX: AIRSTRIP LANDFILL VISUAL INSPECTION (PAGE 2 OF 2)

Checklist Item	Present (Yes/No)	Location	Length	Width	Depth	Extent	Description	Photographic Record	Severity Rating	Additional Comments
Settlement	Yes	FEATURE A See Figure PIN-4.8 (NE cover)	1.3 m	0.6 m	0.15 - 0.2 m	Isolated	Minor depression	ALF-16, 17	Acceptable	Subtle depression on cover. Marginal increase in length from 1 m to 1.3 m and width from 0.3 m to 0.6 m from 2014 assessment.
Erosion	Yes	FEATURE B See Figure PIN-4.8 (E side slope)	7 m	0.1 m	0.02-0.05 m	Isolated	Minor erosion	ALF-20, 21	Acceptable	Self armouring. No significant change noted from 2014 assessment.
Frost Action	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Animal Burrows	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation	Yes	See Figure PIN-4.8 and Photographic Record	N/A	N/A	N/A	20%	Sparse vegetation on cover and side slopes	ALF-8, 11	Acceptable	Notable increase in vegetation growth from previous assessment.
Staining	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Vegetation Stress	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Seepage Points	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Debris Exposed	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Presence/Condition of Monitoring Instruments	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Observable	N/A
Other Features of Note:	Yes	FEATURE C See Figure PIN-4.8 (E side)	3 m	1 - 3 mm	Unknown	Isolated	Tension crack	ALF-18, 19	Acceptable	Tension crack completely infilled. Second crack noted in 2014 not observed.
		FEATURE D See Figure PIN-4.8 (SW and SE of Landfill) New Obs.	6 - 14 m	1 - 4 m	Unknown	Occasional	Ponding	ALF-5, 6, 14, 15	Acceptable	Localized ponding at margins of landfill. Non-hydrocarbon sheen observed in ponded area southwest of landfill. New observation
Additional Photos	Yes	See Figure PIN-4.8 and Photographic Record	N/A	N/A	N/A	N/A	General Photographic Record	N/A	Not Observable	General photos for documentation, no additional features of note.
Overall Landfill Performance:	Acceptable									

9.2 PRELIMINARY STABILITY ASSESSMENT

The Preliminary Stability Assessment for Airstrip Landfill has been completed as per the TOR and is included as Table XXXI hereafter.

Table XXXI: Preliminary Stability Assessment – Airstrip Landfill

Feature	Severity Rating	Extent
Settlement/Cracks	Acceptable	Occasional
Erosion	Acceptable	Isolated
Frost Action	Not observed	None
Staining	Not observed	None
Vegetation Stress	Acceptable	Occasional
Seepage/Ponded Water	Acceptable	Occasional
Debris exposure	Not observed	None
Overall Landfill Performance	Acceptable	

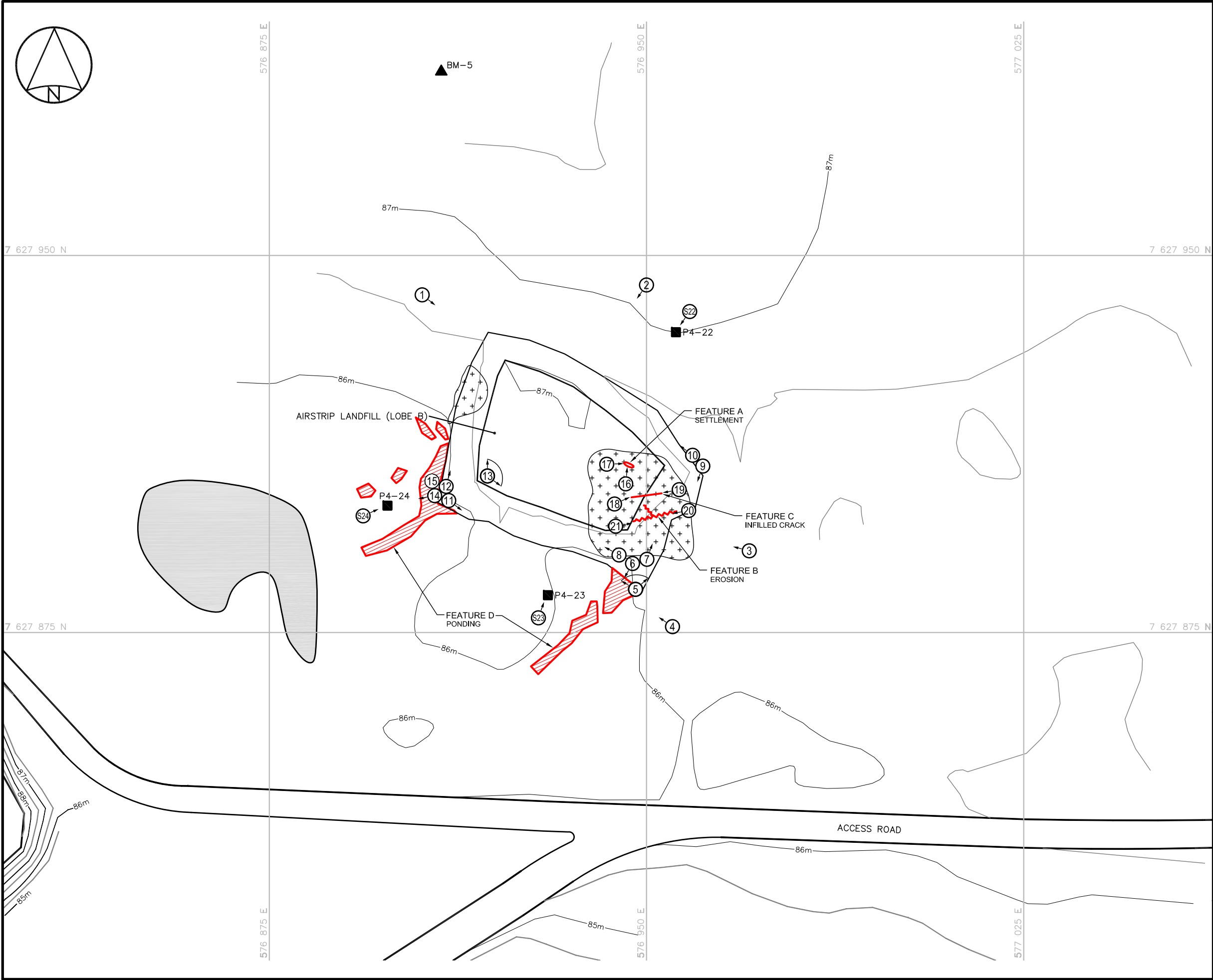
Performance/ Severity Rating	Description
Acceptable	Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on landfill stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting landfill stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of landfill is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Debris exposed in erosion channels or areas of differential settlement. Liner exposed. Slope failure.

Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the landfill
Extensive	Impacting greater than 50% of the surface area of the landfill

9.3 LOCATION PLAN

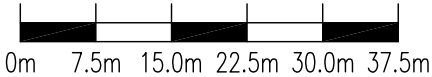
The Location Plan for the Airstrip Landfill has been completed as per the TOR and is presented in Figure PIN-4.8.

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LEGEND

- MONITORING SOIL SAMPLE LOCATION
- ▲ BM-5 PERMANENT BENCHMARK LOCATION
- ☾ BODY OF WATER
- SETTLEMENT
- ⊕ SPARSE VEGETATION
- ◌ PONDING
- CRACK
- ~ EROSION
- ① APPROX. PHOTOGRAPHIC VIEWPOINT



1	FINAL	16-03-16	P.L.	A.P.	M.F.
NO.	VERSION	DATE	PAR	VERIF.	APPR.



Construction de Défense Canada
Défence Construction Canada

COLLECTION OF LANDFILL MONITORING DATA PIN-4, BYRON BAY, NUNAVUT

AIRSTRIP LANDFILL



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MEASUREMENT UNIT Metre	SCALE: 1 : 750	DATE (month-year): MARCH 2016
DRAWN BY: P. LÉGARE	VERIFIED BY: A. PASSALIS P. ENG	APPROVED BY: M. FLEURY P. ENG
PROJECT NO: CD3654_410_413	DRAWING NO: CD3654_410_413-PIN-4H-PL	PAGE PL

FIGURE PIN-4.8

9.4 PHOTOGRAPHIC RECORDS

The Photographic Record for Airstrip Landfill has been completed as per the TOR and is included as Table XXXII hereafter. Full-sized photographs are contained in the Addendum DVD-ROM.

Table XXXII: Landfill Visual Inspection Photo Log – Airstrip Landfill

Photo (ALF-)	Filename	Size (KB)	Date	Vantage Point		Caption
				Easting	Northing	
1	P415_7826	3,914	15/08/18	576905	7627941	View looking southeast at north and west sides of Airstrip Landfill
2	P415_7827	4,235	15/08/18	576951	7627943	View looking southwest at north side of Airstrip Landfill
3	P415_7828	4,114	15/08/18	576970	7627891	View looking west at east side of Airstrip Landfill
4	P415_7829	4,034	15/08/18	576954	7627876	View northwest at ponding on southeast corner of Airstrip Landfill
5	P415_7830	1,457	15/08/18	576948	7627884	Panoramic view looking west to north from southeast corner of Airstrip Landfill
6	P415_7831	4,336	15/08/18	576947	7627888	View looking south at ponded water bordering the southeast corner of Airstrip Landfill - FEATURE F
7	P415_7832	4,306	15/08/18	576950	7627890	View looking north along east side of Airstrip Landfill
8	P415_7833	4,355	15/08/18	576946	7627890	View looking northwest along south side of Airstrip Landfill
9	P415_7834	4,282	15/08/18	576961	7627907	View looking south along east side of Airstrip Landfill
10	P415_7835	4,293	15/08/18	576959	7627910	View looking northwest along north side of Airstrip Landfill
11	P415_7838	4,298	15/08/18	576910	7627902	View looking southeast along south side of Airstrip Landfill
12	P415_7839	4,371	15/08/18	576910	7627903	View looking north along west side of Airstrip Landfill
13	P415_7840	1,469	15/08/18	576918	7627905	Panoramic view looking north to southeast from southwest corner of Airstrip Landfill
14	P415_7841	4,262	15/08/18	576908	7627903	View looking southwest at soil sample location P415-24A/B. Note ponding on southeast toe - FEATURE F
15	P415_7847	4,319	15/08/18	576908	7627904	Non-hydrocarbon sheen located in ponded area adjacent to southwest corner of Airstrip Landfill - FEATURE D (new)
16	P415_7848	4,374	15/08/18	576946	7627905	View looking north at linear depression on northeast cover of Airstrip Landfill - FEATURE A
17	P415_7849	4,443	15/08/18	576944	7627908	View looking east at linear depression on northeast cover of Airstrip Landfill - FEATURE A
18	P415_7850	4,291	15/08/18	576945	7627901	View looking northeast at completely infilled tension crack on east side of Airstrip Landfill - FEATURE C
19	P415_7851	4,337	15/08/18	576955	7627903	View looking southwest at completely infilled tension crack on east side of Airstrip Landfill - FEATURE C
20	P415_7852	4,302	15/08/18	576945	7627896	View looking southwest at minor erosion on east side of Airstrip Landfill - FEATURE B
21	P415_7853	4,401	15/08/18	576958	7627899	View looking northeast at minor erosion on east side of Airstrip Landfill - FEATURE B
Soil Sampling						
	P415_7836	4,338	15/08/18	576956	7627935	Sample location P415-22A/B located downgradient of Airstrip Landfill
S22	P415_7837	4,308	15/08/18	576958	7627938	View looking southwest at sample location P415-22A/B
	P415_7842	4,286	15/08/18	576930	7627882	Sample location P415-23A/B located downgradient of Airstrip Landfill
S23	P415_7843	4,295	15/08/18	576929	7627879	View looking northeast at sample location P415-23A/B
	P415_7845	4,452	15/08/18	576898	7627900	Sample location P415-24A/B located downgradient of Airstrip Landfill
S24	P415_7846	4,291	15/08/18	576895	7627899	View looking northeast at sample location P415-24A/B

9.5 SOIL SAMPLE ANALYTICAL DATA

The soil chemical analysis results for the 2015 Airstrip Landfill samples are presented in Table XXXIII hereafter. Certificates of analyses and results of field duplicates collected as part of the QA/QC program are respectively presented in Annexes 1 and 2 at the end of this report.

Table XXXIII: Airstrip Landfill Summary Table for Soil Analytical Data

Sample #	Location	Depth (cm)	Parameters												F1	F2	F3
			As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]	C ₆ -C ₁₀ [mg/kg]	C ₁₀ -C ₁₆ [mg/kg]	C ₁₆ -C ₃ [mg/kg]		
Detection Limit			0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40		
Upgradient Soil Samples																	
P415-22A	P4-22	0-15	1.5	0.35	5.4	3.0	25.2	3.6	6.4	31	0.08	<0.05	<10	<40	<40		
P415-22B		40-50	3.0	0.05	10.4	5.8	18.2	4.6	10.1	13	0.01	<0.05	<10	<40	<40		
Downgradient Soil Samples																	
P415-23A	P4-23	0-15	1.1	0.2	3.2	3.0	21.9	1.8	11.0	7	0.05	<0.05	<10	<40	133		
P415-23B		40-50	1.6	0.05	12.6	5.0	25.3	4.0	12.6	14	<0.01	<0.05	<10	<40	<40		
P415-BD7 (Intra-Lab Blind Duplicate)		40-50	1.6	0.07	11.7	4.7	29	3.7	14	14	<0.01	<0.05	<10	<40	<40		
P415-23B (Inter-Lab Blind Duplicate)		40-50	<1	0.051	12	4.5	26	3.5	11	15	<0.05	<0.01	<10	<50	<50		
Average Value for P415-213B Sample		40-50	1.6 ± 0.0	0.05 ± 0.01	12.1 ± 0.5	4.7 ± 0.3	26 ± 2	3.7 ± 0.3	13 ± 2	14 ± 1	--	--	--	--	--		
P415-24A	P4-24	0-15	1.9	0.01	12.2	7.2	16.8	3.8	12.7	16	<0.01	<0.05	<10	<40	<40		
P415-24B		40-50	2.3	0.02	12.9	7.2	21.0	4.1	13.3	18	<0.01	<0.05	<10	<40	<40		

ANNEX 1

Laboratory Results

Your Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY
Your C.O.C. #: G102365

Attention: ANDREW PASSALIS

EnGlobe Corp
QUEBEC
1260, boul. Lebourgneuf Blvd
bureau/suite 250
Québec, QC
CANADA G2K 2G2

Report Date: 2015/10/15
Report #: R2058309
Version: 2R

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B577696

Received: 2015/09/04, 18:55

Sample Matrix: Soil
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/F1 by HS GC/MS/FID (MeOH extract)	7	2015/09/06	2015/09/12	AB SOP-00039	CCME CWS/EPA 8260c m
BTEX/F1 by HS GC/MS/FID (MeOH extract)	1	2015/09/09	2015/09/12	AB SOP-00039	CCME CWS/EPA 8260c m
CCME Hydrocarbons (F2-F4 in soil) (1)	7	2015/09/08	2015/09/10	AB SOP-00036 / AB SOP-00040	CCME PHC-CWS
CCME Hydrocarbons (F2-F4 in soil) (1)	1	2015/09/09	2015/09/10	AB SOP-00036 / AB SOP-00040	CCME PHC-CWS
Elements by ICPMS - Soils	7	2015/09/10	2015/09/11	AB SOP-00001 / AB SOP-00043	EPA 200.8 R5.4 m
Elements by ICPMS - Soils	1	2015/09/11	2015/09/11	AB SOP-00001 / AB SOP-00043	EPA 200.8 R5.4 m
Moisture	7	N/A	2015/09/09	AB SOP-00002	CCME PHC-CWS
Moisture	1	N/A	2015/09/10	AB SOP-00002	CCME PHC-CWS

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/F1 in Water by HS GC/MS/FID	1	N/A	2015/09/08	AB SOP-00039	CCME CWS/EPA 8260c m
CCME Hydrocarbons (F2-F4 in water)	2	2015/09/12	2015/09/13	AB SOP-00037 / AB SOP-00040	CCME PHC-CWS m
Mercury - Low Level (Total)	1	2015/09/09	2015/09/09	CAL SOP-00007	EPA 1631 RE 20460 m
Mercury - Low Level (Total)	1	2015/09/09	2015/09/10	CAL SOP-00007	EPA 1631 RE 20460 m
Elements by ICPMS - Total	2	2015/09/10	2015/09/11	AB SOP-00014 / AB SOP-00043	EPA 200.8 R5.4 m

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

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

(1) All CCME results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Alina Kenstavicius, Project Manager
Email: AKenstavicius@maxxam.ca
Phone# (403) 219-3669

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		NB7352	NB7355	NB7356	NB7357	NB7358	NB7359		
Sampling Date		2015/08/15	2015/08/17	2015/08/17	2015/08/17	2015/08/18	2015/08/17		
COC Number		G102365	G102365	G102365	G102365	G102365	G102365		
	UNITS	P215-2WA	P415-8WA	P415-4A	P415-21A	P415-15A	P415-12A	RDL	QC Batch

Physical Properties									
Moisture	%	19	9.4	9.4	10	13	26	0.30	8031378
Ext. Pet. Hydrocarbon									
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	<10	<10	<10	<10	<10	10	8030910
F3 (C16-C34 Hydrocarbons)	mg/kg	<50	<50	<50	<50	<50	<50	50	8030910
F4 (C34-C50 Hydrocarbons)	mg/kg	<50	<50	<50	<50	<50	<50	50	8030910
Reached Baseline at C50	mg/kg	Yes	Yes	Yes	Yes	Yes	Yes		8030910
Volatiles									
Benzene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8033544
Toluene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8033544
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8033544
Xylenes (Total)	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	8033544
m & p-Xylene	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	8033544
o-Xylene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8033544
F1 (C6-C10) - BTEX	mg/kg	<12	<12	<12	<12	<12	<12	12	8033544
F1 (C6-C10)	mg/kg	<12	<12	<12	<12	<12	<12	12	8033544
Surrogate Recovery (%)									
1,4-Difluorobenzene (sur.)	%	104	100	95	97	108	93		8033544
4-Bromofluorobenzene (sur.)	%	103	102	94	106	100	98		8033544
D10-ETHYLBENZENE (sur.)	%	117	127	114	124	123	108		8033544
D4-1,2-Dichloroethane (sur.)	%	109	111	105	17 (1)	119	11 (1)		8033544
O-TERPHENYL (sur.)	%	102	99	102	98	99	96		8030910

RDL = Reportable Detection Limit

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

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

AT1 BTEX AND F1-F4 IN SOIL (SOIL)

Maxxam ID		NB7360		NB7362		
Sampling Date		2015/08/17		2015/08/17		
COC Number		G102365		G102365		
	UNITS	P415-23B	QC Batch	P415-3WB	RDL	QC Batch
Physical Properties						
Moisture	%	24	8031378	11	0.30	8032649
Ext. Pet. Hydrocarbon						
F2 (C10-C16 Hydrocarbons)	mg/kg	<10	8030910	<10	10	8032413
F3 (C16-C34 Hydrocarbons)	mg/kg	66	8030910	<50	50	8032413
F4 (C34-C50 Hydrocarbons)	mg/kg	<50	8030910	<50	50	8032413
Reached Baseline at C50	mg/kg	Yes	8030910	Yes		8032413
Volatiles						
Benzene	mg/kg	<0.0050	8033544	<0.0050	0.0050	8033544
Toluene	mg/kg	<0.020	8033544	<0.020	0.020	8033544
Ethylbenzene	mg/kg	<0.010	8033544	<0.010	0.010	8033544
Xylenes (Total)	mg/kg	<0.040	8033544	<0.040	0.040	8033544
m & p-Xylene	mg/kg	<0.040	8033544	<0.040	0.040	8033544
o-Xylene	mg/kg	<0.020	8033544	<0.020	0.020	8033544
F1 (C6-C10) - BTEX	mg/kg	<12	8033544	<12	12	8033544
F1 (C6-C10)	mg/kg	<12	8033544	<12	12	8033544
Surrogate Recovery (%)						
1,4-Difluorobenzene (sur.)	%	104	8033544	93		8033544
4-Bromofluorobenzene (sur.)	%	100	8033544	97		8033544
D10-ETHYLBENZENE (sur.)	%	119	8033544	111		8033544
D4-1,2-Dichloroethane (sur.)	%	106	8033544	105		8033544
O-TERPHENYL (sur.)	%	96	8030910	108		8032413
RDL = Reportable Detection Limit						

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

AT1 BTEX AND F1-F4 IN WATER (WATER)

Maxxam ID		NB7353		
Sampling Date		2015/08/15		
COC Number		G102365		
	UNITS	P215-2W	RDL	QC Batch

Ext. Pet. Hydrocarbon				
F2 (C10-C16 Hydrocarbons)	mg/L	<0.10	0.10	8031163
F3 (C16-C34 Hydrocarbons)	mg/L	<0.20	0.20	8031163
F4 (C34-C50 Hydrocarbons)	mg/L	<0.20	0.20	8031163
Volatiles				
Benzene	ug/L	<0.40	0.40	8030280
Toluene	ug/L	<0.40	0.40	8030280
Ethylbenzene	ug/L	<0.40	0.40	8030280
m & p-Xylene	ug/L	<0.80	0.80	8030280
o-Xylene	ug/L	<0.40	0.40	8030280
Xylenes (Total)	ug/L	<0.80	0.80	8030280
F1 (C6-C10) - BTEX	ug/L	<100	100	8030280
F1 (C6-C10)	ug/L	<100	100	8030280
Surrogate Recovery (%)				
1,4-Difluorobenzene (sur.)	%	105		8030280
4-Bromofluorobenzene (sur.)	%	87		8030280
D4-1,2-Dichloroethane (sur.)	%	100		8030280
O-TERPHENYL (sur.)	%	90		8031163
RDL = Reportable Detection Limit				

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

AT1 F2-F4 WATER (WATER)

Maxxam ID		NB7361		
Sampling Date		2015/08/18		
COC Number		G102365		
	UNITS	P415-3W	RDL	QC Batch

Ext. Pet. Hydrocarbon				
F2 (C10-C16 Hydrocarbons)	mg/L	<0.10	0.10	8031163
F3 (C16-C34 Hydrocarbons)	mg/L	<0.20	0.20	8031163
F4 (C34-C50 Hydrocarbons)	mg/L	<0.20	0.20	8031163
Surrogate Recovery (%)				
O-TERPHENYL (sur.)	%	89		8031163
RDL = Reportable Detection Limit				

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		NB7352	NB7355	NB7356	NB7357	NB7358		NB7359		
Sampling Date		2015/08/15	2015/08/17	2015/08/17	2015/08/17	2015/08/18		2015/08/17		
COC Number		G102365	G102365	G102365	G102365	G102365		G102365		
	UNITS	P215-2WA	P415-8WA	P415-4A	P415-21A	P415-15A	RDL	P415-12A	RDL	QC Batch

Elements										
Total Arsenic (As)	mg/kg	2.7	3.6	3.0	3.1	3.2	1.0	2.5	2.0	8033634
Total Cadmium (Cd)	mg/kg	0.087	0.071	<0.050	<0.050	<0.050	0.050	0.11	0.10	8033634
Total Chromium (Cr)	mg/kg	4.9	14	16	12	13	1.0	5.5	2.0	8033634
Total Cobalt (Co)	mg/kg	1.8	4.8	3.3	4.9	4.9	0.50	2.4	1.0	8033634
Total Copper (Cu)	mg/kg	5.6	14	10	11	18	1.0	9.8	2.0	8033634
Total Lead (Pb)	mg/kg	2.4	17	15	8.3	11	0.50	6.2	1.0	8033634
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	<0.10	0.10	8033634
Total Nickel (Ni)	mg/kg	4.4	12	9.9	13	10	1.0	5.5	2.0	8033634
Total Zinc (Zn)	mg/kg	14	17	<10	<10	<10	10	<20	20	8033634

RDL = Reportable Detection Limit

Maxxam ID		NB7360		NB7362		
Sampling Date		2015/08/17		2015/08/17		
COC Number		G102365		G102365		
	UNITS	P415-23B	QC Batch	P415-3WB	RDL	QC Batch

Elements						
Total Arsenic (As)	mg/kg	<1.0	8033634	1.2	1.0	8034327
Total Cadmium (Cd)	mg/kg	0.051	8033634	<0.050	0.050	8034327
Total Chromium (Cr)	mg/kg	12	8033634	24	1.0	8034327
Total Cobalt (Co)	mg/kg	4.5	8033634	5.7	0.50	8034327
Total Copper (Cu)	mg/kg	26	8033634	26	1.0	8034327
Total Lead (Pb)	mg/kg	3.5	8033634	3.2	0.50	8034327
Total Mercury (Hg)	mg/kg	<0.050	8033634	<0.050	0.050	8034327
Total Nickel (Ni)	mg/kg	11	8033634	15	1.0	8034327
Total Zinc (Zn)	mg/kg	15	8033634	17	10	8034327

RDL = Reportable Detection Limit

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		NB7353	NB7361		
Sampling Date		2015/08/15	2015/08/18		
COC Number		G102365	G102365		
	UNITS	P215-2W	P415-3W	RDL	QC Batch

Elements					
Total Arsenic (As)	mg/L	0.00086	0.00028	0.00020	8032674
Total Cadmium (Cd)	mg/L	0.00018	0.000058	0.000020	8032674
Total Chromium (Cr)	mg/L	0.0090	0.015	0.0010	8032674
Total Cobalt (Co)	mg/L	<0.00030	0.0076	0.00030	8032674
Total Copper (Cu)	mg/L	0.0015	0.0095	0.00020	8032674
Total Lead (Pb)	mg/L	0.00024	<0.00020	0.00020	8032674
Total Nickel (Ni)	mg/L	0.0051	0.050	0.00050	8032674
Total Zinc (Zn)	mg/L	0.0093	0.054	0.0030	8032674
Low Level Elements					
Total Mercury (Hg)	ug/L	<0.0020	0.0073	0.0020	8031761

RDL = Reportable Detection Limit

Maxxam Job #: B577696
Report Date: 2015/10/15

EnGlobe Corp
Client Project #: PIN-2/PIN-4
Site Location: CAPE YOUNG/ BYRON BAY

Package 1	4.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

PCB results are attached to this report file. The reference number from Maxxam Mississauga for these results is B5I1712.

All soil samples were extracted for BTEXF1-F4 past method-specified hold time at client request.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample NB7359-01 Elements by ICPMS - Soils: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly

Results relate only to the items tested.

EnGlobe Corp
Attention: ANDREW PASSALIS
Client Project #: PIN-2/PIN-4
P.O. #:
Site Location: CAPE YOUNG/ BYRON BAY

Quality Assurance Report
Maxxam Job Number: EYKB577696

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
8030280 WZ0	Matrix Spike	1,4-Difluorobenzene (sur.)	2015/09/08		106	%	70 - 130
		4-Bromofluorobenzene (sur.)	2015/09/08		84	%	70 - 130
		D4-1,2-Dichloroethane (sur.)	2015/09/08		100	%	70 - 130
		Benzene	2015/09/08		101	%	70 - 130
		Toluene	2015/09/08		100	%	70 - 130
		Ethylbenzene	2015/09/08		104	%	70 - 130
		m & p-Xylene	2015/09/08		102	%	70 - 130
		o-Xylene	2015/09/08		107	%	70 - 130
		F1 (C6-C10)	2015/09/08		77	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene (sur.)	2015/09/08		101	%	70 - 130
		4-Bromofluorobenzene (sur.)	2015/09/08		86	%	70 - 130
		D4-1,2-Dichloroethane (sur.)	2015/09/08		100	%	70 - 130
		Benzene	2015/09/08		97	%	70 - 130
		Toluene	2015/09/08		96	%	70 - 130
		Ethylbenzene	2015/09/08		102	%	70 - 130
		m & p-Xylene	2015/09/08		100	%	70 - 130
		o-Xylene	2015/09/08		104	%	70 - 130
		F1 (C6-C10)	2015/09/08		94	%	70 - 130
	Method Blank	1,4-Difluorobenzene (sur.)	2015/09/08		109	%	70 - 130
		4-Bromofluorobenzene (sur.)	2015/09/08		83	%	70 - 130
		D4-1,2-Dichloroethane (sur.)	2015/09/08		103	%	70 - 130
		Benzene	2015/09/08	<0.40		ug/L	
		Toluene	2015/09/08	<0.40		ug/L	
		Ethylbenzene	2015/09/08	<0.40		ug/L	
		m & p-Xylene	2015/09/08	<0.80		ug/L	
		o-Xylene	2015/09/08	<0.40		ug/L	
		Xylenes (Total)	2015/09/08	<0.80		ug/L	
		F1 (C6-C10) - BTEX	2015/09/08	<100		ug/L	
	RPD	F1 (C6-C10)	2015/09/08	<100		ug/L	
		Benzene	2015/09/08	NC		%	40
		Toluene	2015/09/08	NC		%	40
		Ethylbenzene	2015/09/08	NC		%	40
		m & p-Xylene	2015/09/08	NC		%	40
		o-Xylene	2015/09/08	NC		%	40
		Xylenes (Total)	2015/09/08	NC		%	40
		F1 (C6-C10) - BTEX	2015/09/08	NC		%	40
		F1 (C6-C10)	2015/09/08	NC		%	40
8030910 MWB	Matrix Spike	O-TERPHENYL (sur.)	2015/09/09		102	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2015/09/09		102	%	50 - 130
		F3 (C16-C34 Hydrocarbons)	2015/09/09		111	%	50 - 130
		F4 (C34-C50 Hydrocarbons)	2015/09/09		107	%	50 - 130
	Spiked Blank	O-TERPHENYL (sur.)	2015/09/09		100	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2015/09/09		100	%	70 - 130
		F3 (C16-C34 Hydrocarbons)	2015/09/09		108	%	70 - 130
		F4 (C34-C50 Hydrocarbons)	2015/09/09		103	%	70 - 130
	Method Blank	O-TERPHENYL (sur.)	2015/09/09		102	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2015/09/09	<10		mg/kg	
		F3 (C16-C34 Hydrocarbons)	2015/09/09	<50		mg/kg	
		F4 (C34-C50 Hydrocarbons)	2015/09/09	<50		mg/kg	
8031163 LSH	Matrix Spike [NB7353-02]	O-TERPHENYL (sur.)	2015/09/13		90	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2015/09/13		104	%	50 - 130
		F3 (C16-C34 Hydrocarbons)	2015/09/13		103	%	50 - 130
		F4 (C34-C50 Hydrocarbons)	2015/09/13		93	%	50 - 130
	Spiked Blank	O-TERPHENYL (sur.)	2015/09/13		89	%	50 - 130

EnGlobe Corp
Attention: ANDREW PASSALIS
Client Project #: PIN-2/PIN-4
P.O. #:
Site Location: CAPE YOUNG/ BYRON BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EYKB577696

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
8031163 LSH	Spiked Blank	F2 (C10-C16 Hydrocarbons)	2015/09/13		103	%	70 - 130
		F3 (C16-C34 Hydrocarbons)	2015/09/13		102	%	70 - 130
		F4 (C34-C50 Hydrocarbons)	2015/09/13		92	%	70 - 130
	Method Blank	O-TERPHENYL (sur.)	2015/09/13		90	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2015/09/13	<0.10		mg/L	
		F3 (C16-C34 Hydrocarbons)	2015/09/13	<0.20		mg/L	
	RPD [NB7361-02]	F4 (C34-C50 Hydrocarbons)	2015/09/13	<0.20		mg/L	
		F2 (C10-C16 Hydrocarbons)	2015/09/13	NC		%	40
		F3 (C16-C34 Hydrocarbons)	2015/09/13	NC		%	40
		F4 (C34-C50 Hydrocarbons)	2015/09/13	NC		%	40
	8031378 AN0	Moisture	2015/09/09	<0.30		%	
		RPD	2015/09/09	1.7		%	20
8031761 RK3	Matrix Spike	Total Mercury (Hg)	2015/09/09		107	%	80 - 120
	Spiked Blank	Total Mercury (Hg)	2015/09/09		99	%	80 - 120
	Method Blank	Total Mercury (Hg)	2015/09/09	0.0039, RDL=0.0020		ug/L	
	RPD	Total Mercury (Hg)	2015/09/09	NC		%	20
	8032413 MWB	Matrix Spike	O-TERPHENYL (sur.)		87	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2015/09/10		94	%	50 - 130
		F3 (C16-C34 Hydrocarbons)	2015/09/10		93	%	50 - 130
		F4 (C34-C50 Hydrocarbons)	2015/09/10		88	%	50 - 130
		O-TERPHENYL (sur.)	2015/09/10		97	%	50 - 130
	Spiked Blank	F2 (C10-C16 Hydrocarbons)	2015/09/10		98	%	70 - 130
		F3 (C16-C34 Hydrocarbons)	2015/09/10		97	%	70 - 130
		F4 (C34-C50 Hydrocarbons)	2015/09/10		95	%	70 - 130
		O-TERPHENYL (sur.)	2015/09/10		112	%	50 - 130
	Method Blank	F2 (C10-C16 Hydrocarbons)	2015/09/10	<10		mg/kg	
		F3 (C16-C34 Hydrocarbons)	2015/09/10	<50		mg/kg	
		F4 (C34-C50 Hydrocarbons)	2015/09/10	<50		mg/kg	
		RPD	F2 (C10-C16 Hydrocarbons)	2015/09/10	NC	%	50
		F3 (C16-C34 Hydrocarbons)	2015/09/10	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2015/09/10	NC		%	50
	8032649 AN0	Moisture	2015/09/10	<0.30		%	
		RPD	2015/09/10	2.3		%	20
8032674 PC5	Matrix Spike	Total Arsenic (As)	2015/09/11		103	%	80 - 120
		Total Cadmium (Cd)	2015/09/11		105	%	80 - 120
		Total Chromium (Cr)	2015/09/11		104	%	80 - 120
		Total Cobalt (Co)	2015/09/11		109	%	80 - 120
		Total Copper (Cu)	2015/09/11		104	%	80 - 120
		Total Lead (Pb)	2015/09/11		103	%	80 - 120
		Total Nickel (Ni)	2015/09/11		103	%	80 - 120
		Total Zinc (Zn)	2015/09/11		105	%	80 - 120
		Total Arsenic (As)	2015/09/11		104	%	80 - 120
		Total Cadmium (Cd)	2015/09/11		103	%	80 - 120
		Total Chromium (Cr)	2015/09/11		108	%	80 - 120
		Total Cobalt (Co)	2015/09/11		109	%	80 - 120
		Total Copper (Cu)	2015/09/11		107	%	80 - 120
		Total Lead (Pb)	2015/09/11		108	%	80 - 120
		Total Nickel (Ni)	2015/09/11		105	%	80 - 120
		Total Zinc (Zn)	2015/09/11		99	%	80 - 120
	Method Blank	Total Arsenic (As)	2015/09/11	<0.00020		mg/L	
		Total Cadmium (Cd)	2015/09/11	<0.000020		mg/L	
		Total Chromium (Cr)	2015/09/11	<0.0010		mg/L	
		Total Cobalt (Co)	2015/09/11	<0.00030		mg/L	
		Total Copper (Cu)	2015/09/11	<0.00020		mg/L	
		Total Lead (Pb)	2015/09/11	<0.00020		mg/L	

EnGlobe Corp
Attention: ANDREW PASSALIS
Client Project #: PIN-2/PIN-4
P.O. #:
Site Location: CAPE YOUNG/ BYRON BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EYKB577696

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
8032674 PC5	Method Blank	Total Nickel (Ni)	2015/09/11	<0.00050		mg/L	
		Total Zinc (Zn)	2015/09/11	<0.0030		mg/L	
	RPD	Total Arsenic (As)	2015/09/11	14		%	20
		Total Chromium (Cr)	2015/09/11	NC		%	20
		Total Cobalt (Co)	2015/09/11	NC		%	20
		Total Copper (Cu)	2015/09/11	NC		%	20
		Total Lead (Pb)	2015/09/11	NC		%	20
		Total Nickel (Ni)	2015/09/11	NC		%	20
		Total Zinc (Zn)	2015/09/11	NC		%	20
8033544 WZ0	Matrix Spike	1,4-Difluorobenzene (sur.)	2015/09/12		94	%	60 - 140
		4-Bromofluorobenzene (sur.)	2015/09/12		97	%	60 - 140
		D10-ETHYLBENZENE (sur.)	2015/09/12		101	%	60 - 130
		D4-1,2-Dichloroethane (sur.)	2015/09/12		103	%	60 - 140
		Benzene	2015/09/12		119	%	60 - 140
		Toluene	2015/09/12		117	%	60 - 140
		Ethylbenzene	2015/09/12		121	%	60 - 140
		m & p-Xylene	2015/09/12		120	%	60 - 140
		o-Xylene	2015/09/12		121	%	60 - 140
		F1 (C6-C10)	2015/09/12		88	%	60 - 140
	Spiked Blank	1,4-Difluorobenzene (sur.)	2015/09/12		83	%	60 - 140
		4-Bromofluorobenzene (sur.)	2015/09/12		94	%	60 - 140
		D10-ETHYLBENZENE (sur.)	2015/09/12		106	%	60 - 130
		D4-1,2-Dichloroethane (sur.)	2015/09/12		62	%	60 - 140
		Benzene	2015/09/12		111	%	60 - 140
		Toluene	2015/09/12		109	%	60 - 140
		Ethylbenzene	2015/09/12		113	%	60 - 140
		m & p-Xylene	2015/09/12		115	%	60 - 140
		o-Xylene	2015/09/12		117	%	60 - 140
		F1 (C6-C10)	2015/09/12		106	%	60 - 140
	Method Blank	1,4-Difluorobenzene (sur.)	2015/09/12		94	%	60 - 140
		4-Bromofluorobenzene (sur.)	2015/09/12		94	%	60 - 140
		D10-ETHYLBENZENE (sur.)	2015/09/12		109	%	60 - 130
		D4-1,2-Dichloroethane (sur.)	2015/09/12		102	%	60 - 140
		Benzene	2015/09/12	<0.0050		mg/kg	
		Toluene	2015/09/12	<0.020		mg/kg	
		Ethylbenzene	2015/09/12	<0.010		mg/kg	
		Xylenes (Total)	2015/09/12	<0.040		mg/kg	
		m & p-Xylene	2015/09/12	<0.040		mg/kg	
		o-Xylene	2015/09/12	<0.020		mg/kg	
	RPD	F1 (C6-C10) - BTEX	2015/09/12	<12		mg/kg	
		F1 (C6-C10)	2015/09/12	<12		mg/kg	
		Benzene	2015/09/12	NC		%	50
		Toluene	2015/09/12	NC		%	50
		Ethylbenzene	2015/09/12	NC		%	50
		Xylenes (Total)	2015/09/12	NC		%	50
		m & p-Xylene	2015/09/12	NC		%	50
		o-Xylene	2015/09/12	NC		%	50
		F1 (C6-C10) - BTEX	2015/09/12	NC		%	50
		F1 (C6-C10)	2015/09/12	NC		%	50
8033634 PC5	Matrix Spike	Total Arsenic (As)	2015/09/11		110	%	75 - 125
		Total Cadmium (Cd)	2015/09/11		107	%	75 - 125
		Total Chromium (Cr)	2015/09/11		114	%	75 - 125
		Total Cobalt (Co)	2015/09/11		103	%	75 - 125
		Total Copper (Cu)	2015/09/11		98	%	75 - 125
		Total Lead (Pb)	2015/09/11		105	%	75 - 125

EnGlobe Corp
Attention: ANDREW PASSALIS
Client Project #: PIN-2/PIN-4
P.O. #:
Site Location: CAPE YOUNG/ BYRON BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EYKB577696

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
8033634 PC5	Matrix Spike	Total Mercury (Hg)	2015/09/11		117	%	75 - 125
		Total Nickel (Ni)	2015/09/11		103	%	75 - 125
		Total Zinc (Zn)	2015/09/11		NC	%	75 - 125
	QC Standard	Total Arsenic (As)	2015/09/11		130	%	50 - 150
		Total Chromium (Cr)	2015/09/11		117	%	41 - 159
		Total Cobalt (Co)	2015/09/11		119	%	75 - 125
		Total Copper (Cu)	2015/09/11		118	%	73 - 127
		Total Lead (Pb)	2015/09/11		110	%	54 - 146
		Total Nickel (Ni)	2015/09/11		126	%	61 - 139
		Total Zinc (Zn)	2015/09/11		121	%	72 - 128
	Spiked Blank	Total Arsenic (As)	2015/09/11		99	%	75 - 125
		Total Cadmium (Cd)	2015/09/11		95	%	75 - 125
		Total Chromium (Cr)	2015/09/11		97	%	75 - 125
		Total Cobalt (Co)	2015/09/11		95	%	75 - 125
		Total Copper (Cu)	2015/09/11		95	%	75 - 125
		Total Lead (Pb)	2015/09/11		94	%	75 - 125
		Total Mercury (Hg)	2015/09/11		105	%	75 - 125
	Method Blank	Total Nickel (Ni)	2015/09/11		95	%	75 - 125
		Total Zinc (Zn)	2015/09/11		95	%	75 - 125
		Total Arsenic (As)	2015/09/11	<1.0		mg/kg	
		Total Cadmium (Cd)	2015/09/11	<0.050		mg/kg	
		Total Chromium (Cr)	2015/09/11	<1.0		mg/kg	
		Total Cobalt (Co)	2015/09/11	<0.50		mg/kg	
		Total Copper (Cu)	2015/09/11	<1.0		mg/kg	
		Total Lead (Pb)	2015/09/11	<0.50		mg/kg	
		Total Mercury (Hg)	2015/09/11	<0.050		mg/kg	
		Total Nickel (Ni)	2015/09/11	<1.0		mg/kg	
		Total Zinc (Zn)	2015/09/11	<10		mg/kg	
		Total Arsenic (As)	2015/09/11	11		%	35
		Total Cadmium (Cd)	2015/09/11	NC		%	35
	RPD	Total Chromium (Cr)	2015/09/11	28		%	35
		Total Cobalt (Co)	2015/09/11	13		%	35
		Total Copper (Cu)	2015/09/11	9.3		%	35
		Total Lead (Pb)	2015/09/11	13		%	35
		Total Mercury (Hg)	2015/09/11	NC		%	35
		Total Nickel (Ni)	2015/09/11	10		%	35
		Total Zinc (Zn)	2015/09/11	NC		%	35
		Total Arsenic (As)	2015/09/11		93	%	75 - 125
		Total Cadmium (Cd)	2015/09/11		89	%	75 - 125
		Total Chromium (Cr)	2015/09/11		93	%	75 - 125
8034327 PC5	Matrix Spike	Total Cobalt (Co)	2015/09/11		84	%	75 - 125
		Total Copper (Cu)	2015/09/11		89	%	75 - 125
		Total Lead (Pb)	2015/09/11		88	%	75 - 125
		Total Mercury (Hg)	2015/09/11		93	%	75 - 125
		Total Nickel (Ni)	2015/09/11		95	%	75 - 125
		Total Zinc (Zn)	2015/09/11		93	%	75 - 125
		Total Arsenic (As)	2015/09/11		111	%	50 - 150
	QC Standard	Total Chromium (Cr)	2015/09/11		93	%	41 - 159
		Total Cobalt (Co)	2015/09/11		88	%	75 - 125
		Total Copper (Cu)	2015/09/11		93	%	73 - 127
		Total Lead (Pb)	2015/09/11		93	%	54 - 146
		Total Nickel (Ni)	2015/09/11		103	%	61 - 139
		Total Zinc (Zn)	2015/09/11		96	%	72 - 128
		Total Arsenic (As)	2015/09/11		98	%	75 - 125
	Spiked Blank	Total Cadmium (Cd)	2015/09/11		94	%	75 - 125

EnGlobe Corp
Attention: ANDREW PASSALIS
Client Project #: PIN-2/PIN-4
P.O. #:
Site Location: CAPE YOUNG/ BYRON BAY

Quality Assurance Report (Continued)

Maxxam Job Number: EYKB577696

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	UNITS	QC Limits
8034327 PC5	Spiked Blank	Total Chromium (Cr)	2015/09/11		94	%	75 - 125
		Total Cobalt (Co)	2015/09/11		87	%	75 - 125
		Total Copper (Cu)	2015/09/11		95	%	75 - 125
		Total Lead (Pb)	2015/09/11		94	%	75 - 125
		Total Mercury (Hg)	2015/09/11		99	%	75 - 125
		Total Nickel (Ni)	2015/09/11		95	%	75 - 125
		Total Zinc (Zn)	2015/09/11		95	%	75 - 125
	Method Blank	Total Arsenic (As)	2015/09/11	<1.0		mg/kg	
		Total Cadmium (Cd)	2015/09/11	<0.050		mg/kg	
		Total Chromium (Cr)	2015/09/11	<1.0		mg/kg	
		Total Cobalt (Co)	2015/09/11	<0.50		mg/kg	
		Total Copper (Cu)	2015/09/11	<1.0		mg/kg	
		Total Lead (Pb)	2015/09/11	<0.50		mg/kg	
		Total Mercury (Hg)	2015/09/11	<0.050		mg/kg	
	RPD	Total Nickel (Ni)	2015/09/11	<1.0		mg/kg	
		Total Zinc (Zn)	2015/09/11	<10		mg/kg	
		Total Arsenic (As)	2015/09/11	NC		%	35
		Total Cadmium (Cd)	2015/09/11	NC		%	35
		Total Chromium (Cr)	2015/09/11	7.9		%	35
		Total Cobalt (Co)	2015/09/11	8.4		%	35
		Total Copper (Cu)	2015/09/11	3.9		%	35
		Total Lead (Pb)	2015/09/11	11		%	35
		Total Mercury (Hg)	2015/09/11	NC		%	35
		Total Nickel (Ni)	2015/09/11	5.0		%	35
		Total Zinc (Zn)	2015/09/11	NC		%	35

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

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

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

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

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

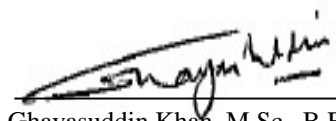
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

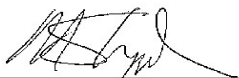
Validation Signature Page

Maxxam Job #: B577696

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



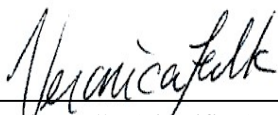
Ghayasuddin Khan, M.Sc., B.Ed., P.Chem, Scientific Specialist



Michael Sheppard, Senior Scientific Specialist



Jingyuan Song, Organics – Senior Analyst



Veronica Falk, Scientific Specialist

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: N/A
Your Project #: B577696
Your C.O.C. #: na

Attention: Alina Kenstavicius

Maxxam Analytics
2021 41st Ave NE
Calgary, AB
T2E 6P2

Report Date: 2015/09/17
Report #: R3664629
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B511712

Received: 2015/09/09, 10:00

Sample Matrix: Soil
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Moisture	7	N/A	2015/09/11	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2015/09/14	CAM SOP-00445	Carter 2nd ed 51.2 m
Polychlorinated Biphenyl in Soil	1	2015/09/12	2015/09/12	CAM SOP-00309	EPA 8082A m
Polychlorinated Biphenyl in Soil	7	2015/09/14	2015/09/14	CAM SOP-00309	EPA 8082A m

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Polychlorinated Biphenyl in Water	2	2015/09/11	2015/09/12	CAM SOP-00309	EPA 8082A m

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

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Andrea Rieth, Project Manager

Email: ARieth@maxxam.ca

Phone# (905) 817-5787 Ext: 5787

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

RESULTS OF ANALYSES OF SOIL

Maxxam ID		AYJ405	AYJ407	AYJ408	AYJ409		
Sampling Date		2015/08/15	2015/08/17	2015/08/17	2015/08/17		
COC Number		na	na	na	na		
	UNITS	NB7352 \ P215-2WA	NB7355 \ P415-8WA	NB7356 \ P415-4A	NB7357 \ P415-21A	RDL	QC Batch

Inorganics							
Moisture	%	17	10	11	11	1.0	4187240
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

Maxxam ID		AYJ410	AYJ411	AYJ412		AYN937		
Sampling Date		2015/08/18	2015/08/17	2015/08/17		2015/08/17		
COC Number		na	na	na		na		
	UNITS	NB7358 \ P415-15A	NB7359 \ P415-12A	NB7360 \ P415-23B	QC Batch	NB7362 \ P415-3WB	RDL	QC Batch

Inorganics								
Moisture	%	15	46	23	4187240	9.9	1.0	4188288
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

Maxxam Job #: B511712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		AYJ405	AYJ407	AYJ408	AYJ409		
Sampling Date		2015/08/15	2015/08/17	2015/08/17	2015/08/17		
COC Number		na	na	na	na		
	UNITS	NB7352 \ P215-2WA	NB7355 \ P415-8WA	NB7356 \ P415-4A	NB7357 \ P415-21A	RDL	QC Batch
PCBs							
Aroclor 1016	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1221	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1232	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1242	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1248	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1254	ug/g	<0.010	0.015	<0.010	<0.010	0.010	4188130
Aroclor 1260	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1262	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Aroclor 1268	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	4188130
Total PCB	ug/g	<0.010	0.015	<0.010	<0.010	0.010	4188130
Surrogate Recovery (%)							
Decachlorobiphenyl	%	96	93	100	88	N/A	4188130
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
N/A = Not Applicable							

Maxxam ID		AYJ410		AYJ411		AYJ412		
Sampling Date		2015/08/18		2015/08/17		2015/08/17		
COC Number		na		na		na		
	UNITS	NB7358 \ P415-15A	RDL	NB7359 \ P415-12A	RDL	NB7360 \ P415-23B	RDL	QC Batch
PCBs								
Aroclor 1016	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1221	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1232	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1242	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1248	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1254	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1260	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1262	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Aroclor 1268	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Total PCB	ug/g	<0.010	0.010	<0.020	0.020	<0.010	0.010	4188130
Surrogate Recovery (%)								
Decachlorobiphenyl	%	95	N/A	80	N/A	88	N/A	4188130
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
N/A = Not Applicable								

Maxxam Job #: B511712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

Maxxam ID		AYJ412		AYN937		
Sampling Date		2015/08/17		2015/08/17		
COC Number		na		na		
	UNITS	NB7360 \ P415-23B Lab-Dup	QC Batch	NB7362 \ P415-3WB	RDL	QC Batch
PCBs						
Aroclor 1016	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1221	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1232	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1242	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1248	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1254	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1260	ug/g	0.011	4188130	<0.010	0.010	4187559
Aroclor 1262	ug/g	<0.010	4188130	<0.010	0.010	4187559
Aroclor 1268	ug/g	<0.010	4188130	<0.010	0.010	4187559
Total PCB	ug/g	0.011	4188130	<0.010	0.010	4187559
Surrogate Recovery (%)						
Decachlorobiphenyl	%	84	4188130	93	N/A	4187559
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable						

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID		AYJ406	AYJ413		
Sampling Date		2015/08/15	2015/08/18		
COC Number		na	na		
	UNITS	NB7353 \ P215-2W	NB7361 \ P415-3W	RDL	QC Batch
PCBs					
Aroclor 1016	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1221	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1232	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1242	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1248	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1254	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1260	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1262	ug/L	<0.05	<0.05	0.05	4186524
Aroclor 1268	ug/L	<0.05	<0.05	0.05	4186524
Total PCB	ug/L	<0.05	<0.05	0.05	4186524
Surrogate Recovery (%)					
Decachlorobiphenyl	%	94	84	N/A	4186524
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

TEST SUMMARY

Maxxam ID: AYJ405
Sample ID: NB7352 \ P215-2WA
Matrix: Soil

Collected: 2015/08/15
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ406
Sample ID: NB7353 \ P215-2W
Matrix: Water

Collected: 2015/08/15
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Water	GC/ECD	4186524	2015/09/11	2015/09/12	Li Peng

Maxxam ID: AYJ407
Sample ID: NB7355 \ P415-8WA
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ408
Sample ID: NB7356 \ P415-4A
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ409
Sample ID: NB7357 \ P415-21A
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ410
Sample ID: NB7358 \ P415-15A
Matrix: Soil

Collected: 2015/08/18
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

TEST SUMMARY

Maxxam ID: AYJ411
Sample ID: NB7359 \ P415-12A
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ412
Sample ID: NB7360 \ P415-23B
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4187240	N/A	2015/09/11	Chun Yan
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ412 Dup
Sample ID: NB7360 \ P415-23B
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Soil	GC/ECD	4188130	2015/09/14	2015/09/14	Li Peng

Maxxam ID: AYJ413
Sample ID: NB7361 \ P415-3W
Matrix: Water

Collected: 2015/08/18
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Polychlorinated Biphenyl in Water	GC/ECD	4186524	2015/09/11	2015/09/12	Li Peng

Maxxam ID: AYN937
Sample ID: NB7362 \ P415-3WB
Matrix: Soil

Collected: 2015/08/17
Shipped:
Received: 2015/09/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	4188288	N/A	2015/09/14	Valentina Kaftani
Polychlorinated Biphenyl in Soil	GC/ECD	4187559	2015/09/12	2015/09/12	Svitlana Shaula

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C
Package 2	3.0°C

Revised Report (2015/09/17): Additional sample has been included in the report.

Sample AYJ411-01 : PCB Analysis: Detection limits were adjusted for high moisture content.

Results relate only to the items tested.

Maxxam Job #: B511712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4186524	LPG	Matrix Spike		Decachlorobiphenyl	2015/09/12		75	%	60 - 130
				Aroclor 1260	2015/09/12		81	%	60 - 130
				Total PCB	2015/09/12		81	%	60 - 130
4186524	LPG	Spiked Blank		Decachlorobiphenyl	2015/09/12		67	%	60 - 130
				Aroclor 1260	2015/09/12		76	%	60 - 130
				Total PCB	2015/09/12		76	%	60 - 130
4186524	LPG	Method Blank		Decachlorobiphenyl	2015/09/12		98	%	60 - 130
				Aroclor 1016	2015/09/12	<0.05		ug/L	
				Aroclor 1221	2015/09/12	<0.05		ug/L	
				Aroclor 1232	2015/09/12	<0.05		ug/L	
				Aroclor 1242	2015/09/12	<0.05		ug/L	
				Aroclor 1248	2015/09/12	<0.05		ug/L	
				Aroclor 1254	2015/09/12	<0.05		ug/L	
				Aroclor 1260	2015/09/12	<0.05		ug/L	
				Aroclor 1262	2015/09/12	<0.05		ug/L	
				Aroclor 1268	2015/09/12	<0.05		ug/L	
				Total PCB	2015/09/12	<0.05		ug/L	
				Aroclor 1016	2015/09/12	NC		%	40
				Aroclor 1221	2015/09/12	NC		%	40
4186524	LPG	RPD		Aroclor 1232	2015/09/12	NC		%	40
				Aroclor 1242	2015/09/12	NC		%	30
				Aroclor 1248	2015/09/12	NC		%	30
				Aroclor 1254	2015/09/12	NC		%	30
				Aroclor 1260	2015/09/12	NC		%	30
				Aroclor 1262	2015/09/12	NC		%	40
				Aroclor 1268	2015/09/12	NC		%	40
				Total PCB	2015/09/12	NC		%	40
				Moisture	2015/09/11	3.0		%	20
4187240	NS3	RPD							
4187559	SVS	Matrix Spike		Decachlorobiphenyl	2015/09/12		99	%	60 - 130
				Aroclor 1260	2015/09/12		79	%	60 - 130
				Total PCB	2015/09/12		79	%	60 - 130
4187559	SVS	Spiked Blank		Decachlorobiphenyl	2015/09/12		103	%	60 - 130
				Aroclor 1260	2015/09/12		95	%	60 - 130
				Total PCB	2015/09/12		95	%	60 - 130
4187559	SVS	Method Blank		Decachlorobiphenyl	2015/09/12		93	%	60 - 130
				Aroclor 1016	2015/09/12	<0.010		ug/g	
				Aroclor 1221	2015/09/12	<0.010		ug/g	
				Aroclor 1232	2015/09/12	<0.010		ug/g	
				Aroclor 1242	2015/09/12	<0.010		ug/g	
				Aroclor 1248	2015/09/12	<0.010		ug/g	
				Aroclor 1254	2015/09/12	<0.010		ug/g	
				Aroclor 1260	2015/09/12	<0.010		ug/g	
				Aroclor 1262	2015/09/12	<0.010		ug/g	
				Aroclor 1268	2015/09/12	<0.010		ug/g	
				Total PCB	2015/09/12	<0.010		ug/g	
				Aroclor 1242	2015/09/12	NC		%	50
				Aroclor 1248	2015/09/12	NC		%	50
4187559	SVS	RPD		Aroclor 1254	2015/09/12	NC		%	50
				Aroclor 1260	2015/09/12	NC		%	50
				Total PCB	2015/09/12	NC		%	50
4188130	LPG	Matrix Spike [AYJ412-01]		Decachlorobiphenyl	2015/09/14		93	%	60 - 130
				Aroclor 1260	2015/09/14		76	%	60 - 130
				Total PCB	2015/09/14		76	%	60 - 130

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4188130	LPG	Spiked Blank		Decachlorobiphenyl	2015/09/14		104	%	60 - 130
				Aroclor 1260	2015/09/14		92	%	60 - 130
				Total PCB	2015/09/14		92	%	60 - 130
4188130	LPG	Method Blank		Decachlorobiphenyl	2015/09/14		98	%	60 - 130
				Aroclor 1016	2015/09/14	<0.010		ug/g	
				Aroclor 1221	2015/09/14	<0.010		ug/g	
				Aroclor 1232	2015/09/14	<0.010		ug/g	
				Aroclor 1242	2015/09/14	<0.010		ug/g	
				Aroclor 1248	2015/09/14	<0.010		ug/g	
				Aroclor 1254	2015/09/14	<0.010		ug/g	
				Aroclor 1260	2015/09/14	<0.010		ug/g	
				Aroclor 1262	2015/09/14	<0.010		ug/g	
				Aroclor 1268	2015/09/14	<0.010		ug/g	
				Total PCB	2015/09/14	<0.010		ug/g	
4188130	LPG	RPD [AYJ412-01]		Aroclor 1016	2015/09/14	NC		%	50
				Aroclor 1221	2015/09/14	NC		%	50
				Aroclor 1232	2015/09/14	NC		%	50
				Aroclor 1242	2015/09/14	NC		%	50
				Aroclor 1248	2015/09/14	NC		%	50
				Aroclor 1254	2015/09/14	NC		%	50
				Aroclor 1260	2015/09/14	NC		%	50
				Aroclor 1262	2015/09/14	NC		%	50
				Aroclor 1268	2015/09/14	NC		%	50
				Total PCB	2015/09/14	NC		%	50
4188288	VGS	RPD		Moisture	2015/09/14	NC		%	20

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

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

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

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

Maxxam Job #: B5I1712
Report Date: 2015/09/17

Maxxam Analytics
Client Project #: B577696
Your P.O. #: N/A

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Cristina Carriere

Cristina Carriere, Scientific Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Entry

Job #: B577696

Page #: 1

SILA REMEDIATION
4495 BL. WILFRID- HAMEL, BUR 1
QUEBEC PQ
CANADA G1P 2T7

Inv Attn: JEAN-PIERRE PELLETIER

Printed: 2015/09/06 Version 2

Reception Date: 2015/09/04

Reception Time: 18:55

Login Date: 2015/09/06

REQUIRED DATE: 2015/09/22, 18:00

Quote Number:

Report: EnGlobe Corp
QUEBEC
1260, boul. Lebourgneuf Blvd
bureau/suite 250
Québec QC
CANADA G2K 2G2

Attention: ANDREW PASSALIS
PHONE: (418) 626 - 1688Ext:
FAX: (418) 647 - 2540
EMAIL: andrew.passalis@gmail.com

P.O. Number:
PROJECT NUMBER: PIN-2/PIN-4
Site Location:
CAPE YOUNG/ BYRON BAY
Site #:
Client Number: 4781
Rpt Address #: 32287
Q.C. Samples: No

Project Coordinator: AKM

Maxxam Client Number Sample ID/Report ID	Cont's	Store Recd. Code OK	Sampling Date	Matrix	Test Codes
NB7352-01R P215-2WA P215-2WA	1-COR2	N/A-INS-0 Yes	2015/08/15	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL ESUBPCB-S
NB7352-02R P215-2WA P215-2WA	1-COR2	N/A-INS-0 Yes	2015/08/15	SOIL	ESUBPCB-S
NB7353-01R P215-2W P215-2W	1-CM	N/A-INS-0 Yes	2015/08/15	WATER	CDLOW-T, ICPAB-T, ICPMSABL-T DISPOSAL
NB7353-02R P215-2W P215-2W	2-CF2	N/A-INS-0 Yes	2015/08/15	WATER	F24FIDE-W
NB7353-03R P215-2W P215-2W	2-1LAG	N/A-INS-0 Yes	2015/08/15	WATER	ESUBPCB-W
NB7353-04R P215-2W P215-2W	3-CBTX	N/A-INS-0 Yes	2015/08/15	WATER	BTEXHSAB-W
NB7353-05R P215-2W P215-2W	1-THG	N/A-INS-0 Yes	2015/08/15	WATER	HGAFLT-T
NB7355-01R P415-8WA P415-8WA	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL ESUBPCB-S
NB7355-02R P415-8WA P415-8WA	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ESUBPCB-S
NB7356-01R P415-4A P415-4A	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL ESUBPCB-S
NB7356-02R P415-4A P415-4A	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ESUBPCB-S
NB7357-01R P415-21A P415-21A	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL ESUBPCB-S
NB7357-02R P415-21A P415-21A	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ESUBPCB-S
NB7358-01R P415-15A P415-15A	1-COR2	N/A-INS-0 Yes	2015/08/18	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL ESUBPCB-S
NB7358-02R P415-15A P415-15A	1-COR2	N/A-INS-0 Yes	2015/08/18	SOIL	ESUBPCB-S
NB7359-01R P415-12A P415-12A	1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL

Continued...

Report Name: Entry

Job #: B577696

Maxxam Client
Number Sample ID/Report ID
 NB7359-02R P415-12A
 P415-12A
 NB7360-01R P415-23B
 P415-23B

NB7360-02R P415-23B
 P415-23B
 NB7361-01R P415-3W
 P415-3W
 NB7361-02R P415-3W
 P415-3W
 NB7361-03R P415-3W
 P415-3W
 NB7361-04R P415-3W
 P415-3W
 NB7362-01R P415-3WB
 P415-3WB
 NB7362-02R P415-3WB
 P415-3WB

Cont's	Store Recd. Code OK	Sampling Date	Matrix	Test Codes
1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ESUBPCB-S
1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	B-HOT, CR6AC-S, ICPMSAB-S BTEXHSAB-S, CCMEPREP-S F24FIDE-S, F4GRVE-S, MOIST-S VOLPREPE-S, DISPOSAL ESUBPCB-S
1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ESUBPCB-S
1-CM	N/A-INS-0 Yes	2015/08/18	WATER	CDLOW-T, ICPAB-T, ICPMSABL-T DISPOSAL
2-CF2	N/A-INS-0 Yes	2015/08/18	WATER	F24FIDE-W
2-ILAG	N/A-INS-0 Yes	2015/08/18	WATER	ESUBPCB-W
1-THG	N/A-INS-0 Yes	2015/08/18	WATER	HGAFL-T
1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ARCHIVE
1-COR2	N/A-INS-0 Yes	2015/08/17	SOIL	ARCHIVE

Remarks: HD0
 PROCEED WITH EXPIRED SAMPLES AS PER AKM 2015/09/06 @ 15:07
 MCAL 3/2/2

Inspected by: JLT
 Date: 2015/09/06
 Time: 16:16

Approved by:
 Date:
 Time:

Date of Sample Disposal:
 Disposal by:

Continued...

09-Sep-15 10:00

Andrea Rieth



B511712

Page #: 1

MAXXAM ANALYTICS
4000 19st N.E
Calgary, Alberta, T2E 6P8
Phone: (403) 291-3077
Fax: (403) 291-9468

MAF ENV-698

SILA REMEDIATION
Maxxam PM Alina Kenstavicius

SUBCONTRACTING REQUEST FORM

To: Maxxam Ontario (From Calgary)

Job# B577696



☐ Yes ☒ No International Sample/BioHazard (if yes, add copy of Movement Cert., heat treat is required prior to disposal)
☐ Yes ☒ No Special Protocol (if yes, Protocol _____)

Sample ID	Matrix	Test(s) Required	Container	Date Sampled	Date Required
NB7352-02R \ P215-2WA ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/15	2015/09/21
NB7353-03R \ P215-2W ✓	WATER	PCB in Water - Subcontract	2(1LAG)	2015/08/15	2015/09/21
NB7355-02R \ P415-8WA ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/17	2015/09/21
NB7356-02R \ P415-4A ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/17	2015/09/21
NB7357-02R \ P415-21A ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/17	2015/09/21
NB7358-02R \ P415-15A ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/18	2015/09/21
NB7359-02R \ P415-12A ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/17	2015/09/21
NB7360-02R \ P415-23B ✓	SOIL	PCB in Soil - Subcontract	1(COR2)	2015/08/17	2015/09/21
NB7361-03R \ P415-3W ✓	WATER	PCB in Water - Subcontract	2(1LAG)	2015/08/18	2015/09/21

	Temp. 1	Temp. 2	Temp. 3			
Cooler #1	4	3	7	Custody Seal Present	YES ✓	NO
				Custody Seal Intact	YES ✓	NO
				Ice Present Upon Receipt	YES ✓	NO
Cooler #2	2	3	4	Custody Seal Present	YES ✓	NO
				Custody Seal Intact	YES ✓	NO
				Ice Present Upon Receipt	YES ✓	NO
Cooler #3				Custody Seal Present	YES	NO
				Custody Seal Intact	YES	NO
				Ice Present Upon Receipt	YES	NO

Receiving Maxxam Location: Maxxam Ontario (From Calgary)

JOB #

Relinquished by (Sign)  (Print) Helen Day Date and Time 2015/09/08 1000
 Received by (Sign)  (Print) Alina Kenstavicius Date and Time 2015/09/09 10.00

Continued...

MAXXAM ANALYTICS
4000 19st N.E
Calgary, Alberta, T2E 6P8
Phone: (403) 291-3077
Fax: (403) 291-9468



SILA REMEDIATION
Maxxam PM Alina Kensta

SUBCONTRACTING REQUEST FORM

NOTES:

- 1) Please call us if due date cannot be met. Please reference Sample ID on your report.
- 2) Include copy of this completed form, Client COC & signed final report to calgarycustomerservice@maxxamanalytics.com

Reporting Requirements:

National:

Regional:

SHIPPING INSTRUCTIONS

- | | |
|--|---|
| <input type="checkbox"/> Ship Immediately (highlight Yellow) | <input type="checkbox"/> Ship Cold |
| <input type="checkbox"/> Requires 9am | <input type="checkbox"/> Ship Room Temp |
| <input type="checkbox"/> Requires Sat. Delivery | <input type="checkbox"/> Ship Frozen |
| <input type="checkbox"/> Regular Ship next available day | <input type="checkbox"/> COC Must be Attached |
- Sender (Print) _____ Initial _____

SHIPPING DEPARTMENT CHECKLIST

- | |
|--|
| <input type="checkbox"/> Correct Shipping location |
| <input type="checkbox"/> Correct Sample Ids (Paperwork vs Bottles) |
| <input type="checkbox"/> Yes <input type="checkbox"/> No Special-Cooler, Ice, Tape-custody seal, Date&Sign |
| Date Shipped _____ Number of coolers _____ |
| Shipper (Print) _____ Initial _____ |

Report Transmission Cover Page

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Contact & Affiliation	Address	Delivery Commitments
Angela Lyster Exova - Employees	Bay 5, 2712 - 37 Avenue, c/o Exova Calgary, Alberta T1Y 5L3 Phone: (403) 291-2022 Fax: (403) 291-2021 Email: angela.lyster@exova.com	On [Report Approval] send (Test Report, COC) by Email - Single Report
Andrew Passalis SILA Remediation	350, rue Franquet Sainte-Foy, Quebec G1P 4P3 Phone: (204) 791-4938 Fax: (418) 653-3583 Email: andrew.passalis@gmail.com	On [Report Approval] send (COC, Test Report) by Email - Single Report
Jean-Pierre Pelletier SILA Remediation	250-1260 Boul Lebourgneuf Quebec, Quebec G2K 2G2 Phone: (581) 984-2585 Fax: null Email: jean-pierre.pelletier@lvm.ca	On [Report Approval] send (COC, Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report

Notes To Clients:

- Report was issued to remove the metals not originally requested and to adjust detection limits for extractable hydrocarbons and PCB's as requested by Jean-Pierre Pelletier of Englobe. Previous report 2036230.
- Note that due to required lower detection limit for PCB analysis in both water and soil the Nominal Detection limit was set to 0.05.

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-1	1089483-2	1089483-3	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-1A	P415-1B	P415-2A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	<0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.6	3.5	3.2	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.04	0.04	0.04	0.01
Chromium	Strong Acid Extractable	mg/kg	11.6	11.8	15.0	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.4	2.9	5.8	0.1
Copper	Strong Acid Extractable	mg/kg	5.6	5.2	9.4	1
Lead	Strong Acid Extractable	mg/kg	12.4	11.7	7.2	0.1
Nickel	Strong Acid Extractable	mg/kg	7.5	7.9	13.4	0.5
Zinc	Strong Acid Extractable	mg/kg	7	7	13	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	19.3	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	6.59	10.90	31.00	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-1	1089483-2	1089483-3	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-1A	P415-1B	P415-2A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	120	140	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-4	1089483-5	1089483-6	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-2B	P415-3A	P415-3B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	0.03	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.6	3.5	4.2	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.12	0.06	0.01
Chromium	Strong Acid Extractable	mg/kg	16.2	9.9	12.7	0.5
Cobalt	Strong Acid Extractable	mg/kg	6.5	2.9	3.3	0.1
Copper	Strong Acid Extractable	mg/kg	11.6	8.1	7.5	1
Lead	Strong Acid Extractable	mg/kg	5.2	8.1	8.7	0.1
Nickel	Strong Acid Extractable	mg/kg	14.5	7.5	10.0	0.5
Zinc	Strong Acid Extractable	mg/kg	17	30	10	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	28.8	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	12.50	33.30	18.40	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/ka	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-4	1089483-5	1089483-6	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-2B	P415-3A	P415-3B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	130	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-7	1089483-8	1089483-9	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-4A	P415-4B	P415-5A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	<0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	4.1	2.9	4.2	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.02	0.03	0.01
Chromium	Strong Acid Extractable	mg/kg	13.3	13.4	11.4	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.3	2.7	4.3	0.1
Copper	Strong Acid Extractable	mg/kg	9.2	9.6	7.8	1
Lead	Strong Acid Extractable	mg/kg	14.5	15.2	10.6	0.1
Nickel	Strong Acid Extractable	mg/kg	9.0	7.1	9.1	0.5
Zinc	Strong Acid Extractable	mg/kg	3	3	9	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	10.50	9.13	7.45	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-7	1089483-8	1089483-9	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-4A	P415-4B	P415-5A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	130	120	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-10	1089483-11	1089483-12	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-5B	P415-6A	P415-6B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	<0.01	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	4.2	5.0	4.4	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.04	0.03	0.02	0.01
Chromium	Strong Acid Extractable	mg/kg	10.9	6.9	6.9	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.8	3.2	2.9	0.1
Copper	Strong Acid Extractable	mg/kg	7.1	4.6	3.7	1
Lead	Strong Acid Extractable	mg/kg	10.0	11.8	13.2	0.1
Nickel	Strong Acid Extractable	mg/kg	8.4	5.8	5.5	0.5
Zinc	Strong Acid Extractable	mg/kg	8	5	4	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	6.59	7.30	5.44	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/ka	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-10	1089483-11	1089483-12	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-5B	P415-6A	P415-6B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	140	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-13	1089483-14	1089483-15	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-7A	P415-7B	P415-8A	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	0.01	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.6	3.4	4.9	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.02	0.02	0.01
Chromium	Strong Acid Extractable	mg/kg	9.4	9.9	9.7	0.5
Cobalt	Strong Acid Extractable	mg/kg	4.1	3.1	4.0	0.1
Copper	Strong Acid Extractable	mg/kg	8.1	7.2	8.2	1
Lead	Strong Acid Extractable	mg/kg	5.9	5.2	5.4	0.1
Nickel	Strong Acid Extractable	mg/kg	9.1	8.4	8.7	0.5
Zinc	Strong Acid Extractable	mg/kg	6	5	6	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+	%		<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	8.35	5.71	11.30	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-13	1089483-14	1089483-15	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-7A	P415-7B	P415-8A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	130	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-16	1089483-17	1089483-18	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-8B	P415-9A	P415-9B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.3	4.0	4.0	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.01	0.03	0.02	0.01
Chromium	Strong Acid Extractable	mg/kg	8.9	11.9	11.6	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.3	5.1	5.2	0.1
Copper	Strong Acid Extractable	mg/kg	6.2	10.2	9.4	1
Lead	Strong Acid Extractable	mg/kg	5.2	6.7	6.6	0.1
Nickel	Strong Acid Extractable	mg/kg	8.1	12.6	12.0	0.5
Zinc	Strong Acid Extractable	mg/kg	4	6	6	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	6.56	10.80	7.51	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-16	1089483-17	1089483-18	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-8B	P415-9A	P415-9B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	140	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-19	1089483-20	1089483-21	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-10A	P415-10B	P415-11A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.02	0.01	0.06	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.0	2.8	1.1	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.06	0.03	0.22	0.01
Chromium	Strong Acid Extractable	mg/kg	9.2	11.4	2.6	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.6	3.2	1.3	0.1
Copper	Strong Acid Extractable	mg/kg	12.8	10.3	13.1	1
Lead	Strong Acid Extractable	mg/kg	4.9	5.1	2.3	0.1
Nickel	Strong Acid Extractable	mg/kg	8.5	10.8	4.1	0.5
Zinc	Strong Acid Extractable	mg/kg	8	6	4	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	41	<40	72	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	49	40
% C50+		%	<5	<5	11.3	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	14.10	10.30	66.90	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-19	1089483-20	1089483-21	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-10A	P415-10B	P415-11A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	140	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-22	1089483-23	1089483-24	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-11B	P415-12A	P415-12B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	0.02	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	2.7	2.8	3.5	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.07	0.02	0.01
Chromium	Strong Acid Extractable	mg/kg	11.1	6.0	10.1	0.5
Cobalt	Strong Acid Extractable	mg/kg	2.5	2.2	2.5	0.1
Copper	Strong Acid Extractable	mg/kg	8.9	5.7	7.8	1
Lead	Strong Acid Extractable	mg/kg	8.0	4.9	7.5	0.1
Nickel	Strong Acid Extractable	mg/kg	7.8	8.3	6.0	0.5
Zinc	Strong Acid Extractable	mg/kg	6	6	4	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	85	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	18.20	44.80	16.60	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-22	1089483-23	1089483-24	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-11B	P415-12A	P415-12B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	130	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-25	1089483-26	1089483-27	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-13A	P415-13B	P415-14A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	<0.01	0.03	0.01
Arsenic	Strong Acid Extractable	mg/kg	2.9	4.1	3.4	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.02	0.07	0.01
Chromium	Strong Acid Extractable	mg/kg	11.7	12.1	10.7	0.5
Cobalt	Strong Acid Extractable	mg/kg	7.2	4.6	4.2	0.1
Copper	Strong Acid Extractable	mg/kg	35.2	10.5	10.8	1
Lead	Strong Acid Extractable	mg/kg	5.7	10.5	9.8	0.1
Nickel	Strong Acid Extractable	mg/kg	13.4	9.9	8.6	0.5
Zinc	Strong Acid Extractable	mg/kg	18	6	12	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	9.37	10.40	28.60	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-25	1089483-26	1089483-27	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-13A	P415-13B	P415-14A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	150	140	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-28	1089483-29	1089483-30	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-14B	P415-15A	P415-15B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.02	0.02	0.02	0.01
Arsenic	Strong Acid Extractable	mg/kg	4.8	3.9	4.6	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.04	0.04	0.03	0.01
Chromium	Strong Acid Extractable	mg/kg	17.4	14.3	16.2	0.5
Cobalt	Strong Acid Extractable	mg/kg	6.9	5.4	6.2	0.1
Copper	Strong Acid Extractable	mg/kg	12.8	10.6	11.7	1
Lead	Strong Acid Extractable	mg/kg	11.1	9.7	10.0	0.1
Nickel	Strong Acid Extractable	mg/kg	12.9	10.9	12.4	0.5
Zinc	Strong Acid Extractable	mg/kg	7	7	7	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	59	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	181	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	205	40
% C50+		%	<5	<5	8.9	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	15.70	15.20	9.72	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-28	1089483-29	1089483-30	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-14B	P415-15A	P415-15B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	130	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-31	1089483-32	1089483-33	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-16A	P415-16B	P415-17A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.06	0.02	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	1.1	3.8	3.9	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.15	0.03	0.03	0.01
Chromium	Strong Acid Extractable	mg/kg	3.7	11.7	9.5	0.5
Cobalt	Strong Acid Extractable	mg/kg	1.5	4.5	4.3	0.1
Copper	Strong Acid Extractable	mg/kg	5.9	9.9	7.2	1
Lead	Strong Acid Extractable	mg/kg	3.1	9.7	13.3	0.1
Nickel	Strong Acid Extractable	mg/kg	3.9	9.5	9.3	0.5
Zinc	Strong Acid Extractable	mg/kg	4	4	5	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	56	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	63	<40	<40	40
% C50+		%	28.0	31.6	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	59.70	15.00	2.88	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/ka	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-31	1089483-32	1089483-33	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-16A	P415-16B	P415-17A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	130	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-34	1089483-35	1089483-36	
		Sample Date	Aug 17, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-17B	P415-18A	P415-18B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	4.0	4.7	4.3	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.03	0.02	0.02	0.01
Chromium	Strong Acid Extractable	mg/kg	9.0	10.5	10.4	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.9	4.0	4.0	0.1
Copper	Strong Acid Extractable	mg/kg	7.2	7.3	7.9	1
Lead	Strong Acid Extractable	mg/kg	11.6	9.9	30.9	0.1
Nickel	Strong Acid Extractable	mg/kg	8.8	9.1	8.8	0.5
Zinc	Strong Acid Extractable	mg/kg	4	4	5	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	3.93	3.93	5.12	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-34	1089483-35	1089483-36	
		Sample Date	Aug 17, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-17B	P415-18A	P415-18B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	140	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-37	1089483-38	1089483-39	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-19A	P415-19B	P415-20A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.9	3.8	4.0	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.04	0.02	0.05	0.01
Chromium	Strong Acid Extractable	mg/kg	11.2	13.3	12.5	0.5
Cobalt	Strong Acid Extractable	mg/kg	5.4	5.6	5.2	0.1
Copper	Strong Acid Extractable	mg/kg	10.5	12.9	10.7	1
Lead	Strong Acid Extractable	mg/kg	12.8	8.4	9.5	0.1
Nickel	Strong Acid Extractable	mg/kg	13.9	17.5	14.1	0.5
Zinc	Strong Acid Extractable	mg/kg	8	6	10	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	10.80	5.54	14.00	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/ka	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-37	1089483-38	1089483-39	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-19A	P415-19B	P415-20A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	150	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-40	1089483-41	1089483-42	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-20B	P415-21A	P415-21B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.3	3.6	4.0	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.03	0.03	0.01
Chromium	Strong Acid Extractable	mg/kg	10.5	11.9	12.5	0.5
Cobalt	Strong Acid Extractable	mg/kg	4.2	5.0	6.1	0.1
Copper	Strong Acid Extractable	mg/kg	8.0	9.8	11.4	1
Lead	Strong Acid Extractable	mg/kg	7.1	8.0	8.7	0.1
Nickel	Strong Acid Extractable	mg/kg	11.9	14.3	16.0	0.5
Zinc	Strong Acid Extractable	mg/kg	6	7	7	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	10.20	9.47	10.40	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-40	1089483-41	1089483-42	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-20B	P415-21A	P415-21B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	130	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-43	1089483-44	1089483-45	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-22A	P415-22B	P415-23A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.08	0.01	0.05	0.01
Arsenic	Strong Acid Extractable	mg/kg	1.5	3.0	1.1	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.35	0.05	0.20	0.01
Chromium	Strong Acid Extractable	mg/kg	5.4	10.4	3.2	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.0	5.8	3.0	0.1
Copper	Strong Acid Extractable	mg/kg	25.2	18.2	21.9	1
Lead	Strong Acid Extractable	mg/kg	3.6	4.6	1.8	0.1
Nickel	Strong Acid Extractable	mg/kg	6.4	10.1	11.0	0.5
Zinc	Strong Acid Extractable	mg/kg	31	13	7	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	49	<40	133	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	46	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	77	40
% C50+		%	<5	<5	13.2	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	61.70	12.80	79.00	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/ka	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-43	1089483-44	1089483-45	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-22A	P415-22B	P415-23A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	140	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-46	1089483-47	1089483-48	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-23B	P415-24A	P415-24B	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	<0.01	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	1.6	1.9	2.3	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.05	0.01	0.02	0.01
Chromium	Strong Acid Extractable	mg/kg	12.6	12.2	12.9	0.5
Cobalt	Strong Acid Extractable	mg/kg	5.0	7.2	7.2	0.1
Copper	Strong Acid Extractable	mg/kg	25.3	16.8	21.0	1
Lead	Strong Acid Extractable	mg/kg	4.0	3.8	4.1	0.1
Nickel	Strong Acid Extractable	mg/kg	12.6	12.7	13.3	0.5
Zinc	Strong Acid Extractable	mg/kg	14	16	18	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	45	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+	%		<5	35.3	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	26.60	16.50	13.60	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-46	1089483-47	1089483-48	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-23B	P415-24A	P415-24B	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	140	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-49	1089483-50	1089483-51	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-1WA	P415-1WB	P415-2WA	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	0.01	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	2.2	2.8	2.4	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.03	0.01	0.01
Chromium	Strong Acid Extractable	mg/kg	7.7	12.6	9.4	0.5
Cobalt	Strong Acid Extractable	mg/kg	5.3	9.0	8.0	0.1
Copper	Strong Acid Extractable	mg/kg	21.7	21.7	45.4	1
Lead	Strong Acid Extractable	mg/kg	3.4	4.5	3.7	0.1
Nickel	Strong Acid Extractable	mg/kg	8.2	17.6	12.2	0.5
Zinc	Strong Acid Extractable	mg/kg	14	25	20	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	9.16	13.70	26.30	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-49	1089483-50	1089483-51	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-1WA	P415-1WB	P415-2WA	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	140	130	50-150

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-52	1089483-53	1089483-54	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-2WB	P415-3WA	P415-3WB	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.04	<0.01	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	4.1	1.8	1.9	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.09	<0.01	0.01	0.01
Chromium	Strong Acid Extractable	mg/kg	12.9	11.2	11.4	0.5
Cobalt	Strong Acid Extractable	mg/kg	15.5	6.5	7.2	0.1
Copper	Strong Acid Extractable	mg/kg	70.1	28.9	30.3	1
Lead	Strong Acid Extractable	mg/kg	11.3	3.9	3.6	0.1
Nickel	Strong Acid Extractable	mg/kg	42.0	11.7	13.1	0.5
Zinc	Strong Acid Extractable	mg/kg	69	18	18	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	80	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+	%		<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	77.10	11.20	10.90	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-52	1089483-53	1089483-54	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-2WB	P415-3WA	P415-3WB	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	110	130	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-55	1089483-56	1089483-57	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-4WA	P415-4WB	P415-5WA	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	<0.01	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	2.5	2.4	2.2	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.01	<0.01	0.06	0.01
Chromium	Strong Acid Extractable	mg/kg	9.3	9.1	8.9	0.5
Cobalt	Strong Acid Extractable	mg/kg	7.5	6.7	4.5	0.1
Copper	Strong Acid Extractable	mg/kg	24.1	27.1	12.1	1
Lead	Strong Acid Extractable	mg/kg	3.3	3.8	11.5	0.1
Nickel	Strong Acid Extractable	mg/kg	15.6	10.6	7.5	0.5
Zinc	Strong Acid Extractable	mg/kg	22	14	25	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+	%		<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	8.66	14.00	6.69	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-55	1089483-56	1089483-57	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-4WA	P415-4WB	P415-5WA	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	120	110	110	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-58	1089483-59	1089483-60	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-5WB	P415-6WA	P415-6WB	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.01	0.03	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.2	2.5	2.4	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.03	0.08	0.03	0.01
Chromium	Strong Acid Extractable	mg/kg	10.4	12.2	14.6	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.7	4.5	4.8	0.1
Copper	Strong Acid Extractable	mg/kg	7.6	17.2	15.7	1
Lead	Strong Acid Extractable	mg/kg	10.7	7.0	6.0	0.1
Molybdenum	Strong Acid Extractable	mg/kg	<1.0			1
Nickel	Strong Acid Extractable	mg/kg	7.9	10.7	10.9	0.5
Zinc	Strong Acid Extractable	mg/kg	10	31	13	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	6.01	31.60	15.90	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/ka	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-58	1089483-59	1089483-60	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-5WB	P415-6WA	P415-6WB	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	120	120	110	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-61	1089483-62	1089483-63	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-7WA	P415-7WB	P415-8WA	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.05	0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	1.9	4.1	4.0	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.12	0.02	0.06	0.01
Chromium	Strong Acid Extractable	mg/kg	5.7	18.0	14.2	0.5
Cobalt	Strong Acid Extractable	mg/kg	2.0	6.4	4.9	0.1
Copper	Strong Acid Extractable	mg/kg	16.5	22.0	12.1	1
Lead	Strong Acid Extractable	mg/kg	7.0	14.8	16.1	0.1
Nickel	Strong Acid Extractable	mg/kg	8.9	16.7	13.5	0.5
Zinc	Strong Acid Extractable	mg/kg	9	12	17	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	78	<40	53	40
F4c C34-C50	Dry Weight	mg/kg	46	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	60	<40	46	40
% C50+		%	10.0	<5	15.2	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	74.20	20.50	9.35	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-61	1089483-62	1089483-63	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-7WA	P415-7WB	P415-8WA	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	130	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-64	1089483-65	1089483-66	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-8WB	P415-BD1	P415-BD2	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	0.02	<0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	4.1	3.0	5.1	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.04	0.03	0.07	0.01
Chromium	Strong Acid Extractable	mg/kg	13.4	10.6	15.5	0.5
Cobalt	Strong Acid Extractable	mg/kg	4.5	6.7	5.8	0.1
Copper	Strong Acid Extractable	mg/kg	10.6	36.4	12.9	1
Lead	Strong Acid Extractable	mg/kg	15.0	4.9	20.9	0.1
Nickel	Strong Acid Extractable	mg/kg	12.2	12.6	14.9	0.5
Zinc	Strong Acid Extractable	mg/kg	11	22	16	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	12.30	11.20	6.04	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-64	1089483-65	1089483-66	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-8WB	P415-BD1	P415-BD2	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	130	130	130	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-67	1089483-68	1089483-69	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-BD3	P415-BD4	P415-BD5	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion						
Mercury	Strong Acid Extractable	mg/kg	<0.01	0.01	0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.5	3.7	3.9	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.02	0.03	0.04	0.01
Chromium	Strong Acid Extractable	mg/kg	12.9	12.4	13.2	0.5
Cobalt	Strong Acid Extractable	mg/kg	3.3	5.4	5.5	0.1
Copper	Strong Acid Extractable	mg/kg	9.8	10.8	11.9	1
Lead	Strong Acid Extractable	mg/kg	14.6	8.4	9.8	0.1
Nickel	Strong Acid Extractable	mg/kg	8.9	13.8	12.0	0.5
Zinc	Strong Acid Extractable	mg/kg	4	8	8	1
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date	Volatiles		24-Aug-15	24-Aug-15	24-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil						
Extraction Date	Total Extractables		24-Aug-15	24-Aug-15	24-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	<40	<40	<40	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	<40	40
% C50+		%	<5	<5	<5	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	% by weight	10.40	10.70	15.00	
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/qa	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-67	1089483-68	1089483-69	
		Sample Date	Aug 17, 2015	Aug 17, 2015	Aug 17, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-BD3	P415-BD4	P415-BD5	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued						
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	140	120	140	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-70	1089483-71	
		Sample Date	Aug 17, 2015	Aug 18, 2015	
		Sample Time	NA	NA	
		Sample Location			
		Sample Description	P415-BD6	P415-BD7	
		Matrix	Soil	Soil	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Digestion					
Mercury	Strong Acid Extractable	mg/kg	0.03	<0.01	0.01
Arsenic	Strong Acid Extractable	mg/kg	3.0	1.6	0.2
Cadmium	Strong Acid Extractable	mg/kg	0.09	0.07	0.01
Chromium	Strong Acid Extractable	mg/kg	6.2	11.7	0.5
Cobalt	Strong Acid Extractable	mg/kg	2.2	4.7	0.1
Copper	Strong Acid Extractable	mg/kg	8.2	29.0	1
Lead	Strong Acid Extractable	mg/kg	6.7	3.7	0.1
Nickel	Strong Acid Extractable	mg/kg	5.1	14.0	0.5
Zinc	Strong Acid Extractable	mg/kg	10	14	1
Mono-Aromatic Hydrocarbons - Soil					
Benzene	Dry Weight	mg/kg	<0.005	<0.005	0.005
Toluene	Dry Weight	mg/kg	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.010	<0.010	0.01
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.03	<0.03	0.03
Volatile Petroleum Hydrocarbons - Soil					
Extraction Date	Volatiles		24-Aug-15	25-Aug-15	
F1 C6-C10	Dry Weight	mg/kg	<10	<10	10
F1 -BTEX	Dry Weight	mg/kg	<10	<10	10
Extractable Petroleum Hydrocarbons - Soil					
Extraction Date	Total Extractables		24-Aug-15	25-Aug-15	
F2c C10-C16	Dry Weight	mg/kg	<40	<40	40
F3c C16-C34	Dry Weight	mg/kg	45	42	40
F4c C34-C50	Dry Weight	mg/kg	<40	<40	40
F4HTGCc C34-C50+	Dry Weight	mg/kg	<40	<40	40
% C50+	%		<5	<5	
Silica Gel Cleanup					
Silica Gel Cleanup			Done	Done	
Soil % Moisture					
Moisture	Soil % Moisture	% by weight	45.20	24.30	
Polychlorinated Biphenyls - Soil					
Aroclor 1016	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1221	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1232	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1242	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1248	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1254	Dry Weight	mg/kg	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-70	1089483-71	
		Sample Date	Aug 17, 2015	Aug 18, 2015	
		Sample Time	NA	NA	
		Sample Location			
		Sample Description	P415-BD6	P415-BD7	
		Matrix	Soil	Soil	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Soil - Continued					
Aroclor 1260	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1262	Dry Weight	mg/kg	<0.05	<0.05	0.05
Aroclor 1268	Dry Weight	mg/kg	<0.05	<0.05	0.05
Total PCBs	Dry Weight	mg/kg	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Soil - Surrogate					
Decachlorobiphenyl	Surrogate	%	130	140	50-150

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-72	1089483-73	1089483-74	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-1W	P415-2W	P415-3W	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total						
Mercury	Total	mg/L	<0.000005	<0.000010	0.000005	0.000005
Arsenic	Total	mg/L	<0.001	0.0022	<0.0004	0.0002
Cadmium	Total	mg/L	0.00004	0.00002	0.00002	0.00001
Chromium	Total	mg/L	0.0078	0.0058	0.0081	0.0005
Cobalt	Total	mg/L	0.0008	0.011		0.0001
Copper	Total	mg/L	0.007	<0.002	0.01	0.001
Lead	Total	mg/L	<0.0005	0.0008	<0.0002	0.0001
Nickel	Total	mg/L	0.022	0.0280	0.0418	0.0005
Zinc	Total	mg/L	0.03	0.234	0.062	0.001
Mono-Aromatic Hydrocarbons - Water						
Benzene		mg/L	<0.001	<0.001	<0.001	0.001
Toluene		mg/L	<0.0004	<0.0004	<0.0004	0.0004
Ethylbenzene		mg/L	<0.001	<0.001	<0.001	0.001
Total Xylenes (m,p,o)		mg/L	<0.001	<0.001	<0.001	0.001
Volatile Petroleum Hydrocarbons - Water						
F1 -BTEX		mg/L	<0.1	<0.1	<0.1	0.1
F1 C6-C10		mg/L	<0.1	<0.1	<0.1	0.1
F2 C10-C16		mg/L	<0.1	<0.1	<0.1	0.1
Extractable Petroleum Hydrocarbons - Water						
F3 C16-C34		mg/L	<0.1	<0.1	<0.1	0.1
F3+ C34+		mg/L	<0.1	<0.1	<0.1	0.1
Polychlorinated Biphenyls - Water						
Aroclor 1016		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1221		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1232		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1242		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1248		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1254		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1260		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1262		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1268		ug/L	<0.05	<0.05	<0.05	0.05
Total PCBs		ug/L	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Water - Surrogate						
Decachlorobiphenyl	Surrogate	%	100	95	99	50-150

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

		Reference Number	1089483-75	1089483-76	1089483-77	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-4W	P415-6W	P415-7W	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total						
Aluminum	Total	mg/L			<0.02	0.02
Calcium	Total	mg/L			71.4	0.2
Iron	Total	mg/L			<0.05	0.05
Magnesium	Total	mg/L			31.3	0.2
Manganese	Total	mg/L			<0.005	0.005
Potassium	Total	mg/L			2.2	0.4
Silicon	Total	mg/L			1.82	0.05
Sodium	Total	mg/L			12.6	0.4
Sulfur	Total	mg/L			24.0	0.3
Mercury	Total	mg/L	<0.000005	0.000009	<0.000005	0.000005
Arsenic	Total	mg/L	<0.002	0.0003	<0.0002	0.0002
Cadmium	Total	mg/L	0.00008	<0.00001	<0.00001	0.00001
Chromium	Total	mg/L	0.061	0.0007	<0.0005	0.0005
Cobalt	Total	mg/L	0.005	0.0002	<0.0001	0.0001
Copper	Total	mg/L	0.01	0.002	0.001	0.001
Lead	Total	mg/L	<0.001	0.0006	<0.0001	0.0001
Nickel	Total	mg/L	0.159	0.0023	0.0010	0.0005
Zinc	Total	mg/L	0.98	0.01	<0.001	0.001
Mono-Aromatic Hydrocarbons - Water						
Benzene		mg/L	<0.001	<0.001	<0.001	0.001
Toluene		mg/L	<0.0004	<0.0004	<0.0004	0.0004
Ethylbenzene		mg/L	<0.001	<0.001	<0.001	0.001
Total Xylenes (m,p,o)		mg/L	<0.001	<0.001	<0.001	0.001
Volatile Petroleum Hydrocarbons - Water						
F1 -BTEX		mg/L	<0.1	<0.1	<0.1	0.1
F1 C6-C10		mg/L	<0.1	<0.1	<0.1	0.1
F2 C10-C16		mg/L	<0.1	0.2	0.1	0.1
Extractable Petroleum Hydrocarbons - Water						
F3 C16-C34		mg/L	<0.1	<0.1	<0.1	0.1
F3+ C34+		mg/L	<0.1	<0.1	<0.1	0.1
Polychlorinated Biphenyls - Water						
Aroclor 1016		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1221		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1232		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1242		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1248		ug/L	<0.05	<0.05	<0.05	0.05

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

	Reference Number	1089483-75	1089483-76	1089483-77	
	Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
	Sample Time	NA	NA	NA	
	Sample Location				
	Sample Description	P415-4W	P415-6W	P415-7W	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
Polychlorinated Biphenyls - Water - Continued					
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1262	ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1268	ug/L	<0.05	<0.05	<0.05	0.05
Total PCBs	ug/L	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Water - Surrogate					
Decachlorobiphenyl Surrogate	%	98	88	97	50-150

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

		Reference Number	1089483-78	1089483-79	1089483-80	
		Sample Date	Aug 18, 2015	Aug 18, 2015	Aug 18, 2015	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	P415-8W	P415-BDW1	P415-FB	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total						
Mercury	Total	mg/L	<0.000005	<0.000005	<0.000005	0.000005
Arsenic	Total	mg/L	0.0016	0.0004	<0.0002	0.0002
Cadmium	Total	mg/L	0.00001	0.00003	<0.00001	0.00001
Chromium	Total	mg/L	0.0285	0.0079	<0.0005	0.0005
Cobalt	Total	mg/L	0.0005	0.0072	<0.0001	0.0001
Copper	Total	mg/L	0.01	0.009	<0.001	0.001
Lead	Total	mg/L	0.0008		<0.0001	0.0001
Lithium	Total	mg/L		0.029		0.001
Nickel	Total	mg/L	0.0142	0.0401	<0.0005	0.0005
Zinc	Total	mg/L	0.008	0.060	0.002	0.001
Mono-Aromatic Hydrocarbons - Water						
Benzene		mg/L	<0.001	<0.001	<0.001	0.001
Toluene		mg/L	<0.0004	<0.0004	<0.0004	0.0004
Ethylbenzene		mg/L	<0.001	<0.001	<0.001	0.001
Total Xylenes (m,p,o)		mg/L	<0.001	<0.001	<0.001	0.001
Volatile Petroleum Hydrocarbons - Water						
F1 -BTEX		mg/L	<0.1	<0.1	<0.1	0.1
F1 C6-C10		mg/L	<0.1	<0.1	<0.1	0.1
F2 C10-C16		mg/L	0.2	<0.1	<0.1	0.1
Extractable Petroleum Hydrocarbons - Water						
F3 C16-C34		mg/L	<0.1	<0.1	<0.1	0.1
F3+ C34+		mg/L	<0.1	<0.1	<0.1	0.1
Polychlorinated Biphenyls - Water						
Aroclor 1016		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1221		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1232		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1242		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1248		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1254		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1260		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1262		ug/L	<0.05	<0.05	<0.05	0.05
Aroclor 1268		ug/L	<0.05	<0.05	<0.05	0.05
Total PCBs		ug/L	<0.05	<0.05	<0.05	0.05
Polychlorinated Biphenyls - Water - Surrogate						
Decachlorobiphenyl	Surrogate	%	97	95	96	50-150

Analytical Report

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Reference Number 1089483-81
Sample Date Aug 18, 2015
Sample Time NA
Sample Location
Sample Description P2/P4-TB
Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Metals Total					
Mercury Total	mg/L	<0.000005			0.000005
Arsenic Total	mg/L	<0.0002			0.0002
Cadmium Total	mg/L	<0.00001			0.00001
Chromium Total	mg/L	<0.0005			0.0005
Cobalt Total	mg/L	<0.0001			0.0001
Copper Total	mg/L	<0.001			0.001
Lead Total	mg/L	<0.0001			0.0001
Nickel Total	mg/L	<0.0005			0.0005
Zinc Total	mg/L	0.002			0.001
Mono-Aromatic Hydrocarbons - Water					
Benzene	mg/L	<0.001			0.001
Toluene	mg/L	<0.0004			0.0004
Ethylbenzene	mg/L	<0.001			0.001
Total Xylenes (m,p,o)	mg/L	<0.001			0.001
Volatile Petroleum Hydrocarbons - Water					
F1 -BTEX	mg/L	<0.1			0.1
F1 C6-C10	mg/L	<0.1			0.1
F2 C10-C16	mg/L	<0.1			0.1
Extractable Petroleum Hydrocarbons - Water					
F3 C16-C34	mg/L	<0.1			0.1
F3+ C34+	mg/L	<0.1			0.1
Polychlorinated Biphenyls - Water					
Aroclor 1016	ug/L	<0.05			0.05
Aroclor 1221	ug/L	<0.05			0.05
Aroclor 1232	ug/L	<0.05			0.05
Aroclor 1242	ug/L	<0.05			0.05
Aroclor 1248	ug/L	<0.05			0.05
Aroclor 1254	ug/L	<0.05			0.05
Aroclor 1260	ug/L	<0.05			0.05
Aroclor 1262	ug/L	<0.05			0.05
Aroclor 1268	ug/L	<0.05			0.05
Total PCBs	ug/L	<0.05			0.05
Polychlorinated Biphenyls - Water - Surrogate					
Decachlorobiphenyl Surrogate	%	95			50-150

Analytical Report

Bill To:	SILA Remediation	Project:		Lot ID:	1089483
Report To:	SILA Remediation	ID:	KITIK13	Control Number:	C0008969
	250-1260 Boul Lebourgneuf	Name:	Pin-4	Date Received:	Aug 21, 2015
	Quebec, QC, Canada	Location:	Byron Bay	Date Reported:	Dec 23, 2015
	G2K 2G2	LSD:		Report Number:	2071648
Attn:	Jean-Pierre Pelletier	P.O.:			
Sampled By:	A. Passalis	Acct code:			
Company:	Sila Remediation				

Approved by:



Benjamin Morris, B.Sc
Client Services Team Leader

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).

Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Methodology and Notes

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
BTEX-CCME - Soil	CCME	* Reference Method for Canada-Wide Standard for PHC in Soil, CWS PHCS TIER 1	22-Aug-15	Exova Calgary
BTEX-CCME - Soil	US EPA	* Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis/Gas Chromatography Mass Spectrometry, 5021/8260	22-Aug-15	Exova Calgary
BTEX-CCME - Water	US EPA	* Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis/Gas Chromatography Mass Spectrometry, 5021/8260	22-Aug-15	Exova Calgary
Mercury (Hot Block) in Soil	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	26-Aug-15	Exova Edmonton
Mercury (Total) in water	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	25-Aug-15	Exova Edmonton
Metals ICP (Hot Block) in soil	EPA	* Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements, October 1999, 200.2	26-Aug-15	Exova Edmonton
Metals ICP-MS (Total) in water	APHA/USEPA	* Metals By Inductively Coupled Plasma/Mass Spectrometry, APHA 3125 B / USEPA 200.2, 200.8	24-Aug-15	Exova Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	24-Aug-15	Exova Edmonton
PCB - Soil	US EPA	* Polychlorinated Biphenyls (PCBs) by Gas Chromatography, 8082A	22-Aug-15	Exova Calgary
PCB - Water	US EPA	* Polychlorinated Biphenyls (PCBs) by Gas Chromatography, 8082A	22-Aug-15	Exova Calgary
TEH-CCME - Water	EPA/CCME	* Separatory Funnel Liquid-liquid Extraction/CCME, EPA 3510/CCME	22-Aug-15	Exova Calgary
TEH-CCME-Soil (Shake)	CCME	* Reference Method for Canada-Wide Standard for PHC in Soil, CWS PHCS TIER 1	22-Aug-15	Exova Calgary

** Reference Method Modified*

References

APHA	Standard Methods for the Examination of Water and Wastewater
CCME	Canadian Council of Ministers of the Environment
EPA/CCME	Environmental Protection Agency Test Methods - US/CCME
SW-846	Test Methods for Evaluating Solid Waste
US EPA	US Environmental Protection Agency Test Methods

Methodology and Notes

Bill To:	SILA Remediation	Project:		Lot ID:	1089483
Report To:	SILA Remediation	ID:	KITIK13	Control Number:	C0008969
	250-1260 Boul Lebourgneuf	Name:	Pin-4	Date Received:	Aug 21, 2015
	Quebec, QC, Canada	Location:	Byron Bay	Date Reported:	Dec 23, 2015
	G2K 2G2	LSD:		Report Number:	2071648
Attn:	Jean-Pierre Pelletier	P.O.:			
Sampled By:	A. Passalis	Acct code:			
Company:	Sila Remediation				

Comments:

- Report was issued to remove the metals not originally requested and to adjust detection limits for extractable hydrocarbons and PCB's as requested by Jean-Pierre Pelletier of Englobe. Previous report 2036230.
- Note that due to required lower detection limit for PCB analysis in both water and soil the Nominal Detection limit was set to 0.05.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

Analytical Report

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Petroleum Hydrocarbons in Soil

Batch Notes

1. The method used complies with the Reference Method for the Canada Wide Standards for Petroleum Hydrocarbons in Soil - Tier 1, April 2001, including Addendum 1, and is accredited for use in Exova.
2. Modifications of the method: See Notes and Methodology for nonconformances (if applicable).
3. Qualifications on results: See Notes and Methodology for nonconformances (if applicable).
4. Silica gel treatment is performed for fractions F2, F3, F4.
5. F1-BTEX: BTEX has been subtracted from the F1 fraction.
6. If analyzed, naphthalene has been subtracted from fraction F2 and selected PAHs have been subtracted from fraction F3.
7. F4HTGC is reported when more than 5% of the total carbon envelope elutes past C₅₀.
8. Exova does not routinely report Gravimetric Heavy Hydrocarbons (F4G or F4G-sg), F4HTGC through extended range high temperature GC is reported instead.
9. When both F4(C₃₄-C₅₀) and F4HTGC are reported, F4HTGC is the final F4 that is to be used for interpreting the CWS.
10. Quality criteria met for the batch: Data is reported in Quality Control Section of report (if requested).
 - nC₆ and nC₁₀ response factors (RF) are within 30% of RF for toluene
 - nC₁₀, nC₁₆ and nC₃₄ RFs are within 10% of each other
 - nC₅₀ RF is within 30% of the average RF for nC₁₀+nC₁₆+nC₃₄
 - linearity is within 15% for each of the calibrated carbon ranges
11. Batch data for analytical quality control are available on request.
12. Extraction and analysis holding times were met: See Notes and Methodology for nonconformances (if applicable).

Approved by:



Benjamin Morris, B.Sc
Client Services Team Leader

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Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1471965-2 August 26, 2015					
Antimony	ug/L	0.0258162	-0.1	0.2	yes
Arsenic	ug/L	-0.0153895	-0.2	0.2	yes
Barium	ug/L	0.614843	-1	1	yes
Beryllium	ug/L	0.00270712	-0.1	0.1	yes
Cadmium	ug/L	-0.000203826	-0.01	0.01	yes
Chromium	ug/L	0.0214709	-0.5	0.5	yes
Cobalt	ug/L	0.00563506	-0.1	0.1	yes
Copper	ug/L	0.638428	-0.6	1.2	yes
Lead	ug/L	0.932487	-5.0	5.0	yes
Molybdenum	ug/L	0.0525573	-1.0	1.0	yes
Nickel	ug/L	-0.0454821	-0.4	0.7	yes
Selenium	ug/L	0.00217817	-0.3	0.3	yes
Silver	ug/L	0.000677359	-0.09	0.14	yes
Thallium	ug/L	0.000773556	-0.04	0.04	yes
Tin	ug/L	4.23073	0.0	7.2	yes
Uranium	ug/L	0.0154469	-0.5	0.5	yes
Vanadium	ug/L	0.0162232	-0.1	0.1	yes
Zinc	ug/L	-0.000520444	-1	1	yes
1471967-2 August 26, 2015					
Antimony	ug/L	0.00889741	-0.1	0.2	yes
Arsenic	ug/L	-0.00841261	-0.2	0.2	yes
Barium	ug/L	0.051137	-1	1	yes
Beryllium	ug/L	-0.000240237	-0.1	0.1	yes
Cadmium	ug/L	-0.000400023	-0.01	0.01	yes
Chromium	ug/L	0.0222676	-0.5	0.5	yes
Cobalt	ug/L	0.00539086	-0.1	0.1	yes
Copper	ug/L	0.0252459	-0.6	1.2	yes
Lead	ug/L	0.0361166	-5.0	5.0	yes
Molybdenum	ug/L	0.0042126	-1.0	1.0	yes
Nickel	ug/L	-0.0527418	-0.4	0.7	yes
Selenium	ug/L	0.00356983	-0.3	0.3	yes
Silver	ug/L	-0.000308542	-0.09	0.14	yes
Thallium	ug/L	0.000510321	-0.04	0.04	yes
Tin	ug/L	4.27158	0.0	7.2	yes
Uranium	ug/L	0.00384207	-0.5	0.5	yes
Vanadium	ug/L	0.0412366	-0.1	0.1	yes
Zinc	ug/L	-0.0864899	-1	1	yes
1471969-2 August 26, 2015					
Antimony	ug/L	0.0613573	-0.1	0.2	yes
Arsenic	ug/L	0.0133572	-0.2	0.2	yes
Barium	ug/L	0.604817	-1	1	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Beryllium	ug/L	0	-0.1	0.1	yes
Cadmium	ug/L	0.000691332	-0.01	0.01	yes
Chromium	ug/L	0.0206683	-0.5	0.5	yes
Cobalt	ug/L	0.00892718	-0.1	0.1	yes
Copper	ug/L	0.0543978	-0.6	1.2	yes
Lead	ug/L	0.0510003	-5.0	5.0	yes
Molybdenum	ug/L	0.0514926	-1.0	1.0	yes
Nickel	ug/L	0.0957608	-0.4	0.7	yes
Selenium	ug/L	0.00405218	-0.3	0.3	yes
Silver	ug/L	0.00207258	-0.09	0.14	yes
Thallium	ug/L	0.00129589	-0.04	0.04	yes
Tin	ug/L	4.09827	0.0	7.2	yes
Uranium	ug/L	0.0546399	-0.5	0.5	yes
Vanadium	ug/L	0.0357083	-0.1	0.1	yes
Zinc	ug/L	0.135804	-1	1	yes
1471971-2 August 26, 2015					
Antimony	ug/L	0.063298	-0.1	0.2	yes
Arsenic	ug/L	0.0133072	-0.2	0.2	yes
Barium	ug/L	0.134892	-1	1	yes
Beryllium	ug/L	0.00610868	-0.1	0.1	yes
Cadmium	ug/L	-0.000470209	-0.01	0.01	yes
Chromium	ug/L	0.0173845	-0.5	0.5	yes
Cobalt	ug/L	0.00718365	-0.1	0.1	yes
Copper	ug/L	0.0986017	-0.6	1.2	yes
Lead	ug/L	0.0207998	-5.0	5.0	yes
Molybdenum	ug/L	0.0416667	-1.0	1.0	yes
Nickel	ug/L	0.0757164	-0.4	0.7	yes
Selenium	ug/L	-0.000537941	-0.3	0.3	yes
Silver	ug/L	0.000573551	-0.09	0.14	yes
Thallium	ug/L	0.000837876	-0.04	0.04	yes
Tin	ug/L	4.42398	0.0	7.2	yes
Uranium	ug/L	0.00816861	-0.5	0.5	yes
Vanadium	ug/L	0.036383	-0.1	0.1	yes
Zinc	ug/L	0.0846006	-1	1	yes
1471973-4 August 26, 2015					
Mercury	ug/L	-0.01	-0.07	0.13	yes
1471975-4 August 26, 2015					
Mercury	ug/L	-0.02	-0.07	0.13	yes
1471976-4 August 26, 2015					
Mercury	ug/L	-0.01	-0.07	0.13	yes
1471978-4 August 26, 2015					

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
Mercury	ug/L	0	-0.07	0.13		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1471965-4		August 26, 2015				
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	3.6	3.8	20	0.4	yes
Barium	mg/kg	19	20	20	2	yes
Beryllium	mg/kg	0.2	0.2	20	0.2	yes
Cadmium	mg/kg	0.04	0.05	20	0.02	yes
Chromium	mg/kg	11.6	11.9	20	1.1	yes
Cobalt	mg/kg	3.4	3.3	20	0.2	yes
Copper	mg/kg	5.6	6.1	20	2.2	yes
Lead	mg/kg	12.4	12.2	20	0.2	yes
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	7.5	7.3	20	1.1	yes
Selenium	mg/kg	<0.3	<0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	<0.05	0.05	20	0.11	yes
Tin	mg/kg	2.8	3.2	20	2.2	yes
Uranium	mg/kg	<0.5	<0.5	20	1.1	yes
Vanadium	mg/kg	14.0	15.2	20	0.2	yes
Zinc	mg/kg	7	8	20	2	yes
1471965-21		August 26, 2015				
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	3.3	3.9	20	0.4	yes
Barium	mg/kg	16	17	20	2	yes
Beryllium	mg/kg	0.3	0.3	20	0.2	yes
Cadmium	mg/kg	0.01	0.02	20	0.02	yes
Chromium	mg/kg	8.9	9.6	20	1.1	yes
Cobalt	mg/kg	3.3	3.1	20	0.2	yes
Copper	mg/kg	6.2	6.3	20	2.2	yes
Lead	mg/kg	5.2	5.4	20	0.2	yes
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	8.1	8.5	20	1.1	yes
Selenium	mg/kg	<0.3	<0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	0.06	0.06	20	0.11	yes
Tin	mg/kg	2.6	2.7	20	2.2	yes
Uranium	mg/kg	0.6	0.8	20	1.1	yes
Vanadium	mg/kg	16.8	19.0	20	0.2	yes
Zinc	mg/kg	4	4	20	2	yes
1471967-4		August 26, 2015				
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Arsenic	mg/kg	3.0	3.4	20	0.4	yes
Barium	mg/kg	47	49	20	2	yes
Beryllium	mg/kg	0.3	0.3	20	0.2	yes
Cadmium	mg/kg	0.06	0.07	20	0.02	yes
Chromium	mg/kg	9.2	10.0	20	1.1	yes
Cobalt	mg/kg	3.6	4.0	20	0.2	yes
Copper	mg/kg	12.8	13.9	20	2.2	yes
Lead	mg/kg	4.9	5.6	20	0.2	yes
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	8.5	8.7	20	1.1	yes
Selenium	mg/kg	<0.3	<0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	0.08	0.08	20	0.11	yes
Tin	mg/kg	2.6	2.6	20	2.2	yes
Uranium	mg/kg	1.3	1.2	20	1.1	yes
Vanadium	mg/kg	15.0	17.1	20	0.2	yes
Zinc	mg/kg	8	10	20	2	yes
1471967-21 August 26, 2015						
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	4.0	3.6	20	0.4	yes
Barium	mg/kg	22	20	20	2	yes
Beryllium	mg/kg	0.2	0.2	20	0.2	yes
Cadmium	mg/kg	0.03	0.03	20	0.02	yes
Chromium	mg/kg	9.0	9.5	20	1.1	yes
Cobalt	mg/kg	3.9	3.6	20	0.2	yes
Copper	mg/kg	7.2	6.5	20	2.2	yes
Lead	mg/kg	11.6	10.4	20	0.2	yes
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	8.8	8.6	20	1.1	yes
Selenium	mg/kg	<0.3	<0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	0.06	0.06	20	0.11	yes
Tin	mg/kg	3.3	2.9	20	2.2	yes
Uranium	mg/kg	0.8	0.8	20	1.1	yes
Vanadium	mg/kg	15.9	16.3	20	0.2	yes
Zinc	mg/kg	4	4	20	2	yes
1471969-4 August 26, 2015						
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	3.9	4.0	20	0.4	yes
Barium	mg/kg	21	22	20	2	yes
Beryllium	mg/kg	0.3	0.4	20	0.2	yes
Cadmium	mg/kg	0.04	0.04	20	0.02	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Chromium	mg/kg	11.2	11.0	20	1.1	yes
Cobalt	mg/kg	5.4	5.5	20	0.2	yes
Copper	mg/kg	10.5	11.2	20	2.2	yes
Lead	mg/kg	12.8	11.6	20	0.2	yes
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	13.9	13.7	20	1.1	yes
Selenium	mg/kg	<0.3	<0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	0.12	0.12	20	0.11	yes
Tin	mg/kg	2.6	2.9	20	2.2	yes
Uranium	mg/kg	0.8	0.9	20	1.1	yes
Vanadium	mg/kg	20.6	20.5	20	0.2	yes
Zinc	mg/kg	8	9	20	2	yes
1471969-21 August 26, 2015						
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	4.1	4.3	20	0.4	yes
Barium	mg/kg	45	46	20	2	yes
Beryllium	mg/kg	0.5	0.6	20	0.2	yes
Cadmium	mg/kg	0.09	0.09	20	0.02	yes
Chromium	mg/kg	12.9	13.5	20	1.1	yes
Cobalt	mg/kg	15.5	16.8	20	0.2	yes
Copper	mg/kg	70.1	73.3	20	2.2	yes
Lead	mg/kg	11.3	12.7	20	0.2	yes
Molybdenum	mg/kg	7.4	7.7	20	2.2	yes
Nickel	mg/kg	42.0	43.5	20	1.1	yes
Selenium	mg/kg	0.6	0.7	20	0.7	yes
Silver	mg/kg	0.1	0.1	20	0.22	yes
Thallium	mg/kg	1.21	1.25	20	0.11	yes
Tin	mg/kg	2.2	2.2	20	2.2	yes
Uranium	mg/kg	15.4	17.9	20	1.1	yes
Vanadium	mg/kg	21.2	22.4	20	0.2	yes
Zinc	mg/kg	69	70	20	2	yes
1471971-4 August 26, 2015						
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	2.5	2.5	20	0.4	yes
Barium	mg/kg	35	33	20	2	yes
Beryllium	mg/kg	0.4	0.5	20	0.2	yes
Cadmium	mg/kg	0.01	0.01	20	0.02	yes
Chromium	mg/kg	9.3	9.5	20	1.1	yes
Cobalt	mg/kg	7.5	7.1	20	0.2	yes
Copper	mg/kg	24.1	22.7	20	2.2	yes
Lead	mg/kg	3.3	3.8	20	0.2	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	15.6	14.0	20	1.1	yes
Selenium	mg/kg	<0.3	<0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	0.13	0.12	20	0.11	yes
Tin	mg/kg	2.6	2.6	20	2.2	yes
Uranium	mg/kg	0.8	0.7	20	1.1	yes
Vanadium	mg/kg	14.4	13.9	20	0.2	yes
Zinc	mg/kg	22	18	20	2	yes
1471971-21		August 26, 2015				
Antimony	mg/kg	<0.2	<0.2	20	0.4	yes
Arsenic	mg/kg	3.0	2.6	20	0.4	yes
Barium	mg/kg	81	83	20	2	yes
Beryllium	mg/kg	0.3	0.2	20	0.2	yes
Cadmium	mg/kg	0.09	0.08	20	0.02	yes
Chromium	mg/kg	6.2	6.3	20	1.1	yes
Cobalt	mg/kg	2.2	2.3	20	0.2	yes
Copper	mg/kg	8.2	7.2	20	2.2	yes
Lead	mg/kg	6.7	5.8	20	0.2	yes
Molybdenum	mg/kg	<1.0	<1.0	20	2.2	yes
Nickel	mg/kg	5.1	5.2	20	1.1	yes
Selenium	mg/kg	0.3	0.3	20	0.7	yes
Silver	mg/kg	<0.1	<0.1	20	0.22	yes
Thallium	mg/kg	0.06	<0.05	20	0.11	yes
Tin	mg/kg	2.8	2.6	20	2.2	yes
Uranium	mg/kg	0.8	0.7	20	1.1	yes
Vanadium	mg/kg	13.1	11.9	20	0.2	yes
Zinc	mg/kg	10	9	20	2	yes
1471973-5		August 26, 2015				
Mercury	mg/kg	0.01	0.02	10	0.03	yes
1471973-22		August 26, 2015				
Mercury	mg/kg	<0.01	0.01	10	0.03	yes
1471975-5		August 26, 2015				
Mercury	mg/kg	0.02	0.02	10	0.03	yes
1471975-22		August 26, 2015				
Mercury	mg/kg	0.01	0.01	10	0.03	yes
1471976-5		August 26, 2015				
Mercury	mg/kg	0.01	0.01	10	0.03	yes
1471976-22		August 26, 2015				
Mercury	mg/kg	0.04	0.04	10	0.03	yes
1471978-5		August 26, 2015				

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Mercury	mg/kg	<0.01	<0.01	10	0.03	yes
1471978-22		August 26, 2015				
Mercury	mg/kg	0.03	0.04	10	0.03	yes
Control Sample	Units	Measured	Lower Limit	Upper Limit		Passed QC
1471965-1		August 26, 2015				
Antimony	mg/kg	40.3	34.2	42.0		yes
Arsenic	mg/kg	39.9	36.3	43.9		yes
Barium	mg/kg	202	189	219		yes
Beryllium	mg/kg	18.3	17.4	22.2		yes
Cadmium	mg/kg	2.09	1.88	2.28		yes
Chromium	mg/kg	101	94.2	107.8		yes
Cobalt	mg/kg	19.9	18.5	22.5		yes
Copper	mg/kg	195	179.5	210.5		yes
Lead	mg/kg	19.2	18.6	21.8		yes
Molybdenum	mg/kg	206	186.8	222.8		yes
Nickel	mg/kg	96.9	91.6	108.4		yes
Selenium	mg/kg	39.2	36.1	42.9		yes
Silver	mg/kg	20.3	18.70	22.90		yes
Thallium	mg/kg	10.3	9.57	11.23		yes
Tin	mg/kg	203	185.9	215.9		yes
Uranium	mg/kg	99.1	90.3	108.0		yes
Vanadium	mg/kg	20.5	18.4	22.4		yes
Zinc	mg/kg	200	180	220		yes
1471967-1		August 26, 2015				
Antimony	mg/kg	39.0	34.2	42.0		yes
Arsenic	mg/kg	40.3	36.3	43.9		yes
Barium	mg/kg	197	189	219		yes
Beryllium	mg/kg	18.1	17.4	22.2		yes
Cadmium	mg/kg	2.00	1.88	2.28		yes
Chromium	mg/kg	102	94.2	107.8		yes
Cobalt	mg/kg	20.3	18.5	22.5		yes
Copper	mg/kg	193	179.5	210.5		yes
Lead	mg/kg	18.8	18.6	21.8		yes
Molybdenum	mg/kg	207	186.8	222.8		yes
Nickel	mg/kg	97.6	91.6	108.4		yes
Selenium	mg/kg	37.9	36.1	42.9		yes
Silver	mg/kg	19.1	18.70	22.90		yes
Thallium	mg/kg	9.75	9.57	11.23		yes
Tin	mg/kg	199	185.9	215.9		yes
Uranium	mg/kg	93.7	90.3	108.0		yes
Vanadium	mg/kg	20.7	18.4	22.4		yes
Zinc	mg/kg	198	180	220		yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
1471969-1 August 26, 2015					
Antimony	mg/kg	39.6	34.2	42.0	yes
Arsenic	mg/kg	40.2	36.3	43.9	yes
Barium	mg/kg	209	189	219	yes
Beryllium	mg/kg	19.7	17.4	22.2	yes
Cadmium	mg/kg	2.10	1.88	2.28	yes
Chromium	mg/kg	100	94.2	107.8	yes
Cobalt	mg/kg	20.2	18.5	22.5	yes
Copper	mg/kg	199	179.5	210.5	yes
Lead	mg/kg	20.9	18.6	21.8	yes
Molybdenum	mg/kg	204	186.8	222.8	yes
Nickel	mg/kg	99.0	91.6	108.4	yes
Selenium	mg/kg	41.7	36.1	42.9	yes
Silver	mg/kg	21.3	18.70	22.90	yes
Thallium	mg/kg	10.5	9.57	11.23	yes
Tin	mg/kg	205	185.9	215.9	yes
Vanadium	mg/kg	19.9	18.4	22.4	yes
Zinc	mg/kg	199	180	220	yes
1471971-1 August 26, 2015					
Antimony	mg/kg	39.0	34.2	42.0	yes
Arsenic	mg/kg	40.1	36.3	43.9	yes
Barium	mg/kg	203	189	219	yes
Beryllium	mg/kg	19.5	17.4	22.2	yes
Cadmium	mg/kg	2.09	1.88	2.28	yes
Chromium	mg/kg	98.5	94.2	107.8	yes
Cobalt	mg/kg	20.0	18.5	22.5	yes
Copper	mg/kg	196	179.5	210.5	yes
Lead	mg/kg	19.8	18.6	21.8	yes
Molybdenum	mg/kg	202	186.8	222.8	yes
Nickel	mg/kg	99.8	91.6	108.4	yes
Selenium	mg/kg	40.2	36.1	42.9	yes
Silver	mg/kg	20.5	18.70	22.90	yes
Thallium	mg/kg	10.1	9.57	11.23	yes
Tin	mg/kg	199	185.9	215.9	yes
Uranium	mg/kg	97.6	90.3	108.0	yes
Vanadium	mg/kg	19.6	18.4	22.4	yes
Zinc	mg/kg	200	180	220	yes
1471973-2 August 26, 2015					
Mercury	mg/kg	0.31	0.28	0.34	yes
1471975-2 August 26, 2015					
Mercury	mg/kg	0.31	0.28	0.34	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
1471976-2		August 26, 2015			
Mercury	mg/kg	0.31	0.28	0.34	yes
1471978-2		August 26, 2015			
Mercury	mg/kg	0.31	0.28	0.34	yes
1471973-1		August 26, 2015			
Mercury	mg/kg	0.08	0.05	0.11	yes
1471975-1		August 26, 2015			
Mercury	mg/kg	0.08	0.05	0.11	yes
1471976-1		August 26, 2015			
Mercury	mg/kg	0.08	0.05	0.11	yes
1471978-1		August 26, 2015			
Mercury	mg/kg	0.08	0.05	0.11	yes
1471965-3		August 26, 2015			
Antimony	mg/kg	1	0.3	1.1	yes
Arsenic	mg/kg	97.4	74.0	106.0	yes
Barium	mg/kg	268	227	287	yes
Beryllium	mg/kg	0.7	0.4	0.9	yes
Cadmium	mg/kg	2.11	1.49	2.63	yes
Chromium	mg/kg	38.2	31.0	42.8	yes
Cobalt	mg/kg	14.4	11.4	16.0	yes
Copper	mg/kg	212	185.0	227.0	yes
Lead	mg/kg	132	106.0	154.0	yes
Molybdenum	mg/kg	2.9	2.1	4.0	yes
Nickel	mg/kg	74.6	51.8	78.2	yes
Selenium	mg/kg	0.7	0.3	0.9	yes
Silver	mg/kg	0.8	0.42	1.38	yes
Thallium	mg/kg	0.36	0.29	0.43	yes
Tin	mg/kg	4.5	2.4	6.8	yes
Uranium	mg/kg	1.4	1.0	1.6	yes
Vanadium	mg/kg	44.8	37.6	47.2	yes
Zinc	mg/kg	526	470	572	yes
1471967-3		August 26, 2015			
Antimony	mg/kg	0.9	0.3	1.1	yes
Arsenic	mg/kg	97.9	74.0	106.0	yes
Barium	mg/kg	254	227	287	yes
Beryllium	mg/kg	0.7	0.4	0.9	yes
Cadmium	mg/kg	1.96	1.49	2.63	yes
Chromium	mg/kg	38.1	31.0	42.8	yes
Cobalt	mg/kg	13.9	11.4	16.0	yes
Copper	mg/kg	199	185.0	227.0	yes
Lead	mg/kg	123	106.0	154.0	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Molybdenum	mg/kg	3.1	2.1	4.0	yes
Nickel	mg/kg	63.5	51.8	78.2	yes
Selenium	mg/kg	0.7	0.3	0.9	yes
Silver	mg/kg	0.9	0.42	1.38	yes
Thallium	mg/kg	0.34	0.29	0.43	yes
Tin	mg/kg	4.0	2.4	6.8	yes
Uranium	mg/kg	1.3	1.0	1.6	yes
Vanadium	mg/kg	44.3	37.6	47.2	yes
Zinc	mg/kg	514	470	572	yes
1471969-3 August 26, 2015					
Antimony	mg/kg	1	0.3	1.1	yes
Arsenic	mg/kg	89.7	74.0	106.0	yes
Barium	mg/kg	263	227	287	yes
Beryllium	mg/kg	0.6	0.4	0.9	yes
Cadmium	mg/kg	2.03	1.49	2.63	yes
Chromium	mg/kg	34.9	31.0	42.8	yes
Cobalt	mg/kg	13.6	11.4	16.0	yes
Copper	mg/kg	208	185.0	227.0	yes
Lead	mg/kg	133	106.0	154.0	yes
Molybdenum	mg/kg	3.1	2.1	4.0	yes
Nickel	mg/kg	64.8	51.8	78.2	yes
Selenium	mg/kg	0.7	0.3	0.9	yes
Silver	mg/kg	1	0.42	1.38	yes
Thallium	mg/kg	0.35	0.29	0.43	yes
Tin	mg/kg	4.0	2.4	6.8	yes
Uranium	mg/kg	1.5	1.0	1.6	yes
Vanadium	mg/kg	40.6	37.6	47.2	yes
Zinc	mg/kg	499	470	572	yes
1471971-3 August 26, 2015					
Antimony	mg/kg	0.9	0.3	1.1	yes
Arsenic	mg/kg	91.5	74.0	106.0	yes
Barium	mg/kg	260	227	287	yes
Beryllium	mg/kg	0.7	0.4	0.9	yes
Cadmium	mg/kg	2.10	1.49	2.63	yes
Chromium	mg/kg	35.3	31.0	42.8	yes
Cobalt	mg/kg	14.5	11.4	16.0	yes
Copper	mg/kg	203	185.0	227.0	yes
Lead	mg/kg	130	106.0	154.0	yes
Molybdenum	mg/kg	2.9	2.1	4.0	yes
Nickel	mg/kg	61.2	51.8	78.2	yes
Selenium	mg/kg	0.7	0.3	0.9	yes
Silver	mg/kg	0.9	0.42	1.38	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Strong Acid Digestion - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Thallium	mg/kg	0.35	0.29	0.43	yes
Tin	mg/kg	4.0	2.4	6.8	yes
Uranium	mg/kg	1.3	1.0	1.6	yes
Vanadium	mg/kg	42.1	37.6	47.2	yes
Zinc	mg/kg	524	470	572	yes
1471973-3		August 26, 2015			
Mercury	mg/kg	0.34	0.15	0.42	yes
1471975-3		August 26, 2015			
Mercury	mg/kg	0.29	0.15	0.42	yes
1471976-3		August 26, 2015			
Mercury	mg/kg	0.24	0.15	0.42	yes
1471978-3		August 26, 2015			
Mercury	mg/kg	0.28	0.15	0.42	yes

Metals Total

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1471254-5		August 24, 2015			
Aluminum	mg/L	-0.0064	-0.01	0.02	yes
Calcium	mg/L	-0.0593	-0.1	0.1	yes
Iron	mg/L	-0.0006	-0.01	0.02	yes
Magnesium	mg/L	-0.0104	-0.04	0.04	yes
Manganese	mg/L	-0.0018	-0.003	0.003	yes
Potassium	mg/L	0.0352	-0.1	0.2	yes
Silicon	mg/L	0.0042	-0.03	0.04	yes
Sodium	mg/L	-0.005	-0.1	0.2	yes
Sulfur	mg/L	0.0117	-0.1	0.2	yes
1471255-5		August 24, 2015			
Antimony	ug/L	-0.012698	-0.2	0.2	yes
Arsenic	ug/L	0.00603979	-0.2	0.2	yes
Barium	ug/L	0.0167363	-1	1	yes
Beryllium	ug/L	0.00111591	-0.1	0.1	yes
Bismuth	ug/L	0.00459623	-0.5	0.5	yes
Boron	ug/L	1.12599	-1	3	yes
Cadmium	ug/L	-0.000402762	-0.007	0.012	yes
Chromium	ug/L	0.00206851	-0.7	0.3	yes
Cobalt	ug/L	0.00107846	-0.1	0.1	yes
Copper	ug/L	-0.00021954	-1	1	yes
Lead	ug/L	0.00628757	-0.1	0.1	yes
Lithium	ug/L	0.0428298	-1	1	yes
Molybdenum	ug/L	0.00392857	-1	1	yes
Nickel	ug/L	-0.0019175	-0.5	0.5	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Metals Total - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC	
Selenium	ug/L	0.00124179	-0.2	0.2	yes	
Silver	ug/L	-0.000887556	-0.02	0.10	yes	
Strontium	ug/L	0.0100428	-1	1	yes	
Thallium	ug/L	0.000509783	-0.05	0.05	yes	
Tin	ug/L	-0.0168559	-1	1	yes	
Titanium	ug/L	0.0490963	-0.5	0.5	yes	
Uranium	ug/L	0.000742795	-0.5	0.5	yes	
Vanadium	ug/L	-0.00123259	-0.1	0.1	yes	
Zinc	ug/L	0.693808	-0	1	yes	
Zirconium	ug/L	0.00838731	-1	1	yes	
1471574-5 August 25, 2015						
Mercury	ug/L	0.001	-0.038000	0.070000	yes	
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1471254-34 August 24, 2015						
Aluminum	mg/L	<0.04	<0.04	15	0.03	yes
Calcium	mg/L	229	232	15	0.6	yes
Iron	mg/L	0.1	0.1	15	0.20	yes
Magnesium	mg/L	164	166	15	0.40	yes
Manganese	mg/L	0.328	0.331	15	0.010	yes
Potassium	mg/L	23.7	23.9	15	1.2	yes
Silicon	mg/L	3.76	3.80	15	0.10	yes
Sodium	mg/L	294	296	15	1.2	yes
Sulfur	mg/L	288	292	15	0.1	yes
1471255-10 August 24, 2015						
Antimony	ug/L	<50	<50	15	0.4	yes
Arsenic	ug/L	<50	<50	15	0.4	yes
Barium	ug/L	2600	2600	15	2	yes
Beryllium	ug/L	<30	<30	15	0.2	yes
Bismuth	ug/L	<100	<100	15	1.1	yes
Boron	ug/L	19000	18000	15	4	yes
Cadmium	ug/L	<1	<1	15	0.022	yes
Chromium	ug/L	<100	<100	15	1.1	yes
Cobalt	ug/L	<30	<30	15	0.2	yes
Copper	ug/L	<200	<200	15	2	yes
Lead	ug/L	<30	<30	15	0.2	yes
Lithium	ug/L	7100	7000	15	2	yes
Molybdenum	ug/L	<200	<200	15	2	yes
Nickel	ug/L	<100	<100	15	1.1	yes
Selenium	ug/L	<50	<50	15	0.4	yes
Silver	ug/L	<2	<2	15	0.22	yes
Strontium	ug/L	852000	832000	15	2	yes
Thallium	ug/L	<10	<10	15	0.11	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Tin	ug/L	<200	<200	15	2	yes
Titanium	ug/L	<100	<100	15	1.1	yes
Uranium	ug/L	<100	<100	15	1.1	yes
Vanadium	ug/L	<30	<30	15	0.2	yes
Zinc	ug/L	<200	<200	15	2	yes
Zirconium	ug/L	<200	<200	15	2	yes
1471255-30 August 24, 2015						
Antimony	ug/L	<1	<1	15	0.4	yes
Arsenic	ug/L	<1	<1	15	0.4	yes
Barium	ug/L	140	140	15	2	yes
Beryllium	ug/L	<0.5	<0.5	15	0.2	yes
Bismuth	ug/L	<2	<2	15	1.1	yes
Boron	ug/L	977	966	15	4	yes
Cadmium	ug/L	0.04	0.053	15	0.022	yes
Chromium	ug/L	7.8	7.3	15	1.1	yes
Cobalt	ug/L	0.8	0.8	15	0.2	yes
Copper	ug/L	7	7	15	2	yes
Lead	ug/L	<0.5	<0.5	15	0.2	yes
Lithium	ug/L	53	52	15	2	yes
Molybdenum	ug/L	5	5	15	2	yes
Nickel	ug/L	22	22	15	1.1	yes
Selenium	ug/L	<1	<1	15	0.4	yes
Silver	ug/L	<0.05	<0.05	15	0.22	yes
Strontium	ug/L	594	571	15	2	yes
Thallium	ug/L	<0.3	<0.3	15	0.11	yes
Tin	ug/L	<5	<5	15	2	yes
Titanium	ug/L	7.6	6.7	15	1.1	yes
Uranium	ug/L	25	25	15	1.1	yes
Vanadium	ug/L	0.8	0.8	15	0.2	yes
Zinc	ug/L	30	30	15	2	yes
Zirconium	ug/L	<5	<5	15	2	yes
1471574-6 August 25, 2015						
Mercury	mg/L	<0.000005	<0.000005	10	0.000300	yes
1471574-23 August 25, 2015						
Mercury	mg/L	<0.000005	<0.000005	10	0.000300	yes
Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC	
1471254-4 August 24, 2015						
Aluminum	mg/L	3.94	3.61	4.45	yes	
Calcium	mg/L	51.6	48.4	54.2	yes	
Iron	mg/L	2.11	1.83	2.19	yes	
Magnesium	mg/L	19.9	18.14	22.14	yes	
Manganese	mg/L	0.516	0.472	0.568	yes	

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Potassium	mg/L	51.2	45.8	55.8	yes
Silicon	mg/L	2.07	1.81	2.21	yes
Sodium	mg/L	52.2	45.9	56.0	yes
Sulfur	mg/L	10.2	8.9	10.9	yes
1471255-4 August 24, 2015					
Antimony	ug/L	12.2	10.8	13.2	yes
Arsenic	ug/L	12.2	10.8	12.9	yes
Barium	ug/L	61	54	68	yes
Beryllium	ug/L	6.1	4.9	6.8	yes
Bismuth	ug/L	31.8	26.2	35.8	yes
Boron	ug/L	124	102	139	yes
Cadmium	ug/L	0.609	0.567	0.687	yes
Chromium	ug/L	30.1	26.5	33.7	yes
Cobalt	ug/L	5.9	5.2	6.8	yes
Copper	ug/L	58	53	67	yes
Lead	ug/L	6.4	5.2	7.1	yes
Lithium	ug/L	59	53	77	yes
Molybdenum	ug/L	60	56	66	yes
Nickel	ug/L	30.4	25.6	33.4	yes
Selenium	ug/L	12.3	9.9	13.5	yes
Silver	ug/L	5.92	5.39	7.13	yes
Strontium	ug/L	60	54	69	yes
Thallium	ug/L	3.14	2.81	3.89	yes
Tin	ug/L	62	56	66	yes
Titanium	ug/L	31.1	26.6	35.7	yes
Uranium	ug/L	31.6	25.7	36.3	yes
Vanadium	ug/L	6.1	5.1	7.2	yes
Zinc	ug/L	61	53	67	yes
Zirconium	ug/L	62	53	67	yes
1471574-4 August 25, 2015					
Mercury	mg/L	0.000747	0.000600	0.000960	yes
1471255-3 August 24, 2015					
Antimony	ug/L	39.8	37.5	43.1	yes
Arsenic	ug/L	40.7	36.5	43.5	yes
Barium	ug/L	196	186	216	yes
Beryllium	ug/L	19.9	17.1	21.9	yes
Bismuth	ug/L	103	91.3	106.3	yes
Boron	ug/L	392	343	436	yes
Cadmium	ug/L	2.02	1.915	2.205	yes
Chromium	ug/L	101	90.0	110.0	yes
Cobalt	ug/L	19.7	18.1	21.7	yes
Copper	ug/L	199	182	214	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Lead	ug/L	21.2	18.6	21.8	yes
Lithium	ug/L	186	173	222	yes
Molybdenum	ug/L	202	189	225	yes
Nickel	ug/L	101	90.0	110.0	yes
Selenium	ug/L	40.0	36.1	42.9	yes
Silver	ug/L	19.6	18.00	22.00	yes
Strontium	ug/L	203	182	212	yes
Thallium	ug/L	10.2	9.16	10.96	yes
Tin	ug/L	202	191	213	yes
Titanium	ug/L	102	91.5	106.3	yes
Uranium	ug/L	100	90.2	109.0	yes
Vanadium	ug/L	20.4	16.9	22.1	yes
Zinc	ug/L	206	183	218	yes
1471255-29 August 24, 2015					
Antimony	ug/L	39.7	37.5	43.1	yes
Arsenic	ug/L	39.8	36.5	43.5	yes
Barium	ug/L	196	186	216	yes
Beryllium	ug/L	20.3	17.1	21.9	yes
Bismuth	ug/L	103	91.3	106.3	yes
Boron	ug/L	398	343	436	yes
Cadmium	ug/L	2.04	1.915	2.205	yes
Chromium	ug/L	99.3	90.0	110.0	yes
Cobalt	ug/L	19.3	18.1	21.7	yes
Copper	ug/L	194	182	214	yes
Lead	ug/L	21.0	18.6	21.8	yes
Lithium	ug/L	194	173	222	yes
Molybdenum	ug/L	200	189	225	yes
Nickel	ug/L	99.3	90.0	110.0	yes
Selenium	ug/L	41.8	36.1	42.9	yes
Silver	ug/L	19.3	18.00	22.00	yes
Strontium	ug/L	194	182	212	yes
Thallium	ug/L	10.3	9.16	10.96	yes
Tin	ug/L	204	191	213	yes
Titanium	ug/L	97.8	91.5	106.3	yes
Uranium	ug/L	97.9	90.2	109.0	yes
Vanadium	ug/L	19.9	16.9	22.1	yes
Zinc	ug/L	202	183	218	yes
1471574-3 August 25, 2015					
Mercury	mg/L	0.00285	0.002600	0.003200	yes
1471255-2 August 24, 2015					
Antimony	ug/L	12.3	10.8	13.2	yes
Arsenic	ug/L	12.1	10.8	13.2	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Barium	ug/L	63	55	67	yes
Beryllium	ug/L	6.1	5.2	6.5	yes
Boron	ug/L	120	108	132	yes
Cadmium	ug/L	0.616	0.560	0.692	yes
Chromium	ug/L	30.4	27.0	33.0	yes
Cobalt	ug/L	5.8	5.4	6.6	yes
Copper	ug/L	58	54	66	yes
Lead	ug/L	6.4	5.4	6.6	yes
Lithium	ug/L	61	53	66	yes
Molybdenum	ug/L	59	54	66	yes
Nickel	ug/L	30.2	27.0	33.0	yes
Selenium	ug/L	12.1	10.3	13.4	yes
Silver	ug/L	5.90	5.40	6.60	yes
Strontium	ug/L	60	54	66	yes
Thallium	ug/L	3.08	0.00	6.00	yes
Tin	ug/L	61	54	66	yes
Titanium	ug/L	30.5	27.0	33.0	yes
Uranium	ug/L	30.8	27.0	33.0	yes
Vanadium	ug/L	6.1	5.4	6.6	yes
Zinc	ug/L	61	57	69	yes
Zirconium	ug/L	60	54	66	yes
1471255-28 August 24, 2015					
Antimony	ug/L	12.1	10.8	13.2	yes
Arsenic	ug/L	12.0	10.8	13.2	yes
Barium	ug/L	59	55	67	yes
Beryllium	ug/L	6.3	5.2	6.5	yes
Boron	ug/L	123	108	132	yes
Cadmium	ug/L	0.618	0.560	0.692	yes
Chromium	ug/L	30.2	27.0	33.0	yes
Cobalt	ug/L	5.9	5.4	6.6	yes
Copper	ug/L	58	54	66	yes
Lead	ug/L	6.4	5.4	6.6	yes
Lithium	ug/L	61	53	66	yes
Molybdenum	ug/L	59	54	66	yes
Nickel	ug/L	30.3	27.0	33.0	yes
Selenium	ug/L	12.5	10.3	13.4	yes
Silver	ug/L	5.92	5.40	6.60	yes
Strontium	ug/L	60	54	66	yes
Thallium	ug/L	3.01	0.00	6.00	yes
Tin	ug/L	61	54	66	yes
Titanium	ug/L	30.0	27.0	33.0	yes
Uranium	ug/L	30.1	27.0	33.0	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Vanadium	ug/L	6.1	5.4	6.6	yes
Zinc	ug/L	62	57	69	yes
Zirconium	ug/L	60	54	66	yes
1471574-2 August 25, 2015					
Mercury	mg/L	0.000764	0.000700	0.000880	yes
1471255-1 August 24, 2015					
Antimony	ug/L	2.0	1.8	2.2	yes
Arsenic	ug/L	2.1	1.7	2.2	yes
Barium	ug/L	10	9	11	yes
Beryllium	ug/L	1.0	0.8	1.1	yes
Bismuth	ug/L	5.4	4.8	5.6	yes
Boron	ug/L	20	17	23	yes
Cadmium	ug/L	0.098	0.092	0.116	yes
Chromium	ug/L	5.1	4.6	5.4	yes
Cobalt	ug/L	1	0.9	1.1	yes
Copper	ug/L	10	9	11	yes
Lead	ug/L	1.1	0.9	1.1	yes
Lithium	ug/L	10	9	11	yes
Molybdenum	ug/L	10	9	11	yes
Nickel	ug/L	5.1	4.5	5.5	yes
Selenium	ug/L	2.0	1.6	2.2	yes
Silver	ug/L	1.00	0.89	1.13	yes
Strontium	ug/L	10	9	11	yes
Thallium	ug/L	0.51	0.48	0.57	yes
Tin	ug/L	10	10	11	yes
Titanium	ug/L	5.2	4.5	5.4	yes
Uranium	ug/L	5.2	4.5	5.5	yes
Vanadium	ug/L	1.0	0.9	1.2	yes
Zinc	ug/L	11	9	11	yes
Zirconium	ug/L	10	9	11	yes
1471255-27 August 24, 2015					
Antimony	ug/L	2.0	1.8	2.2	yes
Arsenic	ug/L	2.1	1.7	2.2	yes
Barium	ug/L	10	9	11	yes
Beryllium	ug/L	1.0	0.8	1.1	yes
Bismuth	ug/L	5.5	4.8	5.6	yes
Boron	ug/L	22	17	23	yes
Cadmium	ug/L	0.100	0.092	0.116	yes
Chromium	ug/L	5.0	4.6	5.4	yes
Cobalt	ug/L	1	0.9	1.1	yes
Copper	ug/L	10	9	11	yes
Lead	ug/L	1.1	0.9	1.1	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Lithium	ug/L	10	9	11	yes
Molybdenum	ug/L	10	9	11	yes
Nickel	ug/L	5.0	4.5	5.5	yes
Selenium	ug/L	2.0	1.6	2.2	yes
Silver	ug/L	0.97	0.89	1.13	yes
Strontium	ug/L	10	9	11	yes
Thallium	ug/L	0.52	0.48	0.57	yes
Tin	ug/L	10	10	11	yes
Titanium	ug/L	5.2	4.5	5.4	yes
Uranium	ug/L	5.2	4.5	5.5	yes
Vanadium	ug/L	1.1	0.9	1.2	yes
Zinc	ug/L	10	9	11	yes
Zirconium	ug/L	10	9	11	yes
1471574-1 August 25, 2015					
Mercury	mg/L	0.000077	0.000064	0.000093	yes
1471254-3 August 24, 2015					
Aluminum	mg/L	19.5	18.80	20.60	yes
Calcium	mg/L	244	236.0	263.6	yes
Iron	mg/L	9.38	9.07	10.15	yes
Magnesium	mg/L	95.2	92.78	104.72	yes
Manganese	mg/L	2.40	2.260	2.560	yes
Potassium	mg/L	244	234.2	261.8	yes
Silicon	mg/L	9.99	9.13	10.93	yes
Sodium	mg/L	243	228.8	269.4	yes
Sulfur	mg/L	147	135.5	165.3	yes
1471254-2 August 24, 2015					
Aluminum	mg/L	3.85	3.49	4.47	yes
Calcium	mg/L	51.2	46.5	56.5	yes
Iron	mg/L	2.04	1.86	2.26	yes
Magnesium	mg/L	19.7	17.79	21.81	yes
Manganese	mg/L	0.510	0.466	0.568	yes
Potassium	mg/L	48.9	45.0	55.0	yes
Silicon	mg/L	2.07	1.92	2.22	yes
Sodium	mg/L	50.4	45.9	55.9	yes
Sulfur	mg/L	10.1	9.2	11.2	yes
1471254-1 August 24, 2015					
Aluminum	mg/L	0.38	0.36	0.44	yes
Calcium	mg/L	5.3	4.8	5.8	yes
Iron	mg/L	0.21	0.19	0.25	yes
Magnesium	mg/L	2.00	1.84	2.20	yes
Manganese	mg/L	0.052	0.047	0.059	yes
Potassium	mg/L	5.1	4.7	5.7	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	0.20	0.17	0.23	yes
Sodium	mg/L	5.1	4.8	5.6	yes
Sulfur	mg/L	3.0	2.8	3.3	yes

Mono-Aromatic Hydrocarbons - Soil

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1470932-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
1470935-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
1470938-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
1470941-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
1470944-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
1470947-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Mono-Aromatic Hydrocarbons - Soil -

Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Styrene	ng	0	-0.030	0.030	yes
1470950-17		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
1470953-8		August 22, 2015			
Benzene	ng	0	-0.005	0.005	yes
Toluene	ng	0	-0.06	0.06	yes
Ethylbenzene	ng	0	-0.030	0.030	yes
Total Xylenes (m,p,o)	ng	0	-0.09	0.09	yes
Styrene	ng	0	-0.030	0.030	yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
1470932-16		August 22, 2015			
Benzene	ng	112.80	85	115	yes
Toluene	ng	98.60	85	115	yes
Ethylbenzene	ng	91.40	85	115	yes
Total Xylenes (m,p,o)	ng	94.00	85	115	yes
Styrene	ng	89.80	85	115	yes
1470935-16		August 22, 2015			
Benzene	ng	95.20	85	115	yes
Toluene	ng	86.20	85	115	yes
Ethylbenzene	ng	85.20	85	115	yes
Total Xylenes (m,p,o)	ng	88.67	85	115	yes
Styrene	ng	86.00	85	115	yes
1470938-16		August 22, 2015			
Benzene	ng	95.20	85	115	yes
Toluene	ng	86.20	85	115	yes
Ethylbenzene	ng	85.20	85	115	yes
Total Xylenes (m,p,o)	ng	88.67	85	115	yes
Styrene	ng	86.00	85	115	yes
1470941-16		August 22, 2015			
Benzene	ng	112.20	85	115	yes
Toluene	ng	87.00	85	115	yes
Ethylbenzene	ng	87.00	85	115	yes
Total Xylenes (m,p,o)	ng	86.00	85	115	yes
Styrene	ng	89.60	85	115	yes
1470944-16		August 22, 2015			
Benzene	ng	112.20	85	115	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Mono-Aromatic Hydrocarbons - Soil -

Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
Toluene	ng	86.40	85	115		yes
Ethylbenzene	ng	87.00	85	115		yes
Total Xylenes (m,p,o)	ng	86.00	85	115		yes
Styrene	ng	89.60	85	115		yes
1470947-16		August 22, 2015				
Benzene	ng	106.60	85	115		yes
Toluene	ng	85.80	85	115		yes
Ethylbenzene	ng	89.60	85	115		yes
Total Xylenes (m,p,o)	ng	90.00	85	115		yes
Styrene	ng	90.60	85	115		yes
1470950-16		August 22, 2015				
Benzene	ng	95.20	85	115		yes
Toluene	ng	86.20	85	115		yes
Ethylbenzene	ng	85.20	85	115		yes
Total Xylenes (m,p,o)	ng	88.67	85	115		yes
Styrene	ng	86.00	85	115		yes
1470953-7		August 22, 2015				
Benzene	ng	95.20	85	115		yes
Toluene	ng	86.20	85	115		yes
Ethylbenzene	ng	85.20	85	115		yes
Total Xylenes (m,p,o)	ng	88.67	85	115		yes
Styrene	ng	86.00	85	115		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470932-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470935-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470938-5		August 22, 2015				

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Mono-Aromatic Hydrocarbons - Soil -

Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470941-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470944-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470947-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470950-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
1470953-5		August 22, 2015				
Benzene	mg/kg	<0.005	<0.005	50	0.010	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Mono-Aromatic Hydrocarbons - Soil -

Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Toluene	mg/kg	<0.02	<0.02	50	0.04	yes
Ethylbenzene	mg/kg	<0.010	<0.010	50	0.020	yes
m,p-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
o-Xylene	mg/kg	<0.02	<0.02	50	0.04	yes
Total Xylenes (m,p,o)	mg/kg	<0.03	<0.03	50	0.06	yes
Styrene	mg/kg	<0.010	<0.010	50	0.020	yes
Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470932-4		August 22, 2015				
Benzene	mg/kg	103	80	120		yes
Toluene	mg/kg	98	80	120		yes
Ethylbenzene	mg/kg	101	80	120		yes
Total Xylenes (m,p,o)	mg/kg	100	80	120		yes
1470935-4		August 22, 2015				
Benzene	mg/kg	99	80	120		yes
Toluene	mg/kg	91	80	120		yes
Ethylbenzene	mg/kg	88	80	120		yes
Total Xylenes (m,p,o)	mg/kg	90	80	120		yes
1470938-4		August 22, 2015				
Benzene	mg/kg	109	80	120		yes
Toluene	mg/kg	102	80	120		yes
Ethylbenzene	mg/kg	101	80	120		yes
Total Xylenes (m,p,o)	mg/kg	102	80	120		yes
1470941-4		August 22, 2015				
Benzene	mg/kg	112	80	120		yes
Toluene	mg/kg	100	80	120		yes
Ethylbenzene	mg/kg	101	80	120		yes
Total Xylenes (m,p,o)	mg/kg	104	80	120		yes
1470944-4		August 22, 2015				
Benzene	mg/kg	102	80	120		yes
Toluene	mg/kg	86	80	120		yes
Ethylbenzene	mg/kg	86	80	120		yes
Total Xylenes (m,p,o)	mg/kg	90	80	120		yes
1470947-4		August 22, 2015				
Benzene	mg/kg	82	80	120		yes
Toluene	mg/kg	90	80	120		yes
Ethylbenzene	mg/kg	97	80	120		yes
Total Xylenes (m,p,o)	mg/kg	110	80	120		yes
1470950-4		August 22, 2015				
Benzene	mg/kg	97	80	120		yes
Toluene	mg/kg	90	80	120		yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Mono-Aromatic Hydrocarbons - Soil -

Continued

Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Ethylbenzene	mg/kg	100	80	120	yes
Total Xylenes (m,p,o)	mg/kg	101	80	120	yes
1470953-4		August 22, 2015			
Benzene	mg/kg	113	80	120	yes
Toluene	mg/kg	101	80	120	yes
Ethylbenzene	mg/kg	97	80	120	yes
Total Xylenes (m,p,o)	mg/kg	99	80	120	yes

Mono-Aromatic Hydrocarbons - Water

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
1470965-16		August 22, 2015				
Benzene	ng	0	-0.002	0.002		yes
Toluene	ng	0	-0.0015	0.0015		yes
Ethylbenzene	ng	0	-0.002	0.002		yes
Total Xylenes (m,p,o)	ng	0	-0.002	0.002		yes
Styrene	ng	0	-0.002	0.002		yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470965-15		August 22, 2015				
Benzene	ng	105.60	85	115		yes
Toluene	ng	100.60	85	115		yes
Ethylbenzene	ng	89.60	85	115		yes
Total Xylenes (m,p,o)	ng	90.00	85	115		yes
Styrene	ng	85.40	85	115		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470965-3		August 22, 2015				
Benzene	mg/L	<0.001	<0.001	15	0.002	yes
Toluene	mg/L	<0.0004	<0.0004	15	0.0020	yes
Ethylbenzene	mg/L	<0.001	<0.001	15	0.002	yes
Total Xylenes (m,p,o)	mg/L	<0.001	<0.001	15	0.002	yes
Styrene	mg/L	<0.001	<0.001	15	0.002	yes
Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470965-2		August 22, 2015				
Benzene	mg/L	108	85	115		yes
Toluene	mg/L	85	85	115		yes
Ethylbenzene	mg/L	90	85	115		yes
Total Xylenes (m,p,o)	mg/L	89	85	115		yes
Styrene	mg/L	86	85	115		yes

Volatile Petroleum Hydrocarbons - Soil

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1470932-17		August 22, 2015			

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Volatile Petroleum Hydrocarbons - Soil

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
F1 C6-C10	ng	0	-10	10		yes
1470935-17		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
1470938-17		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
1470941-17		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
1470944-17		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
1470947-17		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
1470950-17		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
1470953-8		August 22, 2015				
F1 C6-C10	ng	0	-10	10		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470932-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470935-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470938-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470941-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470944-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470947-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470950-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes
F1 -BTEX	mg/kg	<10	<10	50	0	yes
1470953-5		August 22, 2015				
F1 C6-C10	mg/kg	<10	<10	50	0	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Volatile Petroleum Hydrocarbons - Soil -

Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
F1 -BTEX	mg/kg	<10	<10	50	0	yes
Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470932-2		August 22, 2015				
F1 C6-C10	mg/kg	98	80	120		yes
1470935-2		August 22, 2015				
F1 C6-C10	mg/kg	97	80	120		yes
1470938-2		August 22, 2015				
F1 C6-C10	mg/kg	96	80	120		yes
1470941-2		August 22, 2015				
F1 C6-C10	mg/kg	103	80	120		yes
1470944-2		August 22, 2015				
F1 C6-C10	mg/kg	96	80	120		yes
1470947-2		August 22, 2015				
F1 C6-C10	mg/kg	91	80	120		yes
1470950-2		August 22, 2015				
F1 C6-C10	mg/kg	96	80	120		yes
1470953-2		August 22, 2015				
F1 C6-C10	mg/kg	109	80	120		yes

Volatile Petroleum Hydrocarbons - Water

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
1470965-16		August 22, 2015				
F1 -BTEX	ng	0	-0.3	0.3		yes
F1 C6-C10	ng	0	-0.3	0.3		yes
F2 C10-C16	ng	0	-0.3	0.3		yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470965-4		August 22, 2015				
F2 C10-C16	ng	110.00	80	120		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470965-3		August 22, 2015				
F1 C6-C10	mg/L	<0.1	<0.1	50		yes
F2 C10-C16	mg/L	<0.1	<0.1	50		yes

Extractable Petroleum Hydrocarbons -

Soil

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
1470931-15		August 22, 2015				
F2c C10-C16	ug/mL	0	-10	10		yes
F3c C16-C34	ug/mL	0	-30	30		yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Extractable Petroleum Hydrocarbons - Soil - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
1470934-15		August 22, 2015			
F2c C10-C16	ug/mL	0	-10	10	yes
F3c C16-C34	ug/mL	0	-30	30	yes
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
1470937-15		August 22, 2015			
F2c C10-C16	ug/mL	0	-10	10	yes
F3c C16-C34	ug/mL	0	-30	30	yes
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
1470940-15		August 22, 2015			
F2c C10-C16	ug/mL	0	-10	10	yes
F3c C16-C34	ug/mL	0	-30	30	yes
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
1470943-15		August 22, 2015			
F2c C10-C16	ug/mL	0	-10	10	yes
F3c C16-C34	ug/mL	0	-30	30	yes
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
1470949-15		August 22, 2015			
F2c C10-C16	ug/mL	0	-10	10	yes
F3c C16-C34	ug/mL	0	-30	30	yes
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
1470952-6		August 22, 2015			
F2c C10-C16	ug/mL	0	-10	10	yes
F3c C16-C34	ug/mL	0	-30	30	yes
F4c C34-C50	ug/mL	0	-20	20	yes
F4HTGCc C34-C50+	ug/mL	0	-20	20	yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
1470931-14		August 22, 2015			
F2c C10-C16	ug/mL	98.87	85	115	yes
F3c C16-C34	ug/mL	99.17	85	115	yes
F4c C34-C50	ug/mL	94.51	85	115	yes
F4HTGCc C34-C50+	ug/mL	91.56	85	115	yes
1470934-14		August 22, 2015			
F2c C10-C16	ug/mL	86.06	85	115	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Extractable Petroleum Hydrocarbons -

Soil - Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
F3c C16-C34	ug/mL	91.37	85	115		yes
F4c C34-C50	ug/mL	85.52	85	115		yes
F4HTGCc C34-C50+	ug/mL	85.98	85	115		yes
1470937-14		August 22, 2015				
F2c C10-C16	ug/mL	98.87	85	115		yes
F3c C16-C34	ug/mL	99.17	85	115		yes
F4c C34-C50	ug/mL	94.51	85	115		yes
F4HTGCc C34-C50+	ug/mL	91.56	85	115		yes
1470940-14		August 22, 2015				
F2c C10-C16	ug/mL	98.87	85	115		yes
F3c C16-C34	ug/mL	99.17	85	115		yes
F4c C34-C50	ug/mL	94.51	85	115		yes
F4HTGCc C34-C50+	ug/mL	91.56	85	115		yes
1470943-14		August 22, 2015				
F2c C10-C16	ug/mL	98.87	85	115		yes
F3c C16-C34	ug/mL	99.17	85	115		yes
F4c C34-C50	ug/mL	94.51	85	115		yes
F4HTGCc C34-C50+	ug/mL	91.56	85	115		yes
1470949-14		August 22, 2015				
F2c C10-C16	ug/mL	94.09	85	115		yes
F3c C16-C34	ug/mL	98.35	85	115		yes
F4c C34-C50	ug/mL	94.59	85	115		yes
F4HTGCc C34-C50+	ug/mL	91.10	85	115		yes
1470952-5		August 22, 2015				
F2c C10-C16	ug/mL	89.54	85	115		yes
F3c C16-C34	ug/mL	99.36	85	115		yes
F4c C34-C50	ug/mL	98.22	85	115		yes
F4HTGCc C34-C50+	ug/mL	96.70	85	115		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470931-3		August 22, 2015				
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	<40	<40	50	10	yes
F4c C34-C50	mg/kg	<40	<40	50	10	yes
F4HTGCc C34-C50+	mg/kg	<40	<40	50	10	yes
1470934-3		August 22, 2015				
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	<40	<40	50	10	yes
F4c C34-C50	mg/kg	<40	<40	50	10	yes
F4HTGCc C34-C50+	mg/kg	<40	<40	50	10	yes
1470937-3		August 22, 2015				

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Extractable Petroleum Hydrocarbons -

Soil - Continued

Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	72	81	50	10	yes
F4c C34-C50	mg/kg	<40	50	50	10	yes
F4HTGCc C34-C50+	mg/kg	49	69	50	10	yes
1470940-3		August 22, 2015				
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	56	59	50	10	yes
F4c C34-C50	mg/kg	<40	<40	50	10	yes
F4HTGCc C34-C50+	mg/kg	63	72	50	10	yes
1470943-3		August 22, 2015				
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	<40	<40	50	10	yes
F4c C34-C50	mg/kg	<40	<40	50	10	yes
F4HTGCc C34-C50+	mg/kg	<40	<40	50	10	yes
1470949-3		August 22, 2015				
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	78	83	50	10	yes
F4c C34-C50	mg/kg	46	46	50	10	yes
F4HTGCc C34-C50+	mg/kg	60	59	50	10	yes
1470952-3		August 22, 2015				
F2c C10-C16	mg/kg	<40	<40	50	10	yes
F3c C16-C34	mg/kg	42	40	50	10	yes
F4c C34-C50	mg/kg	<40	<40	50	10	yes
F4HTGCc C34-C50+	mg/kg	<40	<40	50	10	yes
Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470931-2		August 22, 2015				
F2c C10-C16	mg/kg	101	65	135		yes
F3c C16-C34	mg/kg	105	65	135		yes
F4c C34-C50	mg/kg	97	65	135		yes
F4HTGCc C34-C50+	mg/kg	95	65	135		yes
1470934-2		August 22, 2015				
F2c C10-C16	mg/kg	91	65	135		yes
F3c C16-C34	mg/kg	99	65	135		yes
F4c C34-C50	mg/kg	91	65	135		yes
F4HTGCc C34-C50+	mg/kg	85	65	135		yes
1470937-2		August 22, 2015				
F2c C10-C16	mg/kg	100	65	135		yes
F3c C16-C34	mg/kg	108	65	135		yes
F4c C34-C50	mg/kg	101	65	135		yes
F4HTGCc C34-C50+	mg/kg	106	65	135		yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Extractable Petroleum Hydrocarbons -

Soil - Continued

Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
1470940-2		August 22, 2015			
F2c C10-C16	mg/kg	97	65	135	yes
F3c C16-C34	mg/kg	101	65	135	yes
F4c C34-C50	mg/kg	93	65	135	yes
F4HTGCc C34-C50+	mg/kg	94	65	135	yes
1470943-2		August 22, 2015			
F2c C10-C16	mg/kg	116	65	135	yes
F3c C16-C34	mg/kg	120	65	135	yes
F4c C34-C50	mg/kg	113	65	135	yes
F4HTGCc C34-C50+	mg/kg	117	65	135	yes
1470949-2		August 22, 2015			
F2c C10-C16	mg/kg	94	65	135	yes
F3c C16-C34	mg/kg	104	65	135	yes
F4c C34-C50	mg/kg	106	65	135	yes
F4HTGCc C34-C50+	mg/kg	100	65	135	yes
1470952-2		August 22, 2015			
F2c C10-C16	mg/kg	108	65	135	yes
F3c C16-C34	mg/kg	114	65	135	yes
F4c C34-C50	mg/kg	101	65	135	yes
F4HTGCc C34-C50+	mg/kg	87	65	135	yes

Extractable Petroleum Hydrocarbons -

Water

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
1470967-16		August 22, 2015				
F2 C10-C16	ug/mL	0	-0.2	0.2		yes
F3 C16-C34	ug/mL	0	-0.2	0.2		yes
F3+ C34+	ug/mL	0	-0.2	0.2		yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470967-15		August 22, 2015				
F2 C10-C16	ug/mL	93.46	85	115		yes
F3 C16-C34	ug/mL	97.06	85	115		yes
F3+ C34+	ug/mL	92.09	85	115		yes
Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470967-4		August 22, 2015				
F2 C10-C16	mg/L	93.5	90.6	15	0.2	yes
F3 C16-C34	mg/L	99.1	96.5	15	0.2	yes
F3+ C34+	mg/L	82.9	81.7	15	0.2	yes
Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470967-2		August 22, 2015				

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Extractable Petroleum Hydrocarbons -

Water - Continued

Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
F2 C10-C16	mg/L	94	80	120	yes
F3 C16-C34	mg/L	99	80	120	yes
F3+ C34+	mg/L	83	80	120	yes

Polychlorinated Biphenyls - Soil

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1470955-2 August 22, 2015					
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
1470956-2 August 22, 2015					
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
1470957-2 August 22, 2015					
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
1470959-2 August 22, 2015					
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Polychlorinated Biphenyls - Soil -

Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
1470960-2		August 22, 2015			
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
1470962-2		August 22, 2015			
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
1470963-2		August 22, 2015			
Aroclor 1016	ug/mL	0	-0.3	0.3	yes
Aroclor 1221	ug/mL	0	-0.3	0.3	yes
Aroclor 1232	ug/mL	0	-0.3	0.3	yes
Aroclor 1242	ug/mL	0	-0.3	0.3	yes
Aroclor 1248	ug/mL	0	-0.3	0.3	yes
Aroclor 1254	ug/mL	0	-0.3	0.3	yes
Aroclor 1260	ug/mL	0	-0.3	0.3	yes
Aroclor 1262	ug/mL	0	-0.3	0.3	yes
Aroclor 1268	ug/mL	0	-0.3	0.3	yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
1470955-1		August 22, 2015			
Aroclor 1260	ug/mL	90.00	80	120	yes
1470956-1		August 22, 2015			
Aroclor 1260	ug/mL	100.00	80	120	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Polychlorinated Biphenyls - Soil -

Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470957-1		August 22, 2015				
Aroclor 1254	ug/mL	100.00	80	120		yes
Aroclor 1260	ug/mL	100.00	80	120		yes
1470959-1		August 22, 2015				
Aroclor 1260	ug/mL	100.00	80	120		yes
1470960-1		August 22, 2015				
Aroclor 1260	ug/mL	100.00	80	120		yes
1470961-1		August 22, 2015				
Aroclor 1254	ug/mL	100.00	80	120		yes
Aroclor 1260	ug/mL	100.00	80	120		yes
1470962-1		August 22, 2015				
Aroclor 1254	ug/mL	100.00	80	120		yes
Aroclor 1260	ug/mL	90.00	80	120		yes
1470963-1		August 22, 2015				
Aroclor 1260	ug/mL	100.00	80	120		yes
Client Sample Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470955-5		August 22, 2015				
Aroclor 1016	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1221	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268	mg/kg	<0.05	<0.05	50	0.2	yes
Total PCBs	mg/kg	<0.05	<0.05	50	0.2	yes
1470956-5		August 22, 2015				
Aroclor 1016	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1221	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262	mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268	mg/kg	<0.05	<0.05	50	0.2	yes
Total PCBs	mg/kg	<0.05	<0.05	50	0.2	yes
1470957-5		August 22, 2015				
Aroclor 1016	mg/kg	<0.05	<0.05	50	0.2	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Polychlorinated Biphenyls - Soil -

Continued

Client Sample	Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Aroclor 1221		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268		mg/kg	<0.05	<0.05	50	0.2	yes
Total PCBs		mg/kg	<0.05	<0.05	50	0.2	yes
1470959-5 August 22, 2015							
Aroclor 1016		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1221		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268		mg/kg	<0.05	<0.05	50	0.2	yes
Total PCBs		mg/kg	<0.05	<0.05	50	0.2	yes
1470960-5 August 22, 2015							
Aroclor 1016		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1221		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268		mg/kg	<0.05	<0.05	50	0.2	yes
Total PCBs		mg/kg	<0.05	<0.05	50	0.2	yes
1470962-5 August 22, 2015							
Aroclor 1016		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1221		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268		mg/kg	<0.05	<0.05	50	0.2	yes

Quality Control

Bill To: SILA Remediation
Report To: SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC, Canada
G2K 2G2
Attn: Jean-Pierre Pelletier
Sampled By: A. Passalis
Company: Sila Remediation

Project:
ID: KITIK13
Name: Pin-4
Location: Byron Bay
LSD:
P.O.:
Acct code:

Lot ID: **1089483**
Control Number: C0008969
Date Received: Aug 21, 2015
Date Reported: Dec 23, 2015
Report Number: 2071648

Polychlorinated Biphenyls - Soil -

Continued

Client Sample	Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Total PCBs		mg/kg	<0.05	<0.05	50	0.2	yes
1470963-5			August 22, 2015				
Aroclor 1016		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1221		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1232		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1242		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1248		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1254		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1260		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1262		mg/kg	<0.05	<0.05	50	0.2	yes
Aroclor 1268		mg/kg	<0.05	<0.05	50	0.2	yes
Total PCBs		mg/kg	<0.05	<0.05	50	0.2	yes
Matrix Spike		Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470955-4			August 22, 2015				
Aroclor 1260		mg/kg	120	50	150		yes
1470956-4			August 22, 2015				
Aroclor 1260		mg/kg	123	50	150		yes
1470957-4			August 22, 2015				
Aroclor 1260		mg/kg	126	50	150		yes
1470959-4			August 22, 2015				
Aroclor 1260		mg/kg	104	50	150		yes
1470960-4			August 22, 2015				
Aroclor 1260		mg/kg	111	50	150		yes
1470962-4			August 22, 2015				
Aroclor 1260		mg/kg	120	50	150		yes
1470963-4			August 22, 2015				
Aroclor 1260		mg/kg	123	50	150		yes

Polychlorinated Biphenyls - Soil -

Surrogate

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1470955-2		August 22, 2015			
Decachlorobiphenyl	%	148.069	50	150	yes
1470956-2		August 22, 2015			
Decachlorobiphenyl	%	143.517	50	150	yes
1470957-2		August 22, 2015			
Decachlorobiphenyl	%	138.304	50	150	yes
1470959-2		August 22, 2015			
Decachlorobiphenyl	%	143.517	50	150	yes

Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Polychlorinated Biphenyls - Soil -

Surrogate - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1470960-2		August 22, 2015			
Decachlorobiphenyl	%	125.191	50	150	yes
1470962-2		August 22, 2015			
Decachlorobiphenyl	%	119.256	50	150	yes
1470963-2		August 22, 2015			
Decachlorobiphenyl	%	123.308	50	150	yes

Polychlorinated Biphenyls - Water

Blanks	Units	Measured	Lower Limit	Upper Limit		Passed QC
1470969-16		August 22, 2015				
Aroclor 1016	ug/mL	0	-0.3	0.3		yes
Aroclor 1221	ug/mL	0	-0.3	0.3		yes
Aroclor 1232	ug/mL	0	-0.3	0.3		yes
Aroclor 1242	ug/mL	0	-0.3	0.3		yes
Aroclor 1248	ug/mL	0	-0.3	0.3		yes
Aroclor 1254	ug/mL	0	-0.3	0.3		yes
Aroclor 1260	ug/mL	0	-0.3	0.3		yes
Aroclor 1262	ug/mL	0	-0.3	0.3		yes
Aroclor 1268	ug/mL	0	-0.3	0.3		yes
Calibration Check	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470969-15		August 22, 2015				
Aroclor 1260	ug/mL	100.00	80	120		yes
Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
1470969-4		August 22, 2015				
Aroclor 1016	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1221	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1232	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1242	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1248	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1254	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1260	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1262	ug/L	<0.05	<0.05	20	0.2	yes
Aroclor 1268	ug/L	<0.05	<0.05	20	0.2	yes
Matrix Spike	Units	% Recovery	Lower Limit	Upper Limit		Passed QC
1470969-2		August 22, 2015				
Aroclor 1260	ug/L	99	50	150		yes

Polychlorinated Biphenyls - Water -

Surrogate

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
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Quality Control

Bill To: SILA Remediation	Project:	Lot ID: 1089483
Report To: SILA Remediation	ID: KITIK13	Control Number: C0008969
250-1260 Boul Lebourgneuf	Name: Pin-4	Date Received: Aug 21, 2015
Quebec, QC, Canada	Location: Byron Bay	Date Reported: Dec 23, 2015
G2K 2G2	LSD:	Report Number: 2071648
Attn: Jean-Pierre Pelletier	P.O.:	
Sampled By: A. Passalis	Acct code:	
Company: Sila Remediation		

Polychlorinated Biphenyls - Water -

Surrogate

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
1470969-16		August 22, 2015			
Decachlorobiphenyl	%	91.5833	50	150	yes

Samples and Related Quality Checks

1089483-1

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5

TEH-CCME-Soil (Shake)

Spike	1470931-2
Duplicate - Cli	1470931-3

Calibration Ck	1470931-14
Blank	1470931-15

1089483-2

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5

TEH-CCME-Soil (Shake)

Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15

1089483-3

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5

TEH-CCME-Soil (Shake)

Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15

1089483-4

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5

TEH-CCME-Soil (Shake)

Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15

1089483-5

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5

TEH-CCME-Soil (Shake)

Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15

1089483-6

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
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Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5
TEH-CCME-Soil (Shake)	
Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15
1089483-7	
BTEX-CCME - Soil	
Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5
TEH-CCME-Soil (Shake)	
Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15
1089483-8	
BTEX-CCME - Soil	

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5

TEH-CCME-Soil (Shake)

Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15

1089483-9

BTEX-CCME - Soil

Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3

Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5
TEH-CCME-Soil (Shake)	
Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15
1089483-10	
BTEX-CCME - Soil	
Spike	1470932-2
Spike	1470932-4
Duplicate - Cli	1470932-5
Calibration Ck	1470932-16
Blank	1470932-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470955-1
Blank	1470955-2
Spike	1470955-4
Duplicate - Cli	1470955-5
TEH-CCME-Soil (Shake)	
Spike	1470931-2
Duplicate - Cli	1470931-3
Calibration Ck	1470931-14
Blank	1470931-15
1089483-11	
BTEX-CCME - Soil	
Spike	1470935-2
Spike	1470935-4

Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5
TEH-CCME-Soil (Shake)	
Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15
1089483-12	
BTEX-CCME - Soil	
Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5

TEH-CCME-Soil (Shake)

Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15

1089483-13

BTEX-CCME - Soil

Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17

Mercury (Hot Block) in Soil

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22

Metals ICP (Hot Block) in soil

Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21

PCB - Soil

Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5

TEH-CCME-Soil (Shake)

Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15

1089483-14

BTEX-CCME - Soil

Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16

Blank	1470935-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5
TEH-CCME-Soil (Shake)	
Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15
1089483-15	
BTEX-CCME - Soil	
Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470956-1

Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5
TEH-CCME-Soil (Shake)	
Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15
1089483-16	
BTEX-CCME - Soil	
Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-5
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-4
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5
TEH-CCME-Soil (Shake)	
Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15
1089483-17	
BTEX-CCME - Soil	
Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17
Mercury (Hot Block) in Soil	

Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5
TEH-CCME-Soil (Shake)	
Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15
1089483-18	
BTEX-CCME - Soil	
Spike	1470935-2
Spike	1470935-4
Duplicate - Cli	1470935-5
Calibration Ck	1470935-16
Blank	1470935-17
Mercury (Hot Block) in Soil	
Internal Std	1471973-1
Internal Std	1471973-2
Internal Std	1471973-3
Blank	1471973-4
Duplicate - Cli	1471973-22
Metals ICP (Hot Block) in soil	
Internal Std	1471965-1
Blank	1471965-2
Internal Std	1471965-3
Duplicate - Cli	1471965-21
PCB - Soil	
Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5
TEH-CCME-Soil (Shake)	
Spike	1470934-2
Duplicate - Cli	1470934-3

Calibration Ck	1470934-14
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Blank	1470934-15
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1089483-19

BTEX-CCME - Soil

Spike	1470935-2
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Spike	1470935-4
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Duplicate - Cli	1470935-5
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Calibration Ck	1470935-16
----------------	------------

Blank	1470935-17
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Mercury (Hot Block) in Soil

Internal Std	1471975-1
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Internal Std	1471975-2
--------------	-----------

Internal Std	1471975-3
--------------	-----------

Blank	1471975-4
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Duplicate - Cli	1471975-5
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Duplicate - Cli	1471975-22
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Metals ICP (Hot Block) in soil

Internal Std	1471967-1
--------------	-----------

Blank	1471967-2
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Internal Std	1471967-3
--------------	-----------

Duplicate - Cli	1471967-4
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Duplicate - Cli	1471967-21
-----------------	------------

PCB - Soil

Calibration Ck	1470956-1
----------------	-----------

Blank	1470956-2
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Spike	1470956-4
-------	-----------

Duplicate - Cli	1470956-5
-----------------	-----------

TEH-CCME-Soil (Shake)

Spike	1470934-2
-------	-----------

Duplicate - Cli	1470934-3
-----------------	-----------

Calibration Ck	1470934-14
----------------	------------

Blank	1470934-15
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1089483-20

BTEX-CCME - Soil

Spike	1470935-2
-------	-----------

Spike	1470935-4
-------	-----------

Duplicate - Cli	1470935-5
-----------------	-----------

Calibration Ck	1470935-16
----------------	------------

Blank	1470935-17
-------	------------

Mercury (Hot Block) in Soil

Internal Std	1471975-1
--------------	-----------

Internal Std	1471975-2
--------------	-----------

Internal Std	1471975-3
--------------	-----------

Blank	1471975-4
-------	-----------

Duplicate - Cli	1471975-5
-----------------	-----------

Duplicate - Cli	1471975-22
-----------------	------------

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470956-1
Blank	1470956-2
Spike	1470956-4
Duplicate - Cli	1470956-5

TEH-CCME-Soil (Shake)

Spike	1470934-2
Duplicate - Cli	1470934-3
Calibration Ck	1470934-14
Blank	1470934-15

1089483-21

BTEX-CCME - Soil

Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17

Mercury (Hot Block) in Soil

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5

TEH-CCME-Soil (Shake)

Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15

1089483-22

BTEX-CCME - Soil

Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17

Mercury (Hot Block) in Soil

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5

TEH-CCME-Soil (Shake)

Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15

1089483-23

BTEX-CCME - Soil

Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17

Mercury (Hot Block) in Soil

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
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Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5
TEH-CCME-Soil (Shake)	
Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15
1089483-24	
BTEX-CCME - Soil	
Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5
TEH-CCME-Soil (Shake)	
Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15
1089483-25	
BTEX-CCME - Soil	

Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5
TEH-CCME-Soil (Shake)	
Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15
1089483-26	
BTEX-CCME - Soil	
Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3

Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5
TEH-CCME-Soil (Shake)	
Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15
1089483-27	
BTEX-CCME - Soil	
Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5
TEH-CCME-Soil (Shake)	
Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15
1089483-28	
BTEX-CCME - Soil	
Spike	1470938-2
Spike	1470938-4

Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5
TEH-CCME-Soil (Shake)	
Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15
1089483-29	
BTEX-CCME - Soil	
Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5

TEH-CCME-Soil (Shake)

Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15

1089483-30

BTEX-CCME - Soil

Spike	1470938-2
Spike	1470938-4
Duplicate - Cli	1470938-5
Calibration Ck	1470938-16
Blank	1470938-17

Mercury (Hot Block) in Soil

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470957-1
Blank	1470957-2
Spike	1470957-4
Duplicate - Cli	1470957-5

TEH-CCME-Soil (Shake)

Spike	1470937-2
Duplicate - Cli	1470937-3
Calibration Ck	1470937-14
Blank	1470937-15

1089483-31

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16

Blank	1470941-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5
TEH-CCME-Soil (Shake)	
Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15
1089483-32	
BTEX-CCME - Soil	
Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470959-1

Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5
TEH-CCME-Soil (Shake)	
Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15
1089483-33	
BTEX-CCME - Soil	
Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17
Mercury (Hot Block) in Soil	
Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22
Metals ICP (Hot Block) in soil	
Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21
PCB - Soil	
Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5
TEH-CCME-Soil (Shake)	
Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15
1089483-34	
BTEX-CCME - Soil	
Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17
Mercury (Hot Block) in Soil	

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-5
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-4
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5

TEH-CCME-Soil (Shake)

Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15

1089483-35

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17

Mercury (Hot Block) in Soil

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5

TEH-CCME-Soil (Shake)

Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15

1089483-36

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17

Mercury (Hot Block) in Soil

Internal Std	1471975-1
Internal Std	1471975-2
Internal Std	1471975-3
Blank	1471975-4
Duplicate - Cli	1471975-22

Metals ICP (Hot Block) in soil

Internal Std	1471967-1
Blank	1471967-2
Internal Std	1471967-3
Duplicate - Cli	1471967-21

PCB - Soil

Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5

TEH-CCME-Soil (Shake)

Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15

1089483-37

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5

TEH-CCME-Soil (Shake)

Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15

1089483-38

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5

TEH-CCME-Soil (Shake)

Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15

1089483-39

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5

TEH-CCME-Soil (Shake)

Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15

1089483-40

BTEX-CCME - Soil

Spike	1470941-2
Spike	1470941-4
Duplicate - Cli	1470941-5
Calibration Ck	1470941-16
Blank	1470941-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
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Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470959-1
Blank	1470959-2
Spike	1470959-4
Duplicate - Cli	1470959-5
TEH-CCME-Soil (Shake)	
Spike	1470940-2
Duplicate - Cli	1470940-3
Calibration Ck	1470940-14
Blank	1470940-15
1089483-41	
BTEX-CCME - Soil	
Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-42	
BTEX-CCME - Soil	

Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5

TEH-CCME-Soil (Shake)

Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15

1089483-43

BTEX-CCME - Soil

Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3

Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-44	
BTEX-CCME - Soil	
Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-45	
BTEX-CCME - Soil	
Spike	1470944-2
Spike	1470944-4

Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-46	
BTEX-CCME - Soil	
Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5

TEH-CCME-Soil (Shake)

Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15

1089483-47

BTEX-CCME - Soil

Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5

TEH-CCME-Soil (Shake)

Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15

1089483-48

BTEX-CCME - Soil

Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16

Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-49	
BTEX-CCME - Soil	
Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1

Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-50	
BTEX-CCME - Soil	
Spike	1470944-2
Spike	1470944-4
Duplicate - Cli	1470944-5
Calibration Ck	1470944-16
Blank	1470944-17
Mercury (Hot Block) in Soil	
Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22
Metals ICP (Hot Block) in soil	
Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21
PCB - Soil	
Calibration Ck	1470960-1
Blank	1470960-2
Spike	1470960-4
Duplicate - Cli	1470960-5
TEH-CCME-Soil (Shake)	
Spike	1470943-2
Duplicate - Cli	1470943-3
Calibration Ck	1470943-14
Blank	1470943-15
1089483-51	
BTEX-CCME - Soil	
Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17
Mercury (Hot Block) in Soil	

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470961-1
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1089483-52

BTEX-CCME - Soil

Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-5
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-4
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470961-1
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1089483-53

BTEX-CCME - Soil

Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2

Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470961-1
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1089483-54

BTEX-CCME - Soil

Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17

Mercury (Hot Block) in Soil

Internal Std	1471976-1
Internal Std	1471976-2
Internal Std	1471976-3
Blank	1471976-4
Duplicate - Cli	1471976-22

Metals ICP (Hot Block) in soil

Internal Std	1471969-1
Blank	1471969-2
Internal Std	1471969-3
Duplicate - Cli	1471969-21

PCB - Soil

Calibration Ck	1470961-1
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1089483-55

BTEX-CCME - Soil

Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17

Mercury (Hot Block) in Soil

Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22

Metals ICP (Hot Block) in soil

Internal Std	1471971-1
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Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470961-1
1089483-56	
BTEX-CCME - Soil	
Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470961-1
1089483-57	
BTEX-CCME - Soil	
Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3

Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470961-1
1089483-58	
BTEX-CCME - Soil	
Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470961-1
1089483-59	
BTEX-CCME - Soil	
Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21

PCB - Soil	
Calibration Ck	1470961-1
1089483-60	
BTEX-CCME - Soil	
Spike	1470947-2
Spike	1470947-4
Duplicate - Cli	1470947-5
Calibration Ck	1470947-16
Blank	1470947-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470961-1
1089483-61	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1

Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15
1089483-62	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15
1089483-63	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	

Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22

Metals ICP (Hot Block) in soil

Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21

PCB - Soil

Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5

TEH-CCME-Soil (Shake)

Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15

1089483-64

BTEX-CCME - Soil

Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17

Mercury (Hot Block) in Soil

Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22

Metals ICP (Hot Block) in soil

Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21

PCB - Soil

Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4

Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15
1089483-65	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15
1089483-66	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2

Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15
1089483-67	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	

Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15

1089483-68

BTEX-CCME - Soil

Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17

Mercury (Hot Block) in Soil

Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22

Metals ICP (Hot Block) in soil

Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21

PCB - Soil

Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5

TEH-CCME-Soil (Shake)

Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15

1089483-69

BTEX-CCME - Soil

Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17

Mercury (Hot Block) in Soil

Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4

Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3
Calibration Ck	1470949-14
Blank	1470949-15
1089483-70	
BTEX-CCME - Soil	
Spike	1470950-2
Spike	1470950-4
Duplicate - Cli	1470950-5
Calibration Ck	1470950-16
Blank	1470950-17
Mercury (Hot Block) in Soil	
Internal Std	1471978-1
Internal Std	1471978-2
Internal Std	1471978-3
Blank	1471978-4
Duplicate - Cli	1471978-5
Duplicate - Cli	1471978-22
Metals ICP (Hot Block) in soil	
Internal Std	1471971-1
Blank	1471971-2
Internal Std	1471971-3
Duplicate - Cli	1471971-4
Duplicate - Cli	1471971-21
PCB - Soil	
Calibration Ck	1470962-1
Blank	1470962-2
Spike	1470962-4
Duplicate - Cli	1470962-5
TEH-CCME-Soil (Shake)	
Spike	1470949-2
Duplicate - Cli	1470949-3

Calibration Ck	1470949-14
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Blank	1470949-15
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1089483-71

BTEX-CCME - Soil

Spike	1470953-2
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Spike	1470953-4
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Duplicate - Cli	1470953-5
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Calibration Ck	1470953-7
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Blank	1470953-8
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Mercury (Hot Block) in Soil

Internal Std	1471978-1
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Internal Std	1471978-2
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Internal Std	1471978-3
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Blank	1471978-4
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Duplicate - Cli	1471978-22
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Metals ICP (Hot Block) in soil

Internal Std	1471971-1
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Blank	1471971-2
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Internal Std	1471971-3
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Duplicate - Cli	1471971-21
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PCB - Soil

Calibration Ck	1470963-1
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Blank	1470963-2
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Spike	1470963-4
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Duplicate - Cli	1470963-5
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TEH-CCME-Soil (Shake)

Spike	1470952-2
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Duplicate - Cli	1470952-3
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Calibration Ck	1470952-5
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Blank	1470952-6
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1089483-72

BTEX-CCME - Water

Spike	1470965-2
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Duplicate - Cli	1470965-3
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Calibration Ck	1470965-4
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Calibration Ck	1470965-15
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Blank	1470965-16
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Mercury (Total) in water

Internal Std	1471574-1
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Internal Std	1471574-2
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Internal Std	1471574-3
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Internal Std	1471574-4
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Blank	1471574-5
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Duplicate - Cli	1471574-6
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Duplicate - Cli	1471574-23
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Metals ICP-MS (Total) in water

Internal Std	1471255-1
Internal Std	1471255-2
Internal Std	1471255-3
Internal Std	1471255-4
Blank	1471255-5
Duplicate - Cli	1471255-10
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16

TEH-CCME - Water

Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-73

BTEX-CCME - Water

Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27

Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30
Metals Trace (Total) in water	
Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34
PCB - Water	
Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16
TEH-CCME - Water	
Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16
1089483-74	
BTEX-CCME - Water	
Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16
Mercury (Total) in water	
Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23
Metals ICP-MS (Total) in water	
Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30
Metals Trace (Total) in water	
Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3

Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34
PCB - Water	
Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16
TEH-CCME - Water	
Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16
1089483-75	
BTEX-CCME - Water	
Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16
Mercury (Total) in water	
Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23
Metals ICP-MS (Total) in water	
Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30
Metals Trace (Total) in water	
Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34
PCB - Water	
Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15

Blank	1470969-16
TEH-CCME - Water	
Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-76

BTEX-CCME - Water	
Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16

TEH-CCME - Water

Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-77

BTEX-CCME - Water

Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16

TEH-CCME - Water

Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-78

BTEX-CCME - Water

Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16

TEH-CCME - Water

Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-79

BTEX-CCME - Water

Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16

TEH-CCME - Water

Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-80

BTEX-CCME - Water

Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-6
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16

TEH-CCME - Water

Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

1089483-81

BTEX-CCME - Water

Spike	1470965-2
Duplicate - Cli	1470965-3
Calibration Ck	1470965-4
Calibration Ck	1470965-15
Blank	1470965-16

Mercury (Total) in water

Internal Std	1471574-1
Internal Std	1471574-2
Internal Std	1471574-3
Internal Std	1471574-4
Blank	1471574-5
Duplicate - Cli	1471574-23

Metals ICP-MS (Total) in water

Internal Std	1471255-4
Blank	1471255-5
Internal Std	1471255-27
Internal Std	1471255-28
Internal Std	1471255-29
Duplicate - Cli	1471255-30

Metals Trace (Total) in water

Internal Std	1471254-1
Internal Std	1471254-2
Internal Std	1471254-3
Internal Std	1471254-4
Blank	1471254-5
Duplicate - Cli	1471254-34

PCB - Water

Spike	1470969-2
Int. Duplicate	1470969-4
Calibration Ck	1470969-15
Blank	1470969-16
TEH-CCME - Water	
Spike	1470967-2
Int. Duplicate	1470967-4
Calibration Ck	1470967-15
Blank	1470967-16

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

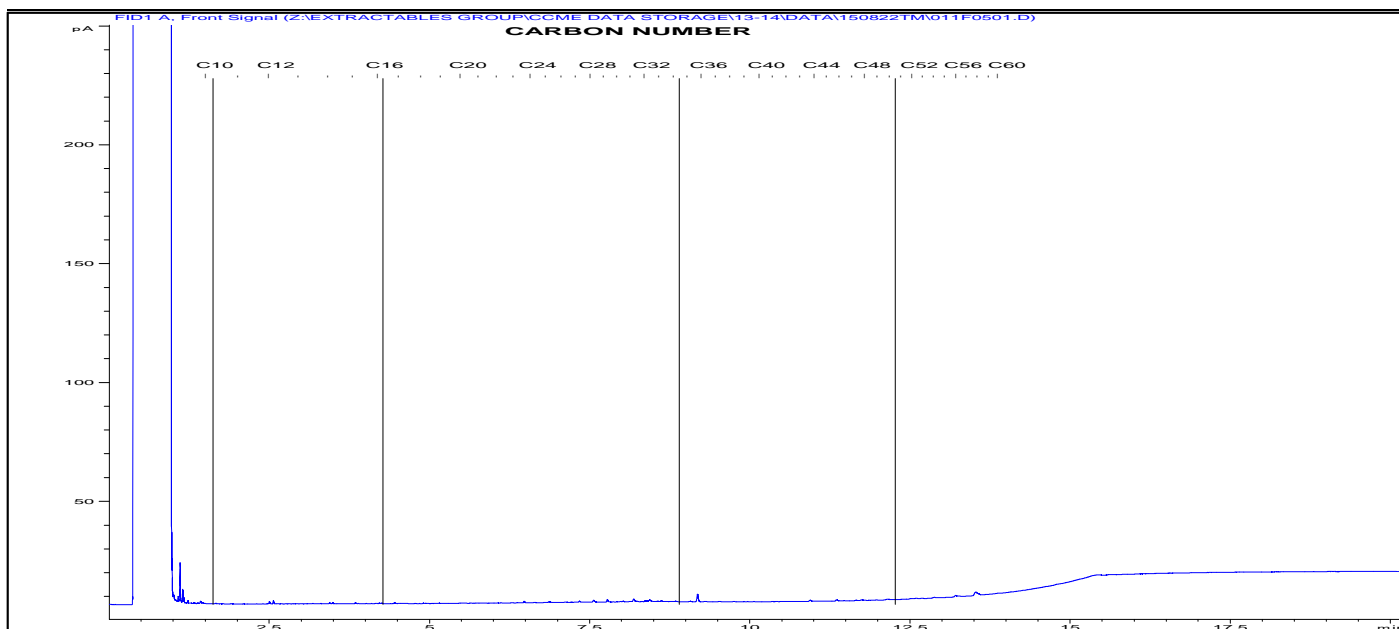
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-1

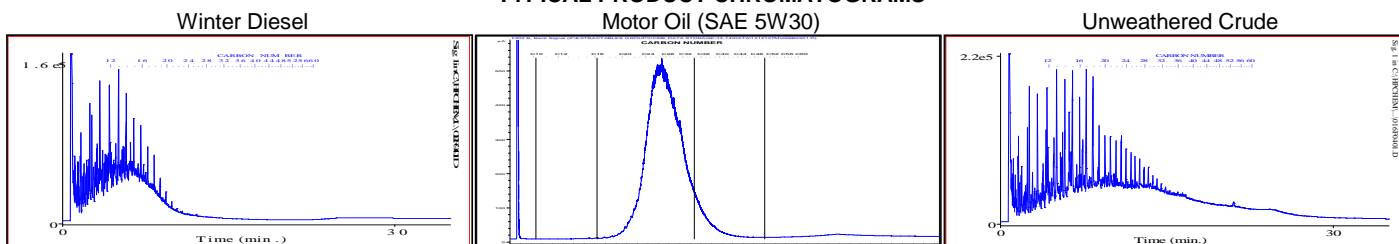
Sample Description: P415-1A

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

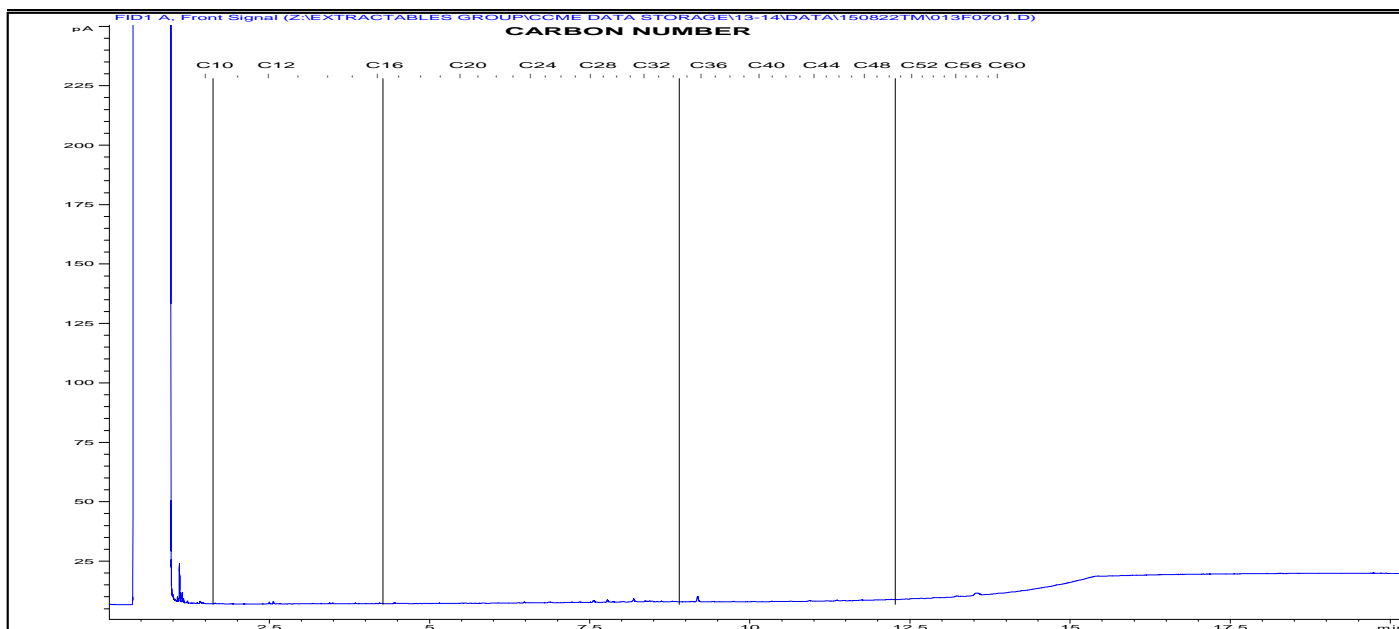
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-2

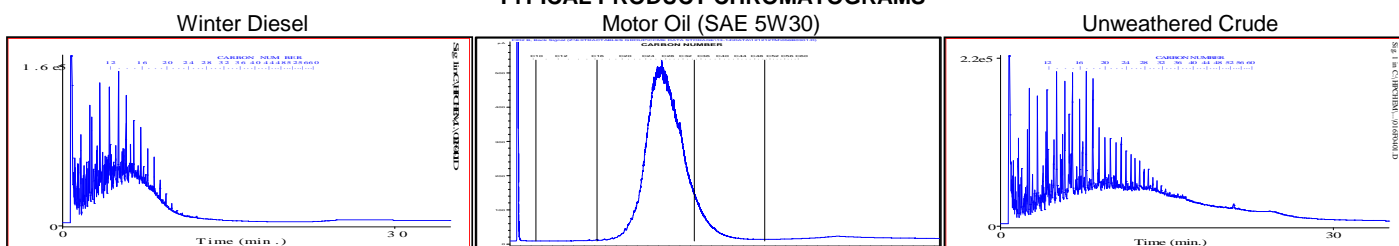
Sample Description: P415-1B

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

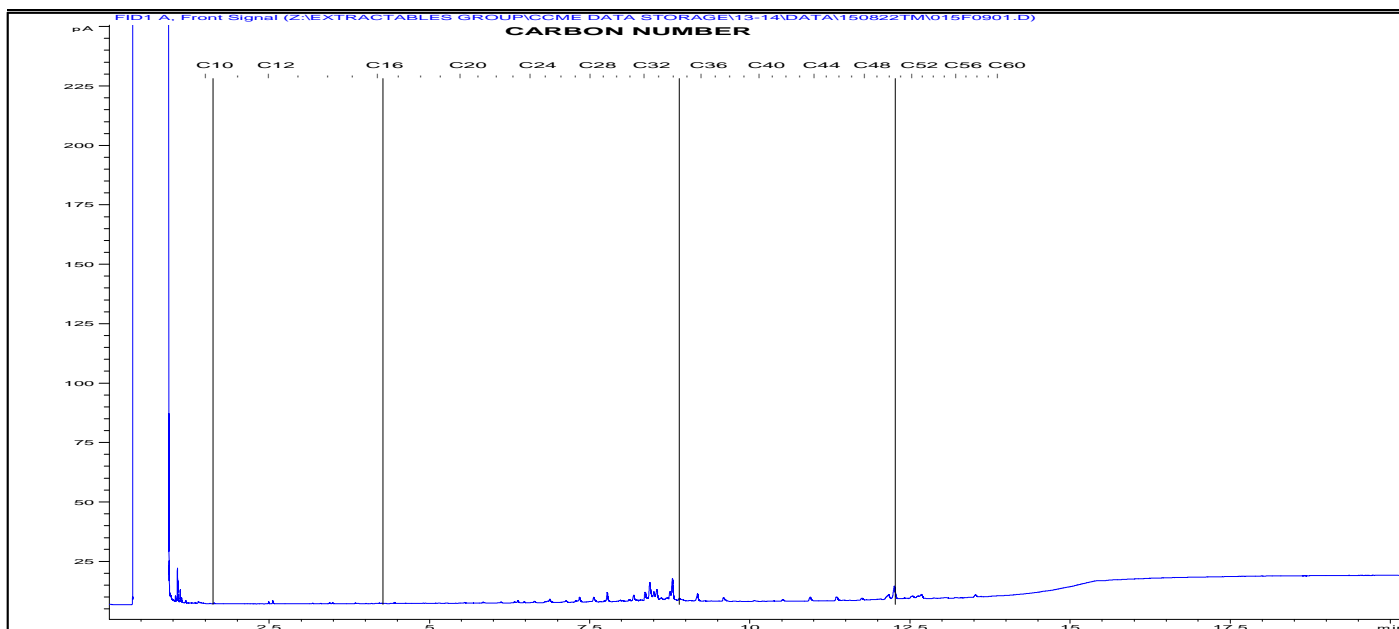
Bill To: SILA Remediation	Project ID: KITIK13	Lot ID: 1089483
Report To: SILA Remediation	Name: Pin-4	Control Number: C0008969
250-1260 Boul Lebourgneuf	Location: Byron Bay	Date Received: Aug 21, 2015
Quebec, QC, Canada	LSD:	Date Reported: Aug 25, 2015
G2K 2G2	P.O.:	Report Number: 2036230
Attn: Jean-Pierre Pelletier		
Sampled by: A. Passalis		
Company: Sila Remediation		

Exova Number: 1089483-3

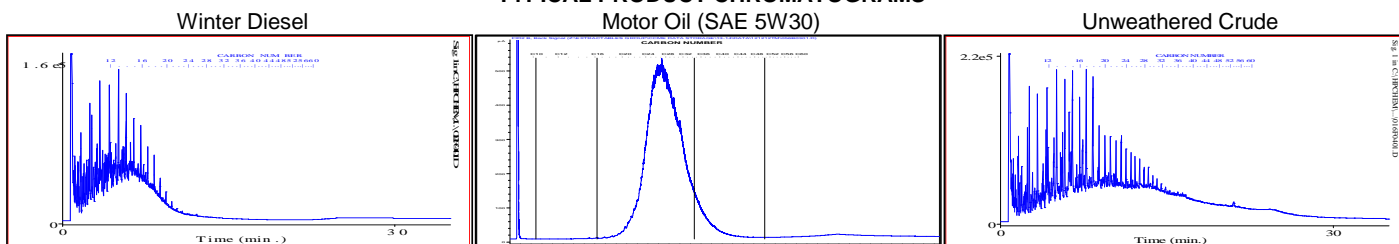
Sample Description: P415-2A

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

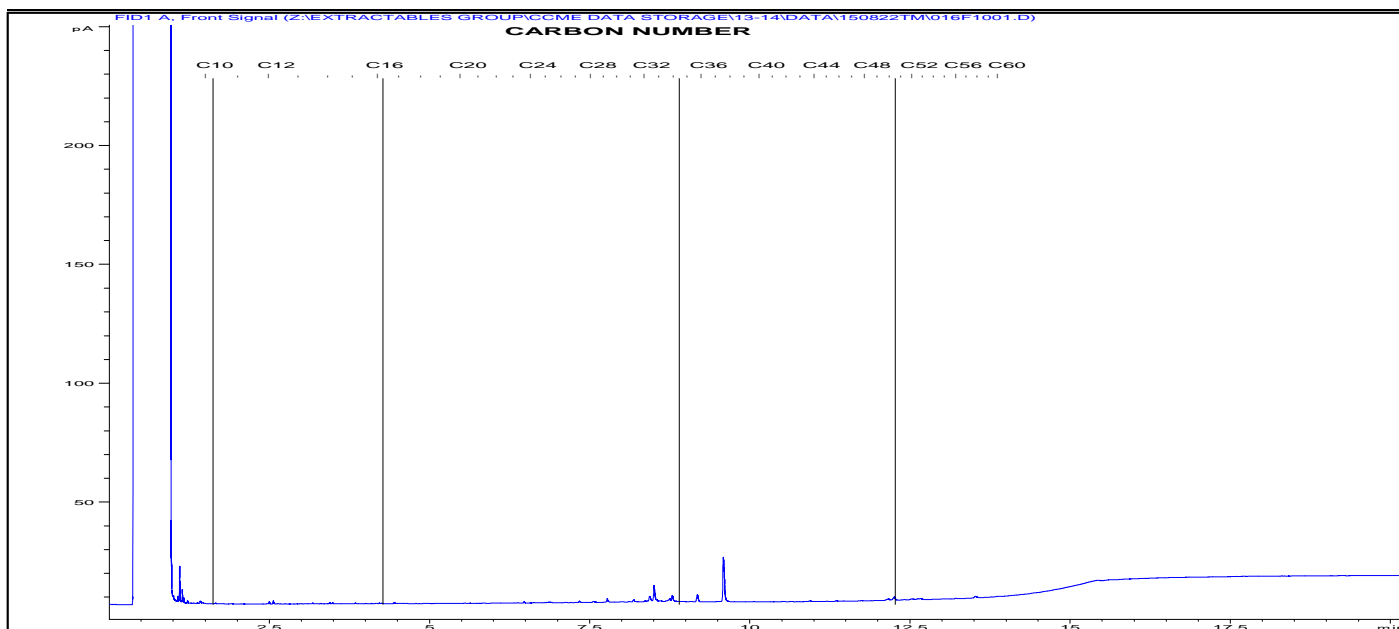
Bill To: SILA Remediation	Project ID: KITIK13	Lot ID: 1089483
Report To: SILA Remediation	Name: Pin-4	Control Number: C0008969
250-1260 Boul Lebourgneuf	Location: Byron Bay	Date Received: Aug 21, 2015
Quebec, QC, Canada	LSD:	Date Reported: Aug 25, 2015
G2K 2G2	P.O.:	Report Number: 2036230
Attn: Jean-Pierre Pelletier		
Sampled by: A. Passalis		
Company: Sila Remediation		

Exova Number: 1089483-4

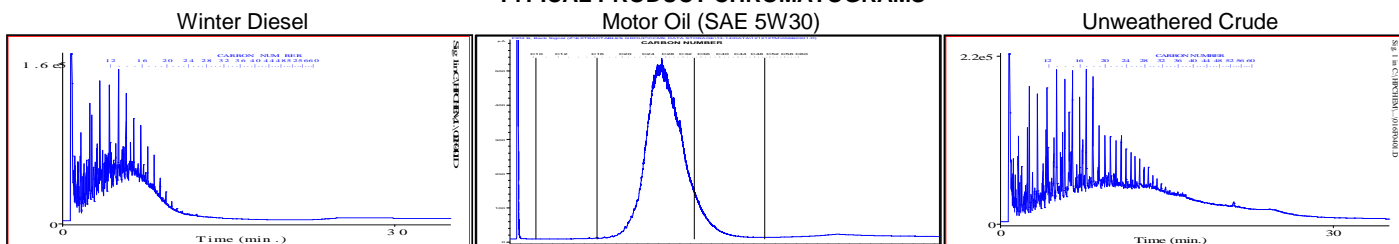
Sample Description: P415-2B

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

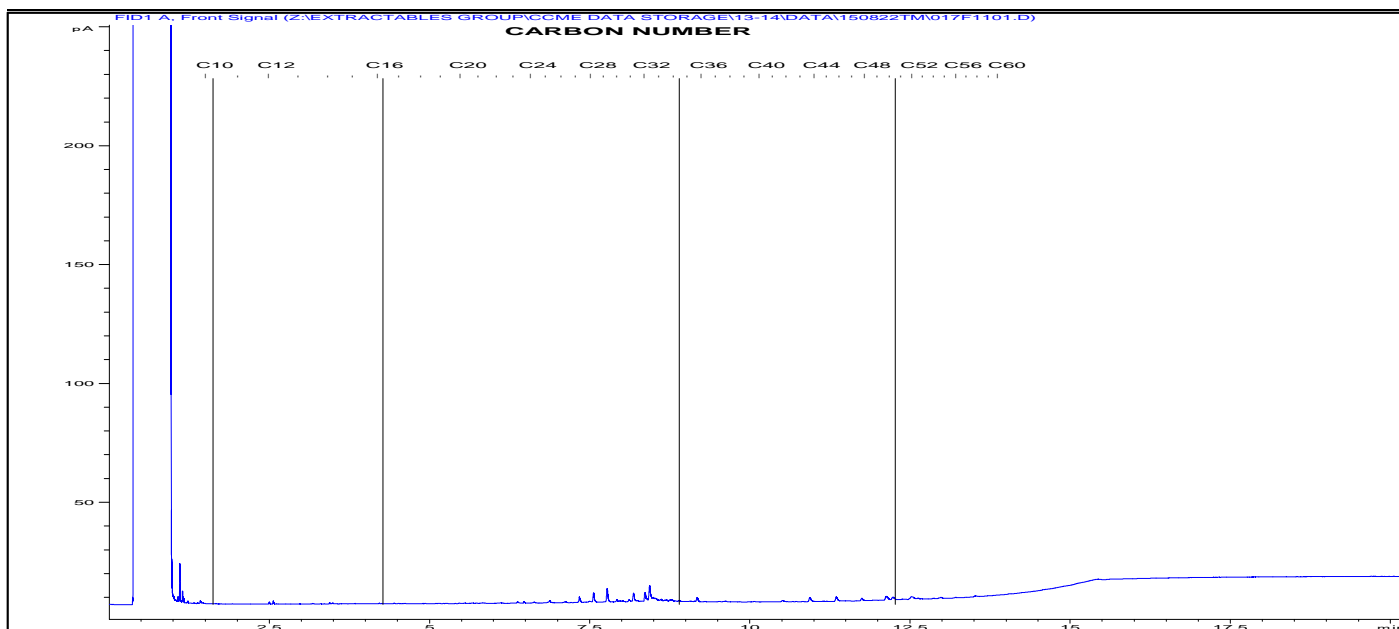
Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-5

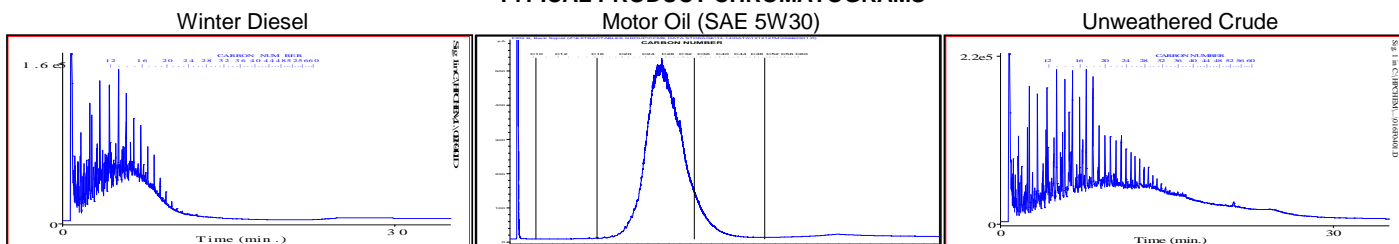
Sample Description: P415-3A

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

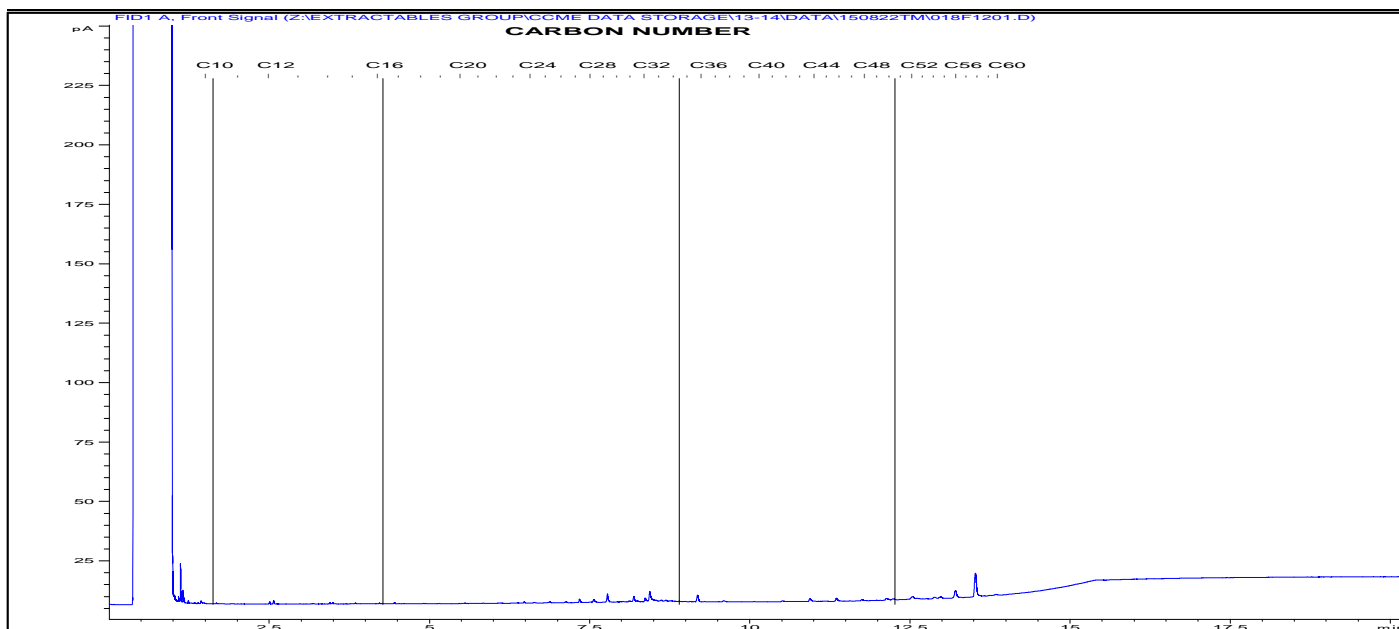
Bill To: SILA Remediation	Project ID: KITIK13	Lot ID: 1089483
Report To: SILA Remediation	Name: Pin-4	Control Number: C0008969
250-1260 Boul Lebourgneuf	Location: Byron Bay	Date Received: Aug 21, 2015
Quebec, QC, Canada	LSD:	Date Reported: Aug 25, 2015
G2K 2G2	P.O.:	Report Number: 2036230
Attn: Jean-Pierre Pelletier		
Sampled by: A. Passalis		
Company: Sila Remediation		

Exova Number: 1089483-6

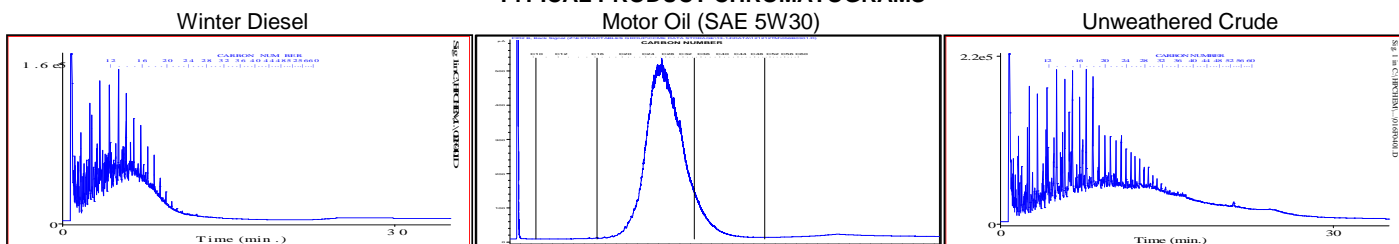
Sample Description: P415-3B

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

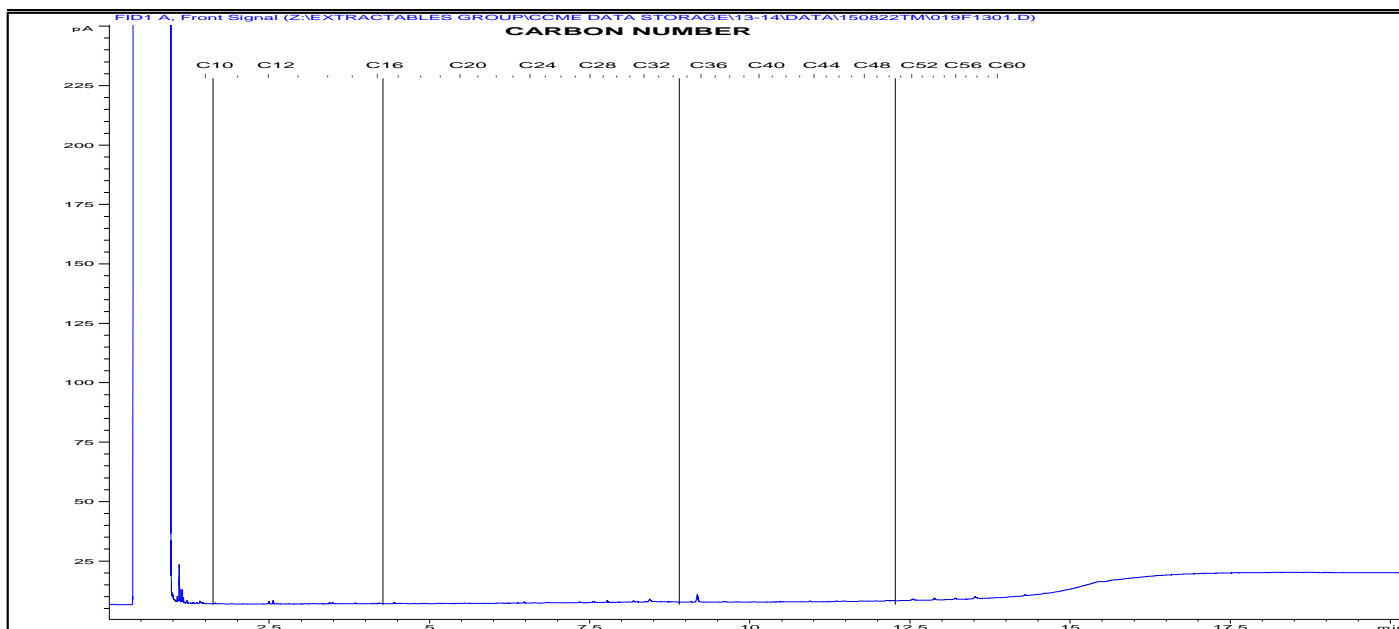
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-7

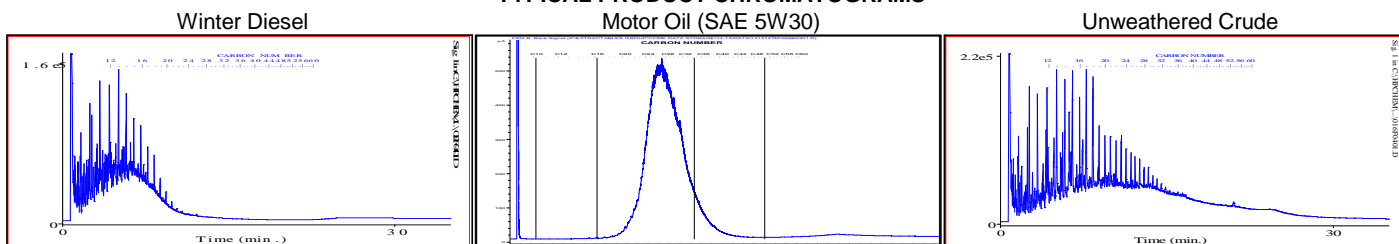
Sample Description: P415-4A

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

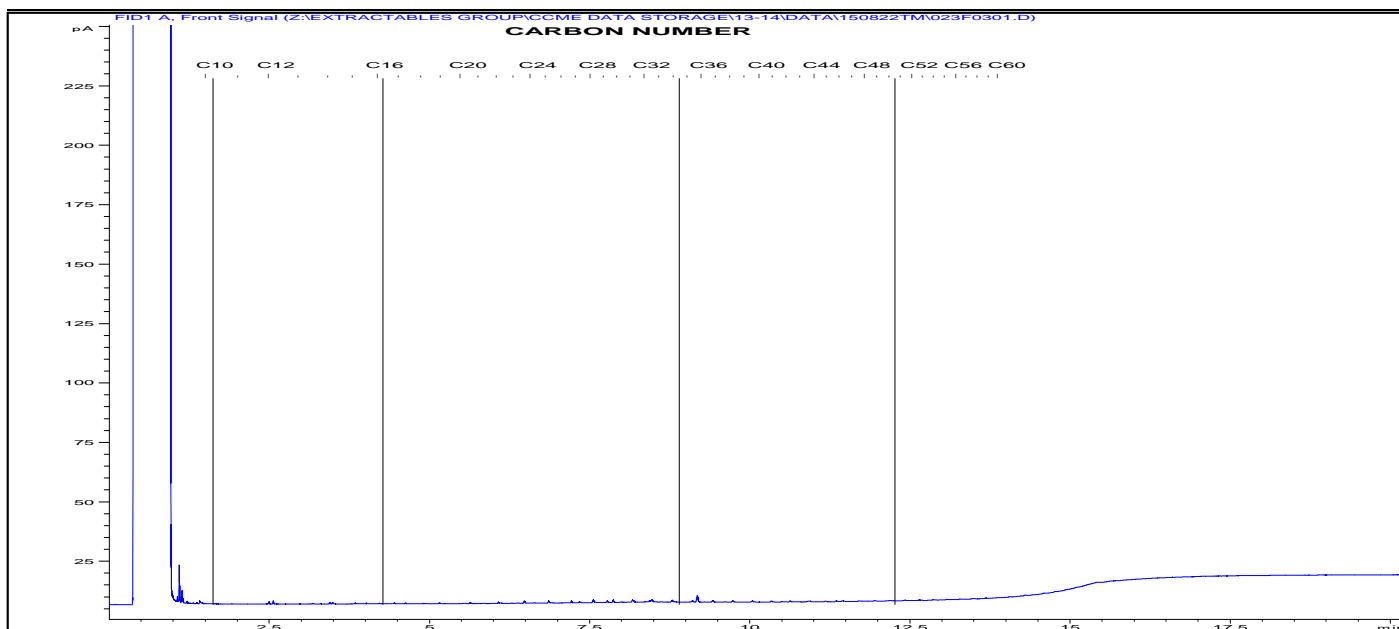
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-8

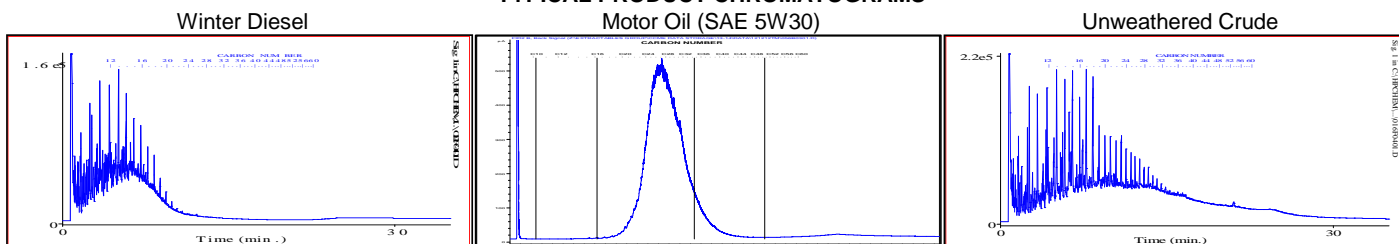
Sample Description: P415-4B

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

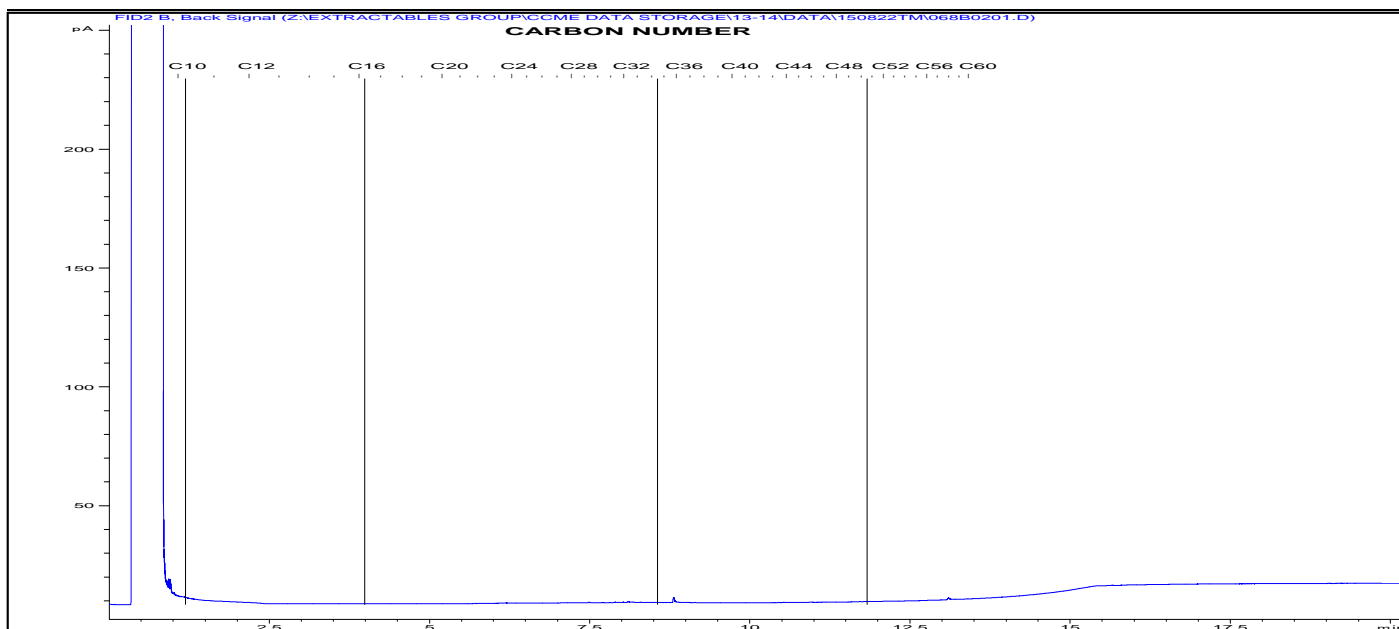
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 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-9

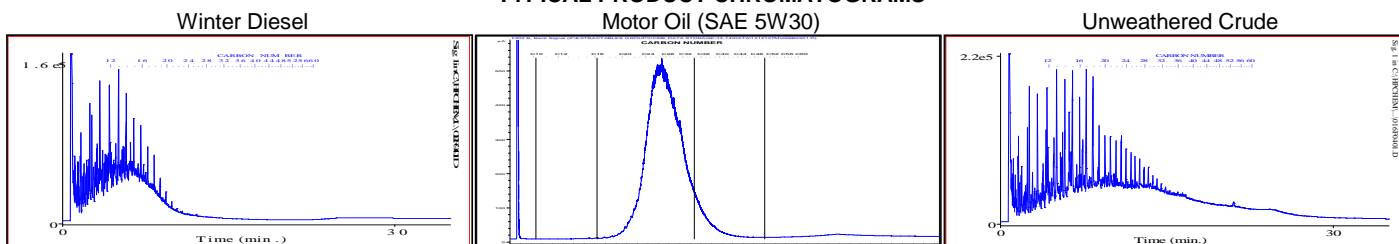
Sample Description: P415-5A

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

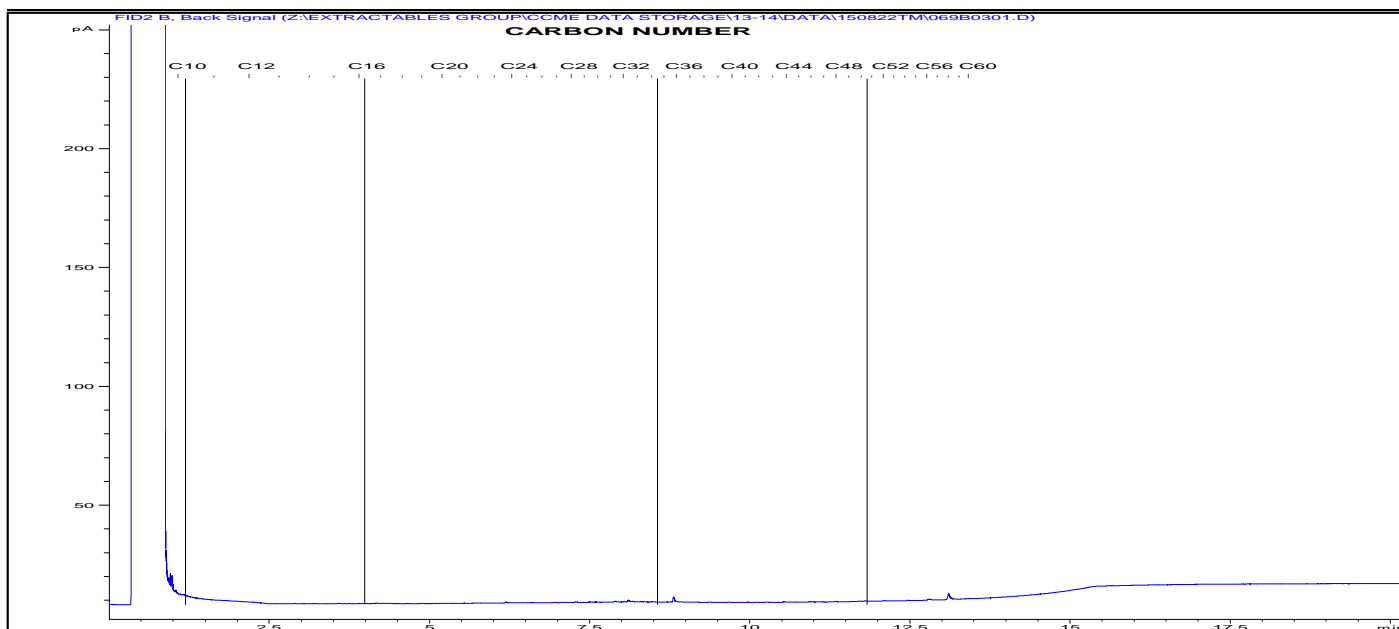
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 Location: Byron Bay
 LSD:
 P.O.:

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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

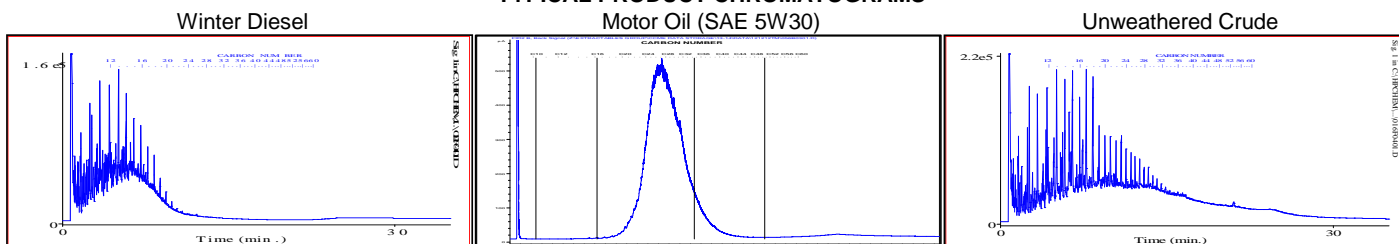
Exova Number: 1089483-10
 Sample Date: Aug 17, 2015

Sample Description: P415-5B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

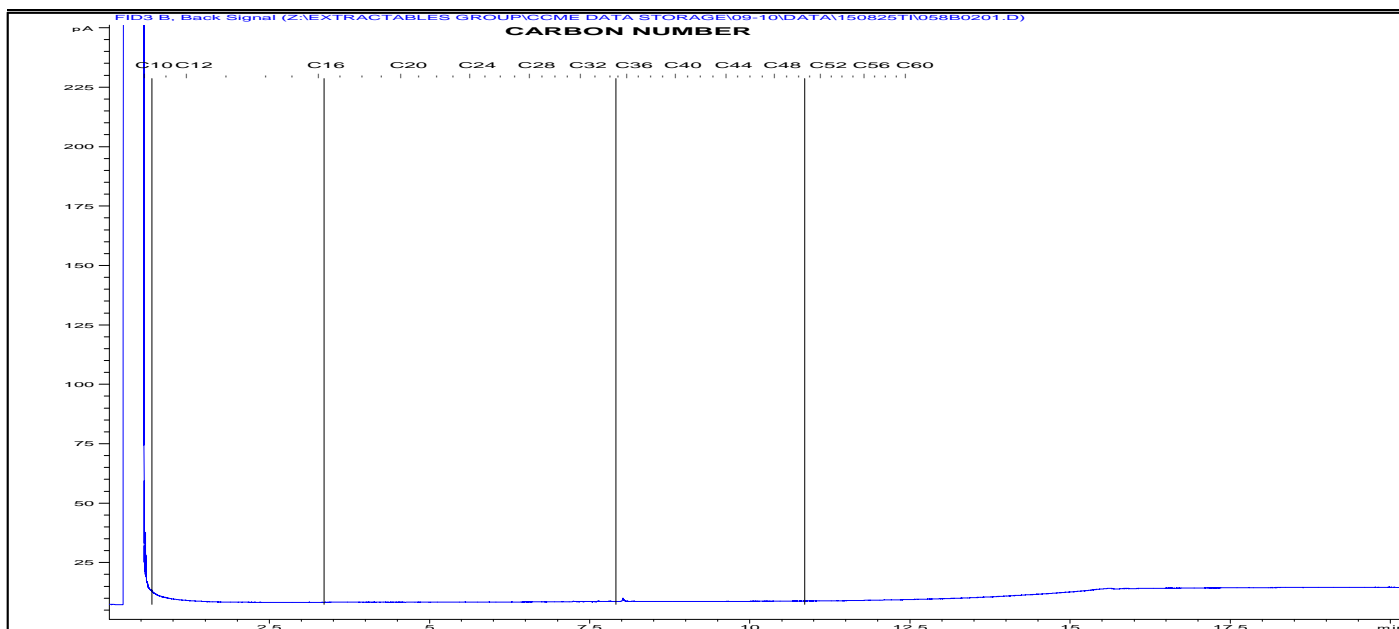
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 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

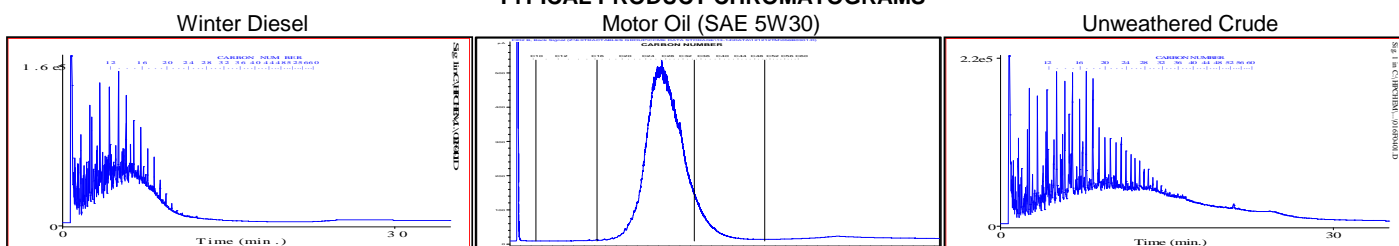
Exova Number: 1089483-11
 Sample Date: Aug 17, 2015

Sample Description: P415-6A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

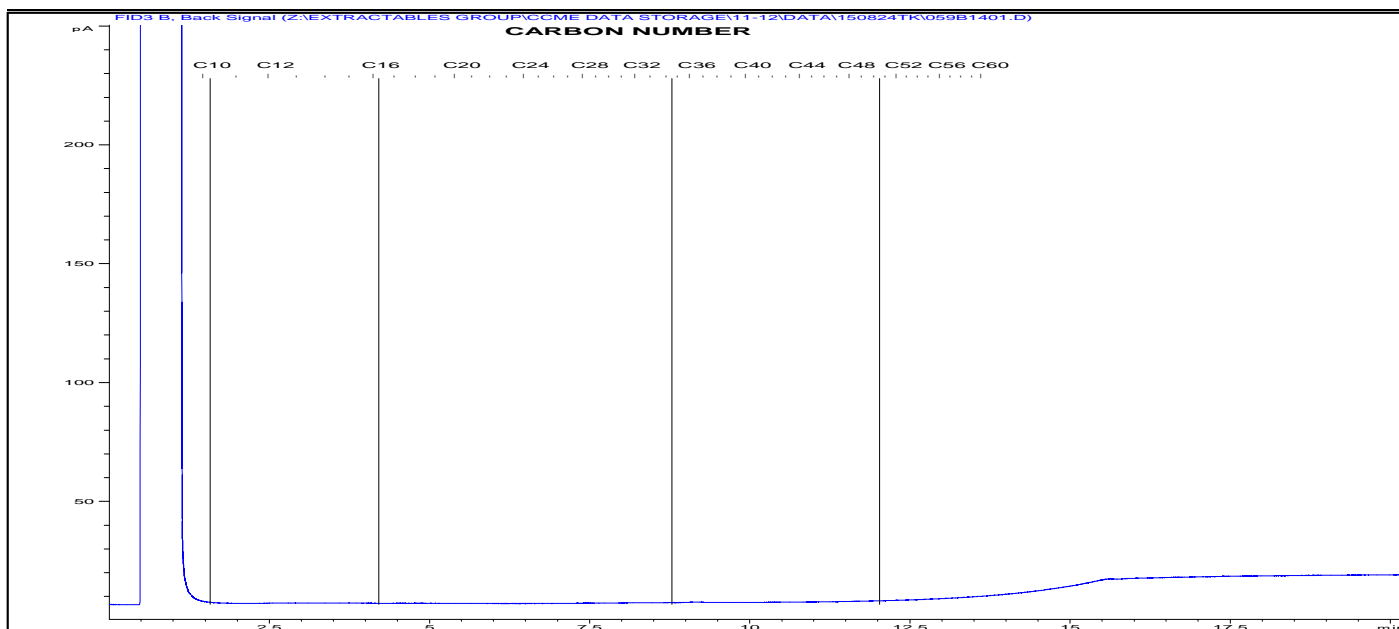
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

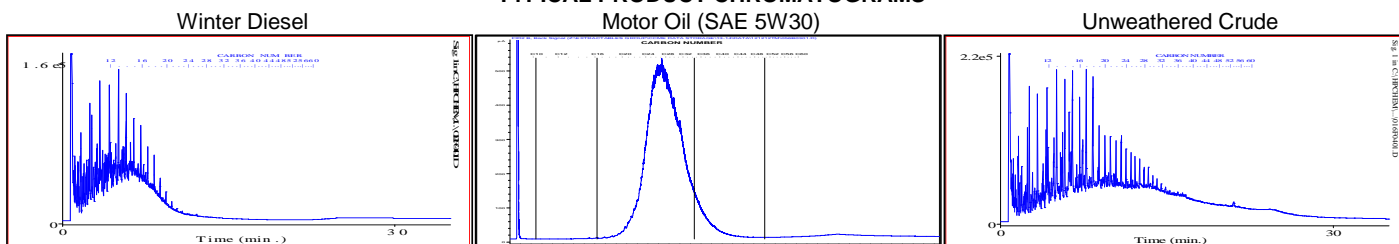
Exova Number: 1089483-12
 Sample Date: Aug 17, 2015

Sample Description: P415-6B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

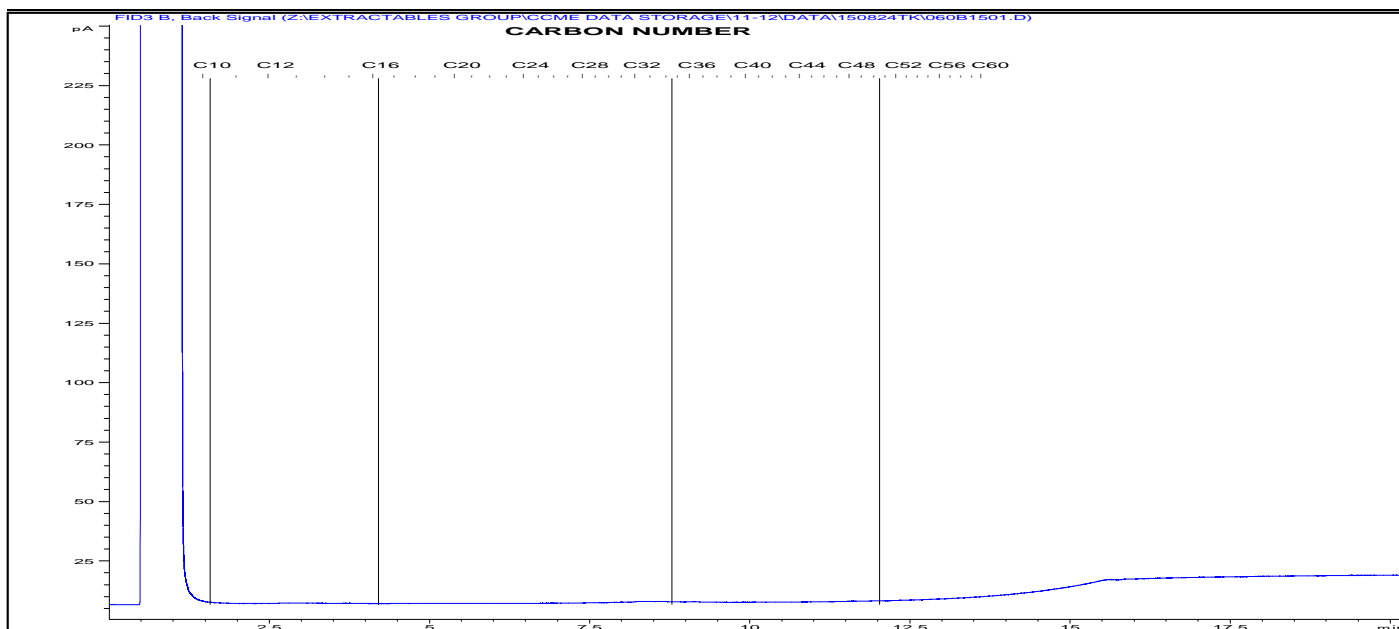
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

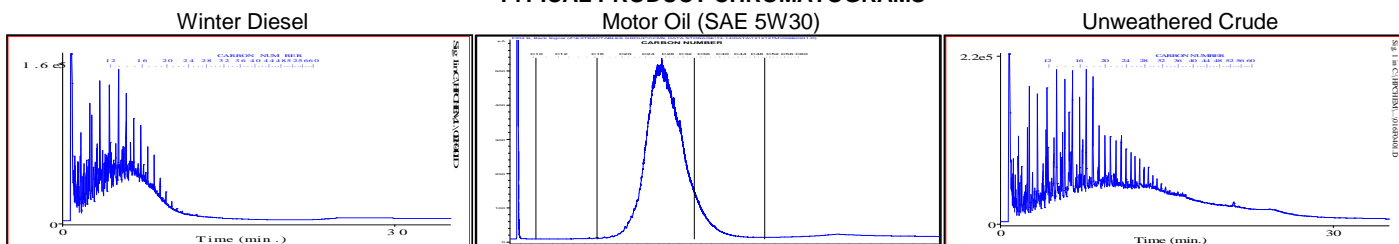
Exova Number: 1089483-13
 Sample Date: Aug 17, 2015

Sample Description: P415-7A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

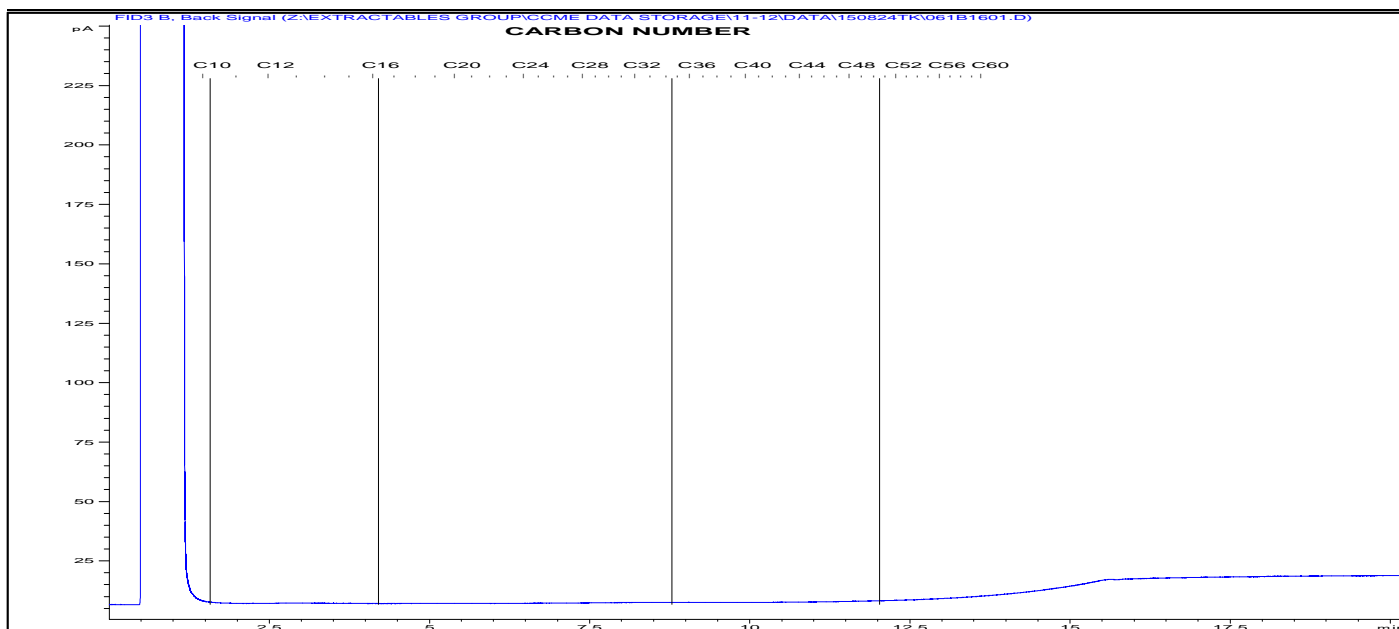
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

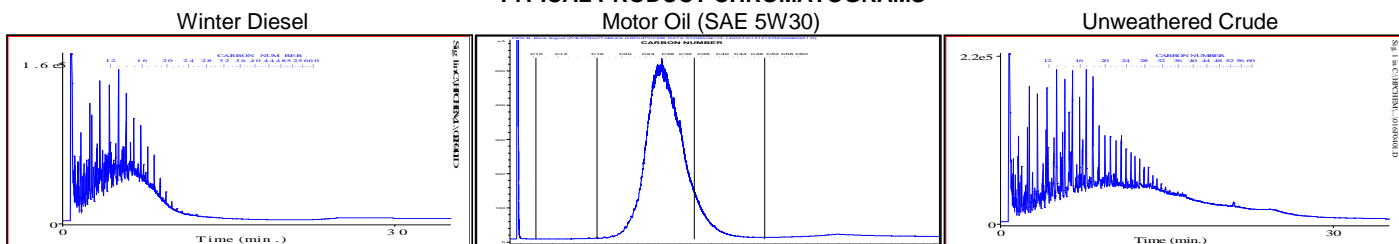
Exova Number: 1089483-14
 Sample Date: Aug 17, 2015

Sample Description: P415-7B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

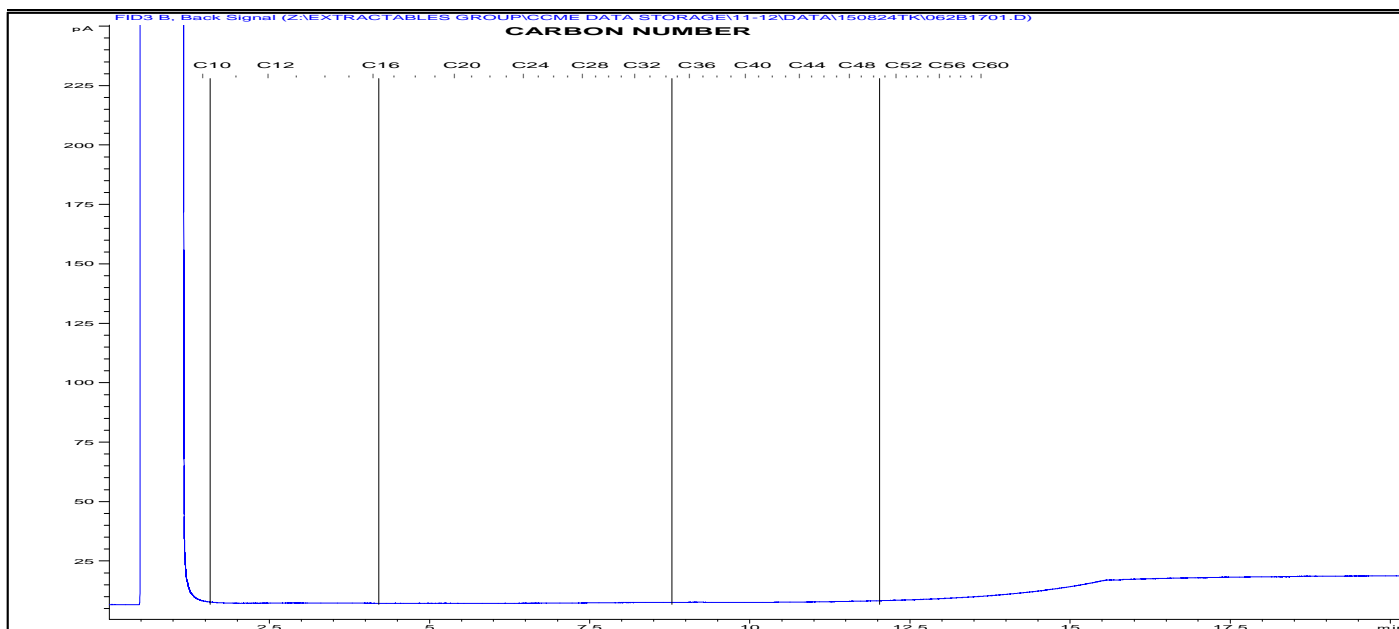
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

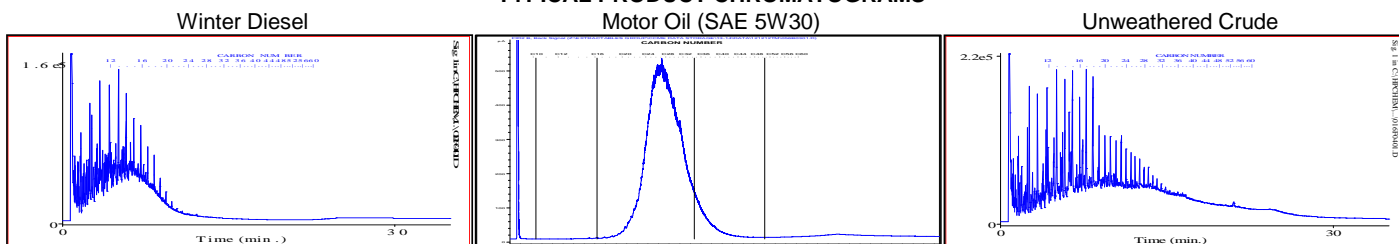
Exova Number: 1089483-15
 Sample Date: Aug 17, 2015

Sample Description: P415-8A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

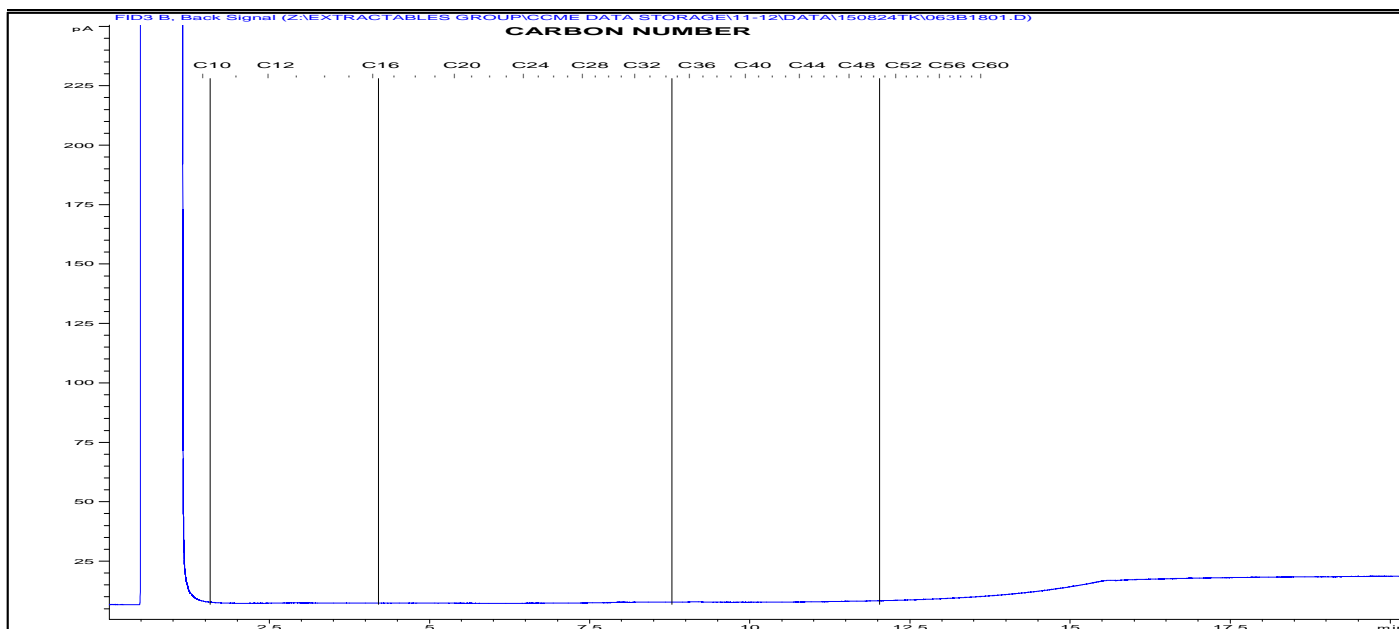
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

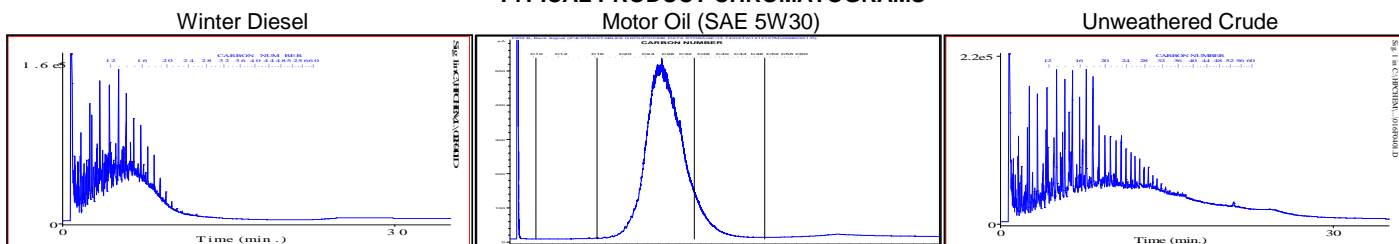
Exova Number: 1089483-16
 Sample Date: Aug 17, 2015

Sample Description: P415-8B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

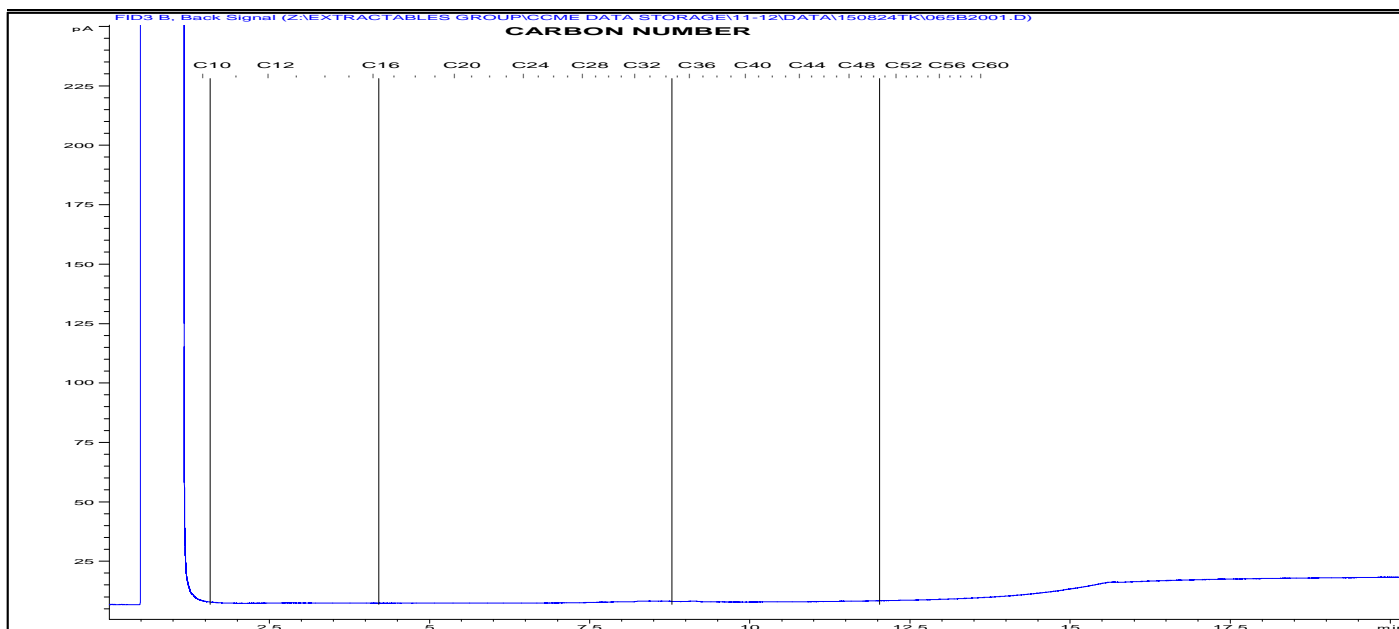
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

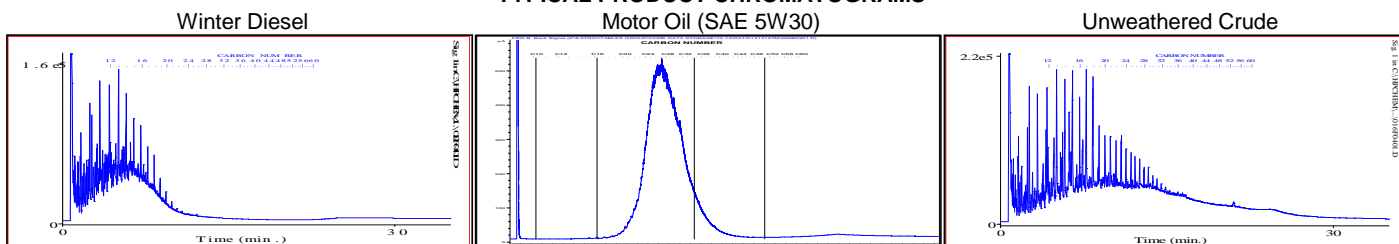
Exova Number: 1089483-17
 Sample Date: Aug 17, 2015

Sample Description: P415-9A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

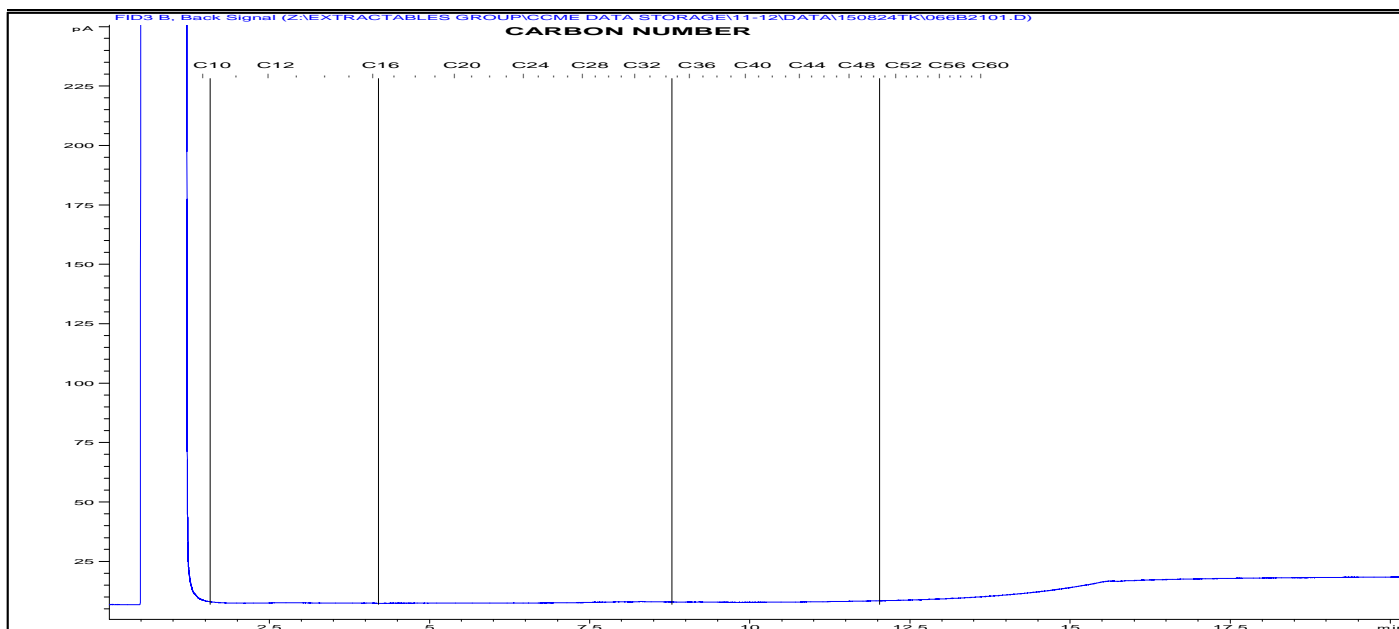
Bill To: SILA Remediation	Project ID: KITIK13	Lot ID: 1089483
Report To: SILA Remediation	Name: Pin-4	Control Number: C0008969
250-1260 Boul Lebourgneuf	Location: Byron Bay	Date Received: Aug 21, 2015
Quebec, QC, Canada	LSD:	Date Reported: Aug 25, 2015
G2K 2G2	P.O.:	Report Number: 2036230
Attn: Jean-Pierre Pelletier		
Sampled by: A. Passalis		
Company: Sila Remediation		

Exova Number: 1089483-18

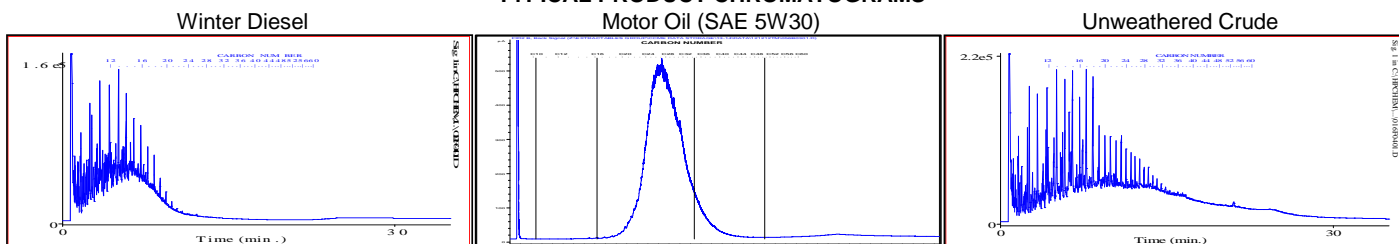
Sample Description: P415-9B

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

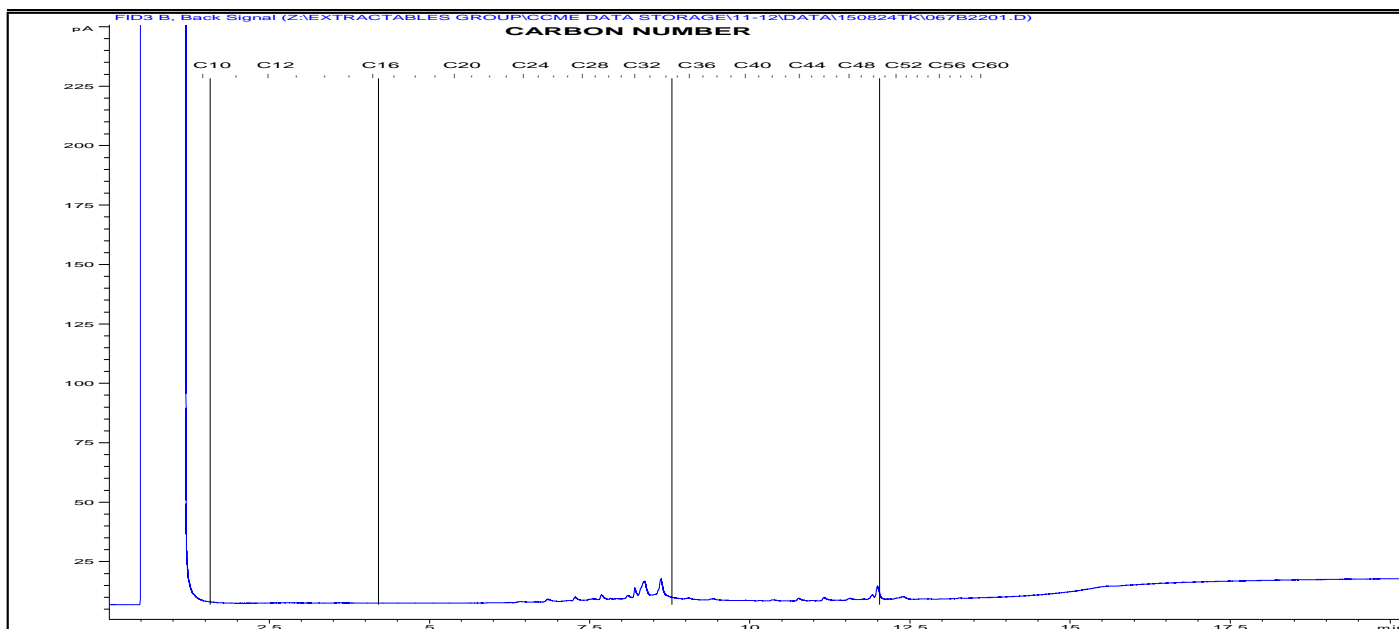
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Report To: SILA Remediation	Name: Pin-4	Control Number: C0008969
250-1260 Boul Lebourgneuf	Location: Byron Bay	Date Received: Aug 21, 2015
Quebec, QC, Canada	LSD:	Date Reported: Aug 25, 2015
G2K 2G2	P.O.:	Report Number: 2036230
Attn: Jean-Pierre Pelletier		
Sampled by: A. Passalis		
Company: Sila Remediation		

Exova Number: 1089483-19

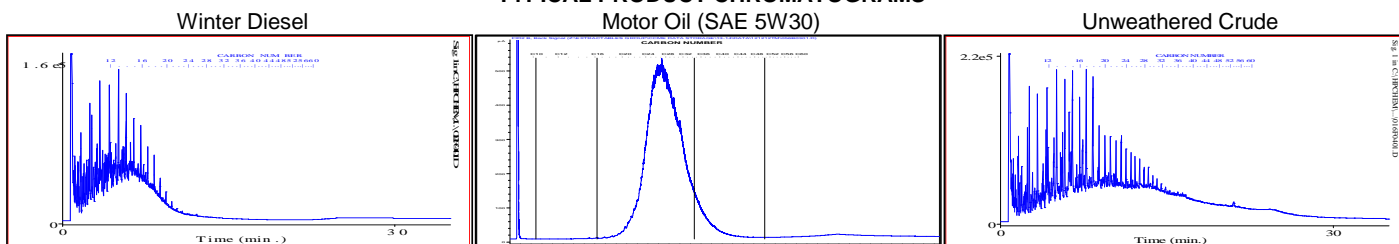
Sample Description: P415-10A

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

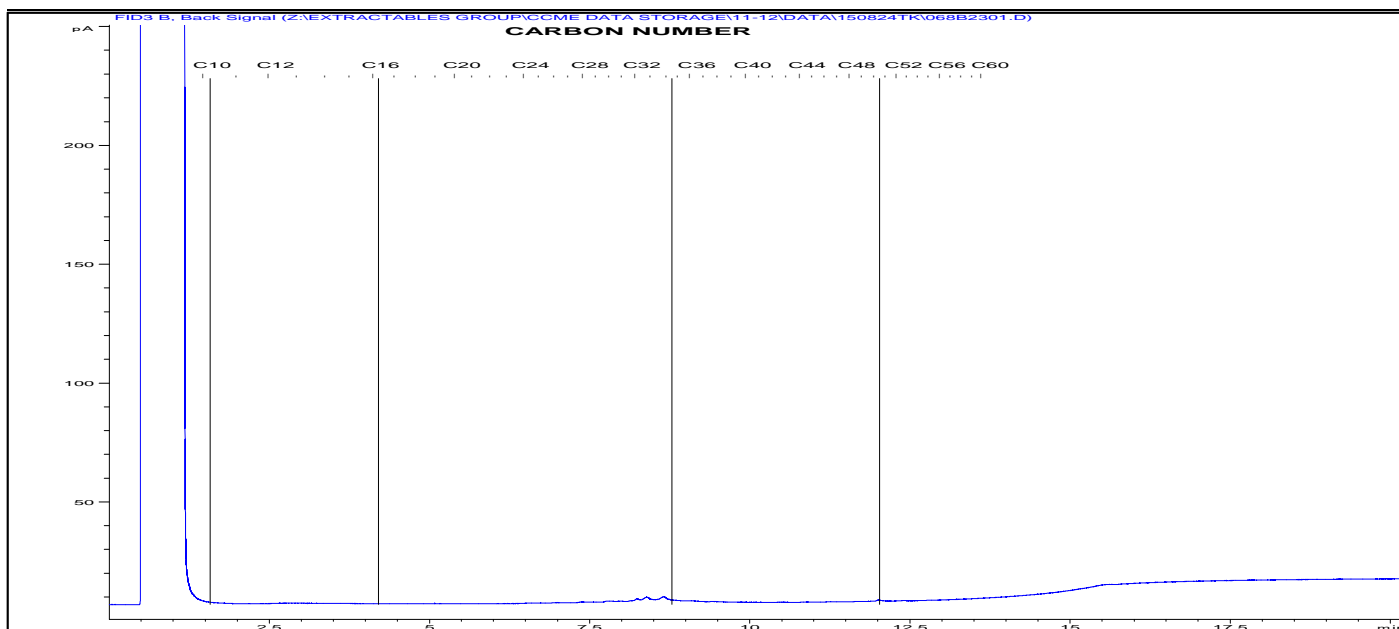
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

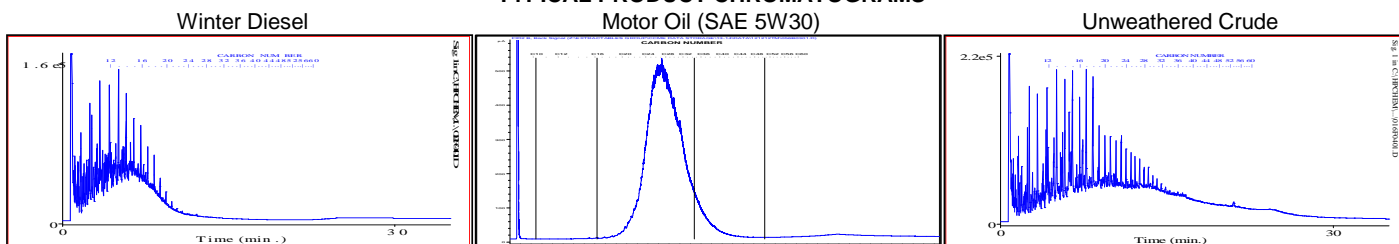
Exova Number: 1089483-20
 Sample Date: Aug 17, 2015

Sample Description: P415-10B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

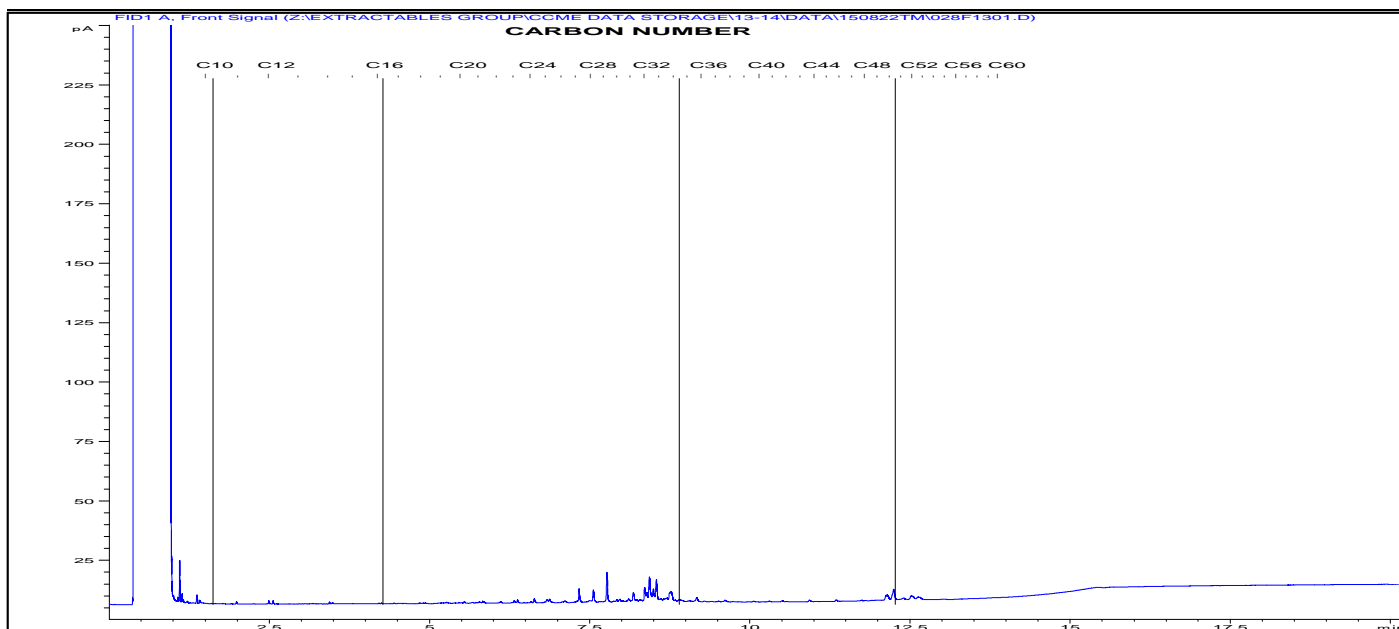
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

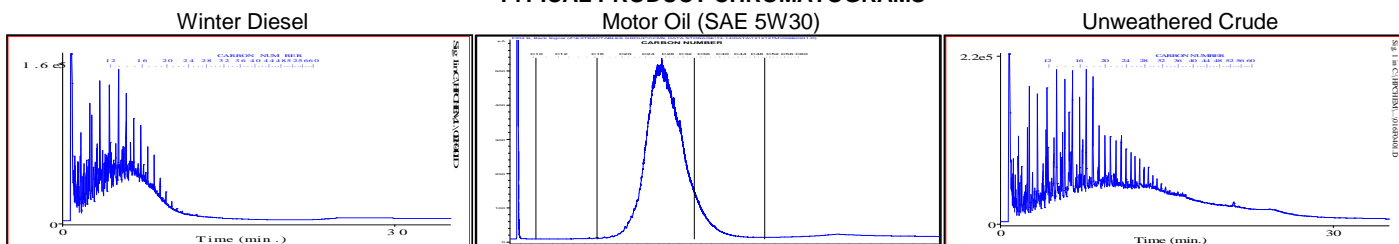
Exova Number: 1089483-21
 Sample Date: Aug 17, 2015

Sample Description: P415-11A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

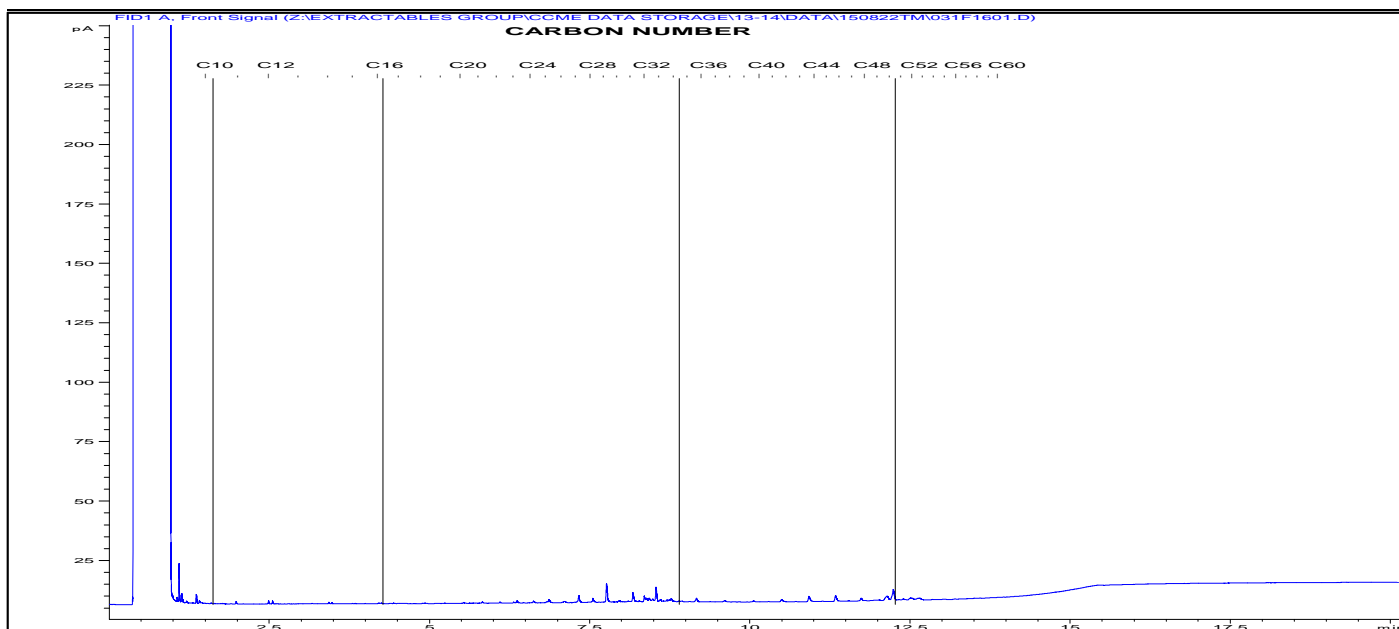
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

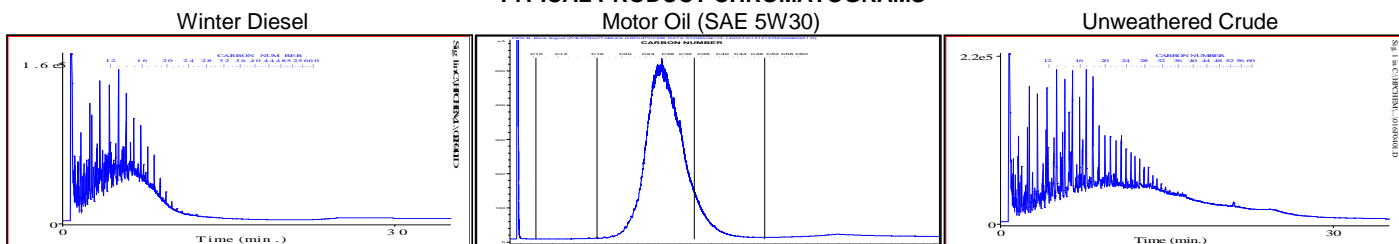
Exova Number: 1089483-22
 Sample Date: Aug 17, 2015

Sample Description: P415-11B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

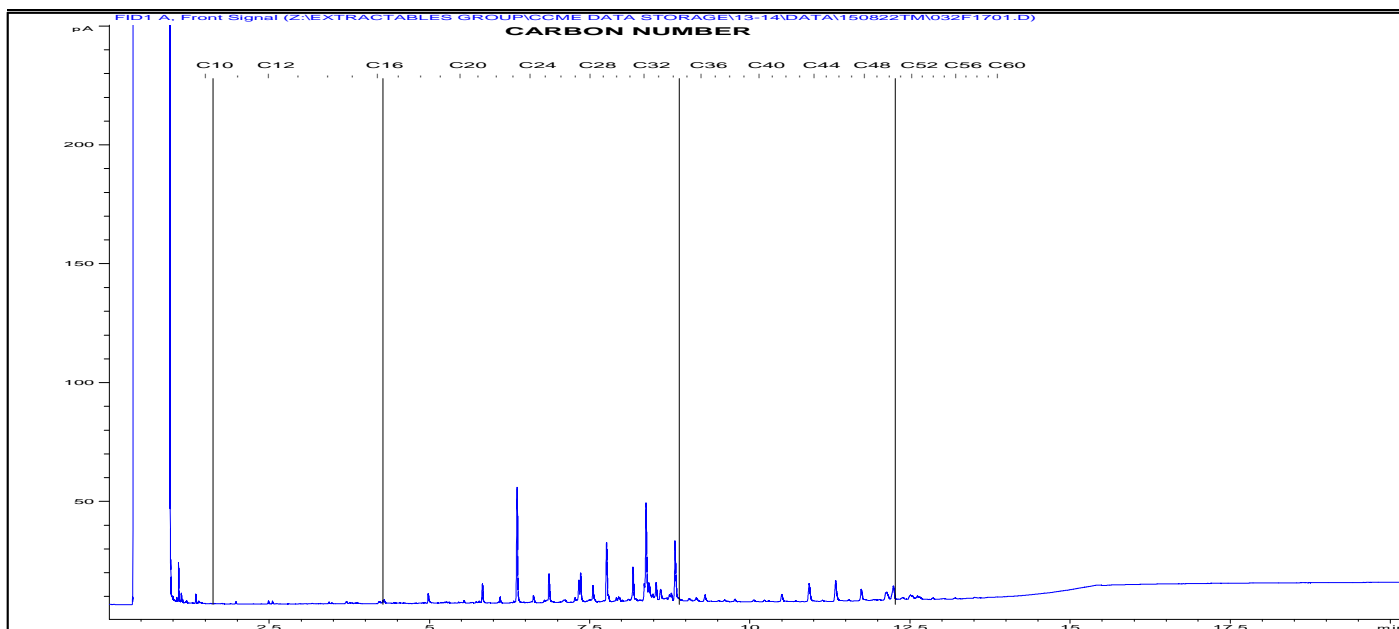
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

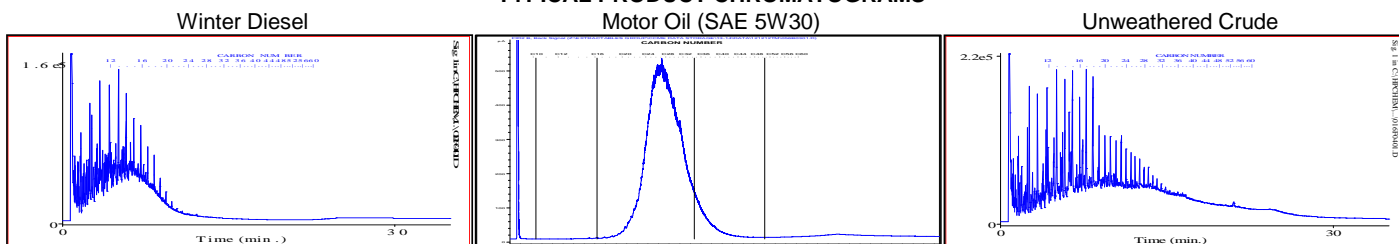
Exova Number: 1089483-23
 Sample Date: Aug 17, 2015

Sample Description: P415-12A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

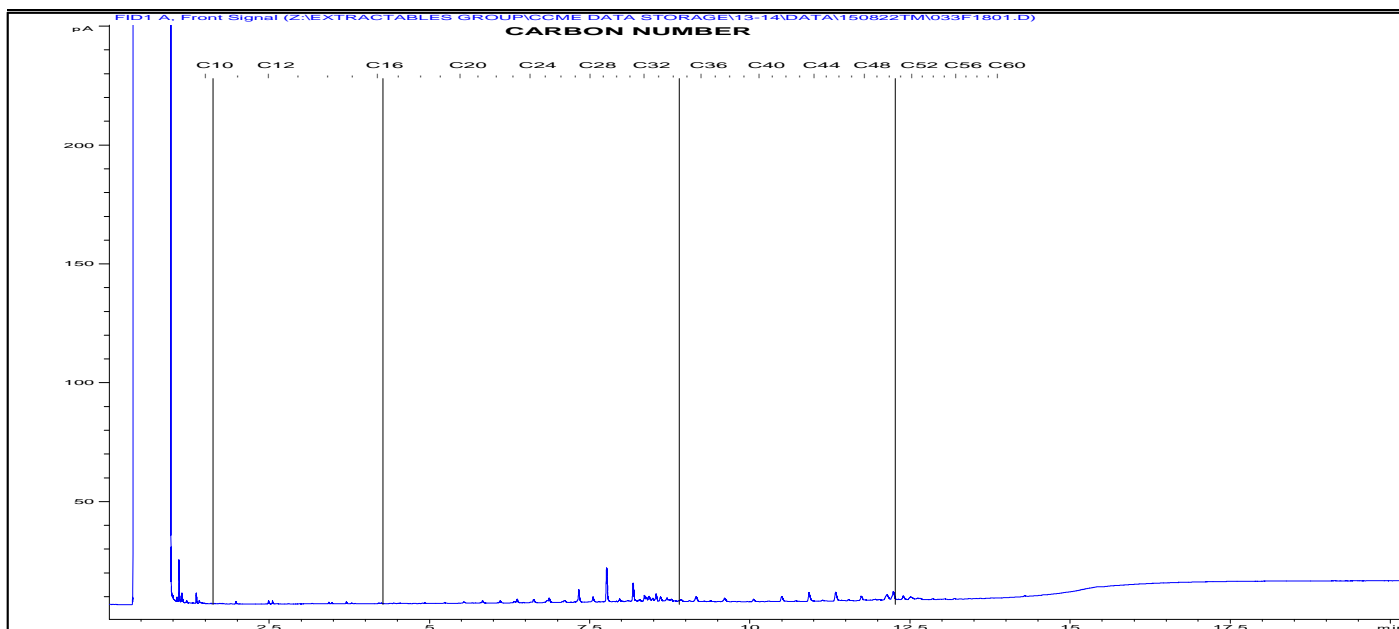
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

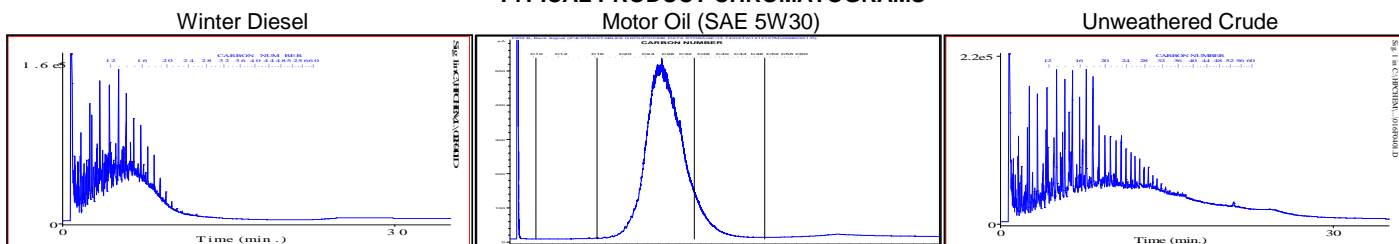
Exova Number: 1089483-24
 Sample Date: Aug 17, 2015

Sample Description: P415-12B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

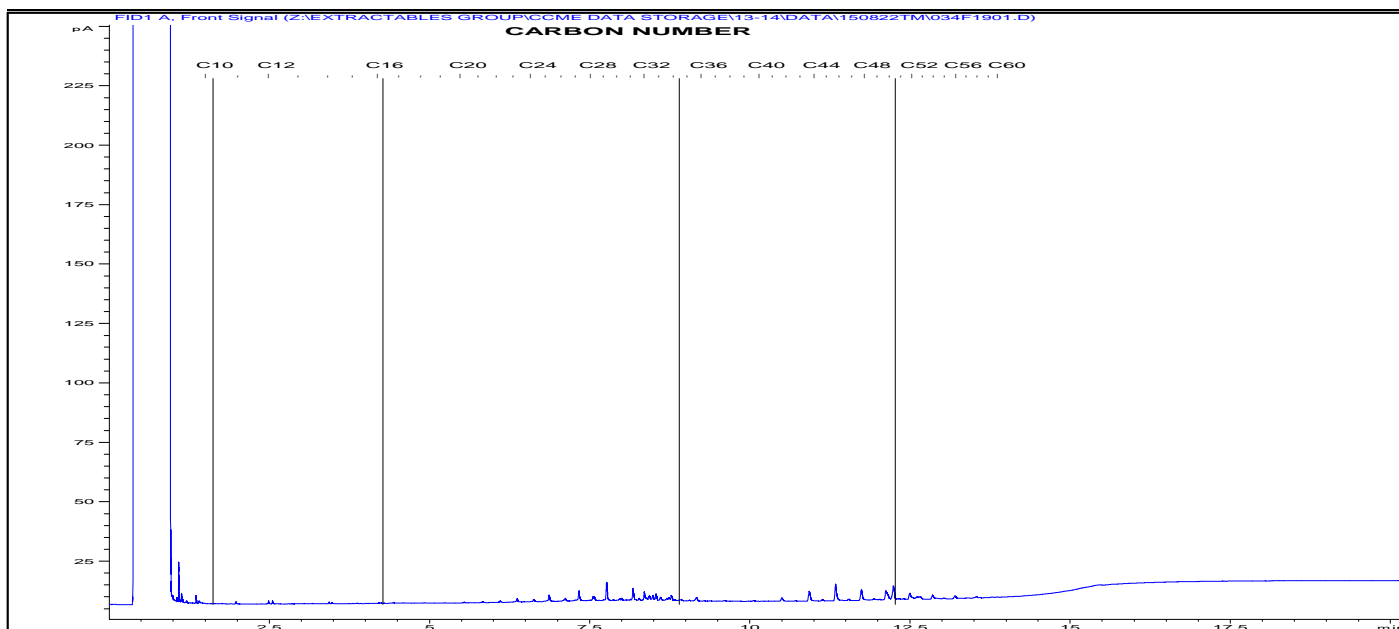
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

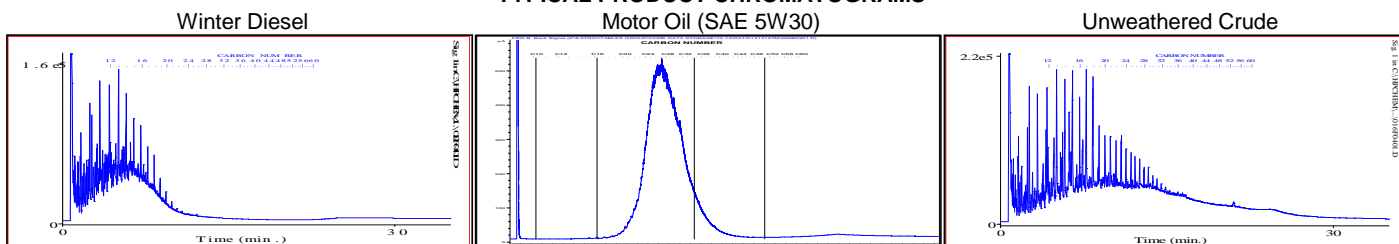
Exova Number: 1089483-25
 Sample Date: Aug 17, 2015

Sample Description: P415-13A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

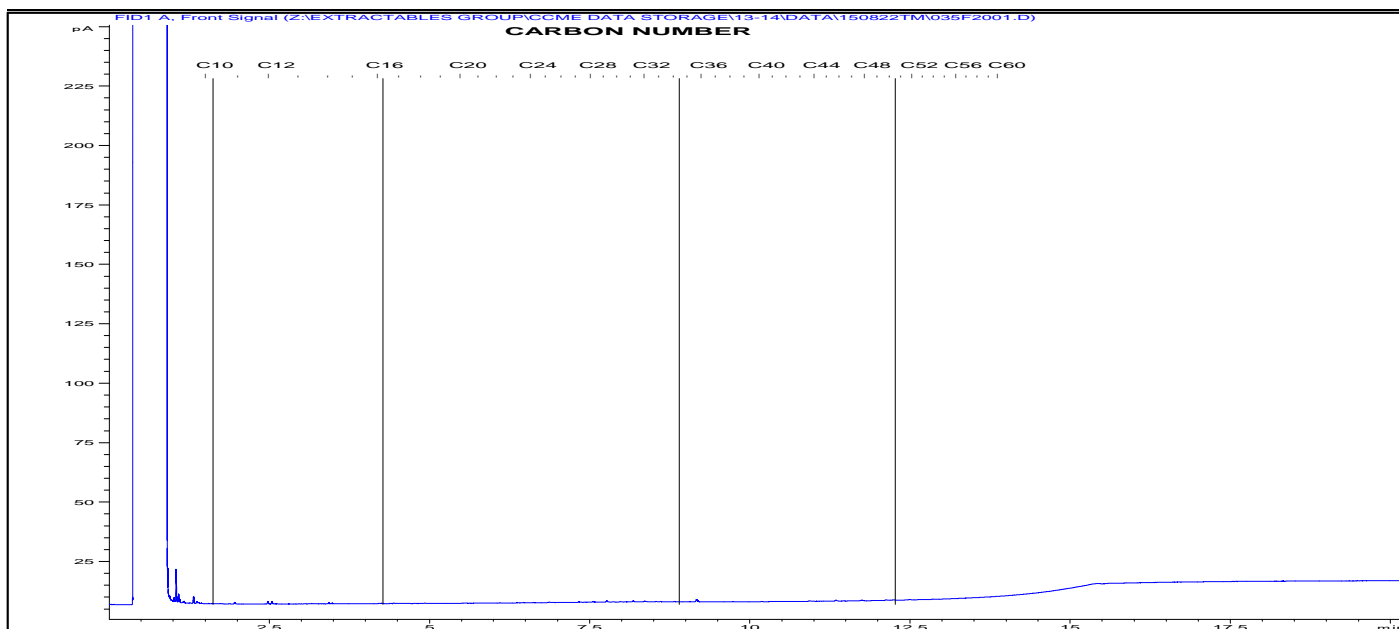
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

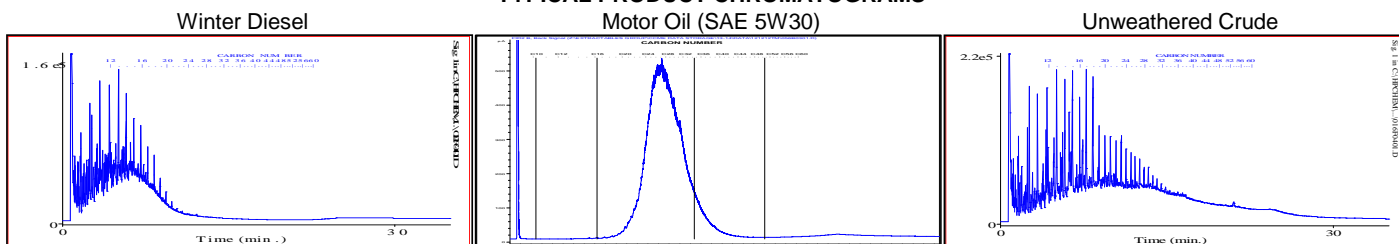
Exova Number: 1089483-26
 Sample Date: Aug 17, 2015

Sample Description: P415-13B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

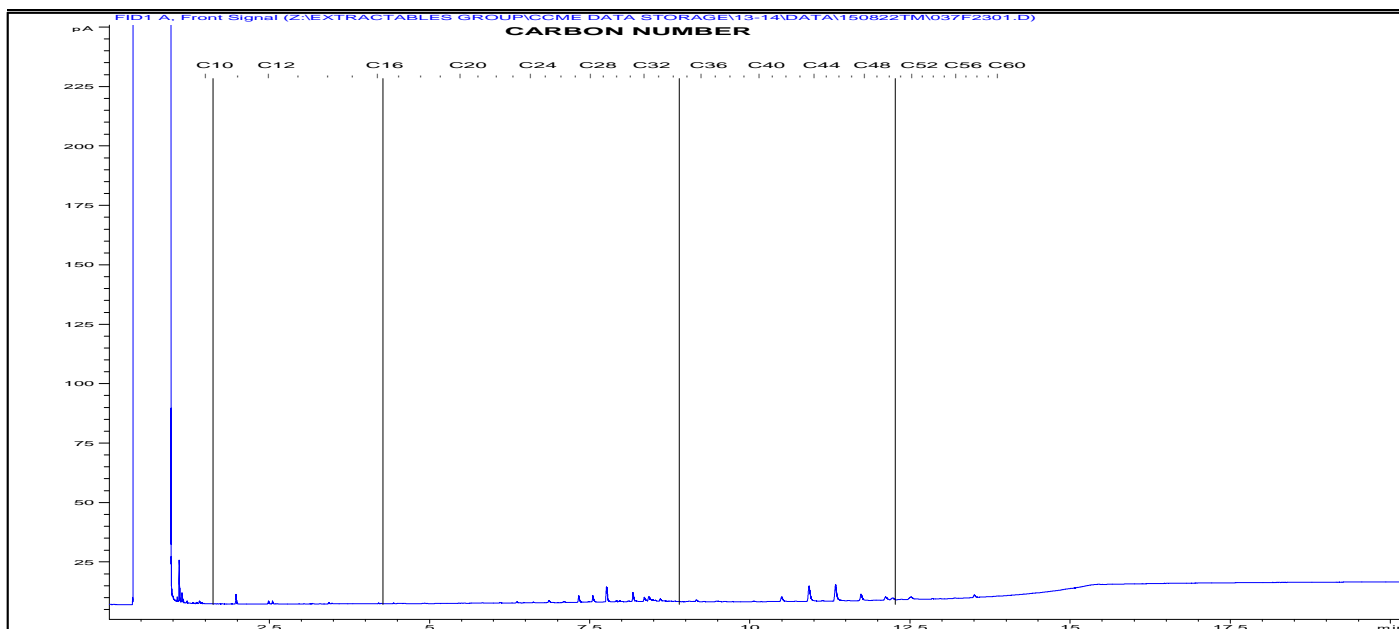
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

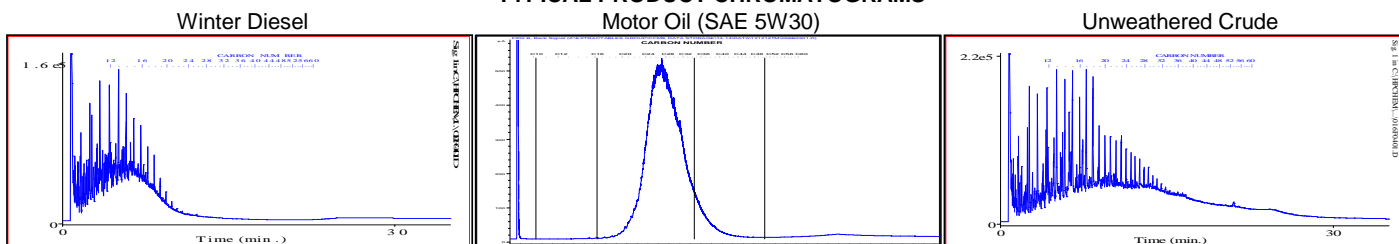
Exova Number: 1089483-27
 Sample Date: Aug 17, 2015

Sample Description: P415-14A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

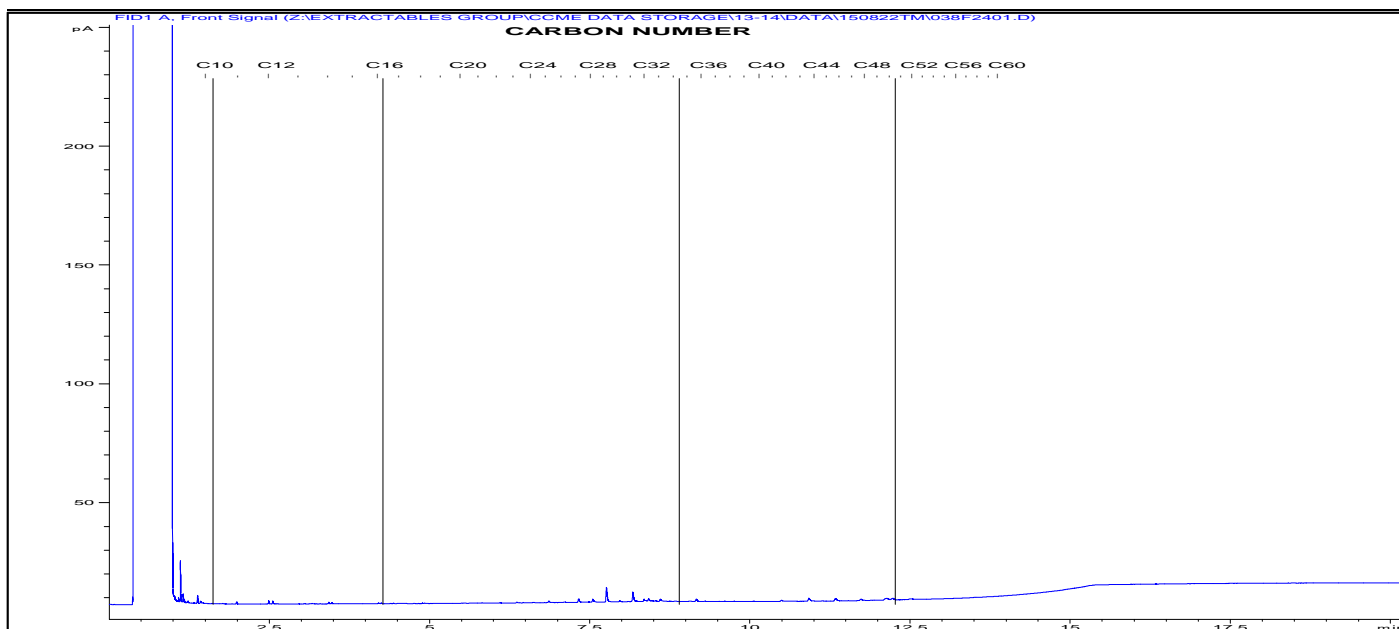
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

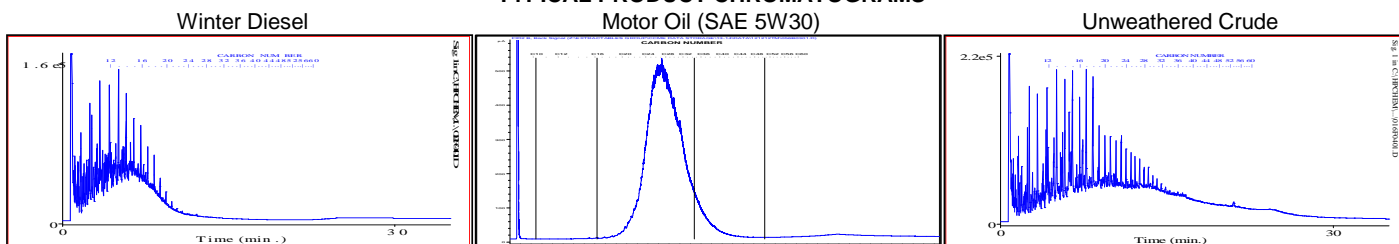
Exova Number: 1089483-28
 Sample Date: Aug 17, 2015

Sample Description: P415-14B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

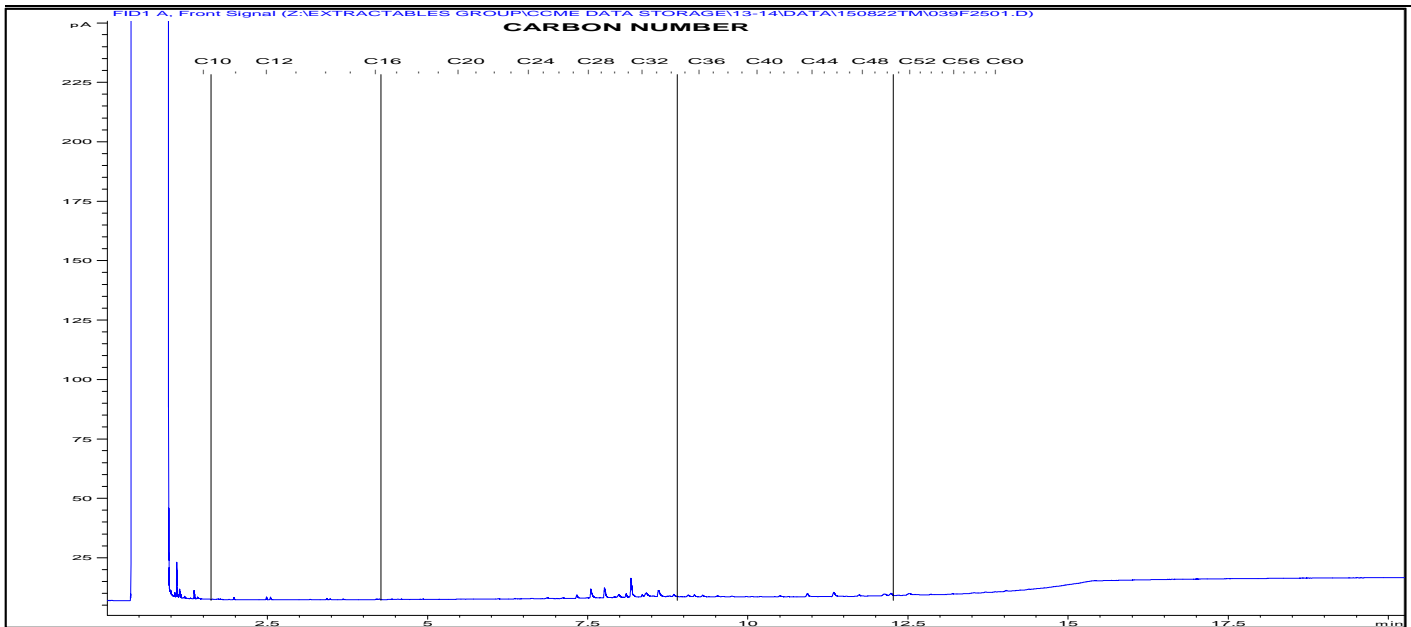
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

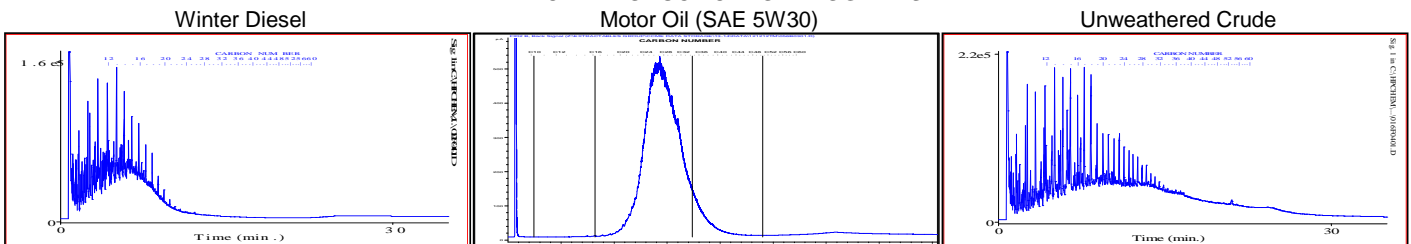
Exova Number: 1089483-29
 Sample Date: Aug 17, 2015

Sample Description: P415-15A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

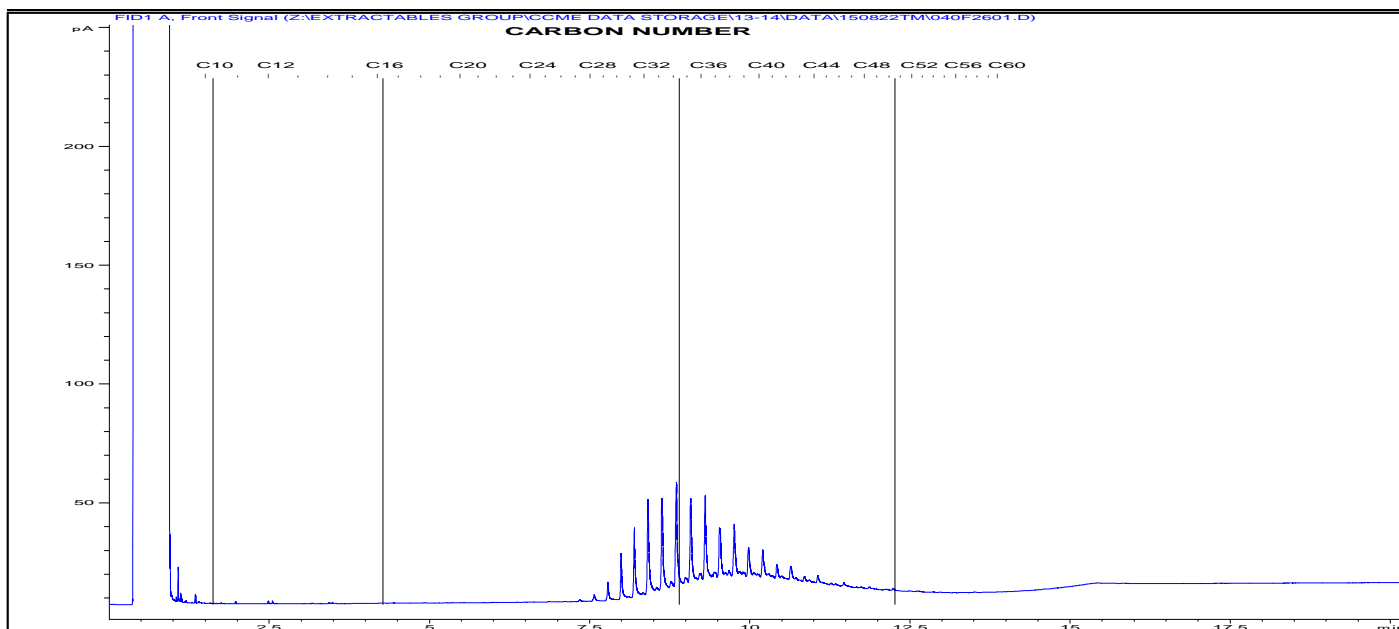
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

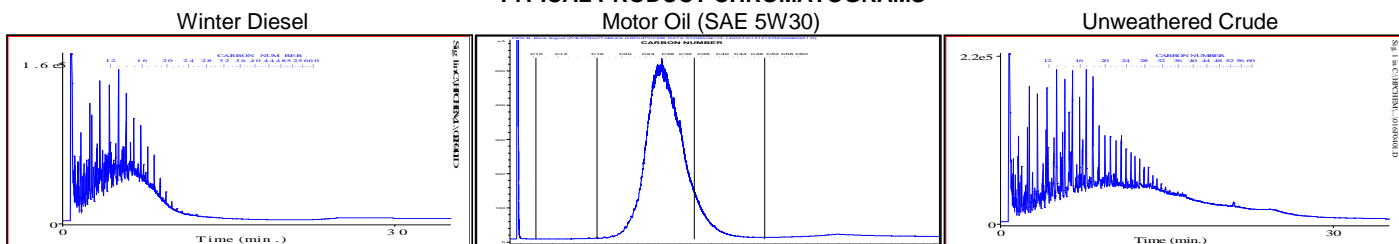
Exova Number: 1089483-30
 Sample Date: Aug 17, 2015

Sample Description: P415-15B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

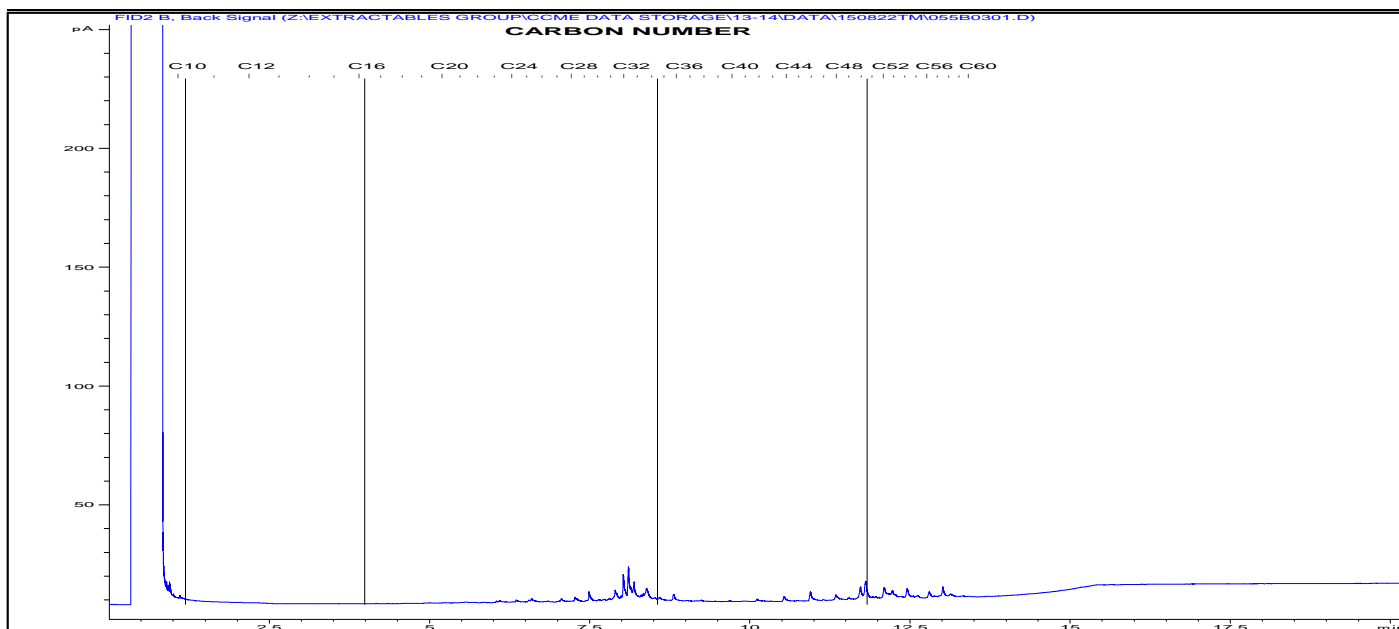
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

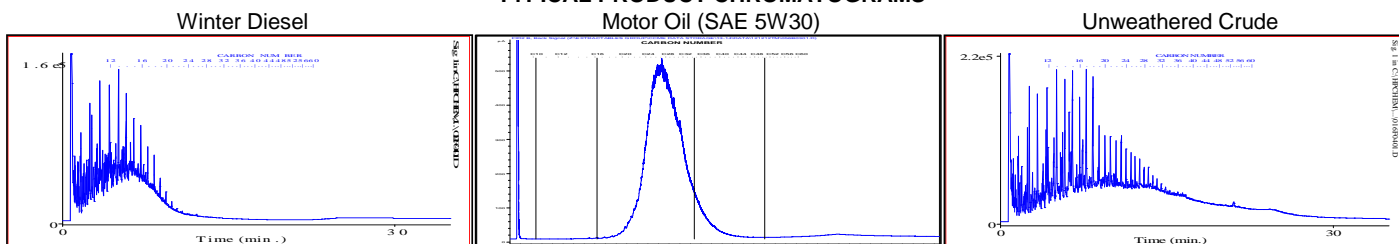
Exova Number: 1089483-31
 Sample Date: Aug 17, 2015

Sample Description: P415-16A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

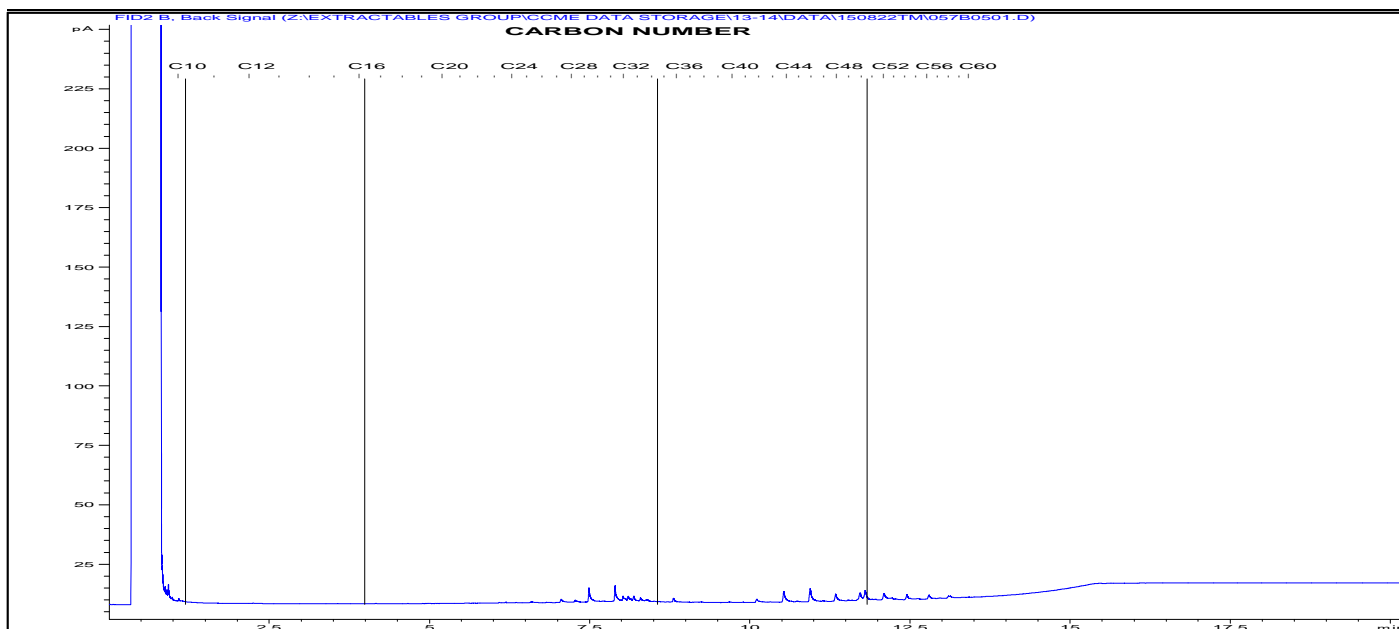
Bill To: SILA Remediation	Project ID: KITIK13	Lot ID: 1089483
Report To: SILA Remediation	Name: Pin-4	Control Number: C0008969
250-1260 Boul Lebourgneuf	Location: Byron Bay	Date Received: Aug 21, 2015
Quebec, QC, Canada	LSD:	Date Reported: Aug 25, 2015
G2K 2G2	P.O.:	Report Number: 2036230
Attn: Jean-Pierre Pelletier		
Sampled by: A. Passalis		
Company: Sila Remediation		

Exova Number: 1089483-32

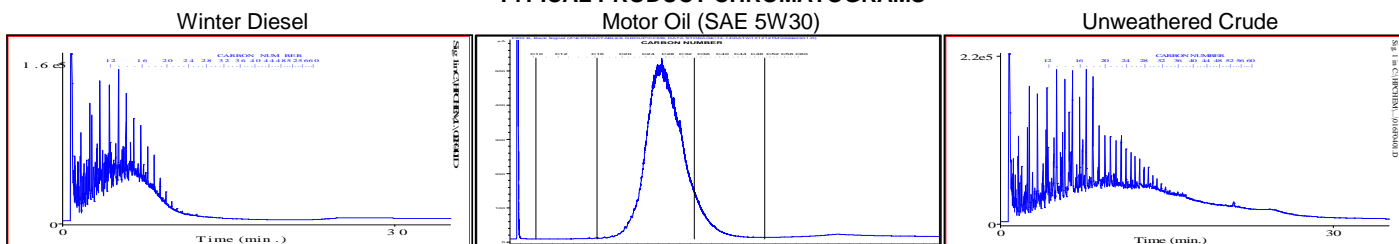
Sample Description: P415-16B

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

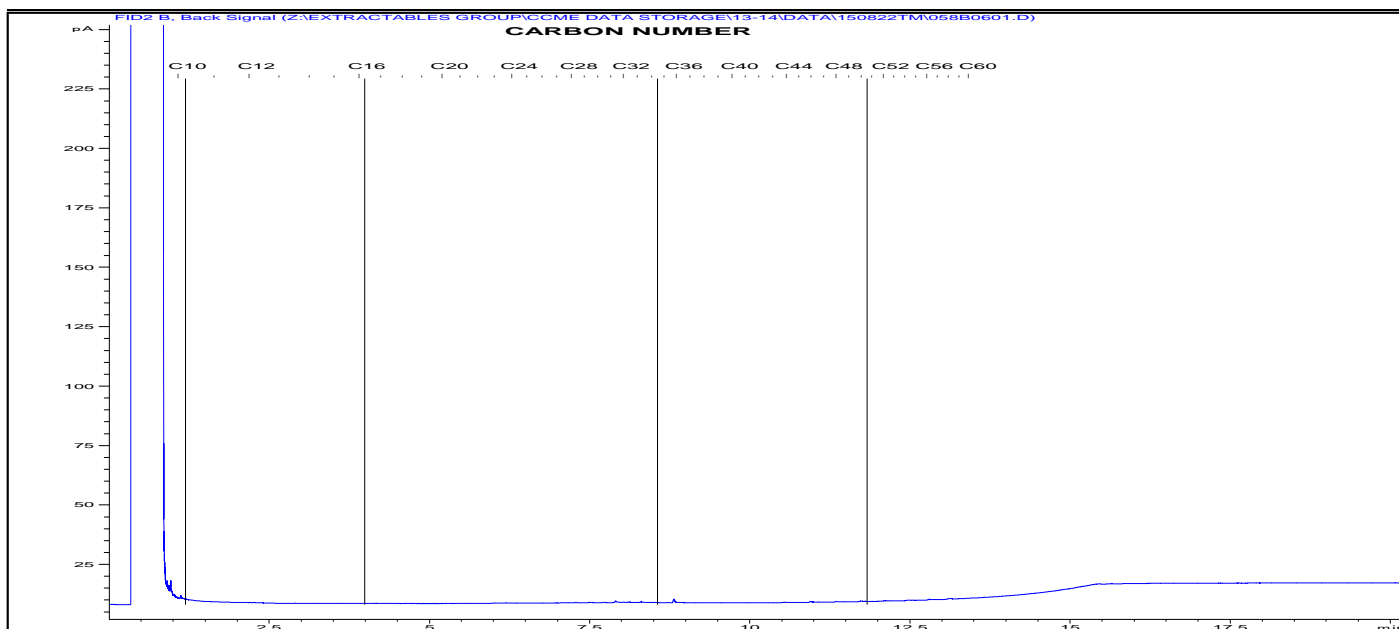
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

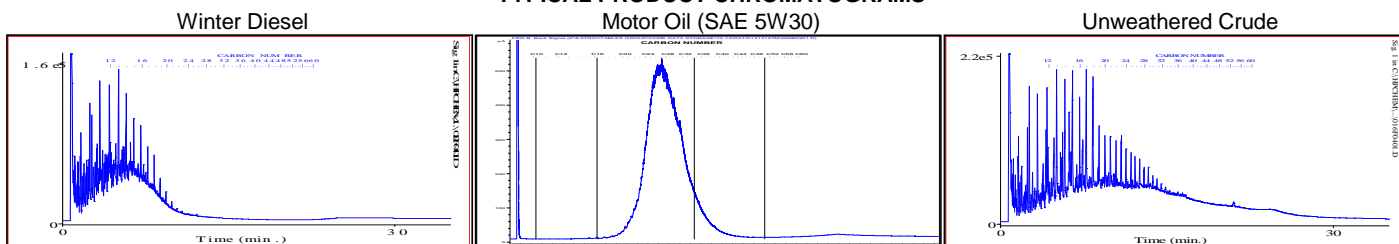
Exova Number: 1089483-33
 Sample Date: Aug 17, 2015

Sample Description: P415-17A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

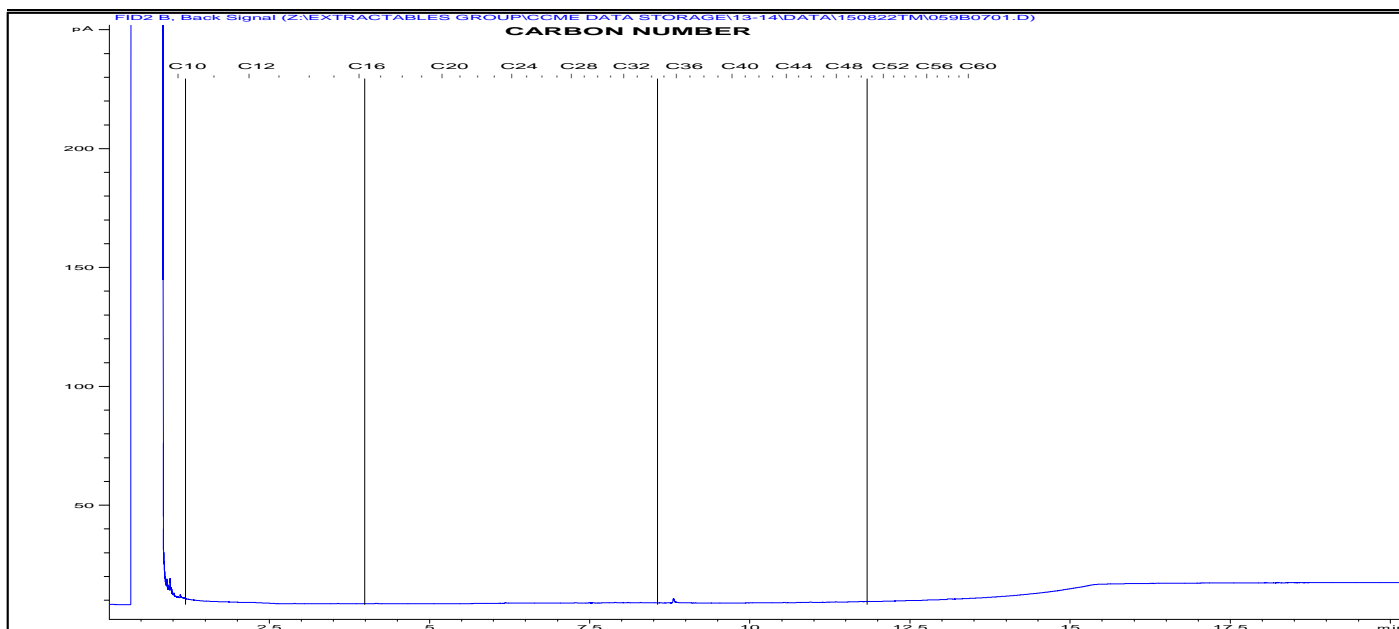
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

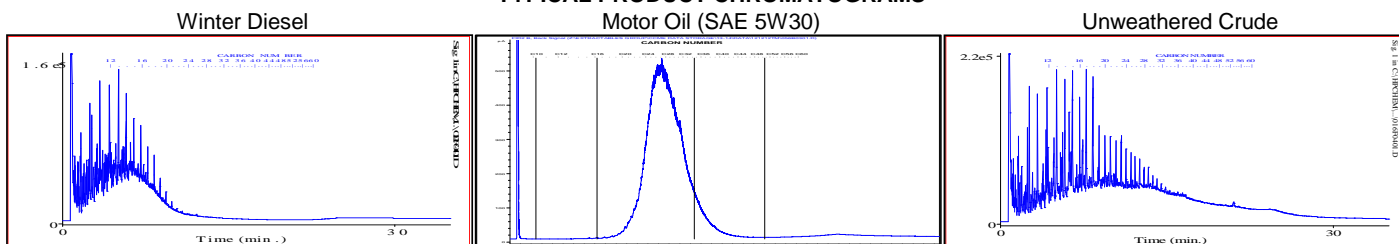
Exova Number: 1089483-34
 Sample Date: Aug 17, 2015

Sample Description: P415-17B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

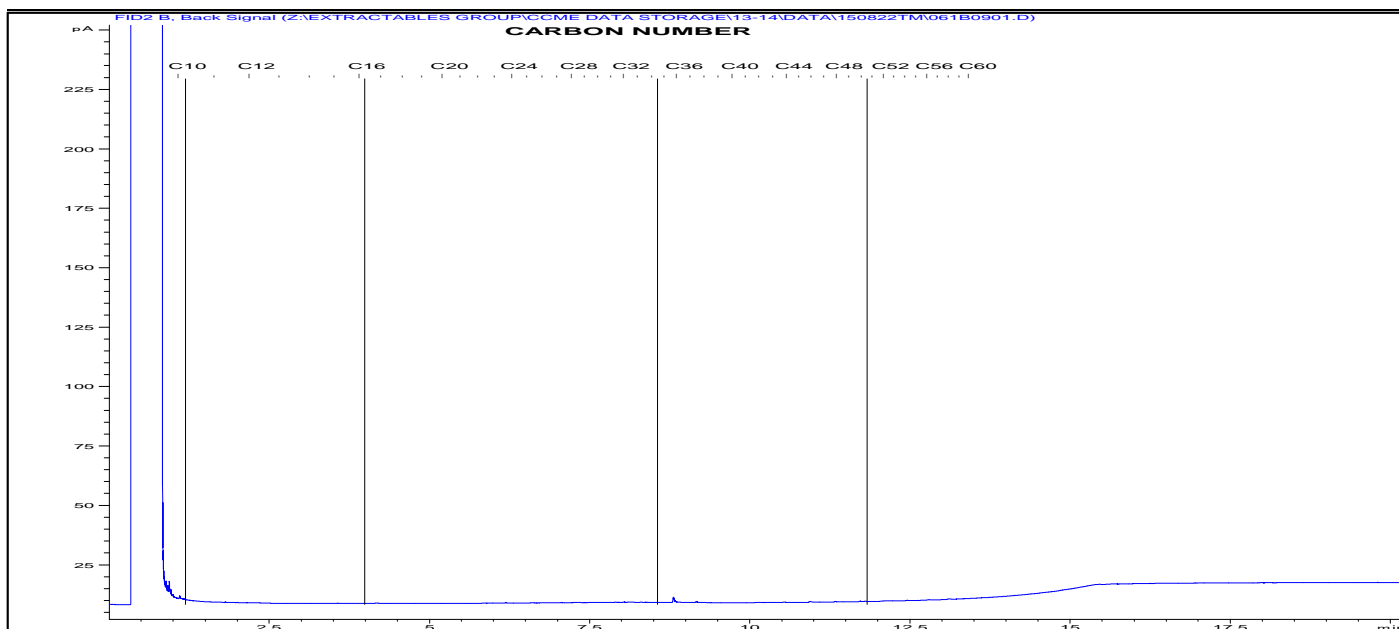
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

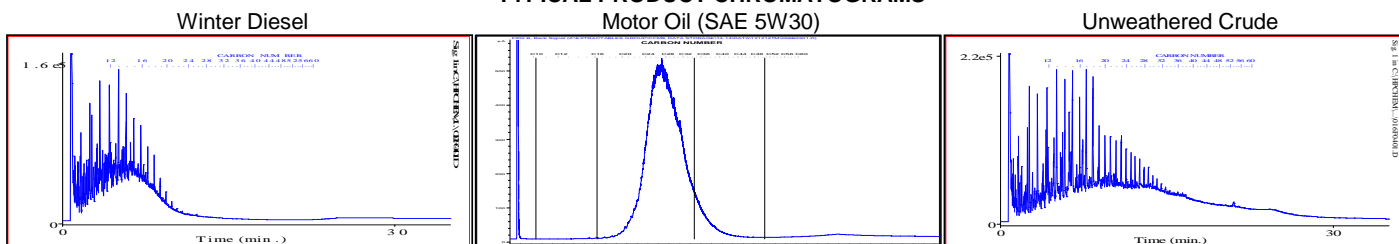
Exova Number: 1089483-35
 Sample Date: Aug 18, 2015

Sample Description: P415-18A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

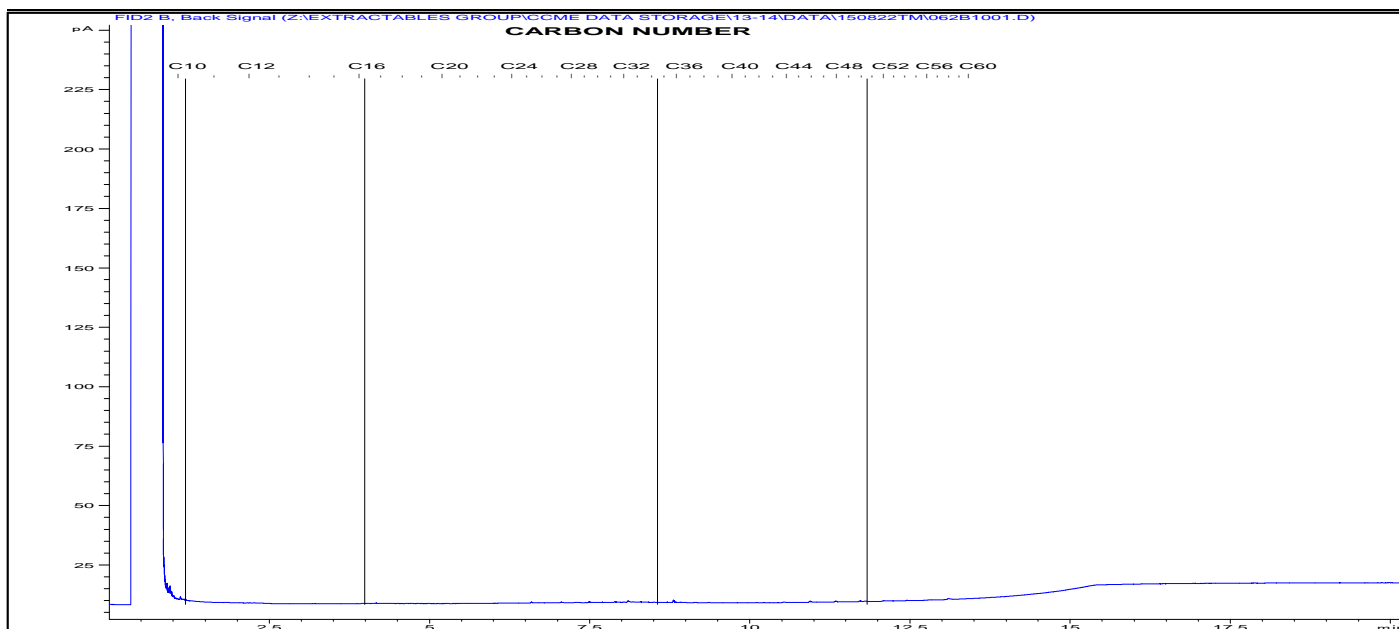
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

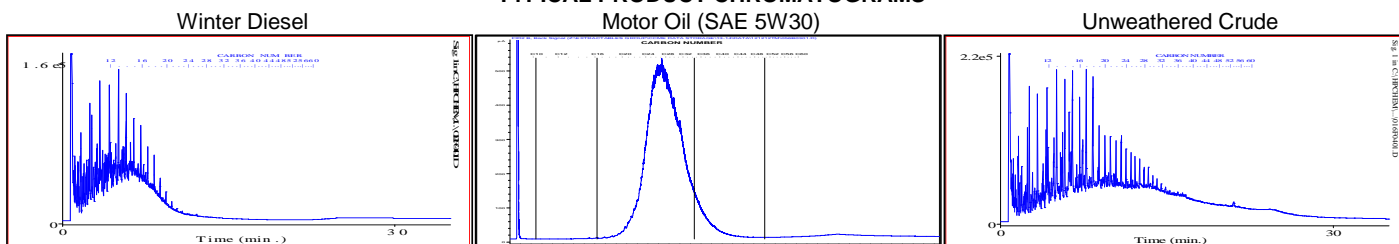
Exova Number: 1089483-36
 Sample Date: Aug 18, 2015

Sample Description: P415-18B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

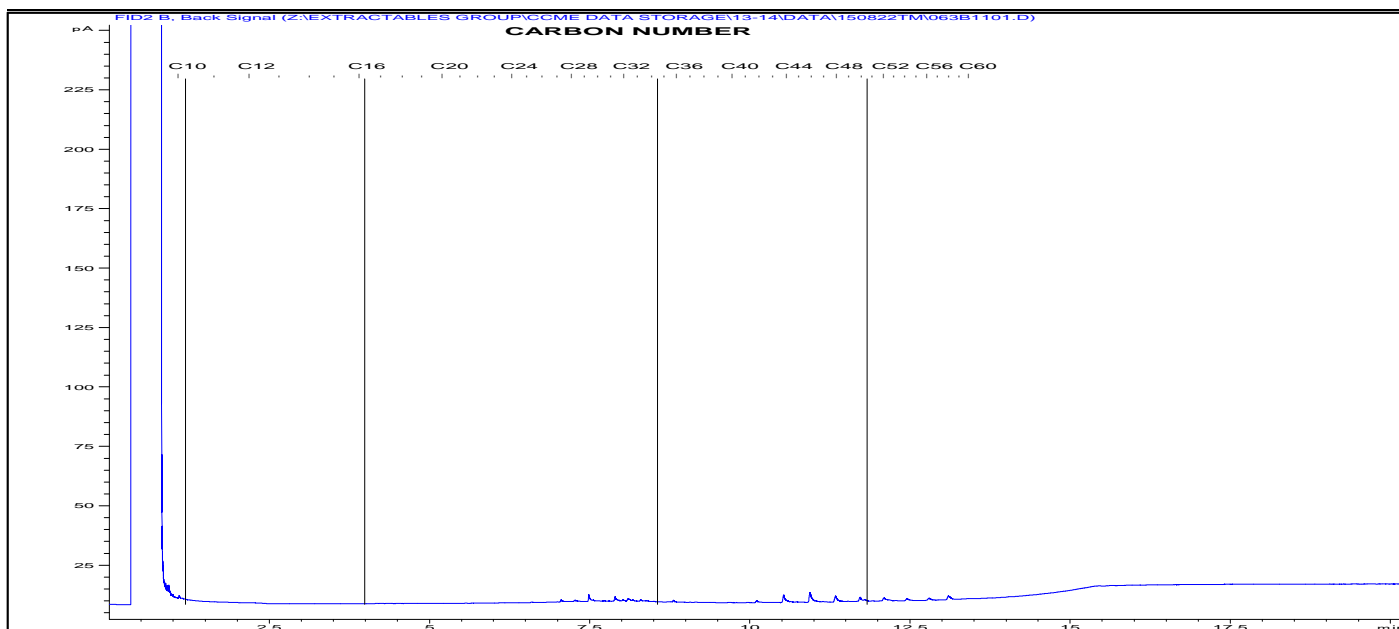
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

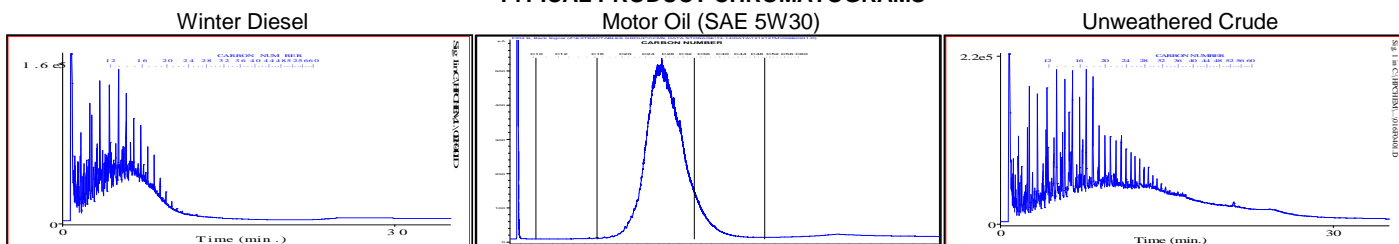
Exova Number: 1089483-37
 Sample Date: Aug 18, 2015

Sample Description: P415-19A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

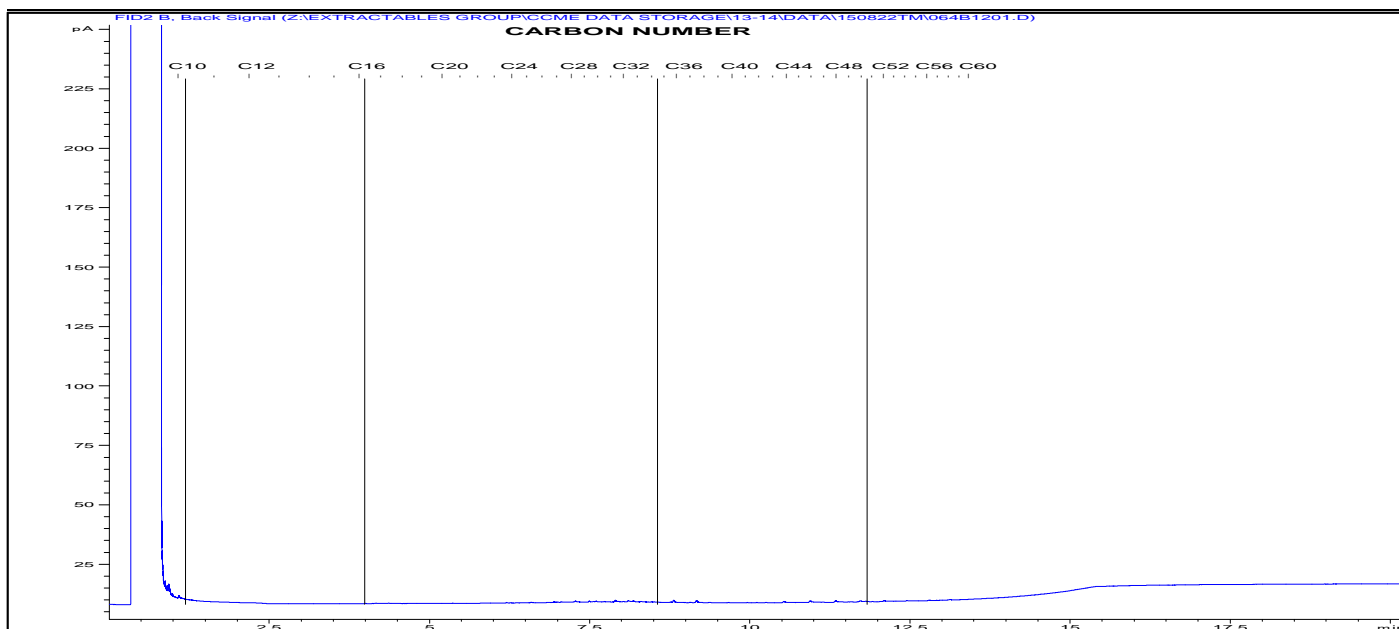
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

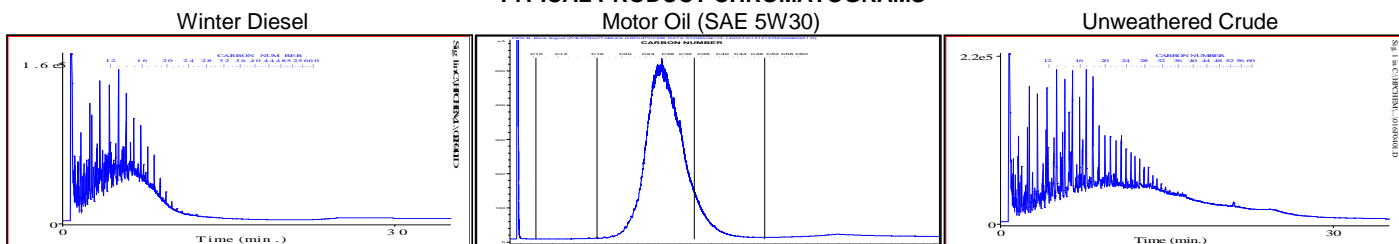
Exova Number: 1089483-38
 Sample Date: Aug 18, 2015

Sample Description: P415-19B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

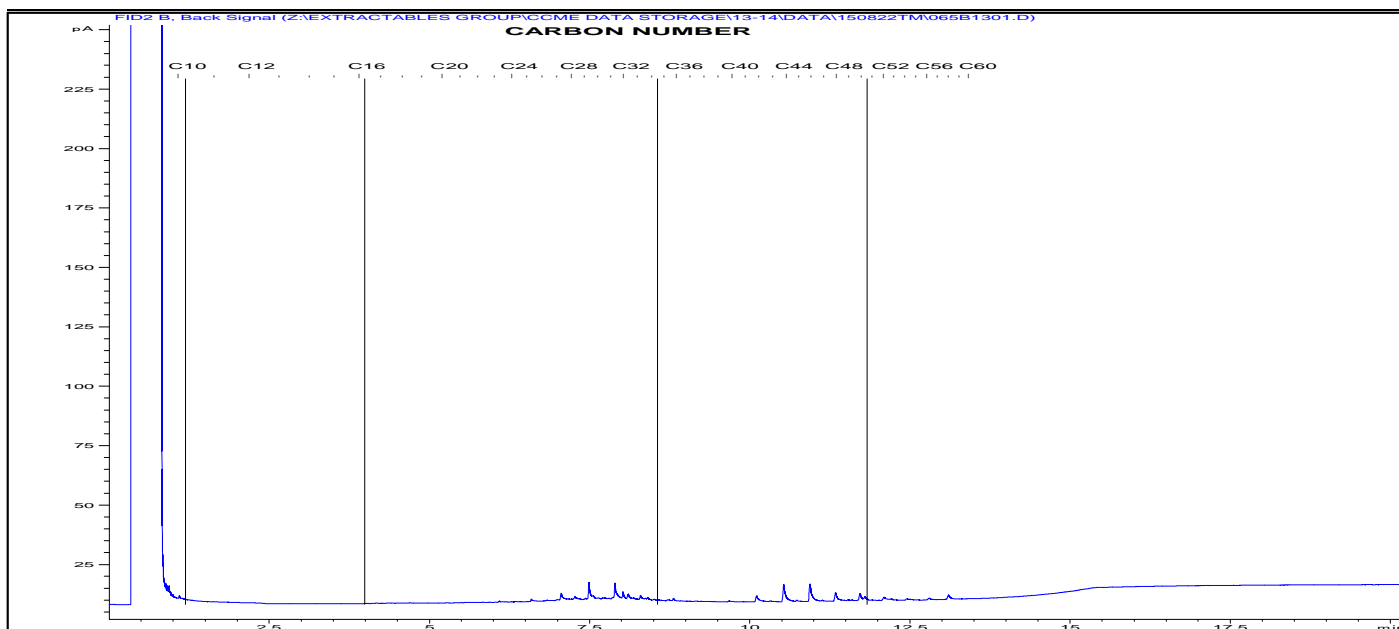
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

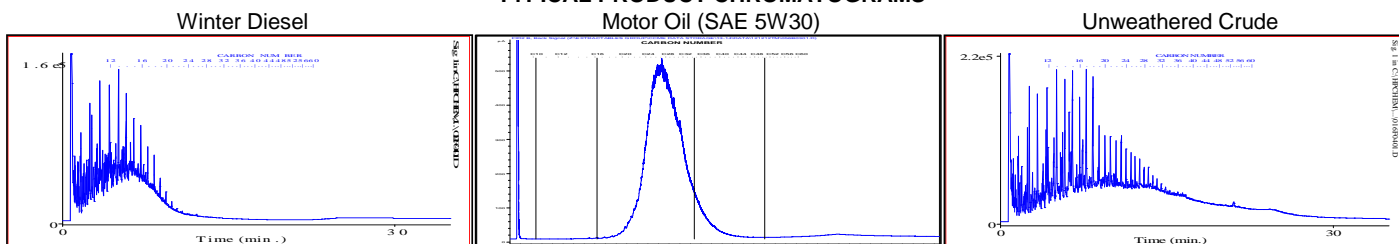
Exova Number: 1089483-39
 Sample Date: Aug 18, 2015

Sample Description: P415-20A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

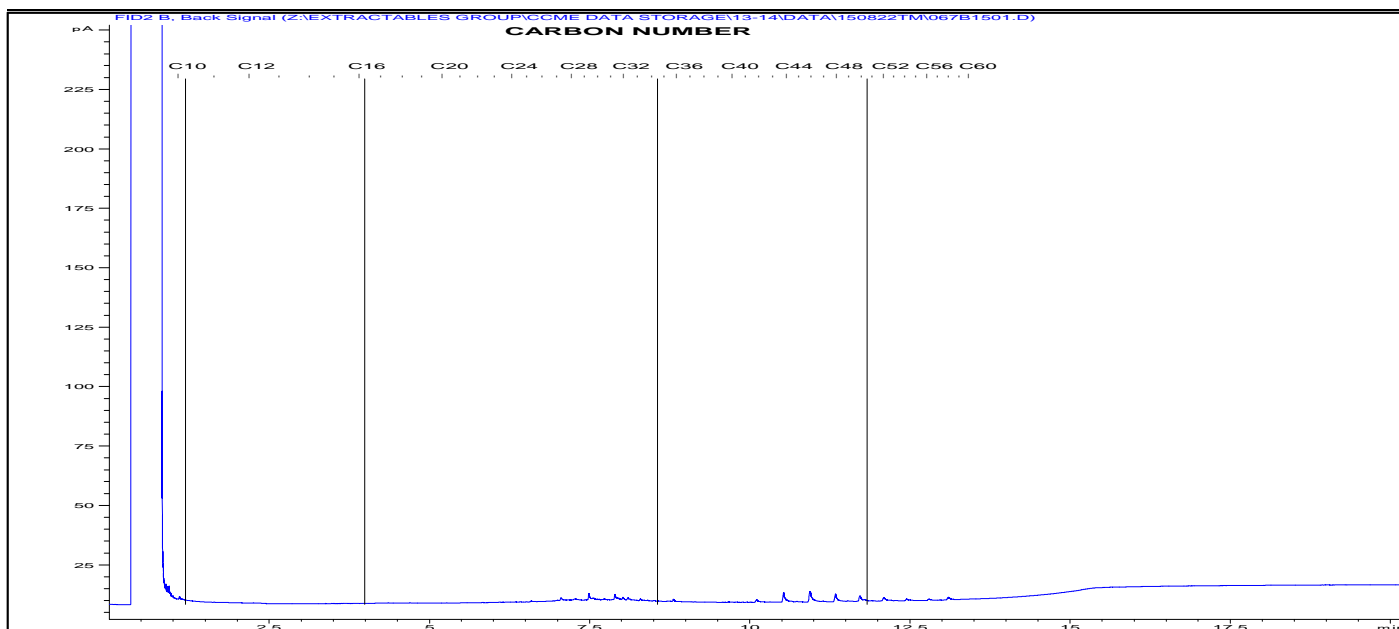
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

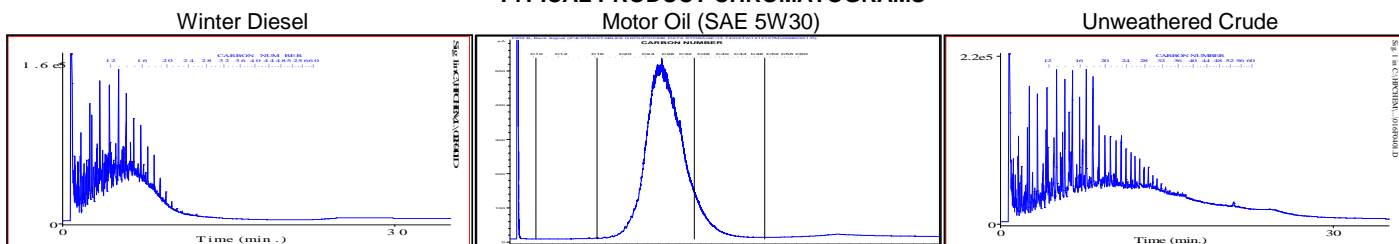
Exova Number: 1089483-40
 Sample Date: Aug 18, 2015

Sample Description: P415-20B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

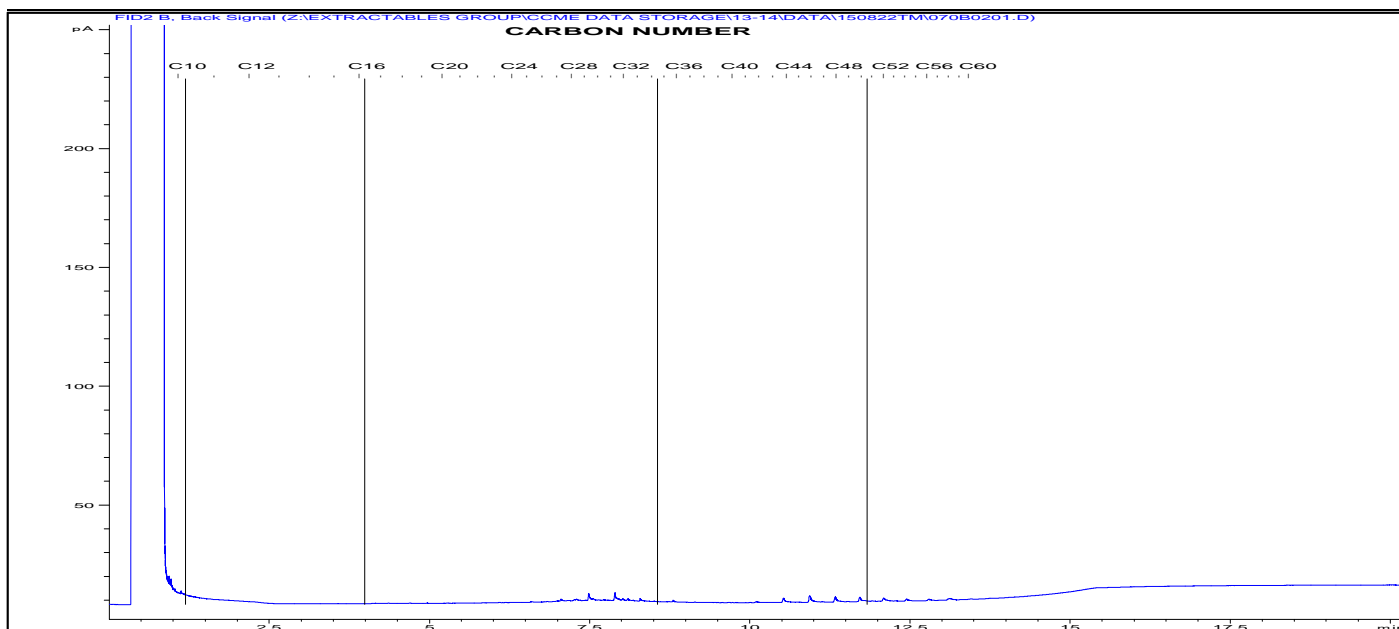
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

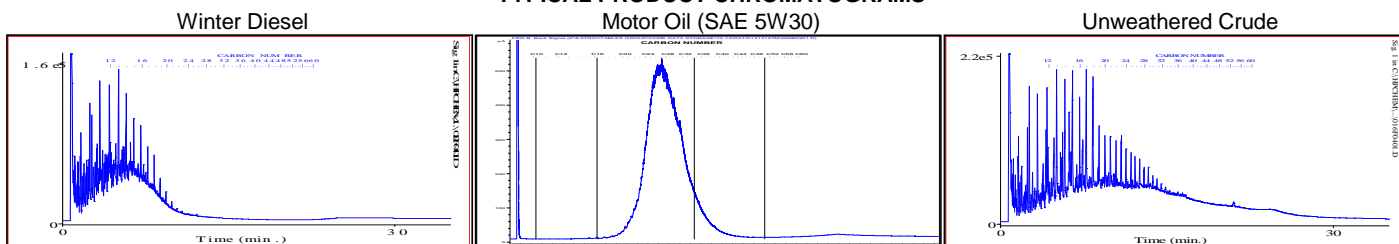
Exova Number: 1089483-41
 Sample Date: Aug 18, 2015

Sample Description: P415-21A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

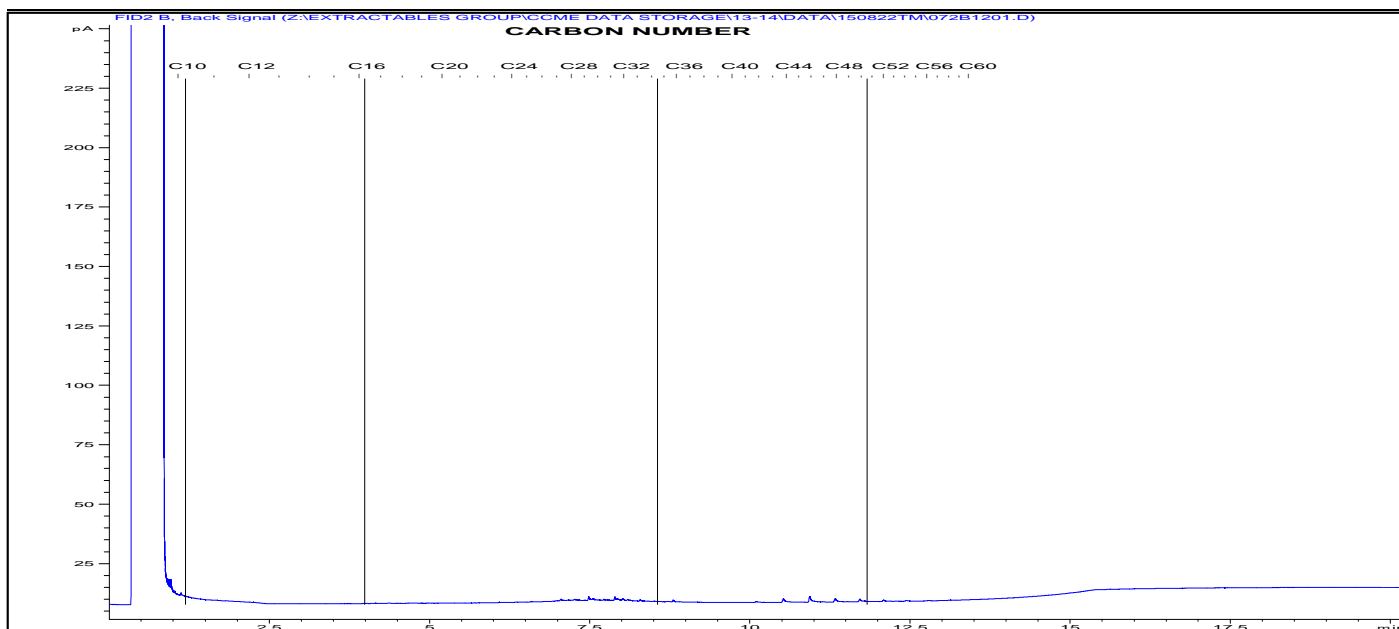
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

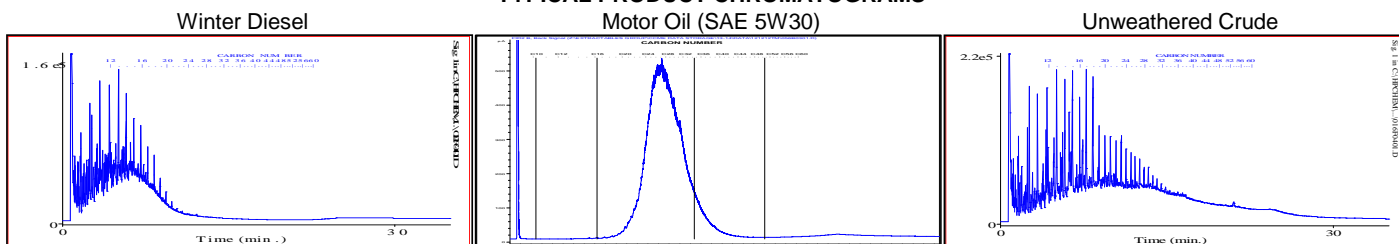
Exova Number: 1089483-42
 Sample Date: Aug 18, 2015

Sample Description: P415-21B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

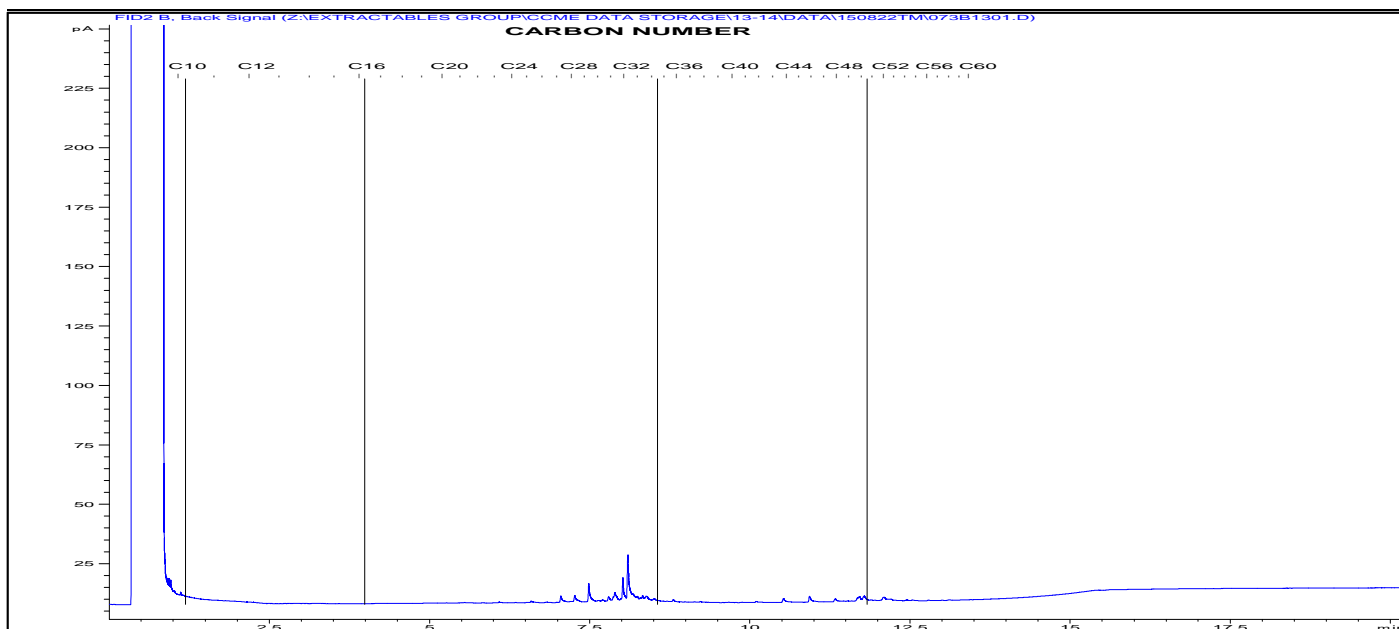
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

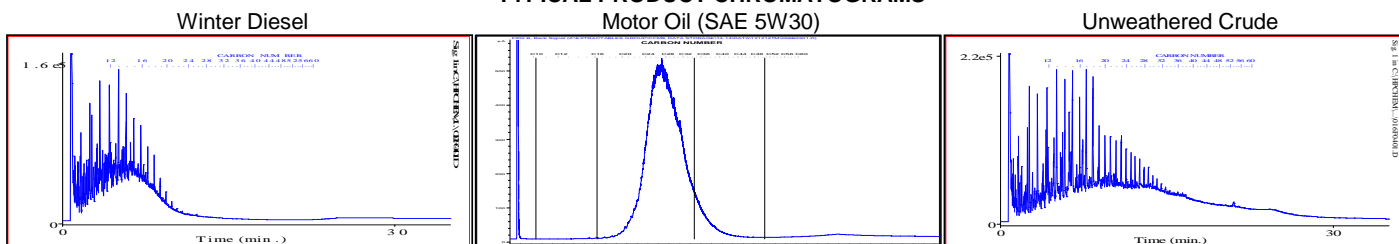
Exova Number: 1089483-43
 Sample Date: Aug 18, 2015

Sample Description: P415-22A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

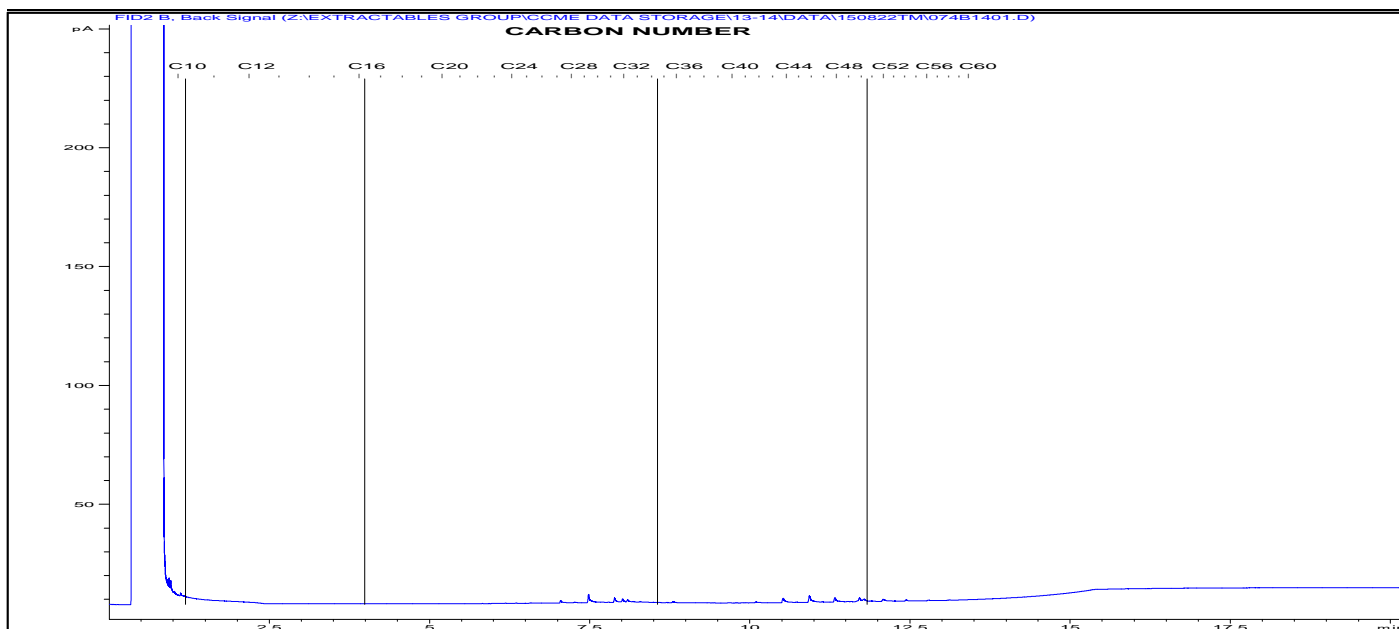
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

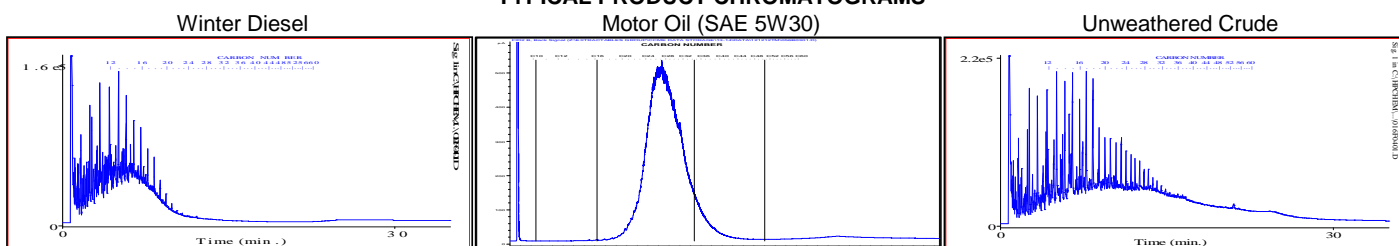
Exova Number: 1089483-44
 Sample Date: Aug 18, 2015

Sample Description: P415-22B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

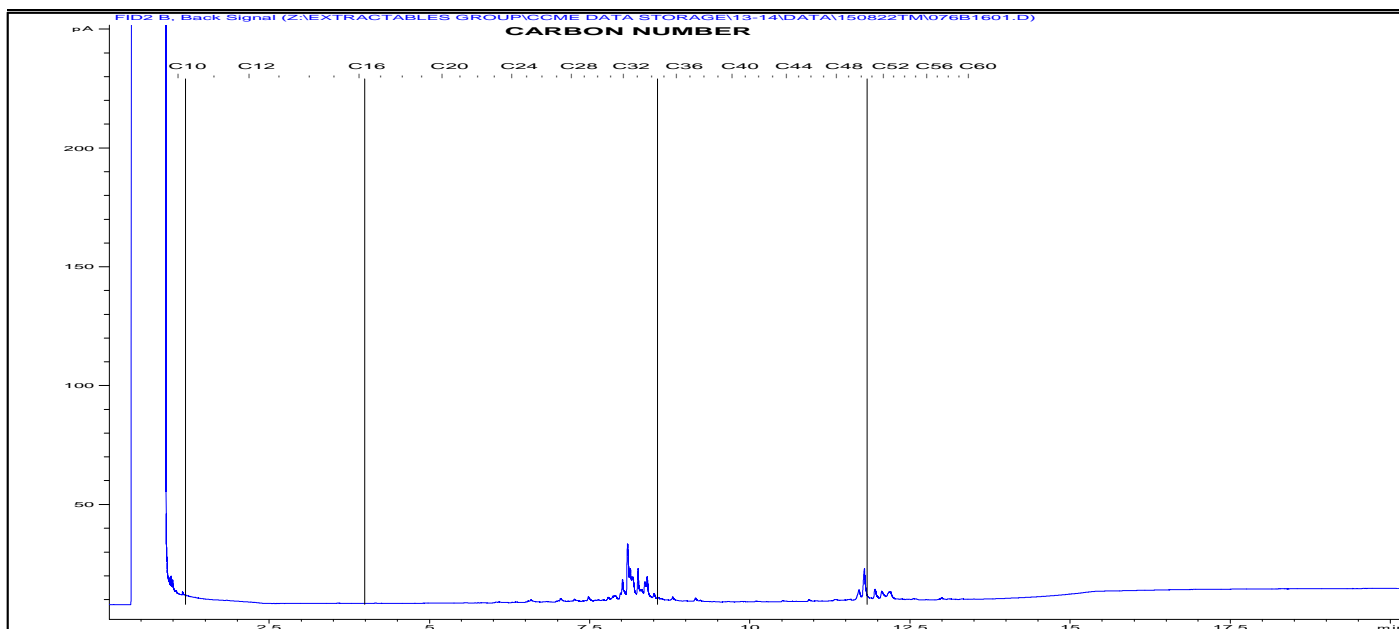
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

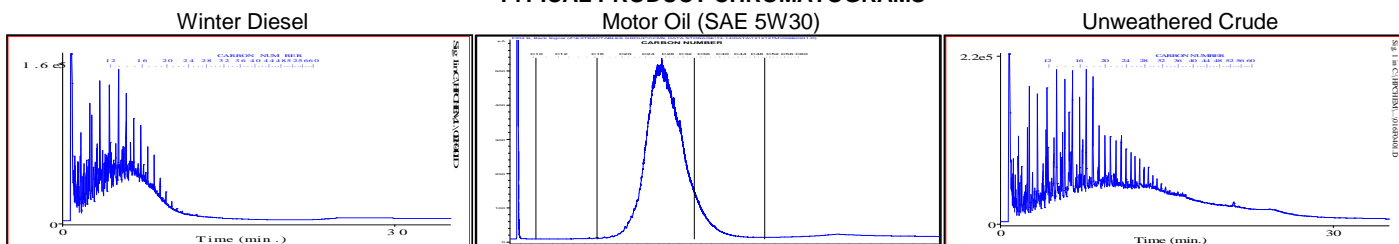
Exova Number: 1089483-45
 Sample Date: Aug 18, 2015

Sample Description: P415-23A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

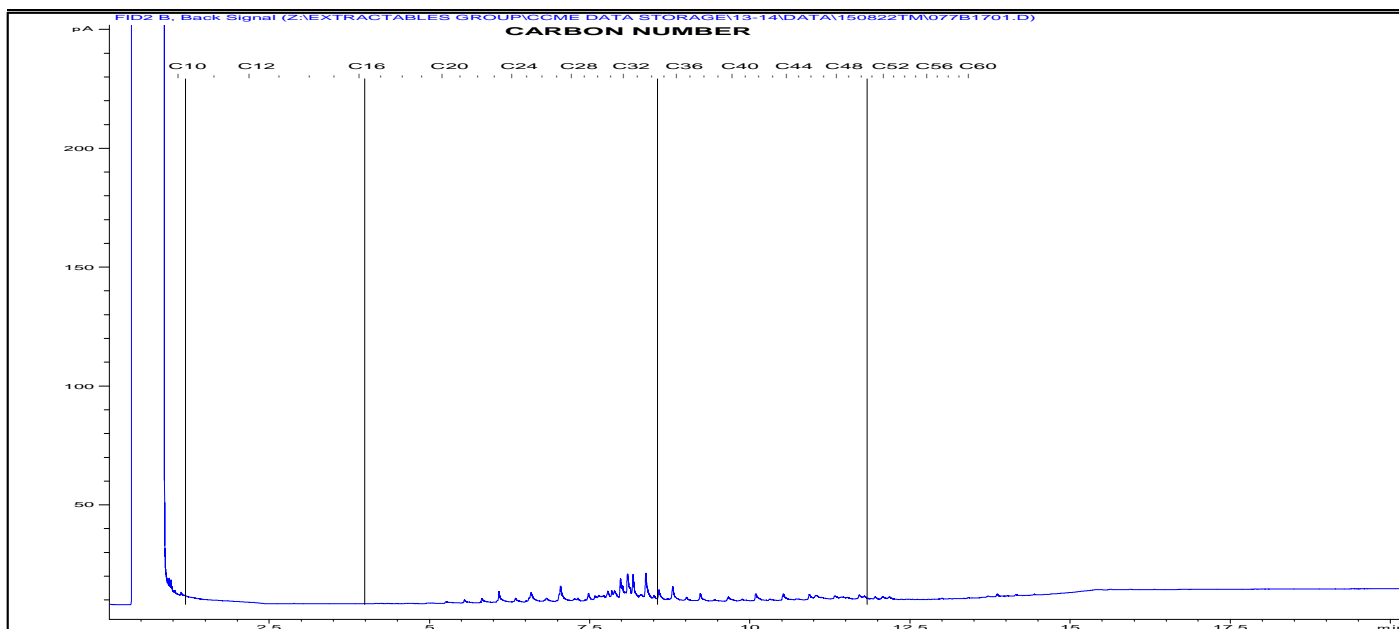
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

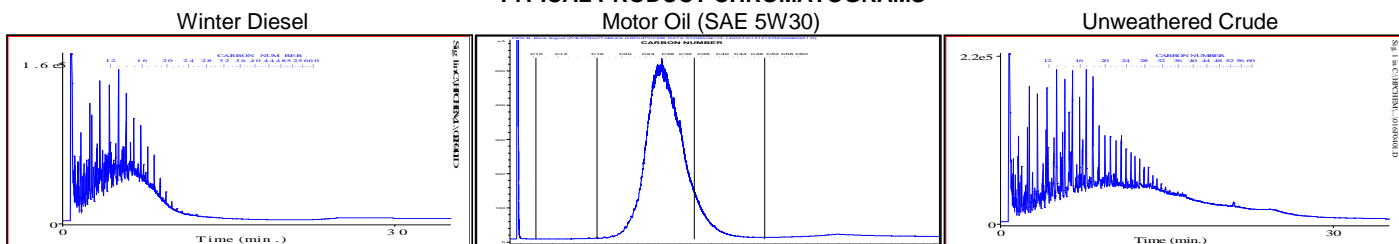
Exova Number: 1089483-46
 Sample Date: Aug 18, 2015

Sample Description: P415-23B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

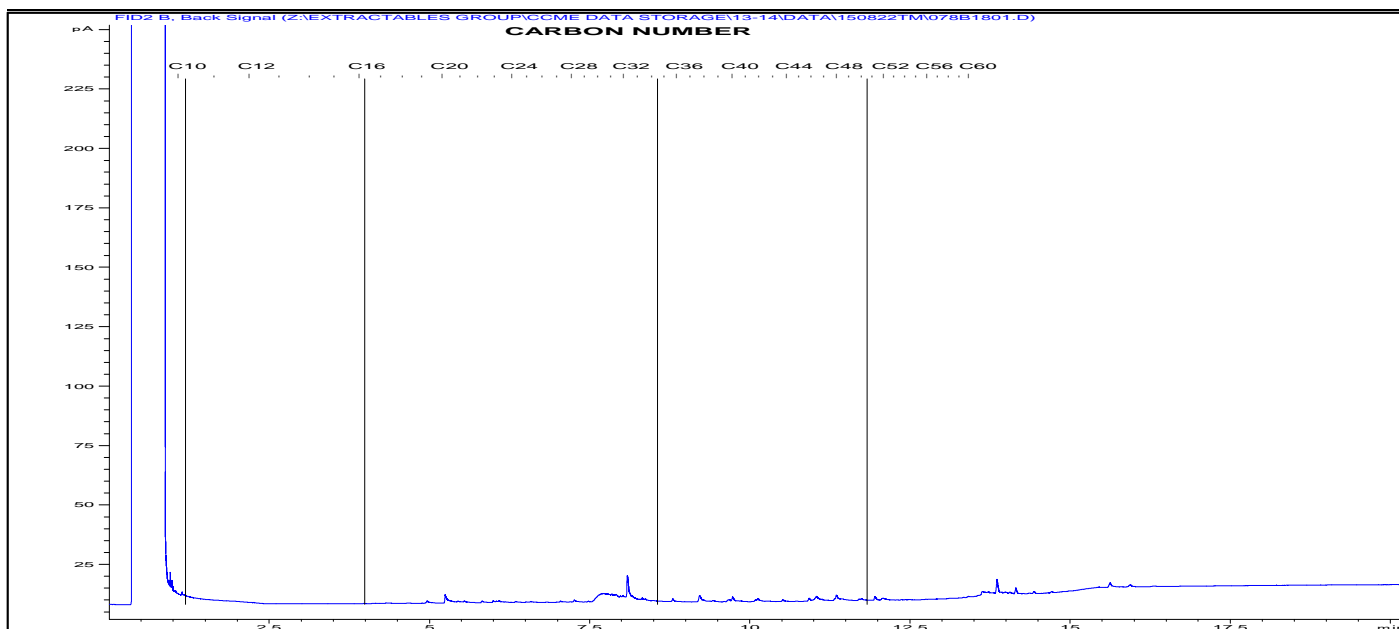
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

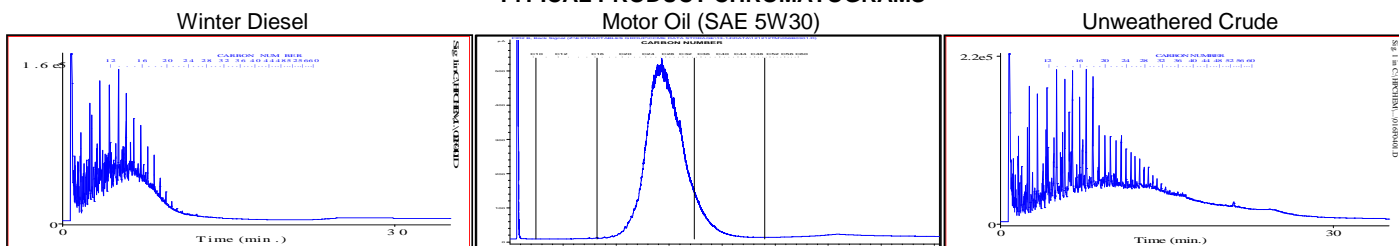
Exova Number: 1089483-47
 Sample Date: Aug 18, 2015

Sample Description: P415-24A

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

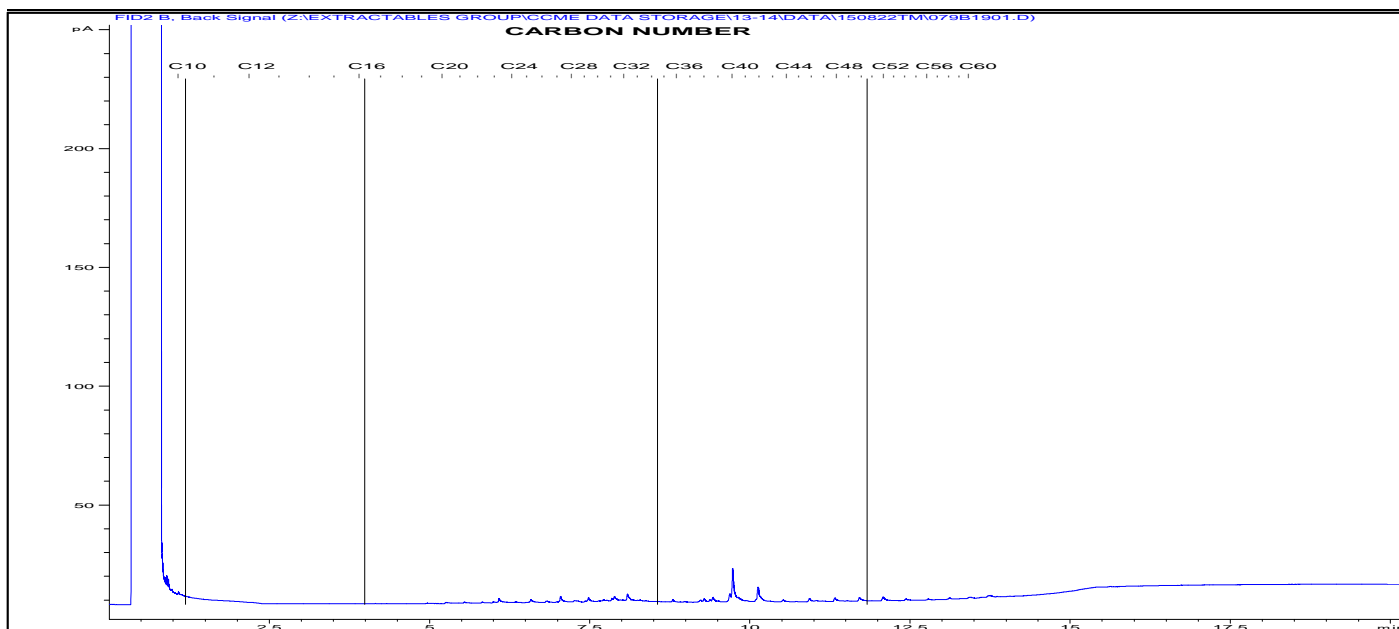
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

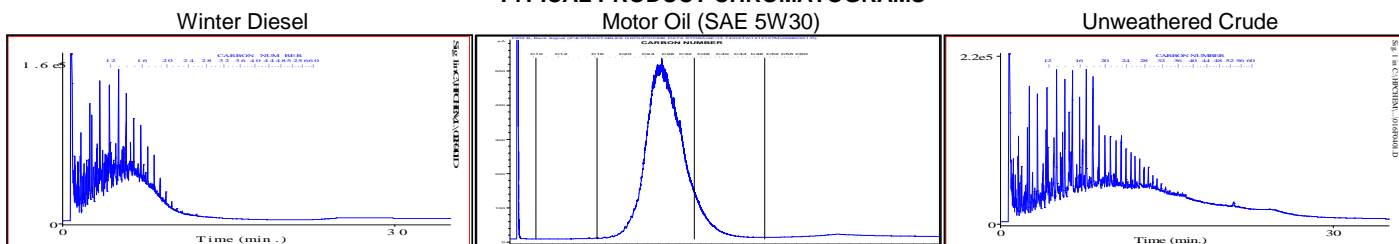
Exova Number: 1089483-48
 Sample Date: Aug 18, 2015

Sample Description: P415-24B

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

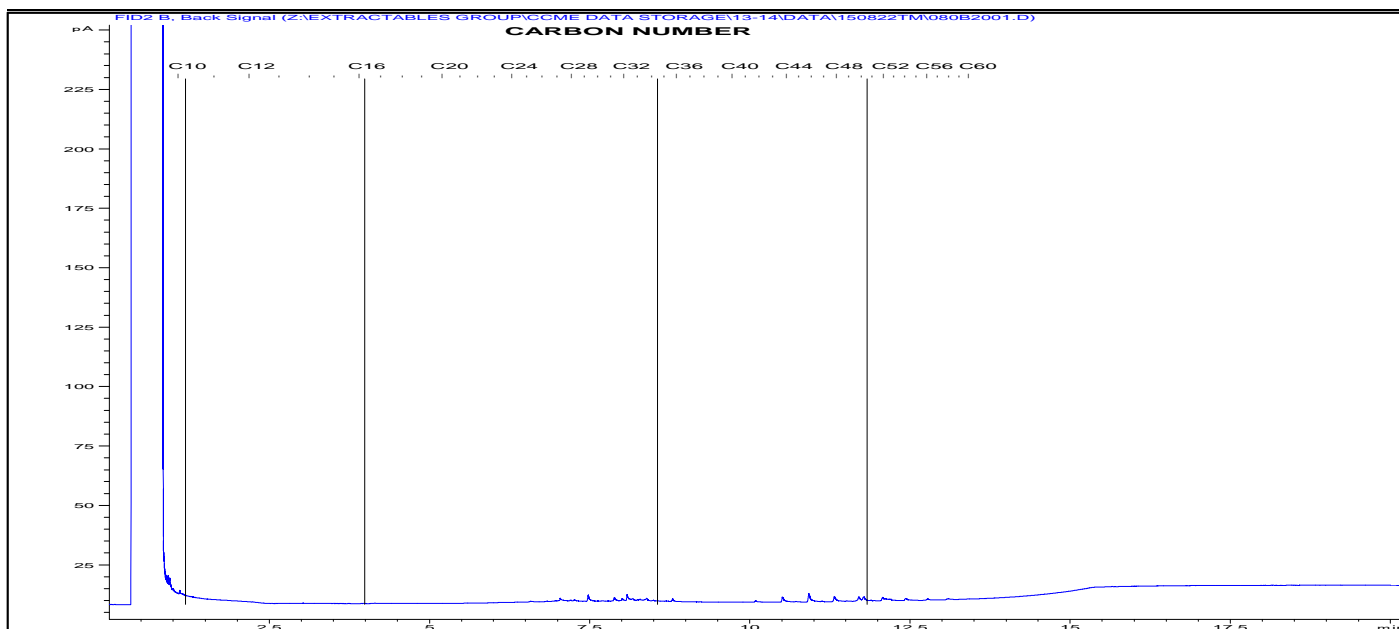
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

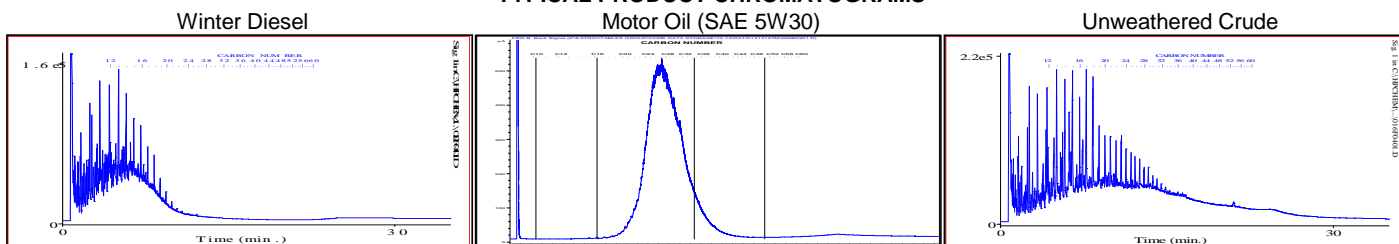
Exova Number: 1089483-49
 Sample Date: Aug 17, 2015

Sample Description: P415-1WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

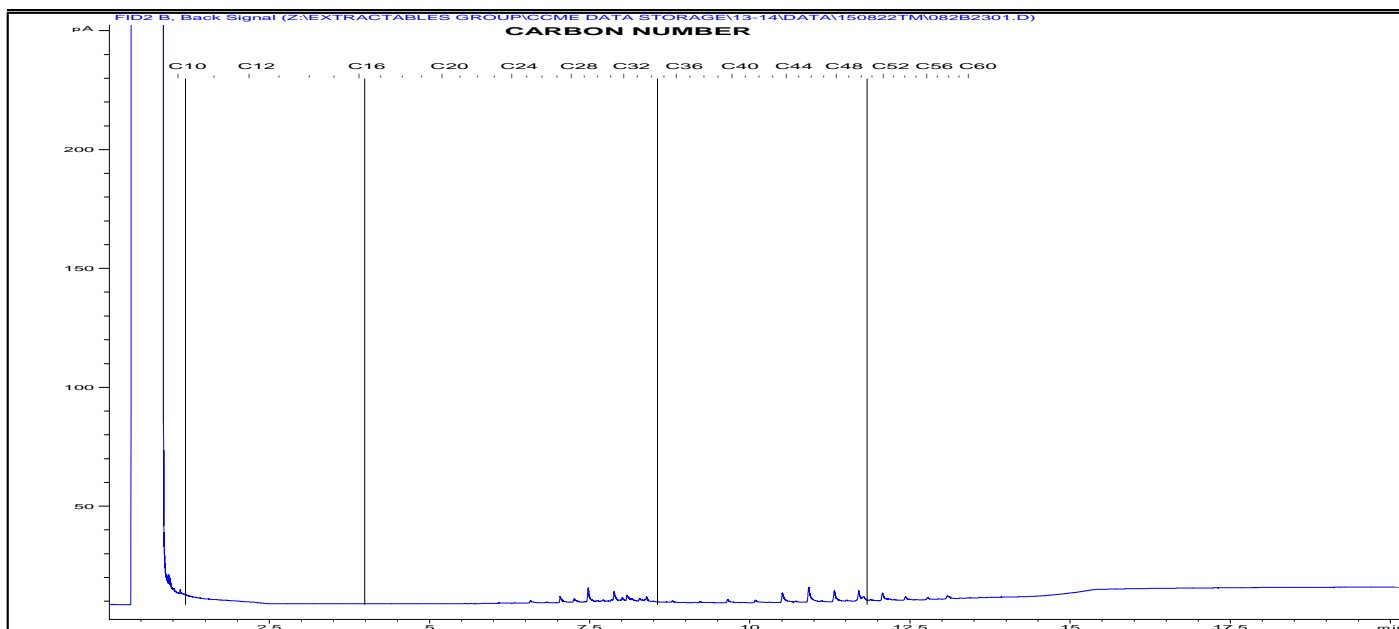
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

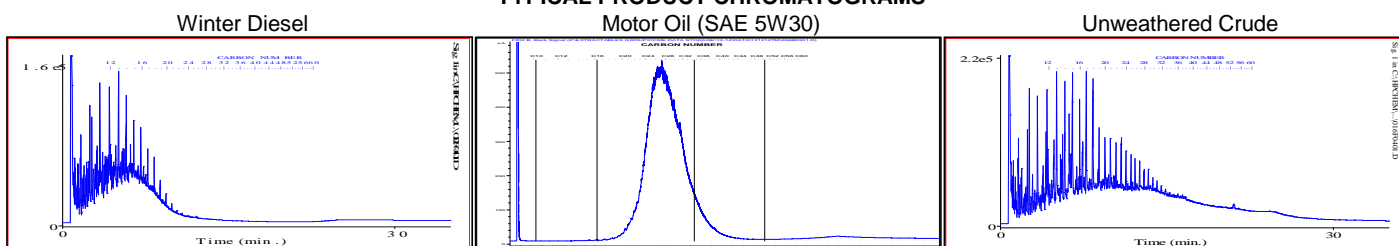
Exova Number: 1089483-50
 Sample Date: Aug 17, 2015

Sample Description: P415-1WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

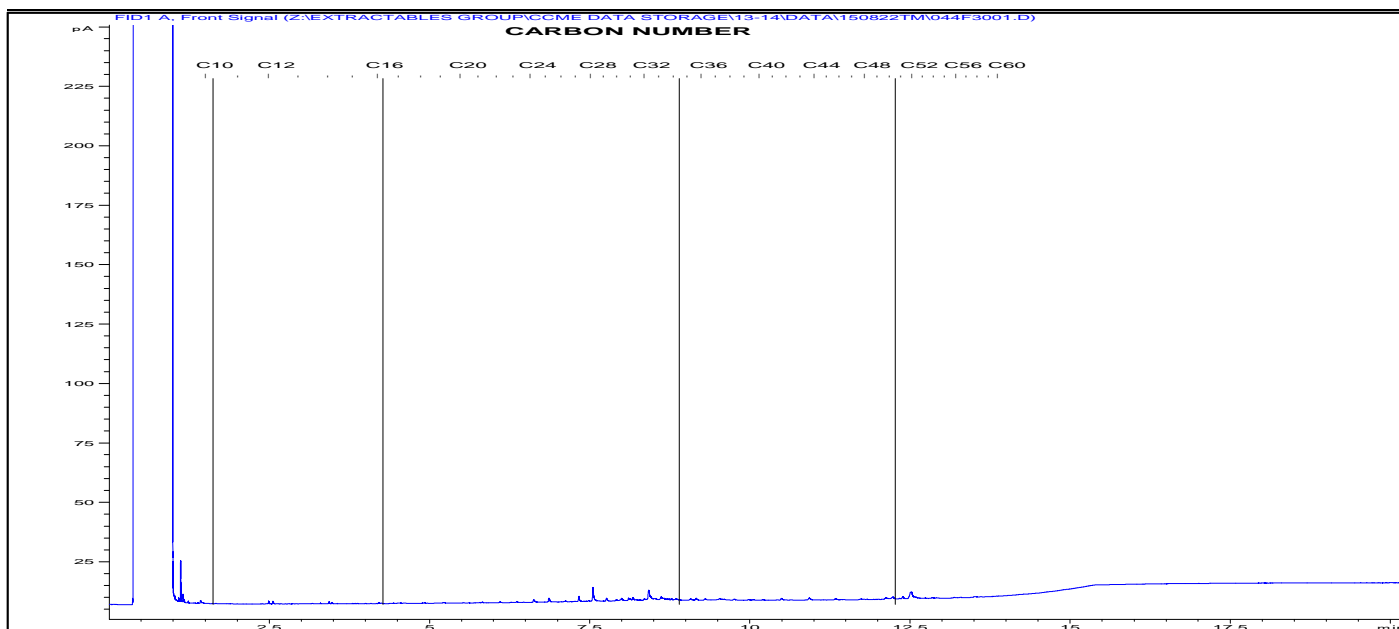
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

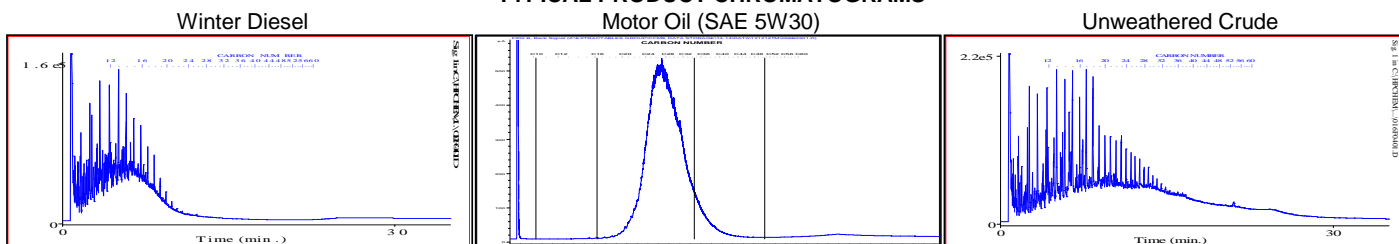
Exova Number: 1089483-51
 Sample Date: Aug 17, 2015

Sample Description: P415-2WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

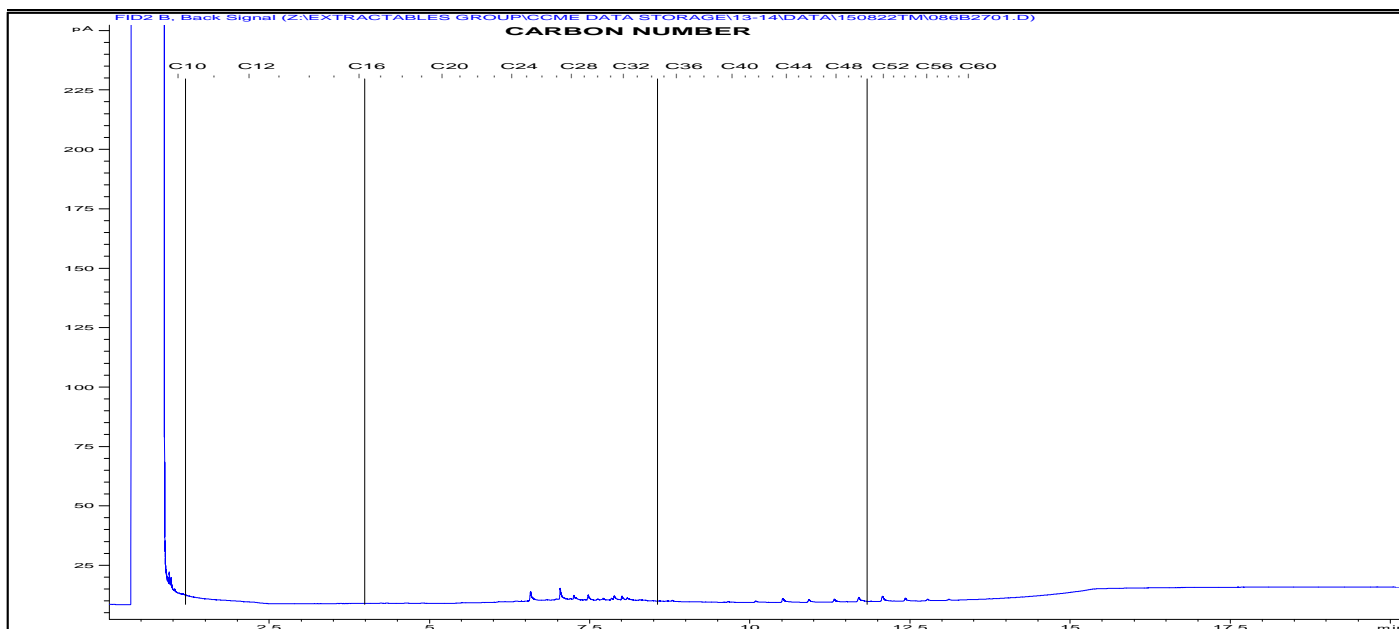
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

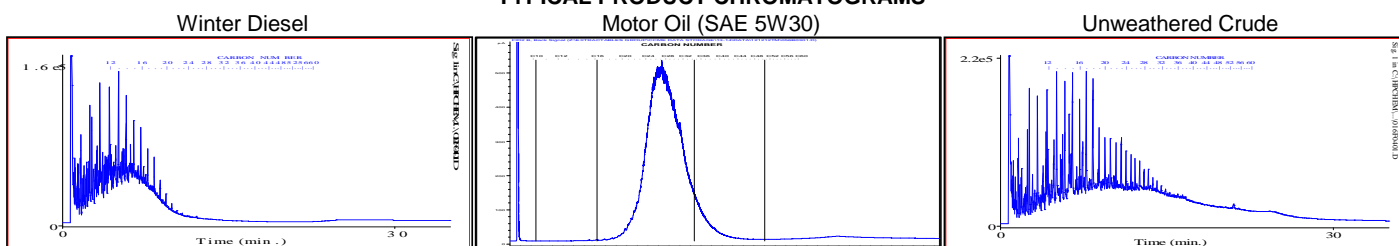
Exova Number: 1089483-52
 Sample Date: Aug 17, 2015

Sample Description: P415-2WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

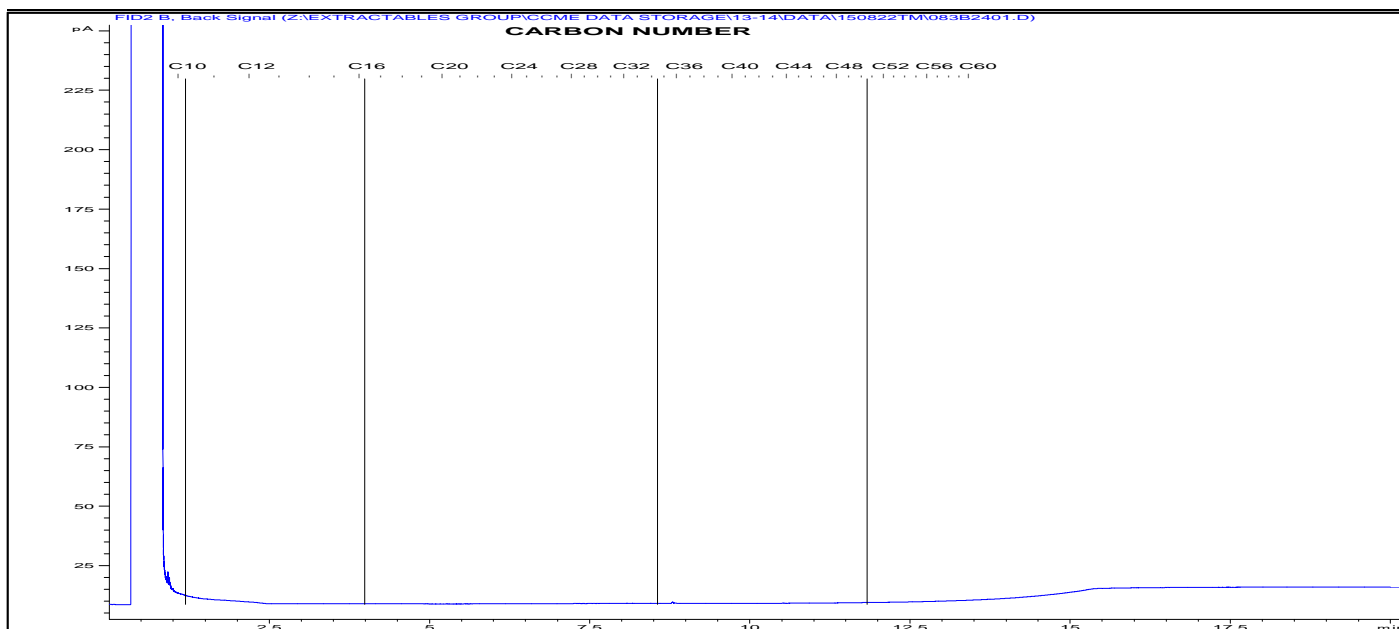
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

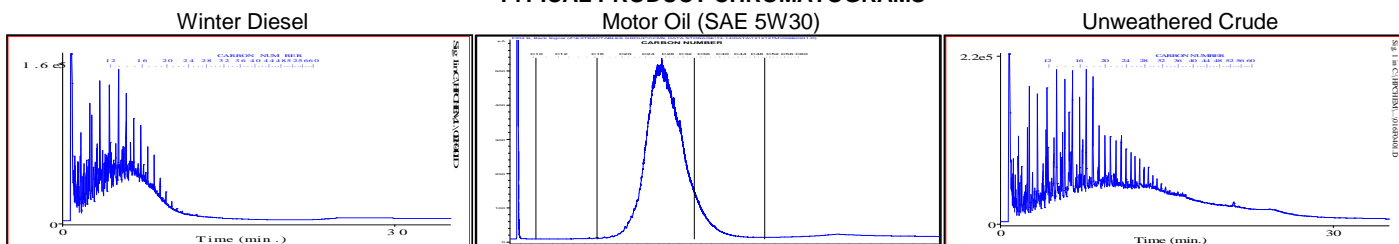
Exova Number: 1089483-53
 Sample Date: Aug 17, 2015

Sample Description: P415-3WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

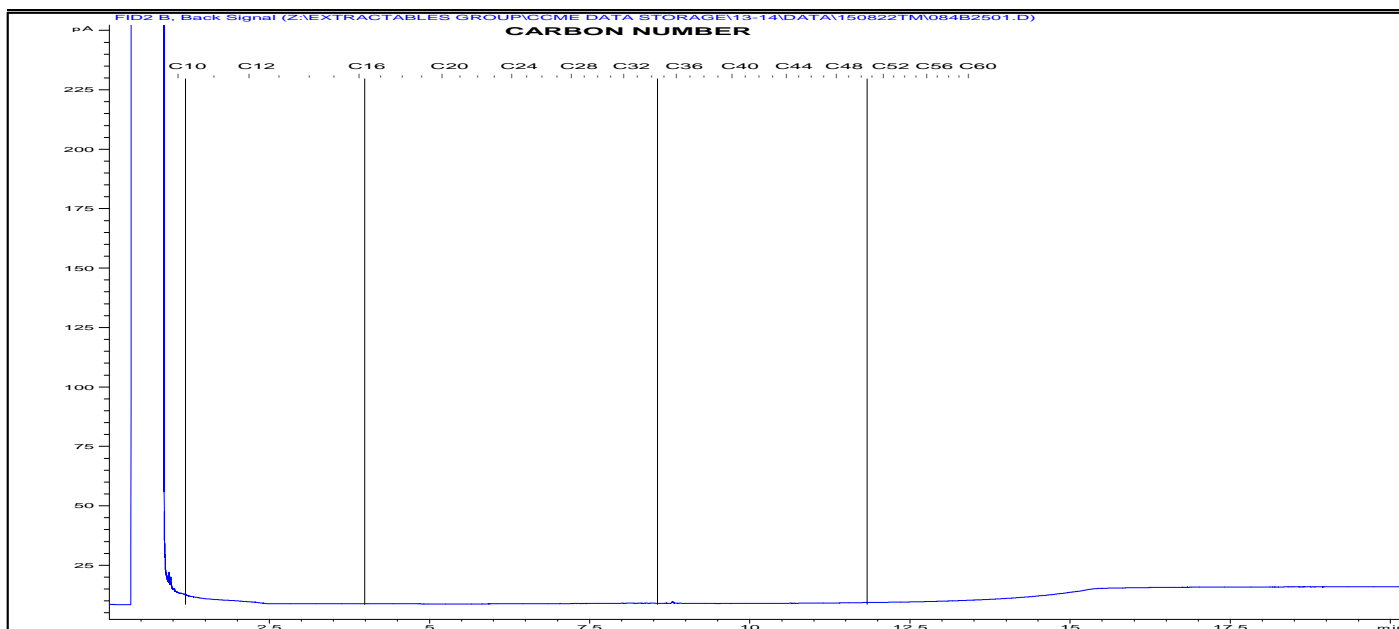
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

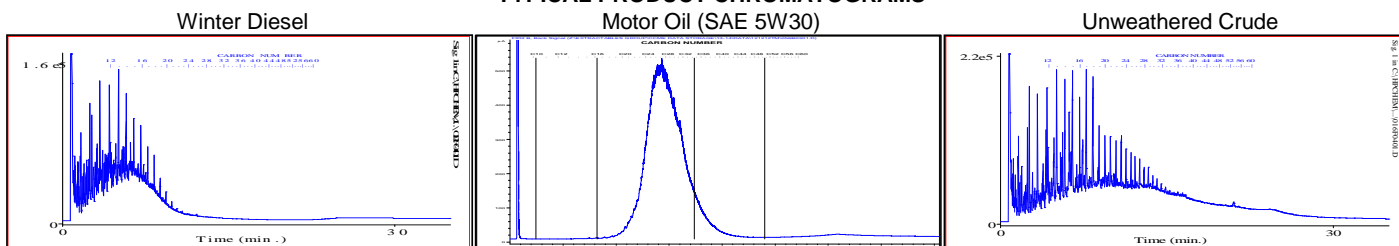
Exova Number: 1089483-54
 Sample Date: Aug 17, 2015

Sample Description: P415-3WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

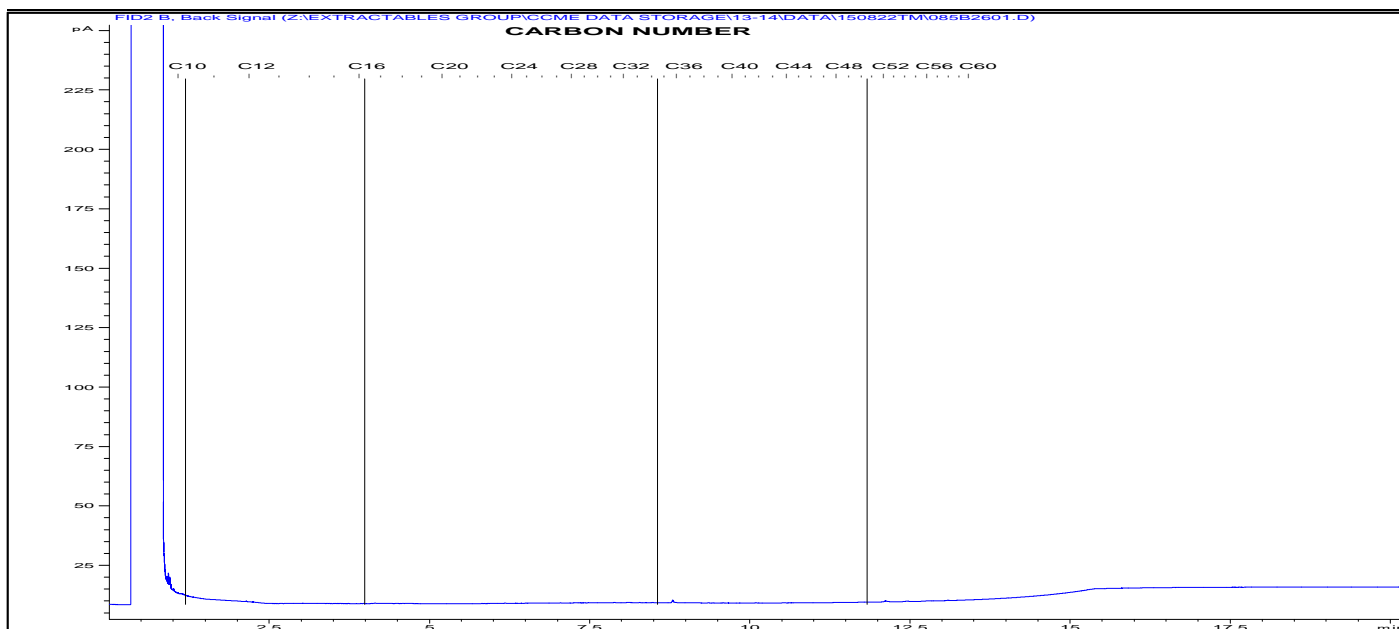
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

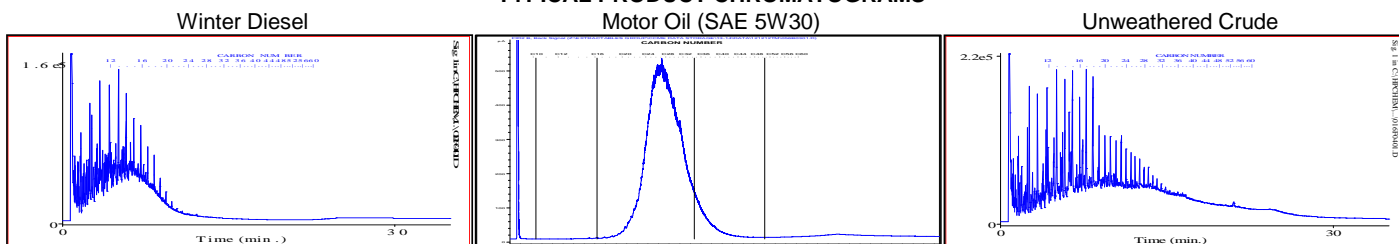
Exova Number: 1089483-55
 Sample Date: Aug 17, 2015

Sample Description: P415-4WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

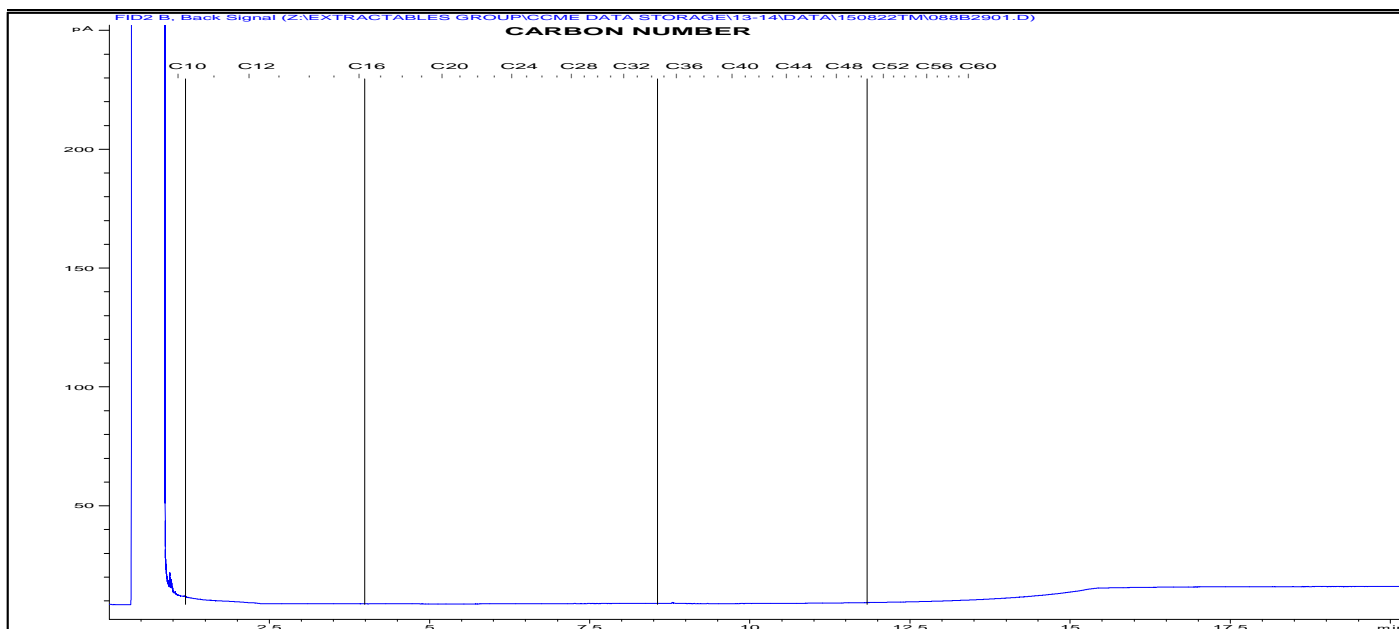
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

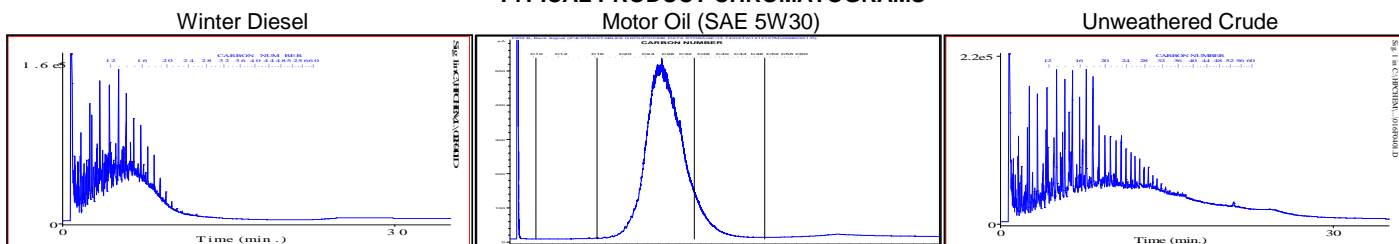
Exova Number: 1089483-56
 Sample Date: Aug 17, 2015

Sample Description: P415-4WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

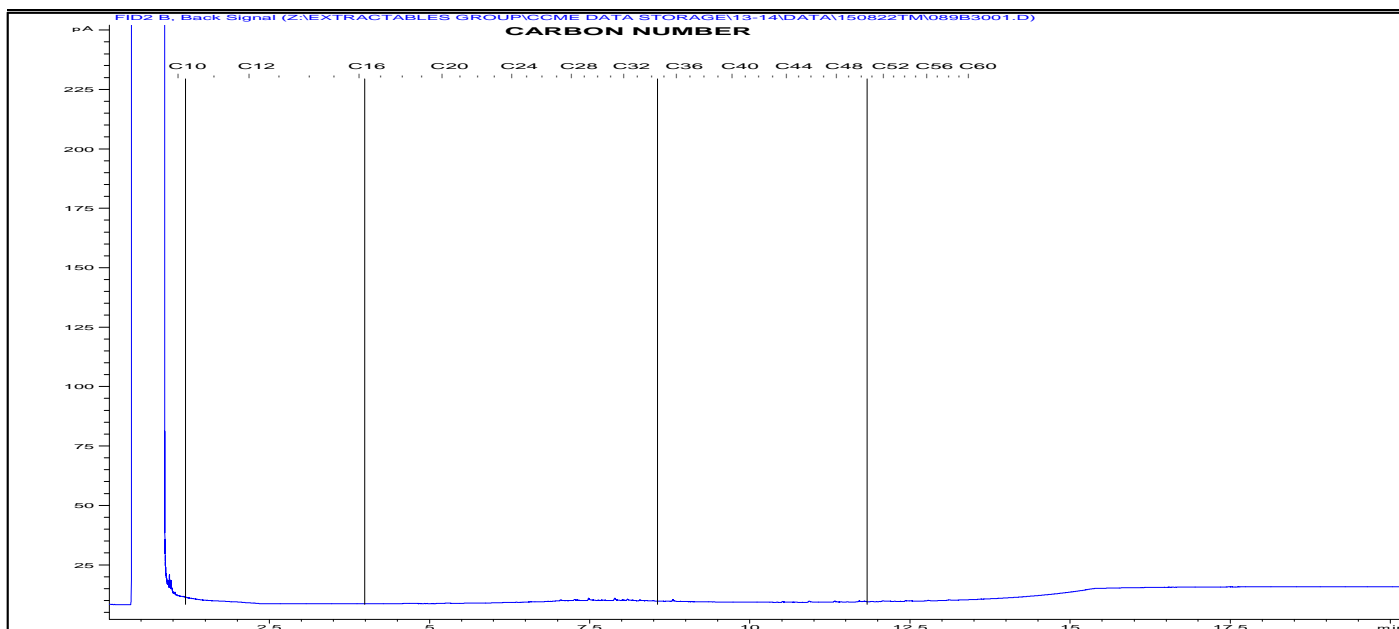
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

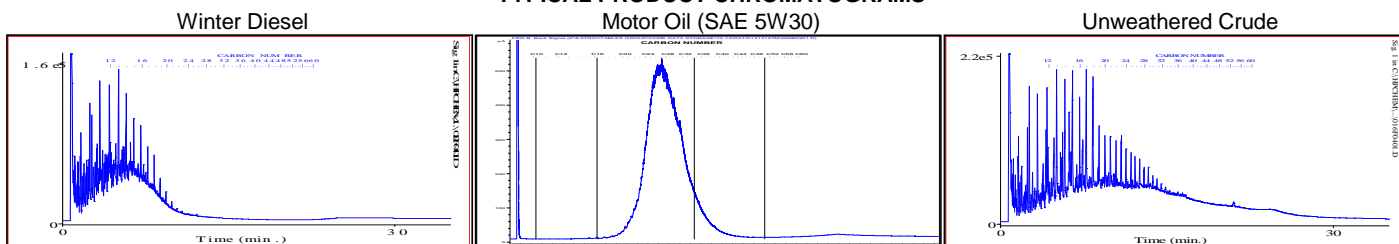
Exova Number: 1089483-57
 Sample Date: Aug 17, 2015

Sample Description: P415-5WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

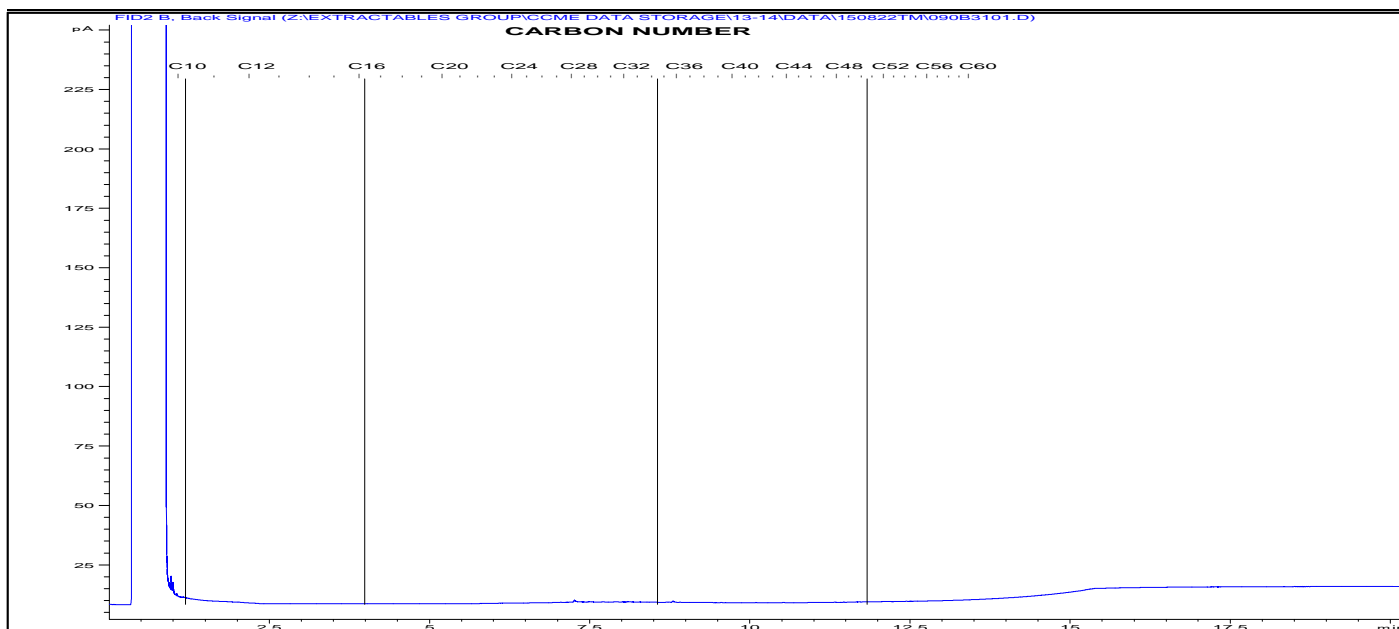
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

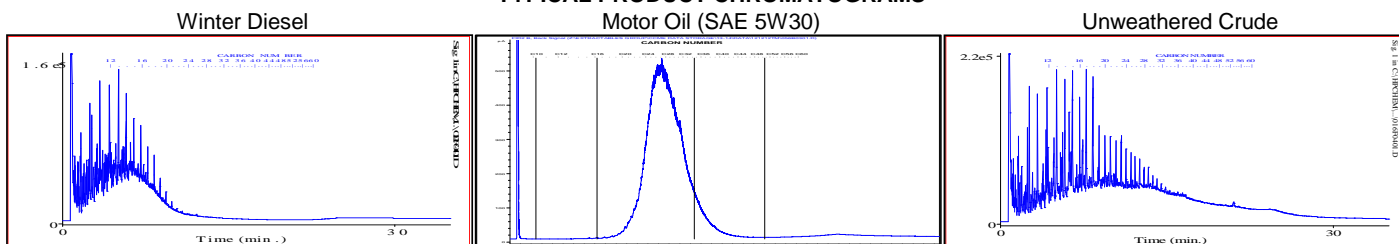
Exova Number: 1089483-58
 Sample Date: Aug 17, 2015

Sample Description: P415-5WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

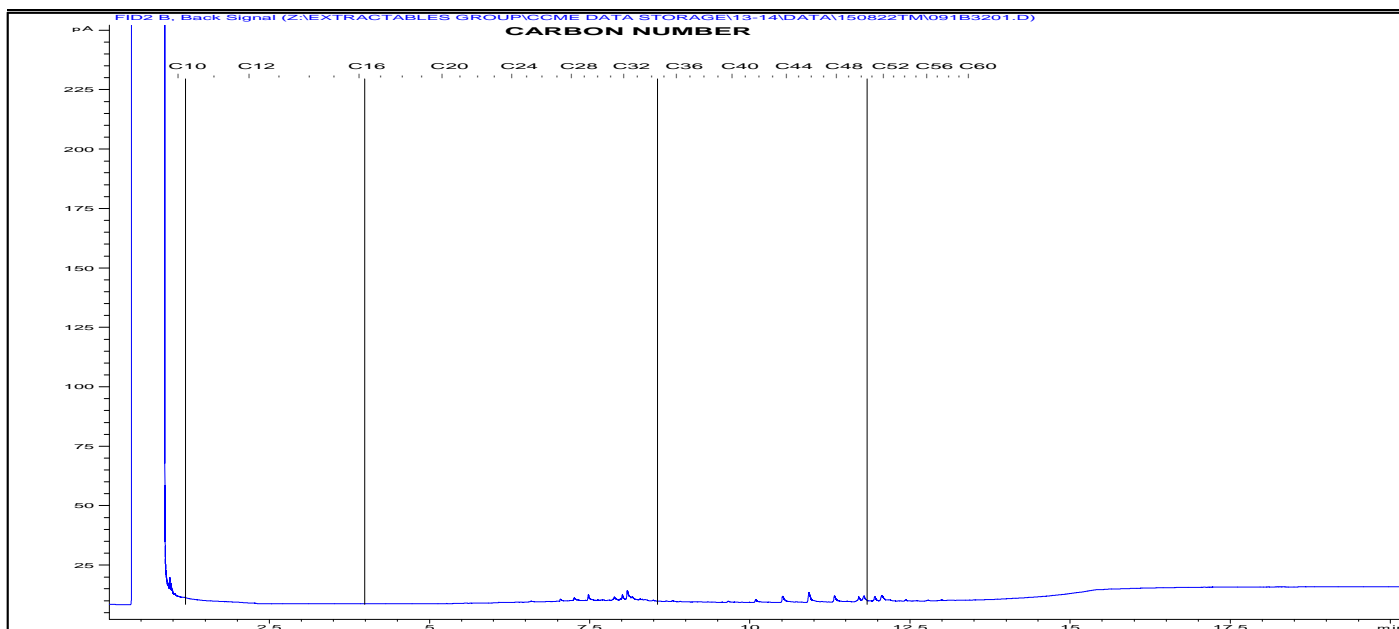
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

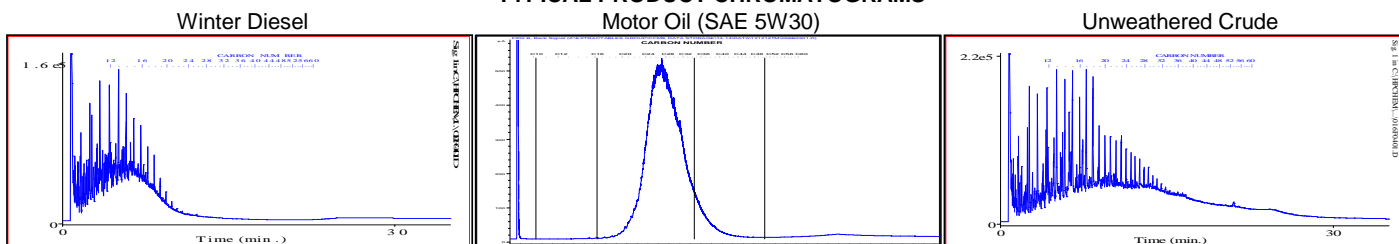
Exova Number: 1089483-59
 Sample Date: Aug 17, 2015

Sample Description: P415-6WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

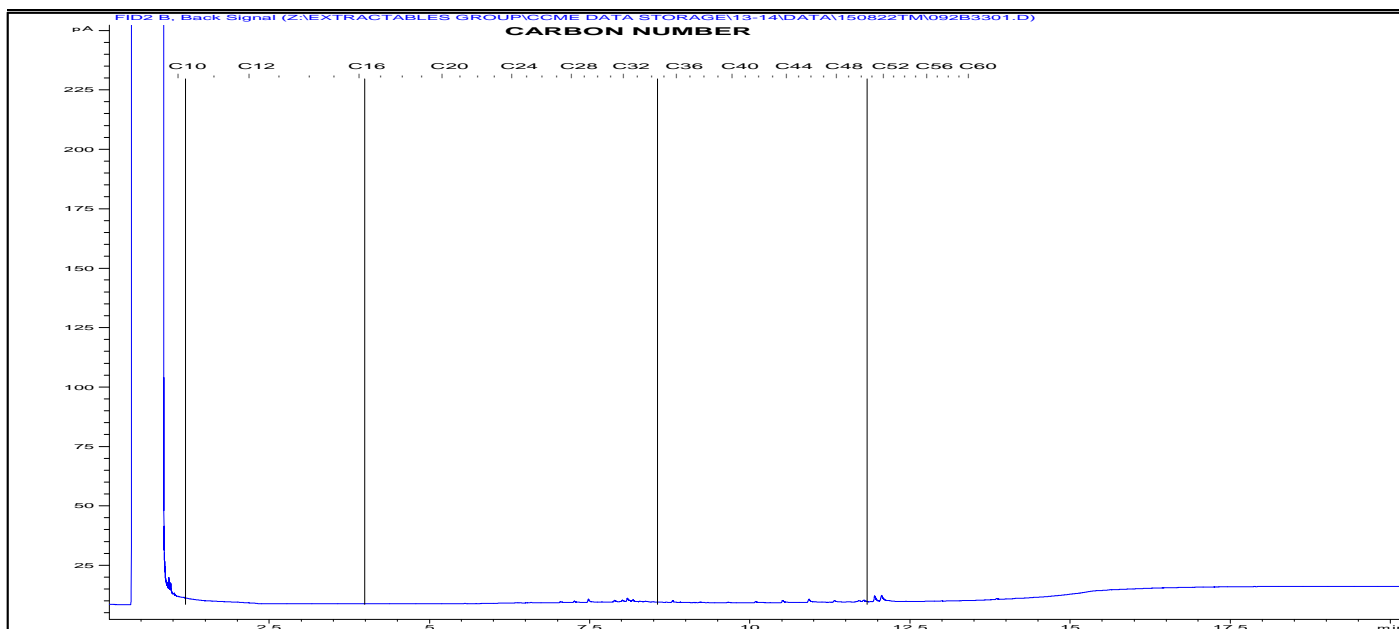
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

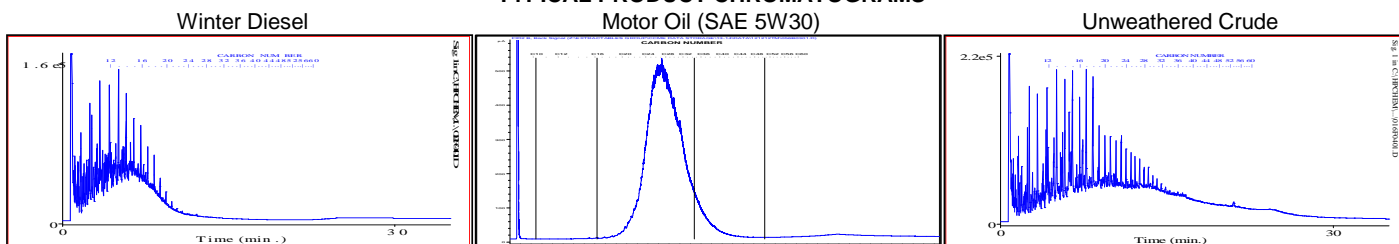
Exova Number: 1089483-60
 Sample Date: Aug 17, 2015

Sample Description: P415-6WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

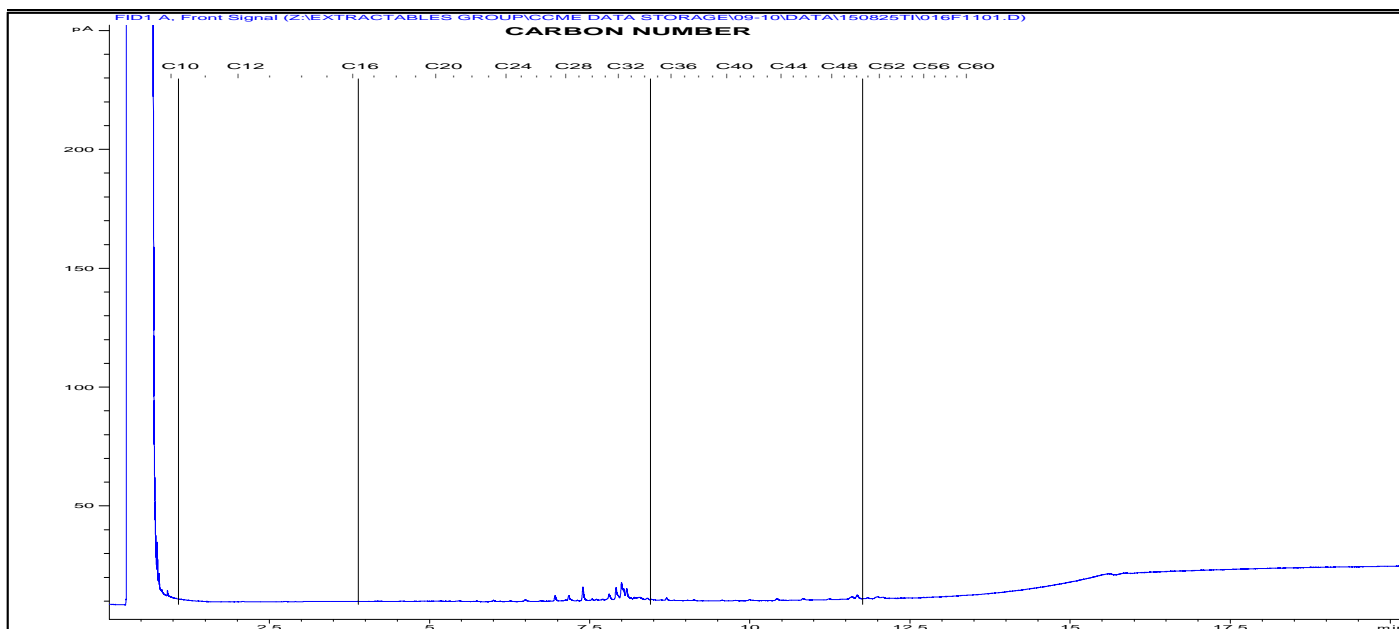
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

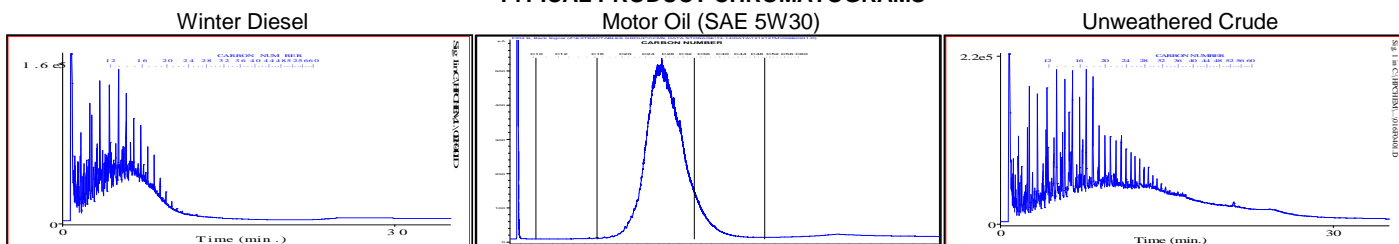
Exova Number: 1089483-61
 Sample Date: Aug 17, 2015

Sample Description: P415-7WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

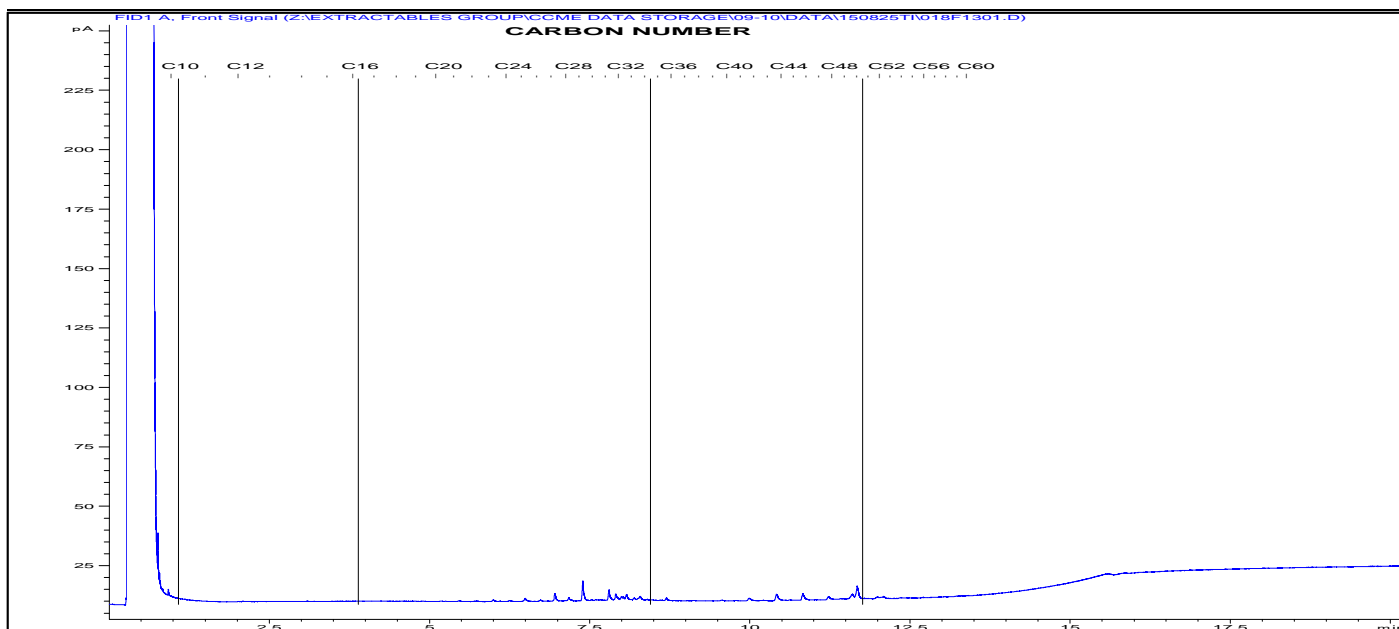
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

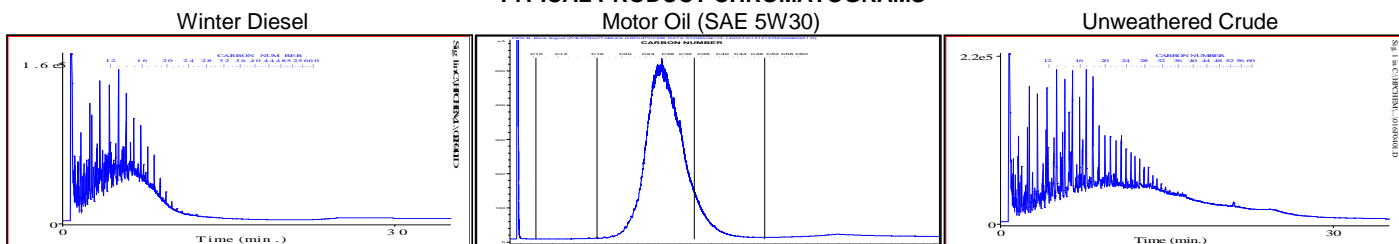
Exova Number: 1089483-62
 Sample Date: Aug 17, 2015

Sample Description: P415-7WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

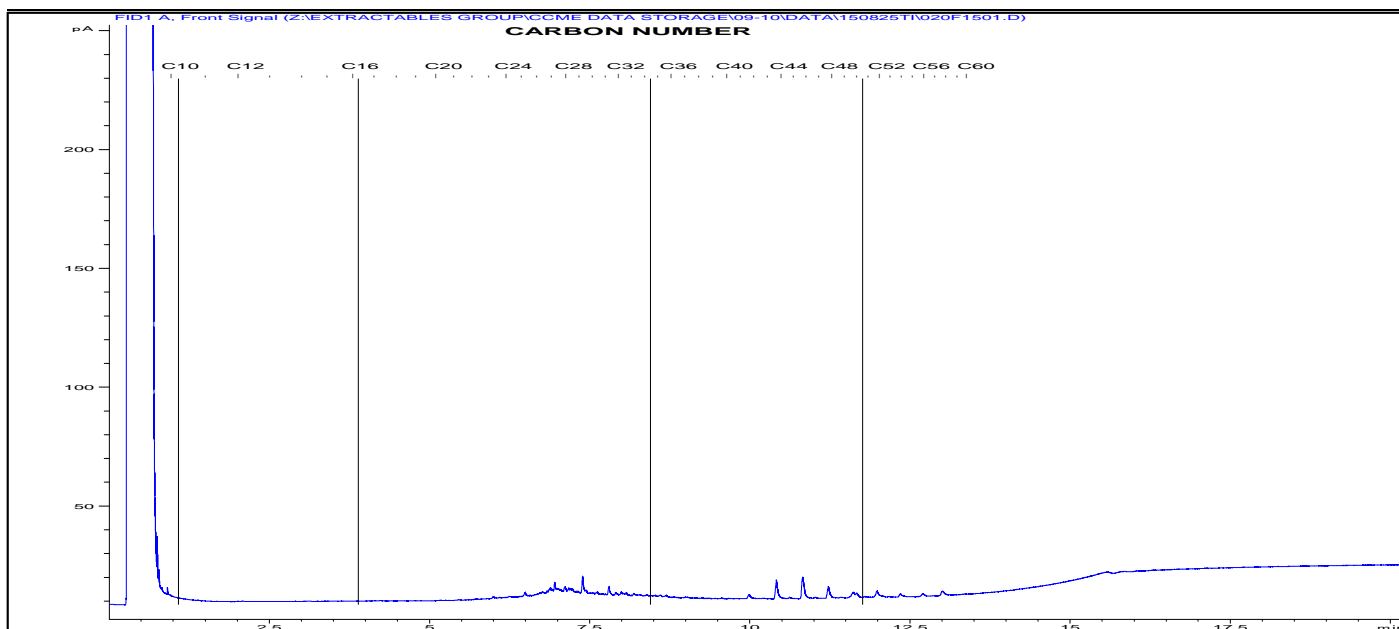
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

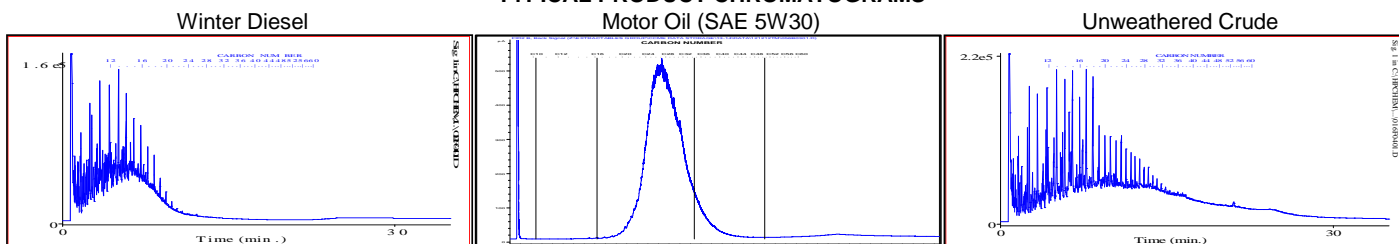
Exova Number: 1089483-63
 Sample Date: Aug 17, 2015

Sample Description: P415-8WA

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

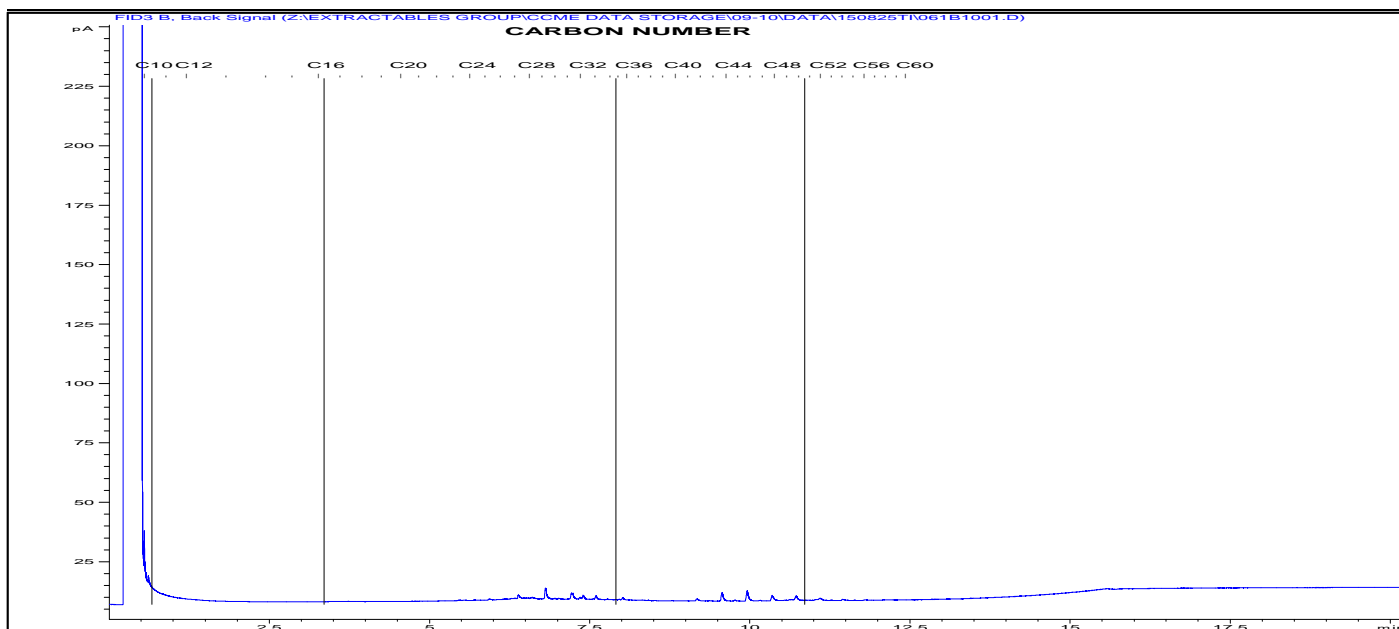
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

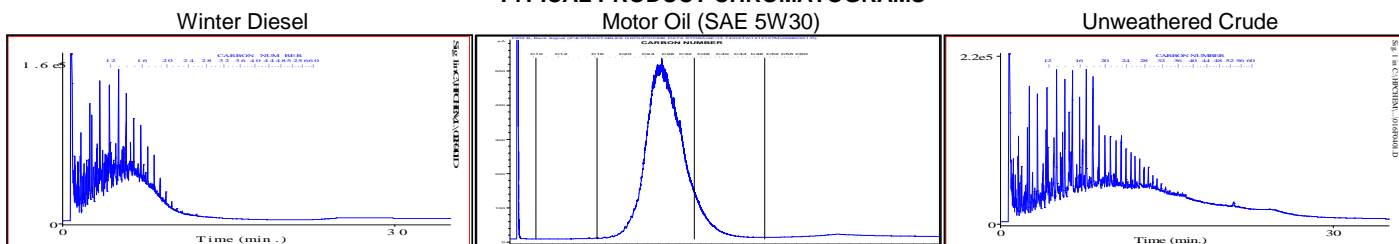
Exova Number: 1089483-64
 Sample Date: Aug 17, 2015

Sample Description: P415-8WB

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

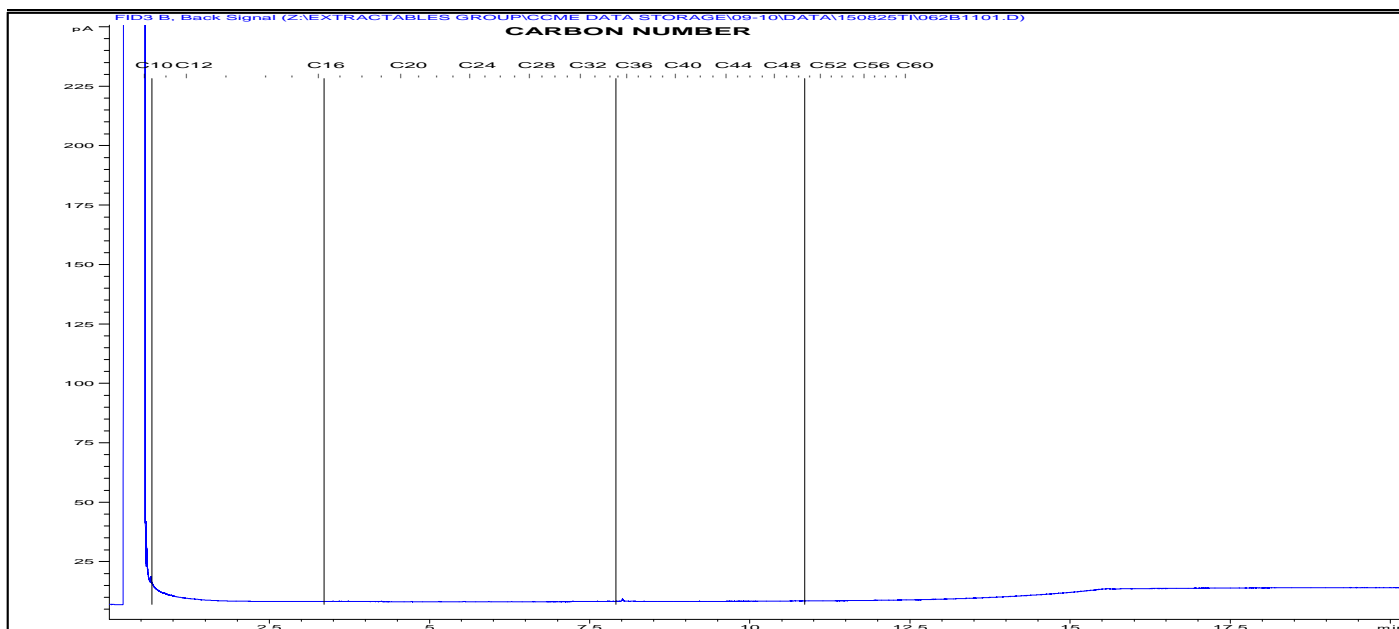
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

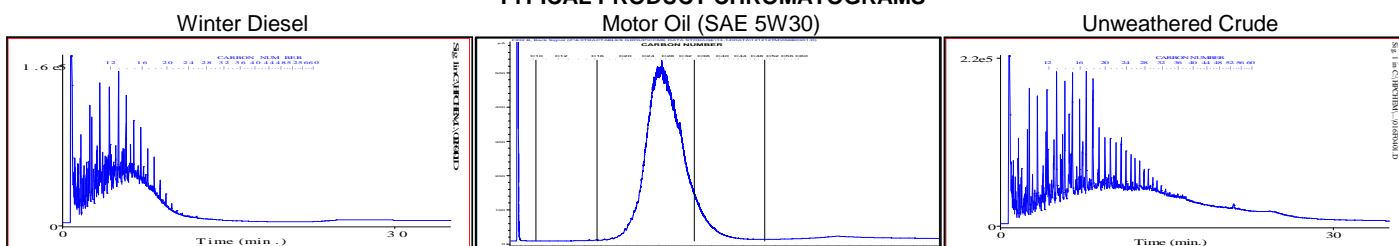
Exova Number: 1089483-65
 Sample Date: Aug 17, 2015

Sample Description: P415-BD1

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

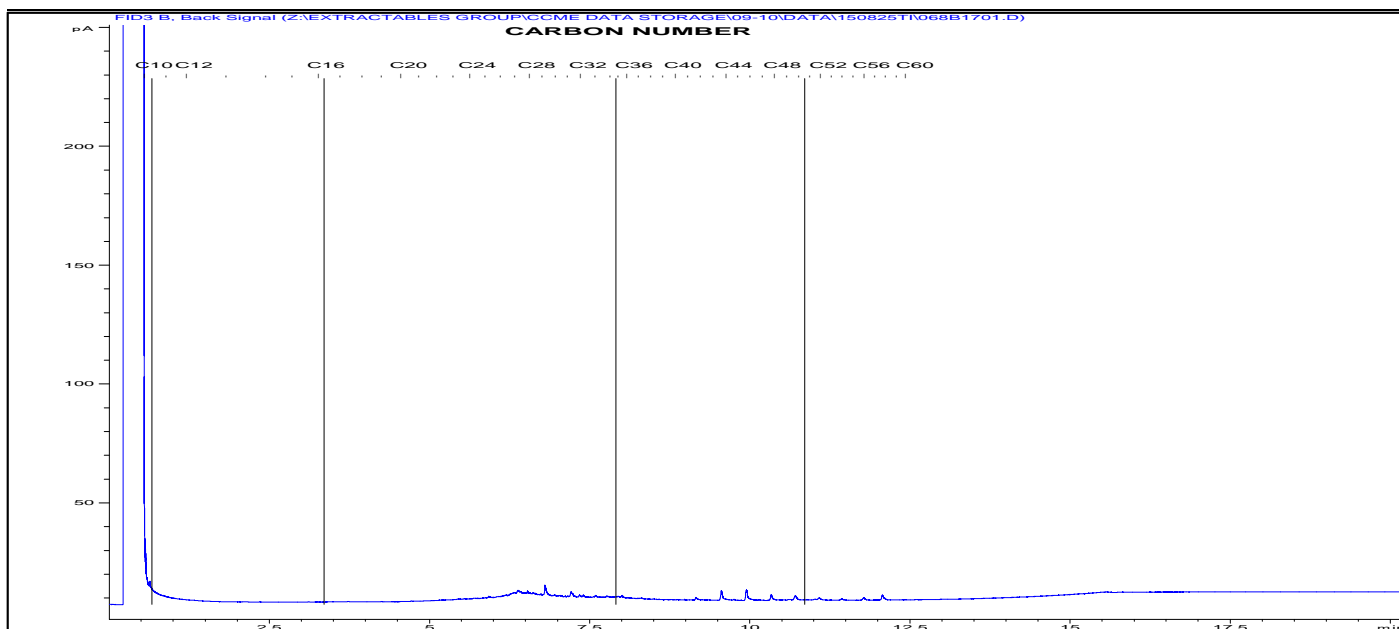
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

Exova Number: 1089483-66

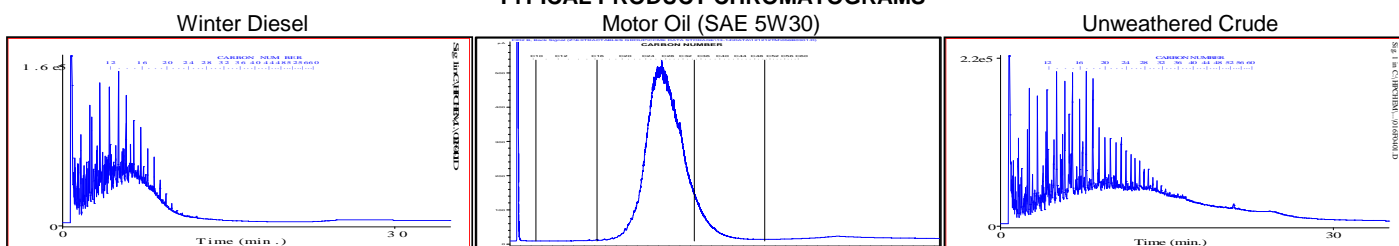
Sample Description: P415-BD2

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

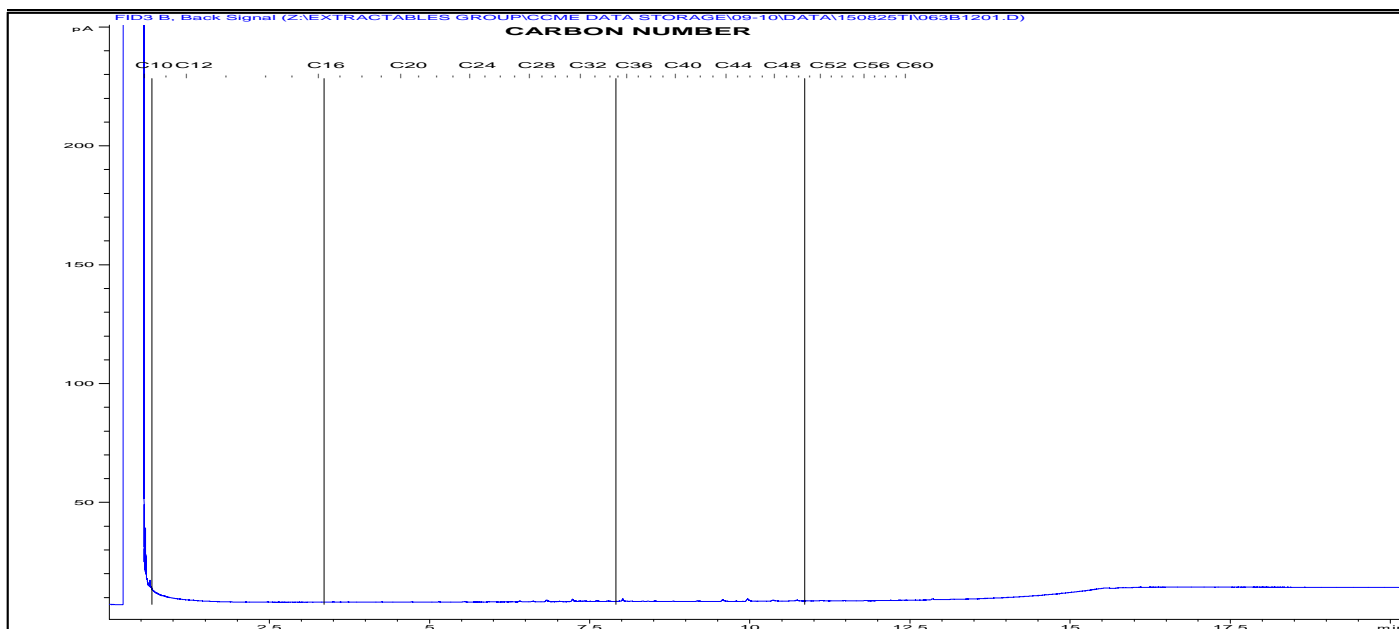
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 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

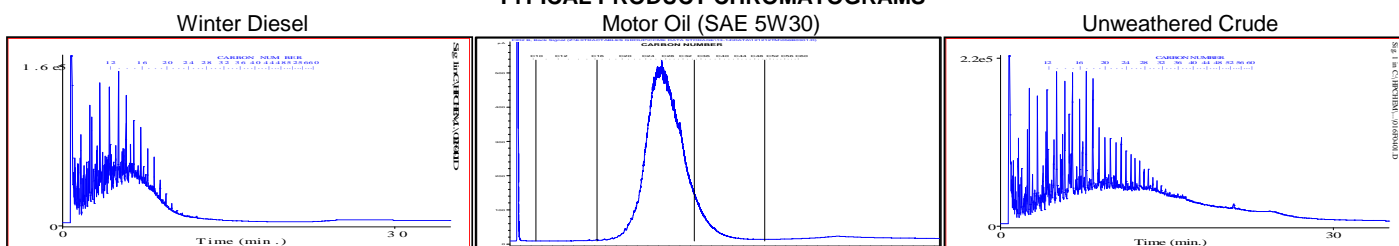
Exova Number: 1089483-67
 Sample Date: Aug 17, 2015

Sample Description: P415-BD3

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

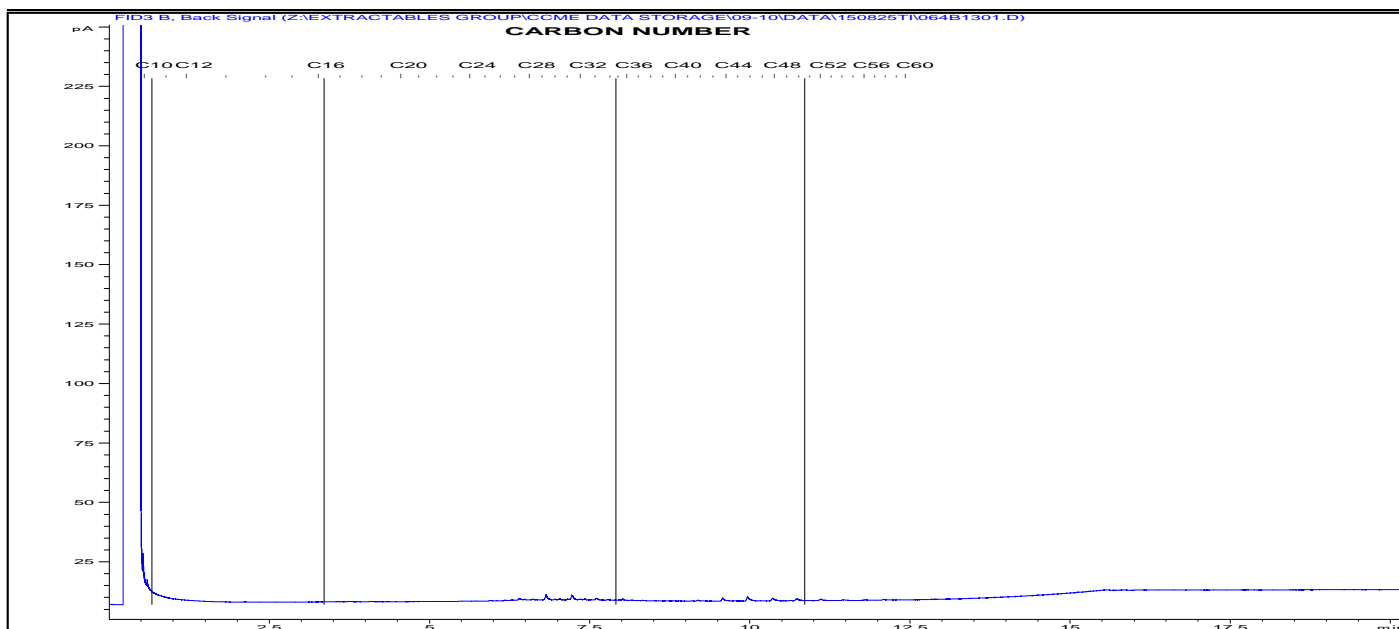
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

Exova Number: 1089483-68

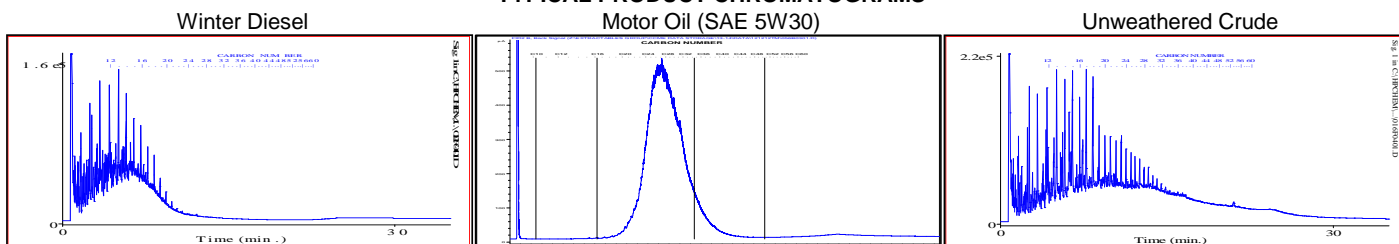
Sample Description: P415-BD4

Sample Date: Aug 17, 2015

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

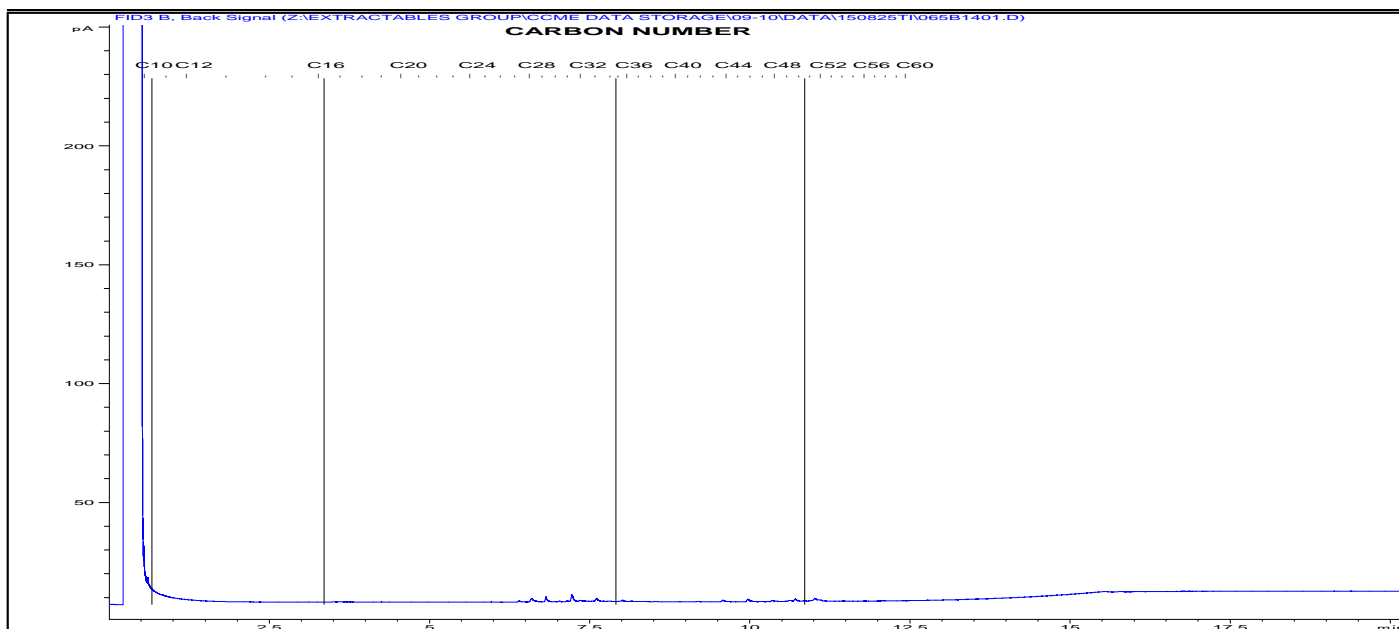
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

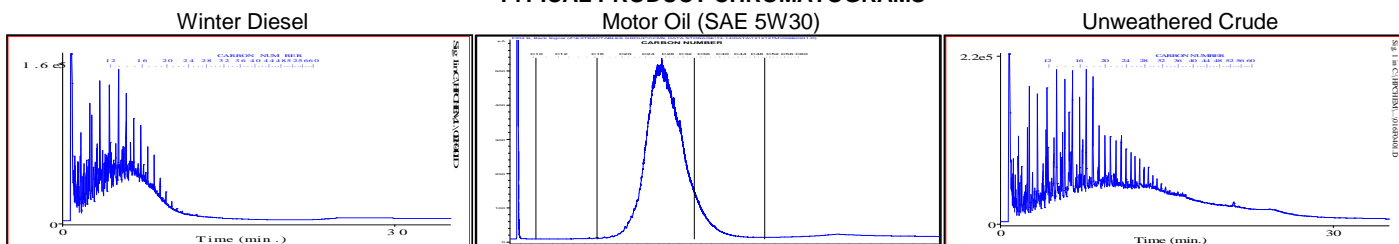
Exova Number: 1089483-69
 Sample Date: Aug 17, 2015

Sample Description: P415-BD5

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

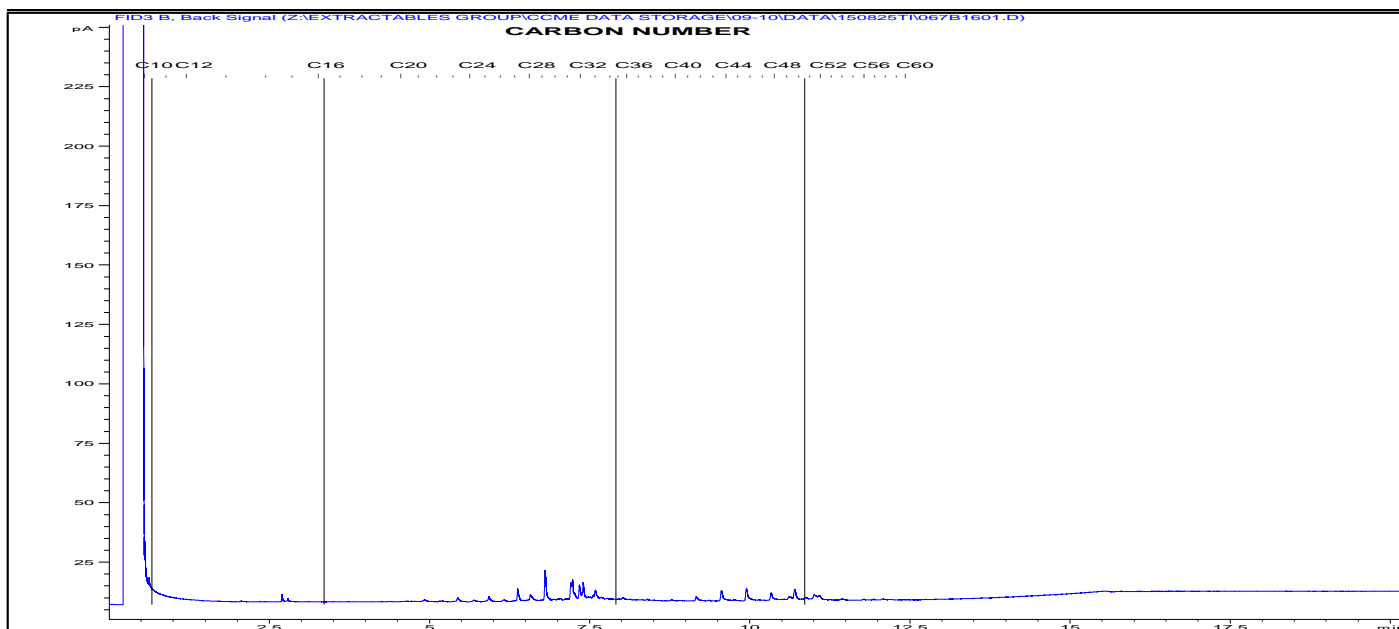
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

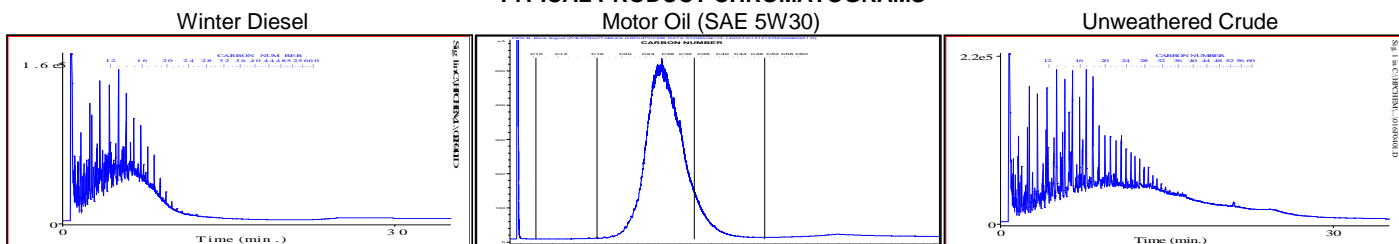
Exova Number: 1089483-70
 Sample Date: Aug 17, 2015

Sample Description: P415-BD6

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

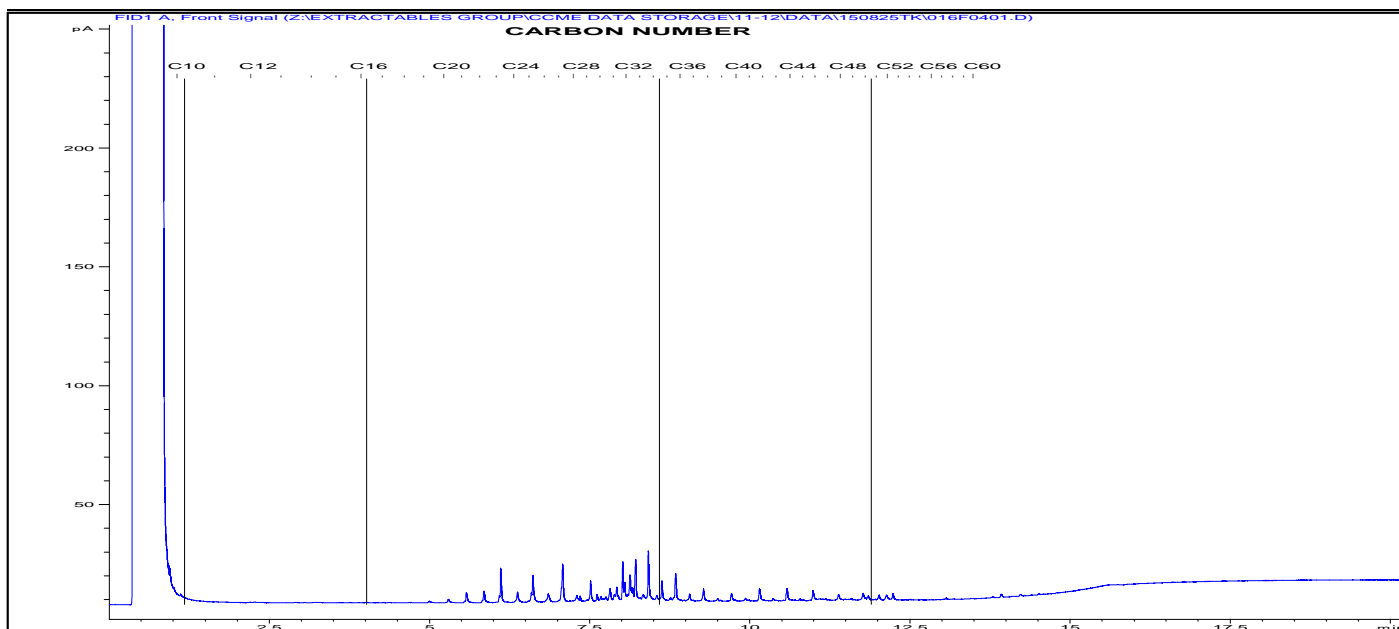
Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 26, 2015
 Report Number: 2036230

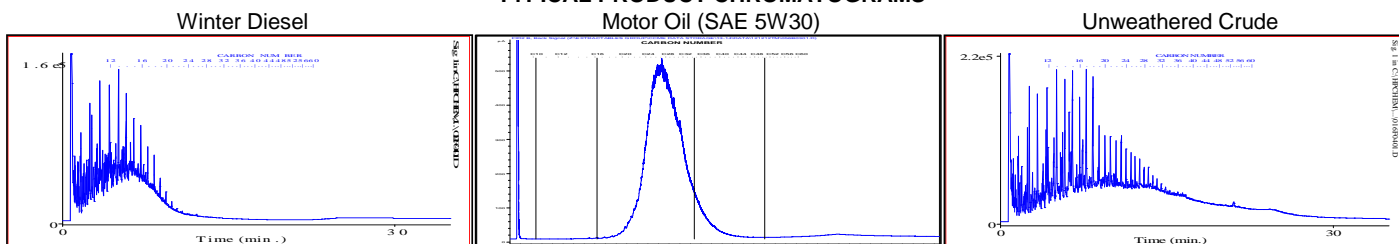
Exova Number: 1089483-71
 Sample Date: Aug 18, 2015

Sample Description: P415-BD7

Silica Gel Treated



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

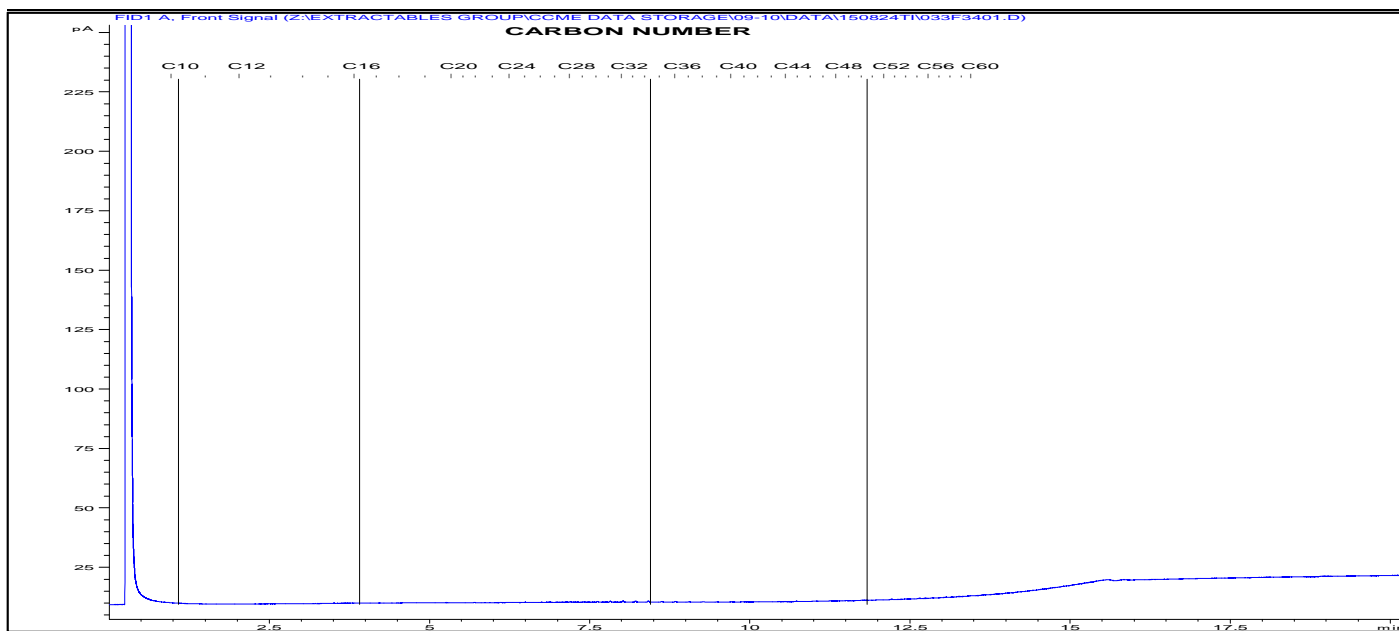
Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

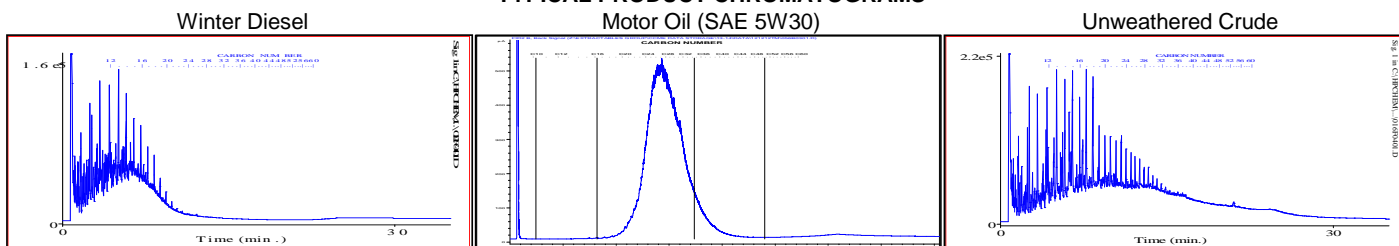
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-72
 Sample Date: Aug 18, 2015

Sample Description: P415-1W



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

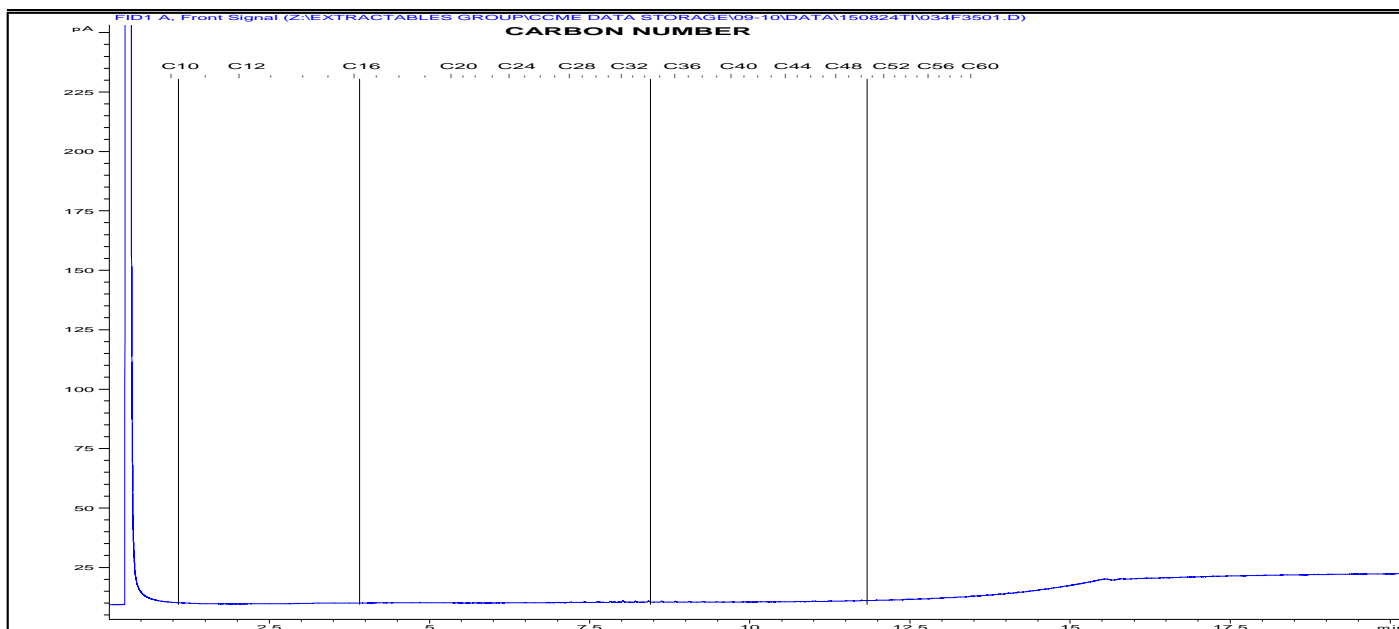
Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

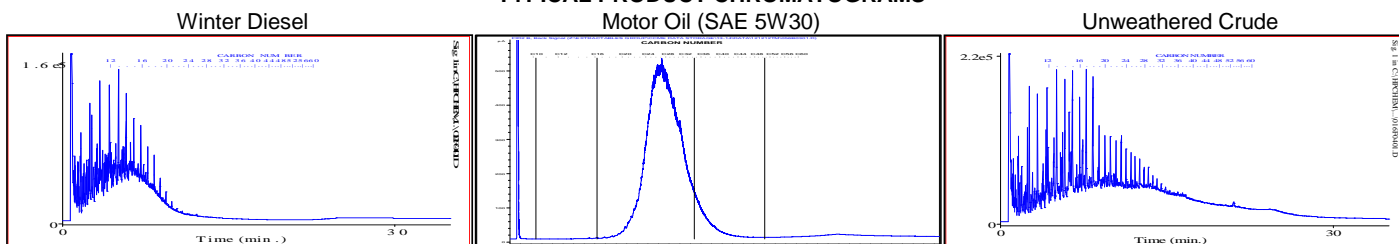
Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-73
 Sample Date: Aug 18, 2015

Sample Description: P415-2W



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

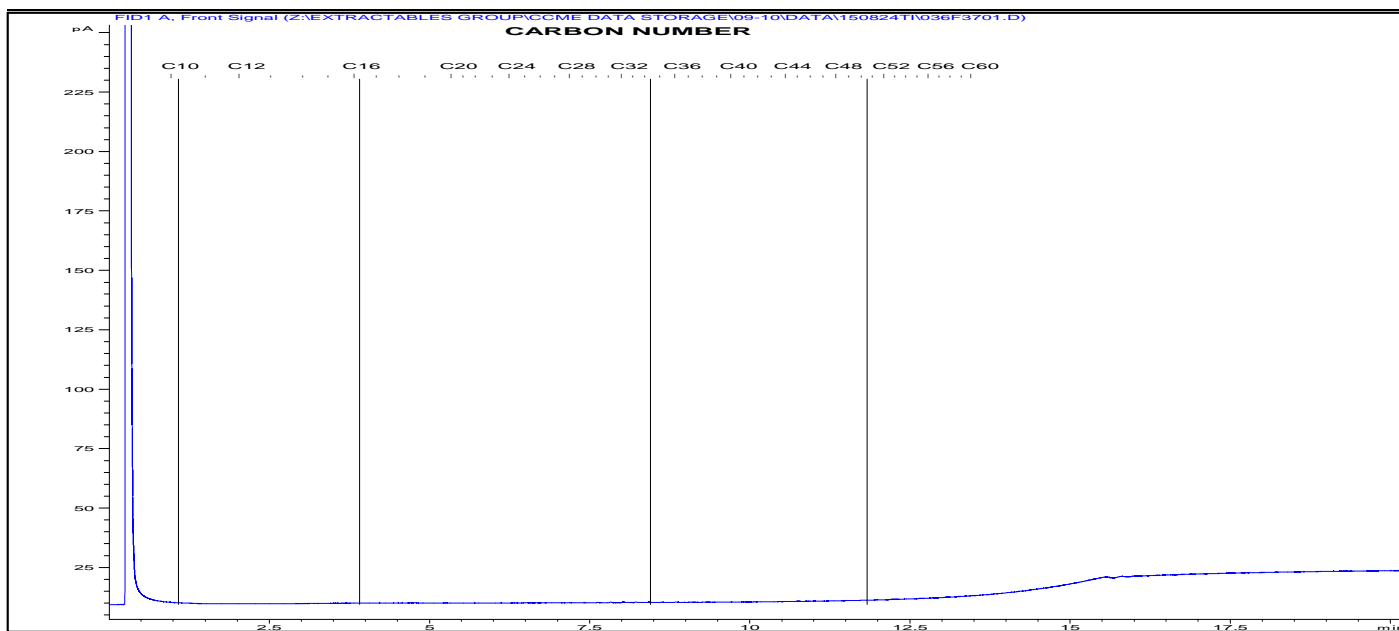
Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

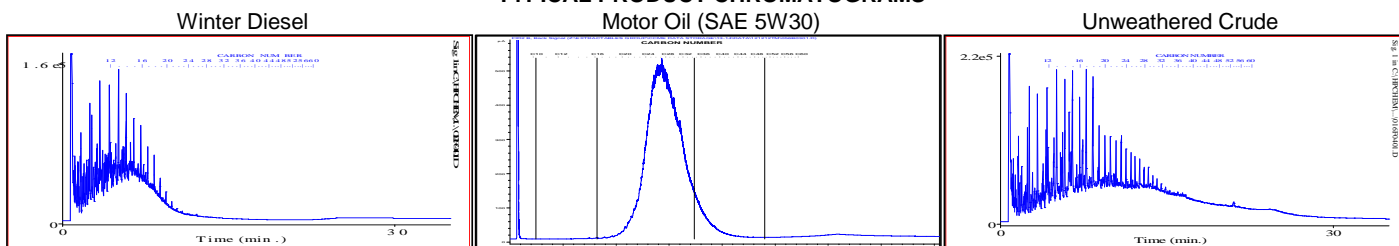
Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-74
 Sample Date: Aug 18, 2015

Sample Description: P415-3W



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

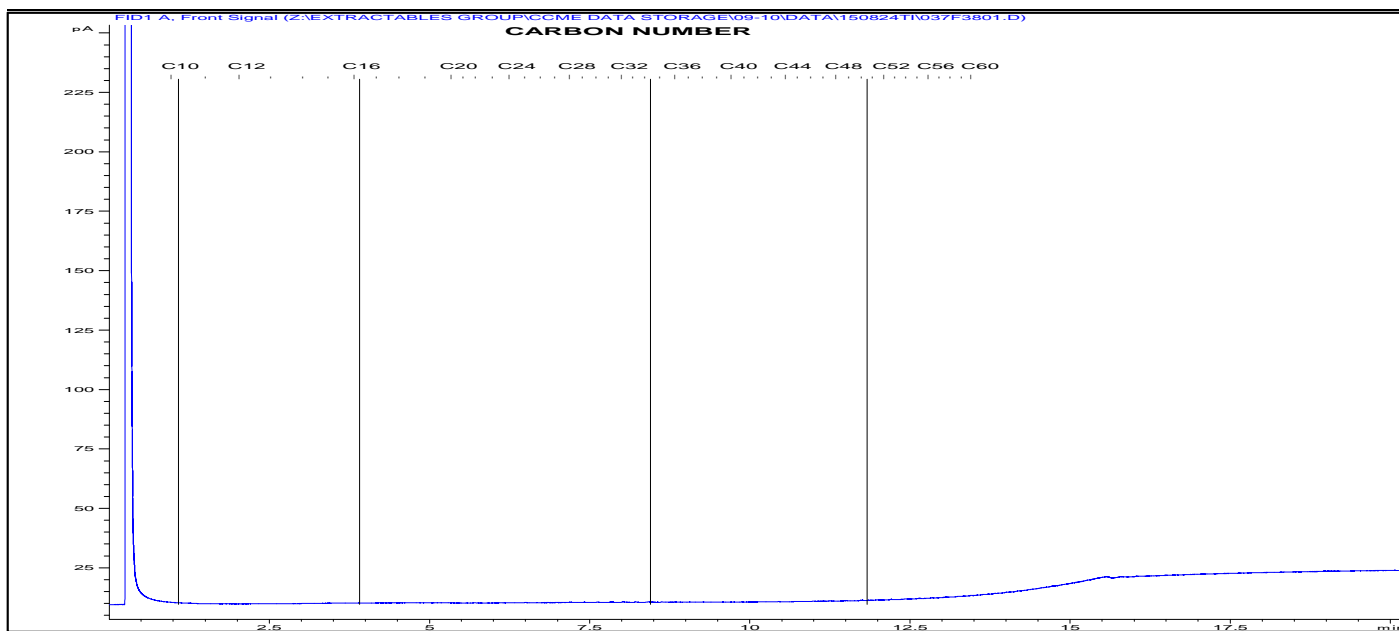
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 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
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 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

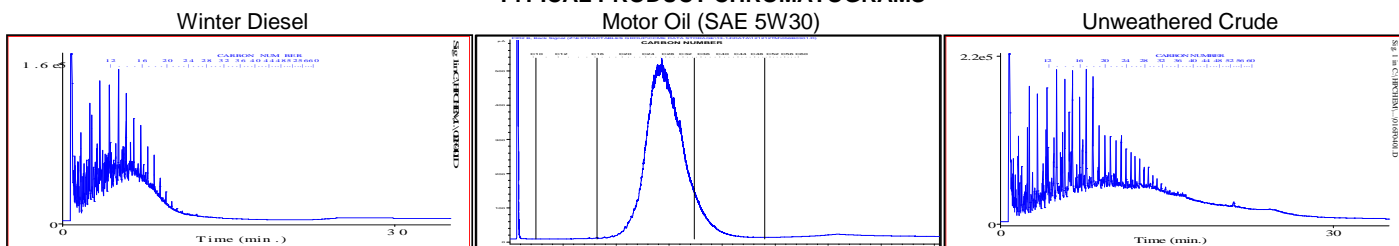
Exova Number: 1089483-75

Sample Description: P415-4W

Sample Date: Aug 18, 2015



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

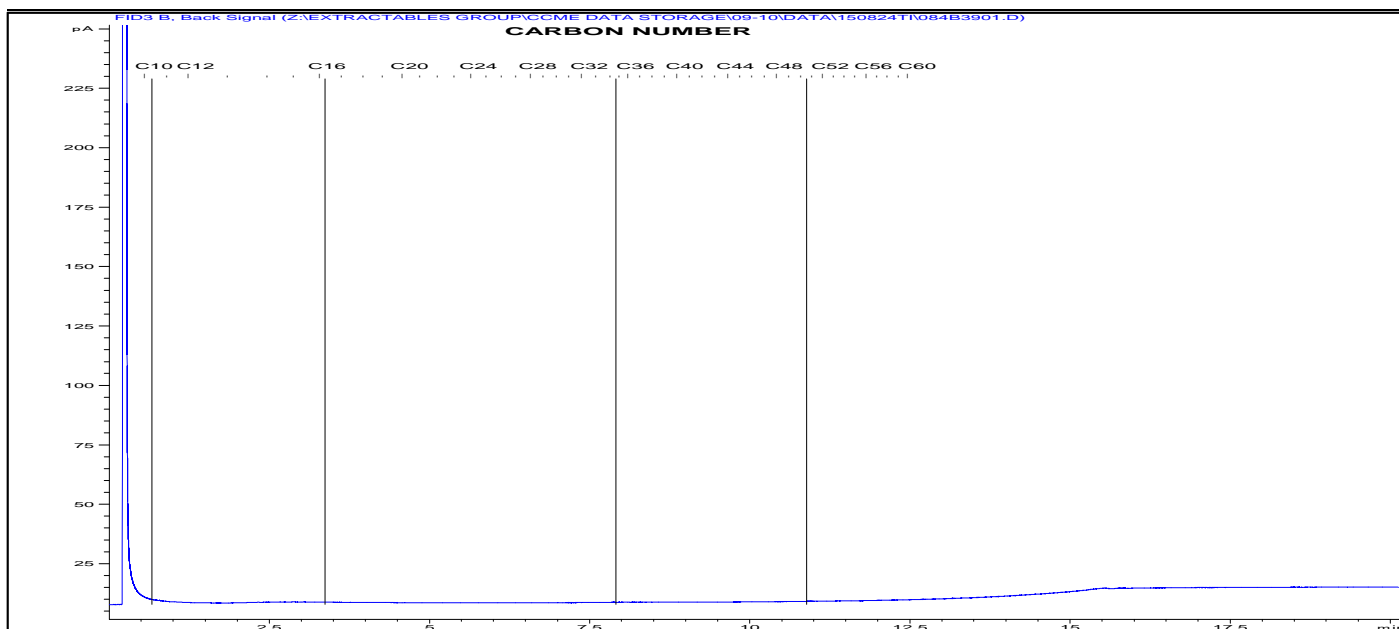
Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

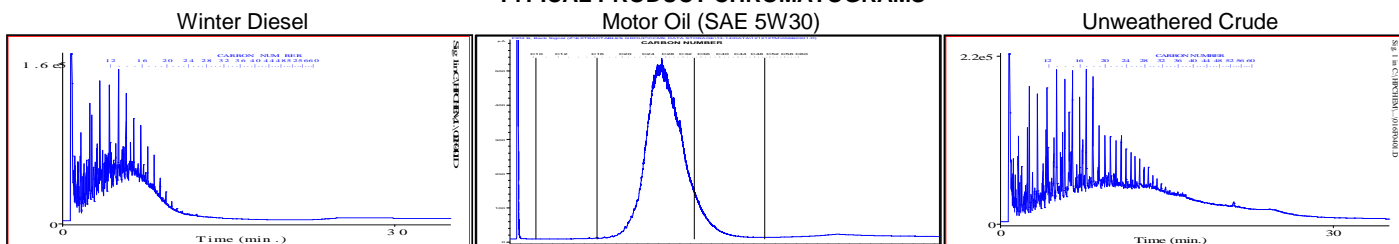
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-76
 Sample Date: Aug 18, 2015

Sample Description: P415-6W



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

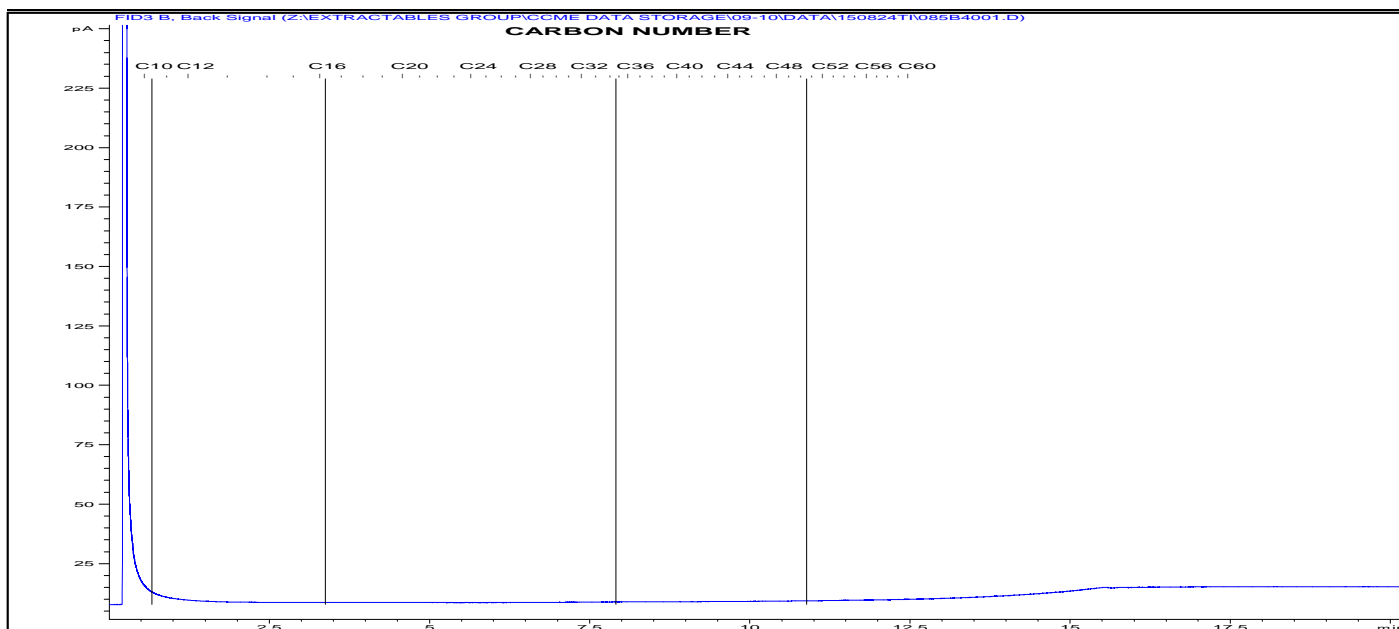
Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

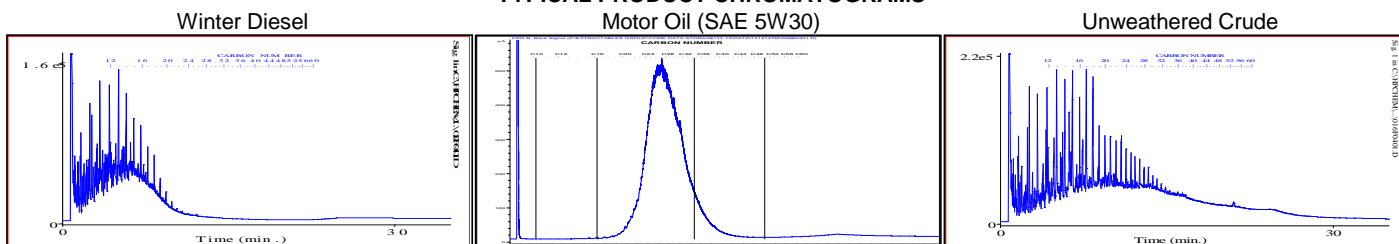
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-77
 Sample Date: Aug 18, 2015

Sample Description: P415-7W



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

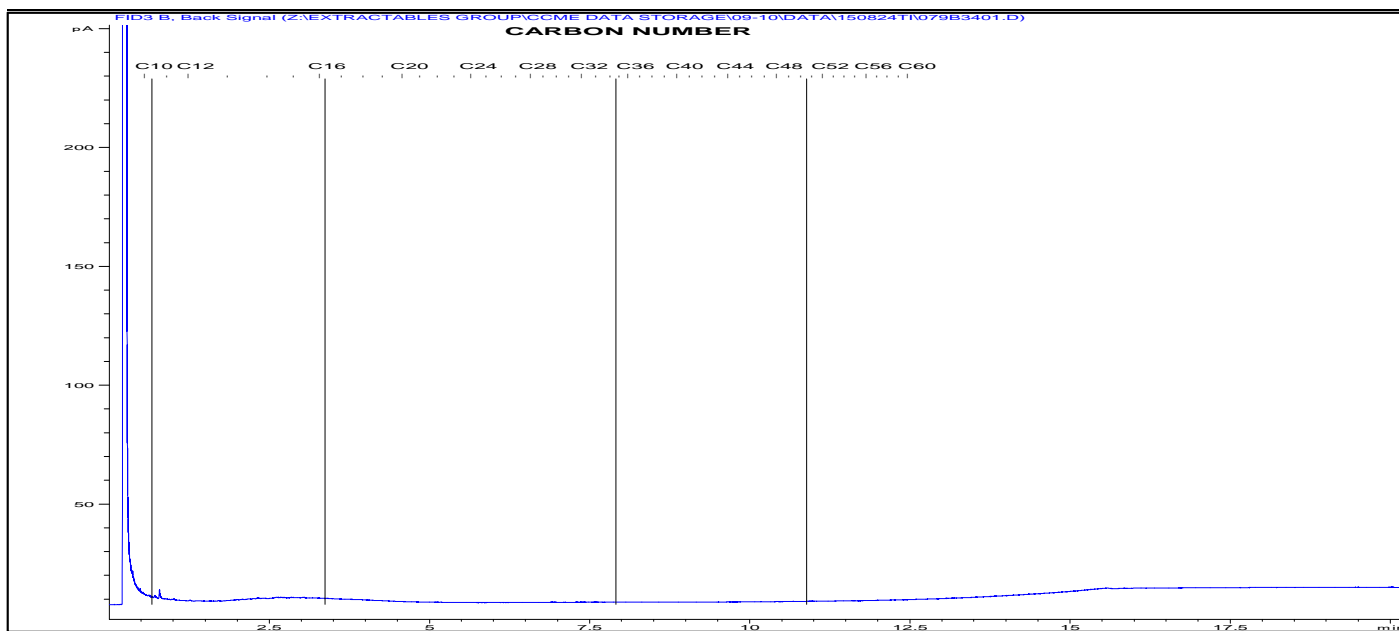
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 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

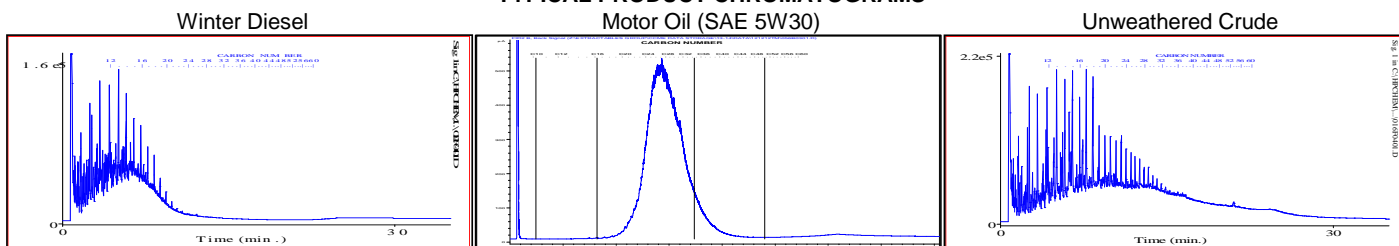
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-78
 Sample Date: Aug 18, 2015

Sample Description: P415-8W



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

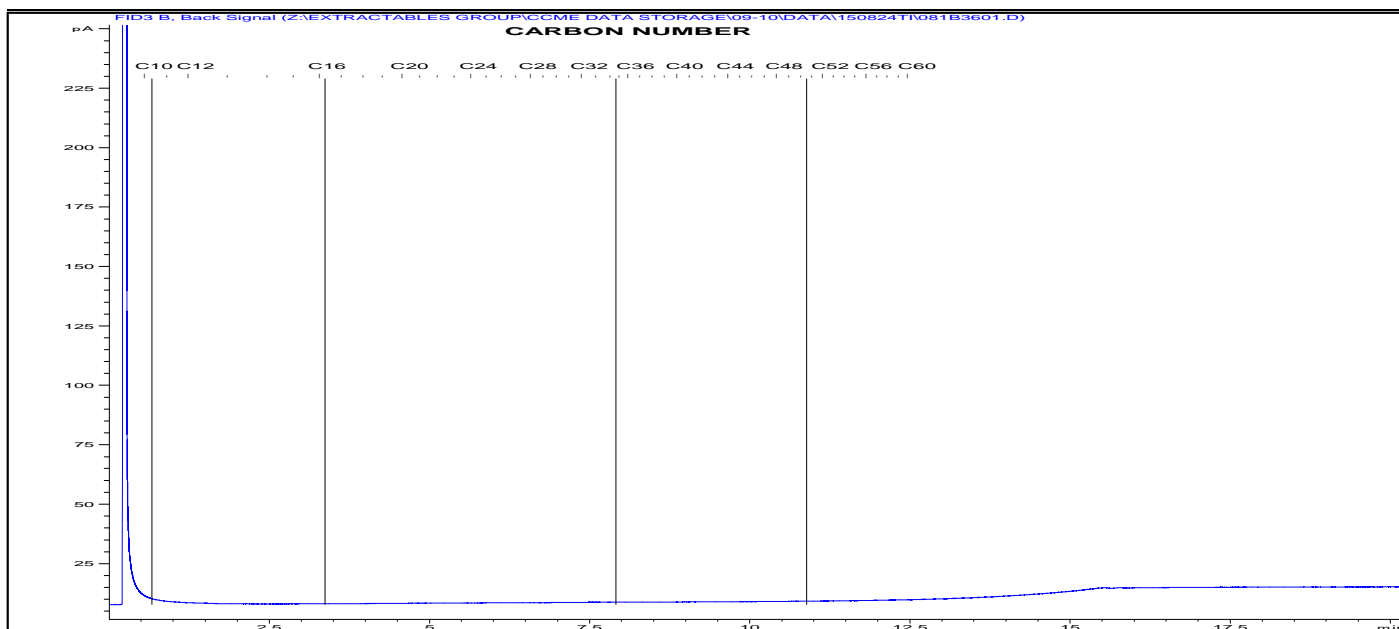
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 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

Lot ID: **1089483**
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 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

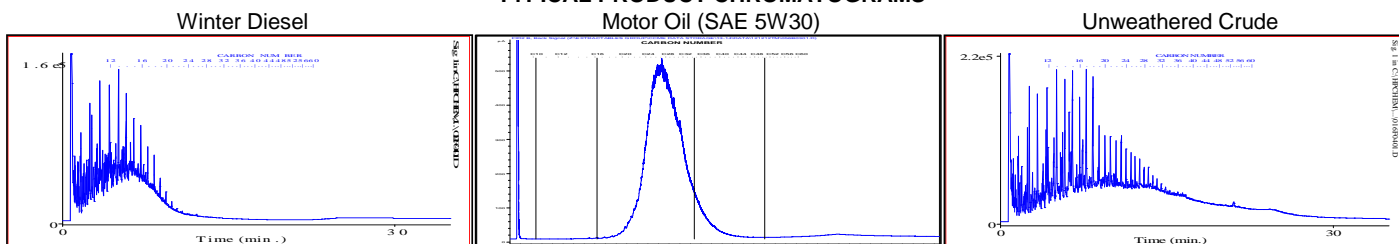
Exova Number: 1089483-79

Sample Description: P415-BDW1

Sample Date: Aug 18, 2015



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Hydrocarbon Chromatogram

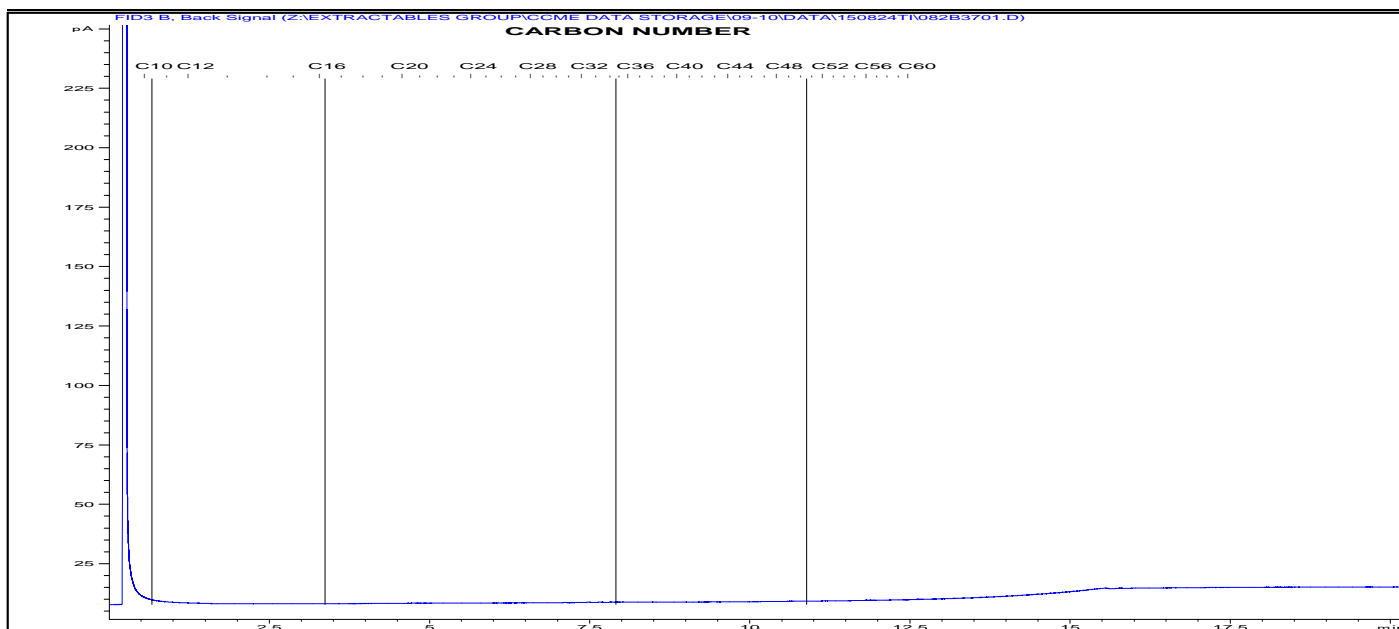
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 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

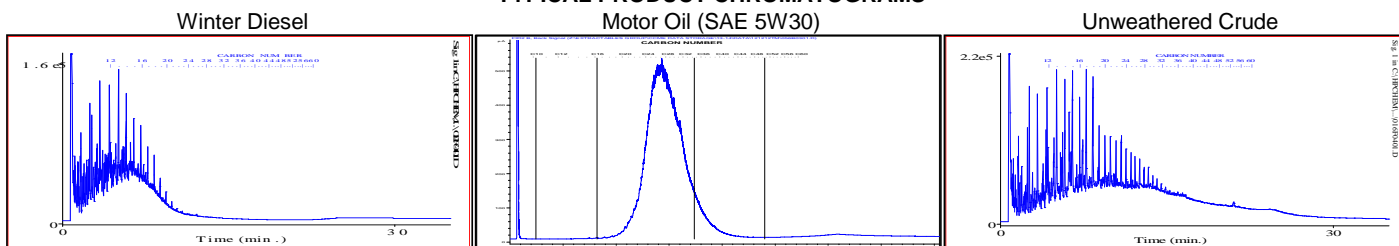
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 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-80
 Sample Date: Aug 18, 2015

Sample Description: P415-FB



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Hydrocarbon Chromatogram

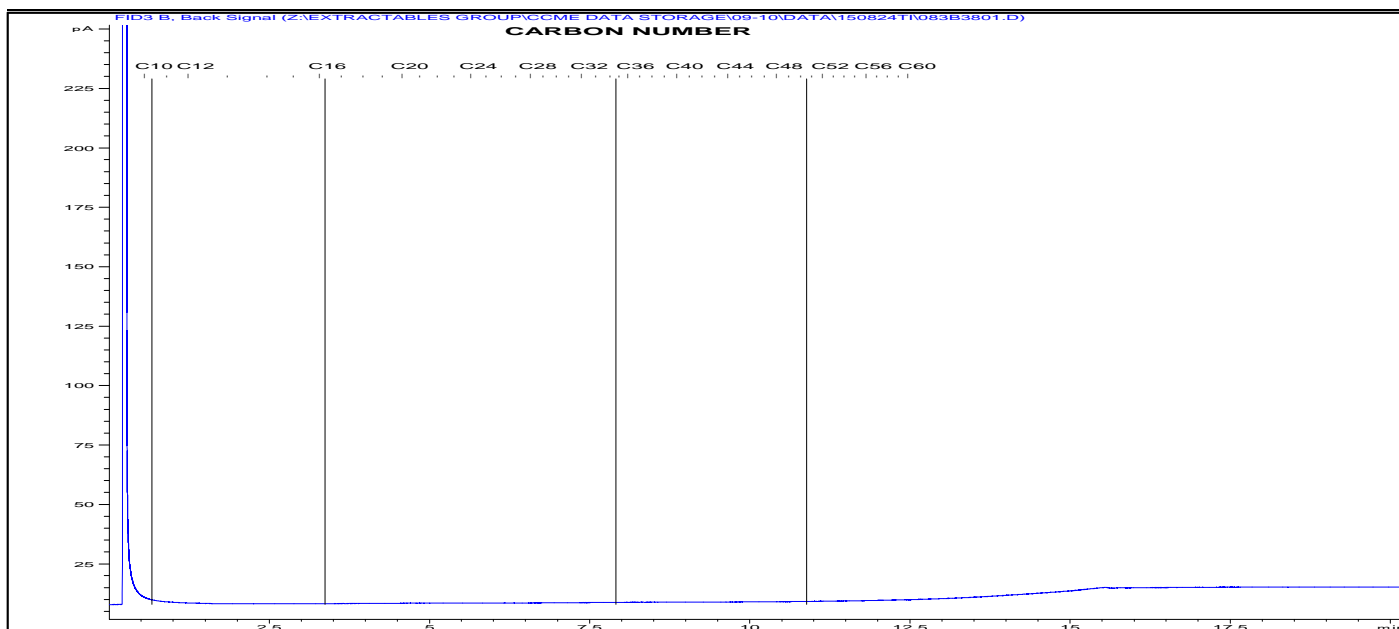
Bill To: SILA Remediation
 Report To: SILA Remediation
 250-1260 Boul Lebourgneuf
 Quebec, QC, Canada
 G2K 2G2
 Attn: Jean-Pierre Pelletier
 Sampled by: A. Passalis
 Company: Sila Remediation

Project ID: KITIK13
 Name: Pin-4
 Location: Byron Bay
 LSD:
 P.O.:

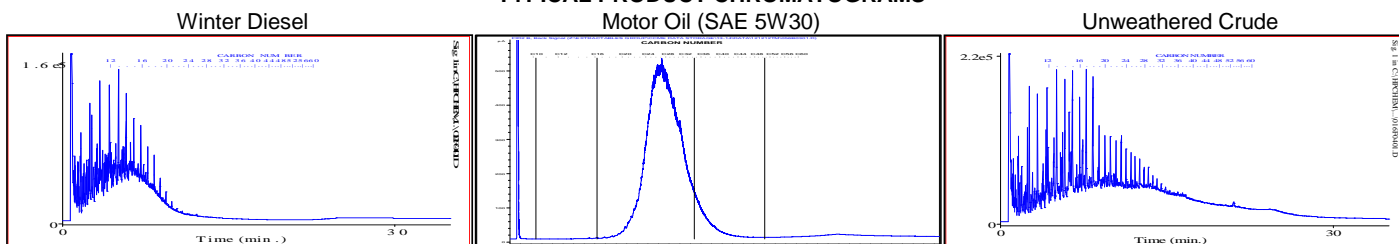
Lot ID: **1089483**
 Control Number: C0008969
 Date Received: Aug 21, 2015
 Date Reported: Aug 25, 2015
 Report Number: 2036230

Exova Number: 1089483-81
 Sample Date: Aug 18, 2015

Sample Description: P2/P4-TB



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Main Contact:

Attn: Jean-Pierre Pelletier
SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC G2K 2G2
Phone: (581) 984-2585

Primary Administrator:

Attn: Jean-Pierre Pelletier
SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC G2K 2G2
Phone: (581) 984-2585

Invoice Delivery To:

Attn: Accounts Payable
SILA Remediation
350, rue Franquet
Sainte-Foy, QC G1P 4P3
Phone: (418) 653-4422
Fax: (418) 653-3583

Bill Paid by:

Attn: Jean-Pierre Pelletier
SILA Remediation
250-1260 Boul Lebourgneuf
Quebec, QC G2K 2G2
Phone: (581) 984-2585

Agreement Id 105540
Project Id KITIK13
Project Name Pin-4
Project Location Byron Bay
Project Legal
PO#
Proj. Acct. Code

Well Name
Well Location
Field
Formation
Elevation KB
Elevation GR
Drilling License

Control Id C0008969
Report Due Sep 03, 2015
Received Date Aug 21, 2015

Sampled By A. Passalis
Sampling Company Sila Remediation
Est. Disposal Date Oct 03, 2015

Service Information

Sample Id	1	Service	Service Name
	5174557	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-1A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	2	Service	Service Name
	5174558	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-1B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	3	Service	Service Name
	5174559	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-2A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	4	Service	Service Name
	5174560	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-2B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	5 5174561	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-3A		
Description			
Sample Id	6 5174562	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-3B		
Description			
Sample Id	7 5174563	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-4A		
Description			
Sample Id	8 5174564	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-4B		
Description			
Sample Id	9 5174565	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-5A		
Description			
Sample Id	10 5174566	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-5B		
Description			
Sample Id	11 5174567	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-6A		
Description			

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	12 5174568	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-6B		
Description			
Sample Id	13 5174569	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-7A		
Description			
Sample Id	14 5174570	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-7B		
Description			
Sample Id	15 5174571	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-8A		
Description			
Sample Id	16 5174572	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-8B		
Description			
Sample Id	17 5174573	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-9A		
Description			
Sample Id	18 5174574	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample	P415-9B		
Description			

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	19	Service	Service Name
	5174575	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-10A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	20	Service	Service Name
	5174576	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-10B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	21	Service	Service Name
	5174577	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-11A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	22	Service	Service Name
	5174578	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-11B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	23	Service	Service Name
	5174579	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-12A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	24	Service	Service Name
	5174580	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-12B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	25	Service	Service Name
	5174581	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-13A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	26 5174582	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-13B	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	27 5174583	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-14A	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	28 5174584	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-14B	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	29 5174585	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-15A	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	30 5174586	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-15B	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	31 5174587	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-16A	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	32 5174588	Service	Service Name
Date Sampled	08-17-2015	PCB2	B PCBs in soil or sediments
Priority	Normal	DISP	Environmental Disposal Fee
Sample	P415-16B	CTGM	B Chromatogram supplied
Description		CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron

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Lot ID: **1089483**

Number of Samples: 81

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Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	33	Service	Service Name
	5174589	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-17A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	34	Service	Service Name
	5174590	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-17B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	35	Service	Service Name
	5174591	PCB2	B PCBs in soil or sediments
Date Sampled	08-18-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-18A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	36	Service	Service Name
	5174592	PCB2	B PCBs in soil or sediments
Date Sampled	08-18-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-18B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	37	Service	Service Name
	5174593	PCB2	B PCBs in soil or sediments
Date Sampled	08-18-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-19A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	38	Service	Service Name
	5174594	PCB2	B PCBs in soil or sediments
Date Sampled	08-18-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-19B	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	39	Service	Service Name
	5174595	PCB2	B PCBs in soil or sediments
Date Sampled	08-18-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-20A	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	40 5174596	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-20B		
Sample Id	41 5174597	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-21A		
Sample Id	42 5174598	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-21B		
Sample Id	43 5174599	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-22A		
Sample Id	44 5174600	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-22B		
Sample Id	45 5174601	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-23A		
Sample Id	46 5174602	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-23B		

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Lot ID: **1089483**

Number of Samples: 81

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Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	47 5174603	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-24A		
Sample Id	48 5174604	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-24B		
Sample Id	49 5174605	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-1WA		
Sample Id	50 5174606	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-1WB		
Sample Id	51 5174607	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-2WA		
Sample Id	52 5174608	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-2WB		
Sample Id	53 5174609	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-3WA		

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Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	54 5174610	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-3WB		
Sample Id	55 5174611	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-4WA		
Sample Id	56 5174612	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-4WB		
Sample Id	57 5174613	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-5WA		
Sample Id	58 5174614	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-5WB		
Sample Id	59 5174615	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-6WA		
Sample Id	60 5174616	Service PCB2 DISP CTGM CCMEC TT44-noB	Service Name B PCBs in soil or sediments Environmental Disposal Fee B Chromatogram supplied B CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction CCME metals in soil no HWS Boron
Date Sampled	08-17-2015		
Priority	Normal		
Sample Description	P415-6WB		

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Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	61	Service	Service Name
	5174617	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-7WA	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	62	Service	Service Name
	5174618	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-7WB	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	63	Service	Service Name
	5174619	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-8WA	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	64	Service	Service Name
	5174620	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-8WB	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	65	Service	Service Name
	5174621	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD1	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	66	Service	Service Name
	5174622	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD2	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron
Sample Id	67	Service	Service Name
	5174623	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD3	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description		TT44-noB	by Cold Extraction CCME metals in soil no HWS Boron

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	68	Service	Service Name
	5174624	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD4	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	69	Service	Service Name
	5174625	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD5	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	70	Service	Service Name
	5174626	PCB2	B PCBs in soil or sediments
Date Sampled	08-17-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD6	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	71	Service	Service Name
	5174627	PCB2	B PCBs in soil or sediments
Date Sampled	08-18-2015	DISP	Environmental Disposal Fee
Priority	Normal	CTGM	B Chromatogram supplied
Sample	P415-BD7	CCMEC	B CCME Hydrocarbons: BTEX, F1-F4 in Soil
Description			by Cold Extraction
		TT44-noB	CCME metals in soil no HWS Boron
Sample Id	72	Service	Service Name
	5174628	HG	Total Hg
Date Sampled	08-18-2015	TW22	Total metals - water
Priority	Normal	PCB3	B PCBs in water
Sample	P415-1W	DISP	Environmental Disposal Fee
Description		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by
			GC/FID/MSD
Sample Id	73	Service	Service Name
	5174629	HG	Total Hg
Date Sampled	08-18-2015	TW22	Total metals - water
Priority	Normal	PCB3	B PCBs in water
Sample	P415-2W	DISP	Environmental Disposal Fee
Description		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by
			GC/FID/MSD

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	74	Service	Service Name
	5174630	HG	Total Hg
		TW22	Total metals - water
		PCB3	B PCBs in water
		DISP	Environmental Disposal Fee
		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-3W		

Sample Id	75	Service	Service Name
	5174631	HG	Total Hg
		TW22	Total metals - water
		PCB3	B PCBs in water
		DISP	Environmental Disposal Fee
		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-4W		

Sample Id	76	Service	Service Name
	5174632	HG	Total Hg
		TW22	Total metals - water
		PCB3	B PCBs in water
		DISP	Environmental Disposal Fee
		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-6W		

Sample Id	77	Service	Service Name
	5174633	HG	Total Hg
		TW22	Total metals - water
		PCB3	B PCBs in water
		DISP	Environmental Disposal Fee
		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-7W		

Sample Id	78	Service	Service Name
	5174634	HG	Total Hg
		TW22	Total metals - water
		PCB3	B PCBs in water
		DISP	Environmental Disposal Fee
		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-8W		

Sample Id	79	Service	Service Name
	5174635	HG	Total Hg
		TW22	Total metals - water
		PCB3	B PCBs in water
		DISP	Environmental Disposal Fee
		CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD
Date Sampled	08-18-2015		
Priority	Normal		
Sample Description	P415-BDW1		

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Sample Id	80	Service	Service Name
	5174636	HG	Total Hg
		TW22	Total metals - water
Date Sampled	08-18-2015	PCB3	B PCBs in water
Priority	Normal	DISP	Environmental Disposal Fee
Sample Description	P415-FB	CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD

Sample Id	81	Service	Service Name
	5174637	HG	Total Hg
		TW22	Total metals - water
Date Sampled	08-18-2015	PCB3	B PCBs in water
Priority	Normal	DISP	Environmental Disposal Fee
Sample Description	P2/P4-TB	CTGM	B Chromatogram supplied
		CCMEW	B CCME BTEX, F1,F2, F3 in water by GC/FID/MSD

Other Billable Services	Service	Service Name	Quantity
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Service Count

Service Name	Service Code	Service Quantity
CCME BTEX, F1,F2, F3 in water by GC/FID/MSD	CCMEW	10
CCME Hydrocarbons: BTEX, F1-F4 in Soil by Cold Extraction	CCMEC	71
CCME metals in soil no HWS Boron	TT44-noB	71
Chromatogram supplied	CTGM	81
Environmental Disposal Fee	DISP	81
PCBs in soil or sediments	PCB2	71
PCBs in water	PCB3	10
Total Hg	HG	10
Total metals - water	TW22	10

Notes

Note that due to required lower detection limit for PCB analysis in both water and soil the Nominal Detection limit was set to 0.05.

If required for invoice approval, please sign and return to the address indicated at the top of the page.

(Signature) _____

Confirmation of Service Request

Lot ID: **1089483**

Number of Samples: 81

Printed Date: Oct 06, 2015

Please verify the following service request. If you have corrections or questions, please contact Client Services.

Report Delivery Plan

Contact	Company	Address						
Andrew Passalis	SILA Remediation	350, rue Franquet Sainte-Foy, QC G1P 4P3 Phone: (204) 791-4938 Fax: (418) 653-3583 Email: andrew.passalis@gmail.com						
<table><tr><th>Copies</th><th>Delivery</th><th>Format</th></tr><tr><td>1</td><td>Email - Single Report</td><td>PDF</td></tr></table>		Copies	Delivery	Format	1	Email - Single Report	PDF	
Copies	Delivery	Format						
1	Email - Single Report	PDF						
Jean-Pierre Pelletier	SILA Remediation	250-1260 Boul Lebourgneuf Quebec, QC G2K 2G2 Phone: (581) 984-2585 Fax: Email: jean-pierre.pelletier@lvm.ca						
<table><tr><th>Copies</th><th>Delivery</th><th>Format</th></tr><tr><td>1</td><td>Email - Single Report</td><td>PDF</td></tr></table>		Copies	Delivery	Format	1	Email - Single Report	PDF	
Copies	Delivery	Format						
1	Email - Single Report	PDF						

Sample Integrity Scorecard

Lot ID: 1089483

Client: SILA Remediation

Agreement Name: Special Project - Cambridge Bay

PROCESS	DATA QUALITY
Was the waybill clearly filled in? Yes	Were the samples received within recommended holding times? Yes
Were the sample containers packaged well? Yes <i>If No, please explain:</i>	Were samples received in containers appropriate to the matrix and analysis required? Yes
Was the COC received? Yes	Were the expected number of samples received? Yes <i>If No, please explain:</i>
Was the COC filled in adequately and legibly? Yes <i>If No, please explain:</i>	Was the sample received in the prescribed temperature range? Yes <i>Please provide temperature °C:</i>
Was the COC received without damage? Yes <i>If No, please explain:</i>	Were all samples received intact (not damaged/broken)? No * <i>If No, please explain: 2 vials received broken</i>
Were Exova supplies used? Yes <i>If No, please explain:</i>	Were all samples received without adhesive tape sealing the lids? Yes <i>If No, please explain:</i>
Were the sample containers clearly labelled? Yes <i>If No, please explain:</i>	For water samples only, were they received without a noticeable layer of sediment? Yes <i>If No, please explain:</i>
	Was sufficient sample volume received? Yes <i>If No, please explain:</i>
	Were the samples submitted on sampling date? Yes <i>If No, please explain:</i>
Were non-conformance/verification notes entered into Sample Login for any of the above items that did not meet Exova's sample or COC requirements? Yes	

NON-CONFORMANCES

Process	0
Data Quality	1
TOTAL	1

Created by: Benjamin Morris

Date created: September 04, 2015

* is a non-conformance

ANNEX 2

QA/QC Discussion

QUALITY ASSURANCE / QUALITY CONTROL

Quality Assurance/Quality Control (QA/QC) program was implemented to monitor the quality of the analytical results. The main objective of this QA/QC program is to insure that sampling data and analysis results are complete, precise, exact, representative and comparable. The review consisted of evaluating sample collection/handling methodology, general laboratory comments, field (blind) duplicate samples, and inter-laboratory duplicate samples.

1. LABORATORIES

Samples collected during the monitoring program were submitted to laboratories accredited by the Canadian Association for Laboratory Accreditation (CALA):

- **Main Laboratory**
EXOVA
7217 Roper Road NW
Edmonton, Alberta
T6B 3J4, Canada
CALA Registration number: 2602
- **Quality Assurance Laboratory**
Maxxam Analytics International Corporation
o/a Maxxam Analytics Edmonton
9331 - 48th Street T6B 2R4
CALA Registration number: 2996

2. FIELD QA/QC

Standard sample collection techniques were implemented to decrease the likelihood of compromising collected samples, such as:

- Pre-cleaned sample containers were provided by the laboratory.
- Monitoring equipment was decontaminated between sampling stations and dedicated sampling systems were utilized.
- Soil samples were placed directly in the laboratory provided jars/bottles and were not mixed.
- Disposable nitrile glove were worn and disposed of after each sample collection.
- Jars/bottles were cleaned prior to placement into the cooler.
- Water samples were collected using low flow methods (peristaltic pump) and the use of dedicated tubing.

- Ice Packs or bagged ice (Ziplock bags) were used to ensure that sample temperature would be kept below 10°C during transportation.
- Samples were kept at the laboratory at temperatures below 4 °C.

A sample integrity report from Exova is provided in Annex 1. This report indicates that all samples received were acceptable for analysis. It should be noted that some PHC analyses were performed after method recommended holding time (Fractions F1 to F4 Fractions for Maxxam). The duplicate samples were collected by homogenizing and splitting the respective soil sample into four sample container sets, including: the primary sample, inter-laboratory duplicate, intra-laboratory duplicate and archival sample. With the exception of the archival sample, all primary and duplicate samples were submitted for the same analyses. As outlined in the TOR and Section 2.2, the number of duplicate and archival samples represented a minimum of 10 % of the overall sample set

The following is a summary of the analytical QA/QC procedure implemented in the field:

- 10 % field Blind Duplicate Samples of soil and water were sent to Exova: seven blind duplicate soil samples (P415-BD1 through P415-BD7) and one blind duplicate groundwater sample (P415-BDW1) were submitted, as an independent check on data reproducibility, and to assess the field QA/QC protocols. One field blank (P415-FB) and one travel blank (P2/P4-TB) were submitted for analysis.
- 10 % Inter-laboratory Duplicate Samples were sent to Maxxam: seven blind duplicate soil samples (P415-3WB, P415-8WA, P415-4A, P415-21A, P415-15A, P415-12A and P415-23B) and one blind duplicate groundwater sample (P415-3W) were submitted (to determine if variation in procedures may cause significant difference in analytical results).
- 10 % Archival Samples of soil were sent to ESG.

3. LABORATORIES QA/QC

Quality assurance documents from Exova indicate that the soil samples were in the following batches:

- Batch 1471973 for mercury
- Batch 1471965 for metals
- Batch 1470955 for PCBs
- Batches 1470931 and 1470934 for TPH

The water samples were analyzed was analyzed the following batches:

- Batch 1471574 for mercury
- Batches 1471255 and 1471254 for metals
- Batch 1470969 for PCBs
- Batch 1470967 for TPH

Quality assurance documents from Maxxam indicate that the soil samples were in the following batches:

- Batch 80343278034327 for metals
- Batch 4188130 for PCBs
- Batch 80335440 for PHC Fraction F1
- Batch 8032413 for PHC fraction F2-F3

The water samples were analyzed was analyzed the following batches:

- Batch 8032674 for most metal
- Batch 8031761 for mercury
- Batch 4186524 for PCBs
- Batch 8030280 for PHC fraction F1
- Batch 8031163 for PHC fraction F2-F3

4. DATA MANAGEMENT AND INTERPRETATION

4.1. FIELD WORK

The relative percent difference (RPD) is used to evaluate the sample result variability. RPD values of 30 % for each parameter analyzed from the same laboratory are considered an indication of acceptable duplicate sample variability. For soil samples (and especially for metal parameters),

a RPD greater than 30 % may be the result of:

- Sample heterogeneity. Even though mixing of sub-samples was performed, it is still possible that the soil was not perfectly homogenous prior to placement in jars.
- Metal particles in the sample would make the sample heterogeneous and therefore a lot of variability for some specific elements (the metals would be present as flecks and would not be a part of the soil matrix – this creates a high level of variability in the sample). Notice that the results are very low and well below any guideline limit so these flecks may not even be visible or may just be a part of the soil material.

- A third possibility is the digestion. It is possible that there are slight variations to the acid digestion which could lead to a higher extraction of certain recalcitrant elements. Chromium does tend to be one of those recalcitrant elements. Nickel generally does not fall in this category but if the chromium and nickel are together in a compound, this may be possible.

For groundwater samples, a RPD greater than 30 % may reflect difference in sample turbidity or natural variability. These performance criteria are applicable when the concentrations of the original and duplicate sample are five times or greater than the laboratory method detection limit, since the uncertainty increases dramatically as the concentration approaches the detection limit. Table I provides the detection limit for each parameter and the associated minimum concentration to be reached in order to be eligible for RPD calculation.

Table I: Minimum Concentration for QA/QC RPD Calculation

Parameter	Laboratory	Soil			Water		
		Units	MDL	RPD Minimum*	Units	MDL	RPD Minimum*
As	Exova	mg/kg	0.2	1.0	mg/L	0.0002	0.0010
	Maxxam	mg/kg	1.0	1.0	mg/L	0.0002	0.0010
Cd	Exova	mg/kg	0.01	0.05	mg/L	0.00001	0.00005
	Maxxam	mg/kg	0.10	0.05	mg/L	0.00002	0.00010
Cr	Exova	mg/kg	0.5	2.5	mg/L	0.0005	0.0025
	Maxxam	mg/kg	1.0	1.0	mg/L	0.0010	0.0050
Co	Exova	mg/kg	0.1	0.5	mg/L	0.0001	0.0005
	Maxxam	mg/kg	1.0	0.5	mg/L	0.0003	0.0015
Cu	Exova	mg/kg	1.0	5.0	mg/L	0.0010	0.0050
	Maxxam	mg/kg	5.0	1.0	mg/L	0.0002	0.0010
Pb	Exova	mg/kg	0.1	0.5	mg/L	0.0001	0.0005
	Maxxam	mg/kg	1.0	0.5	mg/L	0.0002	0.0010
Ni	Exova	mg/kg	0.5	2.5	mg/L	0.0005	0.0025
	Maxxam	mg/kg	1.0	1.0	mg/L	0.0005	0.0025
Zn	Exova	mg/kg	1	5	mg/L	0.001	0.005
	Maxxam	mg/kg	10	10	mg/L	0.003	0.015
Hg	Exova	mg/kg	0.01	0.05	mg/L	0.000005	0.000025
	Maxxam	mg/kg	0.05	0.05	mg/L	0.000020	0.000100
Total PCBs	Exova	mg/kg	0.05	0.25	mg/L	0.00005	0.00025
	Maxxam	mg/kg	0.01	0.05	mg/L	0.00005	0.00025
PHC F1	Exova	mg/kg	10	50	mg/L	0.1	0.5
	Maxxam	mg/kg	12	60	mg/L	0.1	0.5
PHC F2	Exova	mg/kg	40	200	mg/L	0.10	0.50
	Maxxam	mg/kg	10	50	mg/L	0.1	0.5
PHC F3	Exova	mg/kg	40	200	mg/L	0.1	0.5
	Maxxam	mg/kg	40	200	mg/L	0.2	1.0

* : The RPD Minimum is the minimum concentration to be reached for QA/QC Relative Percent Difference Calculation

4.1.1. SOIL SAMPLES

Seven blind duplicate soil samples were submitted for intra- and inter-laboratory comparisons. The original and duplicate intra- and inter-laboratory metal, PCB and PHC soil sample results are summarized in Tables II, along with the calculated RPD for each parameter. As noted in the tables, several of the results from the original and/or duplicate samples were below or within five times the laboratory method detection limits, and therefore RPD values were not calculated for these parameters.

Review of results indicated relatively minor differences in most metal concentrations within the intra-laboratory duplicate samples (highest RPD calculated at 50.0 % for arsenic (BD1) and zinc (BD6)).

Results from the inter-laboratory duplicate samples shows that the acceptance criterion was exceeded for chromium (71.2 %) and copper (51.7 and 52.9 %). With the exception of a few RPD values, the intra- and inter-laboratory samples show good coherence with average RPD values of 12.6 % and 14.5 %, respectively.

4.1.2. WATER SAMPLES

One blind duplicate groundwater sample (P415-BDW1 / P415-3W) was submitted for intra- and inter-laboratory comparisons. The original and duplicate intra- and inter-laboratory metal, PCB and PHC sample results are summarized in Table III, along with the calculated RPD for each parameter. As noted in the table, all organic parameters from the original and/or duplicate samples were below or within five times the laboratory method detection limits, and therefore RPD values were not calculated for these parameters.

Review of the results indicated minor differences in most metal concentrations and calculated RPD values between the original and intra-laboratory duplicate sample (between 2.5 and 4.4 %).

Review of the inter-laboratory duplicate results also indicated minor differences in concentrations and calculated RPD values for chromium (59.7 %), nickel (17.9 %) and zinc (13.8 %).

Overall, the soil and groundwater sample results are coherent and within the same range of results for intra- and inter-laboratory samples. The analytical results are considered to be acceptable and representative of the site conditions. The results also validate the field QA/QC procedures.

The results from field blank sample (P215-FB) and travel blank sample (F2/F4-TB) that were submitted for metals, PCB and PHC analyses are also summarized in Tables III. All parameter concentrations were below the detection limit, with the exception of zinc, which was detected at a concentration of two times the detection limit in both the travel and field blank samples. Zinc concentration detected probably originated from the water provided by the laboratory.

4.2. LABORATORIES

QA/QC results from both laboratories do not raise any concern or provide any explanation concerning the concentration difference noticed in the inter-laboratory duplicate samples.

It should be noted that inter-laboratory variations are common. QA/QC results from both laboratories are appended.

4.2.1. BLANKS

All blanks from both laboratories, for both matrices and for all parameters were below the detection limits.

4.2.2. ANALYTICAL DUPLICATES

All analytical duplicates from both laboratories, for both matrices and for all parameters had RSD's at or below 20 %.

4.2.3. CONTROL SAMPLES

All control samples from both laboratories, for both matrices and for all parameters had concentrations between the upper and lower concentration established for each parameter.

Table II: Soil Chemical Analysis Results - Quality Assurance Samples

Sample #	Laboratory	Parameters										F1 C ₆ -C ₁₀ [mg/kg]	F2 C ₁₀ -C ₁₆ [mg/kg]	F3 C ₁₆ -C ₃₄ [mg/kg]
		As [mg/kg]	Cd [mg/kg]	Cr [mg/kg]	Co [mg/kg]	Cu [mg/kg]	Pb [mg/kg]	Ni [mg/kg]	Zn [mg/kg]	Hg [mg/kg]	PCBs [mg/kg]			
MDL (Exova)		0.2	0.01	0.5	0.1	1.0	0.1	0.5	1	0.01	0.05	10	40	40
RPD Minimum (Exova)		1.0	0.05	2.5	0.5	5.0	0.5	2.5	5	0.05	0.25	50	200	200
MDL (Maxxam)		1.0	0.05	1.0	0.5	1.0	0.5	1.0	10	0.05	0.01	12	10	50
RPD Minimum (Maxxam)		5.0	0.25	5.0	2.5	5.0	2.5	5.0	50	0.25	0.05	60	50	250
Intra-Lab Duplicate Samples (Exova)														
P415-3WA	Exova	1.8	<0.01	11.2	6.5	28.9	3.9	11.7	18	<0.01	<0.05	<10	<40	<40
P415-BD1		3.0	0.03	10.6	6.7	36.4	4.9	12.6	22	<0.01	<0.05	<10	<40	<40
Relative % Difference		50.0	N/A	5.5	3.0	23.0	22.7	7.4	20.0	N/A	N/A	N/A	N/A	N/A
P415-8WA	Exova	4	0.06	14.2	4.9	12.1	16.1	13.5	17	0.01	<0.05	<10	<40	<40
P415-BD2		5.1	0.07	15.5	5.8	12.9	20.9	14.9	16	0.01	<0.05	<10	<40	<40
Relative % Difference		24.2	15.4	8.8	16.8	6.4	25.9	9.9	6.1	0.0	N/A	N/A	N/A	N/A
P415-4A	Exova	4.1	0.02	13.3	3.3	9.2	14.5	9.0	3	<0.01	<0.05	<10	<40	<40
P415-BD3		3.5	0.02	12.9	3.3	9.8	14.6	8.9	4	<0.01	<0.05	<10	<40	<40
Relative % Difference		15.8	0.0	3.1	0.0	6.3	0.7	1.1	28.6	N/A	N/A	N/A	N/A	N/A
P415-21A	Exova	3.6	0.03	11.9	5	9.8	8.0	14.3	7	0.01	<0.05	<10	<40	<40
P415-BD4		3.7	0.03	12.4	5.4	10.8	8.4	13.8	8	0.01	<0.05	<10	<40	<40
Relative % Difference		2.7	0.0	4.1	7.7	9.7	4.9	3.6	13.3	0.0	N/A	N/A	N/A	N/A
P415-15A	Exova	3.9	0.04	14.3	5.4	10.6	9.7	10.9	7	0.02	<0.05	<10	<40	<40
P415-BD5		3.9	0.04	13.2	5.5	11.9	9.8	12	8	0.01	<0.05	<10	<40	<40
Relative % Difference		0.0	0.0	8.0	1.8	11.6	1.0	9.6	13.3	66.7	N/A	N/A	N/A	N/A
P415-12A	Exova	2.8	0.07	6	2.2	5.7	4.9	8.3	6	0.02	<0.05	<10	<40	85
P415-BD6		3.0	0.09	6.2	2.2	8.2	6.7	5.1	10	0.03	<0.05	<10	<40	<40
Relative % Difference		6.9	25.0	3.3	0.0	36.0	31.0	47.8	50.0	40.0	N/A	N/A	N/A	N/A
P415-23B	Exova	1.6	0.05	12.6	5	25.3	4.0	12.6	14	<0.01	<0.05	<10	<40	<40
P415-BD7		1.6	0.07	11.7	4.7	29	3.7	14	14	<0.01	<0.05	<10	<40	<40
Relative % Difference		0.0	33.3	7.4	6.2	13.6	7.8	10.5	0.0	N/A	N/A	N/A	N/A	N/A
Inter-Lab Duplicate Samples (Exova-Maxxam)														
P415-3WB	Exova Maxxam	1.9 1.2	0.01 <0.050	11.4 24	7.2 5.7	30.3 26	3.6 3.2	13.1 15	18 17	<0.01 <0.050	<0.05 <0.01	<10 <10	<40 <50	<40 <50
Relative % Difference		45.2	N/A	71.2	23.3	15.3	11.8	13.5	5.7	N/A	N/A	N/A	N/A	N/A
P415-8WA	Exova Maxxam	4 3.6	0.06 0.071	14.2 14	4.9 4.8	12.1 14	16.1 17	13.5 12	17 17	0.01 <0.050	<0.05 0.015	<10 <10	<40 <50	<40 <50
Relative % Difference		10.5	16.8	1.4	2.1	14.6	5.4	11.8	0.0	N/A	N/A	N/A	N/A	N/A
P415-4A	Exova Maxxam	4.1 3.0	0.02 <0.050	13.3 16	3.3 3.3	9.2 10	14.5 15	9.0 9.9	3 <10	<0.01 <0.050	<0.05 <0.01	<10 <10	<40 <50	<40 <50
Relative % Difference		31.0	N/A	18.4	0.0	8.3	3.4	9.5	N/A	N/A	N/A	N/A	N/A	N/A
P415-21A	Exova Maxxam	3.6 3.1	0.03 <0.050	11.9 12	5 4.9	9.8 11	8.0 8.3	14.3 13	7 <10	0.01 <0.050	<0.05 <0.01	<10 <10	<40 <50	<40 <50
Relative % Difference		14.9	N/A	0.8	2.0	11.5	3.7	9.5	N/A	N/A	N/A	N/A	N/A	N/A
P415-15A	Exova Maxxam	3.9 3.2	0.04 <0.050	14.3 13	5.4 4.9	10.6 18	9.7 11	10.9 10	7 <10	0.02 <0.050	<0.05 <0.01	<10 <10	<40 <50	<40 <50
Relative % Difference		19.7	N/A	9.5	9.7	51.7	12.6	8.6	N/A	N/A	N/A	N/A	N/A	N/A
P415-12A	Exova Maxxam	2.8 2.5	0.07 0.11	6 5.5	2.2 2.4	5.7 9.8	4.9 6.2	8.3 5.5	6 <20	0.02 <0.050	<0.05 <0.02	<10 <10	<40 <50	85 <50
Relative % Difference		11.3	44.4	8.7	8.7	52.9	23.4	40.6	N/A	N/A	N/A	N/A	N/A	N/A
P415-23B	Exova Maxxam	1.6 <1.0	0.05 0.051	12.6 12	5 4.5	25.3 26	4.0 3.5	12.6 11	14 15	<0.01 <0.050	<0.05 <0.01	<10 <10	<40 <50	<40 66
Relative % Difference		N/A	2.0	4.9	10.5	2.7	13.3	13.6	6.9	N/A	N/A	N/A	N/A	N/A

Table III: Groundwater Chemical Analysis Results - Quality Control Samples

Sample #	Laboratory	Parameters												
		As	Cd	Cr	Co	Cu	Pb	Ni	Zn	Hg	PCBs	F1	F2	F3
		[mg/L]	[mg/L]	[mg/L]	[mg/L]	[mg/L]	[mg/L]	[mg/L]	[mg/L]	[mg/L]	[mg/L]	C ₆ -C ₁₀ [mg/L]	C ₁₀ -C ₁₆ [mg/L]	C ₁₀ -C ₃₄ [mg/L]
MDL (Exova)		0.0002	0.00001	0.0005	0.0001	0.0010	0.0001	0.0005	0.001	0.000005	0.00005	0.1	0.1	0.1
RPD Minimum (Exova)		0.0010	0.00005	0.0025	0.0005	0.0050	0.0005	0.0025	0.005	0.000025	0.00	0.5	0.50	0.5
MDL (Maxxam)		0.0002	0.00002	0.0010	0.0003	0.0002	0.0002	0.0005	0.003	0.000002	0.00005	0.1	0.1	0.2
RPD Minimum (Maxxam)		0.0010	0.00010	0.0050	0.0015	0.0010	0.0010	0.0025	0.015	0.00001	0.00025	0.5	0.5	1.0
Intra-Lab Duplicate Samples (Exova)														
P415-3W	Exova	<0.0004	0.00002	0.0081	0.0072	0.0100	<0.0002	0.0418	0.062	0.000005	<0.00005	<0.1	<0.1	<0.1
P415-BDW1		0.0004	0.00003	0.0079	0.0072	0.0090	<0.0002	0.0401	0.060	<0.000005	<0.00005	<0.1	<0.1	<0.1
Relative % Difference		N/A	N/A	2.5	0.0	10.5	N/A	4.2	3.3	N/A	N/A	N/A	N/A	N/A
Inter-Lab Duplicate Samples (Exova-Maxxam)														
P415-3W	Exova Maxxam	<0.0004	0.000020	0.0081	0.0072	0.0100	<0.0002	0.0418	0.062	0.000005	<0.00005	<0.1	<0.1	<0.1
		0.00028	0.000058	0.0150	0.0076	0.0095	<0.0002	0.0500	0.054	0.0000073	<0.00005	<0.1	<0.1	<0.2
Relative % Difference		N/A	N/A	59.7	5.4	5.1	N/A	17.9	13.8	N/A	N/A	N/A	N/A	N/A
P415-FB	Field Blank	<0.0002	<0.00001	<0.0005	<0.0001	<0.001	<0.0001	<0.0005	0.002	<0.000005	<0.00005	<0.1	<0.1	<0.1
P2/P4-TB	Travel Blank	<0.0002	<0.00001	<0.0005	<0.0001	<0.001	<0.0001	<0.0005	0.002	<0.000005	<0.00005	<0.1	<0.1	<0.1

ANNEX 3

Field Notes and Chain of Custody Forms

(12)

- 161 metal strapping
 162 2 pieces of strapping
 163 misc rusted metal
 164 V-NW/E @ TDE
 165 PAN @ CREST
 166 L.W. DEPRESSIONS SLOPE, 3mL, 15w
 x 5m7. V-S/E, ROCK PUSH
 167 U-NW @ TDE MID SLOPE
 168 U-NW @ TDE
 169 V-SE/W @ NE TDE
 170 V-NE/SEC CREST

NO VET - ALL TYPE 1.

171 misc metal.

172 misc metal near toe.

DEPART SITE @ 6:30 PM.
 ARRIVE BACK @ 8:00 PM.

MRS B. 8 - 2 HRS.

(13)

AUGUST 16, 2015 AM-M

174 - TA4. TIER II DS.

9°C, 40m/h NW, RAINY
 Change batts 06/21

175 - TA3 download
 change batts 06/21

176 - TA1 download
 change batts 06/21

177 - TA2 download
 Change batteries
 ALL OL
 BATTERIES
 ULB-5.

* ALL ULB1 3 ULB-15

MAIN LF NORTH

VT-1
 178 OLD-ULB 15

ITN-1 2 CABLES A/B.

179 change batteries OLD-ULB-15

KATE 2 HRS
 JDE/SUE 6 HRS
 GORDON 4 HRS

PACKUP FOR BYRON BAY.

HOLD FOR PLANE DEPART YCRC @ 6:30

ARRIVE 7:00

UNPACK SET UP CAMP @ CORNER OF
 ARRON 9:00 PM

3 WOLVES @ THE SITE 9:45 PM chase
 them away, warning shot
 LEVEL

(14)

BYRON BAY, PIN-4 -10°C

AUG 17, 2015 8°C OVERCAST,

PER LT. RAIN 30-40 km/h. N

180 CAMP

NW LANDFILL - NO TAGS

181 - PA-4AB (2, EXISTING TFS)

10 BD3 PINTER (A) LT BRN SANDY SILT DAMP

LOBE D

182 V-SE/N-OSW CRNR, SEE VEZ

ALONG S+W SIDES

W-SPARSE, S-med.

183 V-NE

184 - 2 small potholes V-N/W

30x30x5"

185 V-W/S E NE CRNR

186 PA-5AB Blw lobes, BRKN ROCK

187 V-N/NW/PAN. @ SE CRNR

188 PA-3AB - LOBE

189 V-NW @ LOBE D

LOBE C

190 V-E/N, PAN + SPARSE veg across

most of lobe

191 V-S/E @ NW CRNR

192 V-W/S, PAN

193 V-N/W, NO VEG ON E SIDE

LOBE B

(15)

194 - PA-1AB VERY LITTLE SILT (12%)

195 V-W/SW E-E CRNR

196 V-NE/SW / PAN, NOTE VEZ, PATCHY

197 V-ENE/NW / PAN, Dense veg
ON SW CRNR

198 PA-3 BLK ORG + BRKN ROCK

199 PA-2 0-10 BLK/ROCK
10+ BLK BRN SANDY CRAN/S

200 V-S/E

EVID. OF SCAT ON LF COVER

201 V-E/S. 2 small potholes

15x15x2.5" SAME

202 V-ENE/WSW-
MINOR EROS, SELF ARM
NEG LIGRE ALONG TOE

NORTH LANDFILL

LOBE C

203 PA-12A/B A-BD6 + PINTER

0. BLK CRG + TR. STG 15 BRN STG

204 PA-11A/B

205 V-W/S, PAN. @ NE CRNR

206 MIN EROS 4m x 10m 1-3 V-N/W

207 " " EXIST " " V-N/E

BOTH SELF ARM

208 V-S/E / PAN

209 MIN EROS ON SW PL, PINES V-S/E

see track 2m, 0.2-0.4, 2-34 LEVEL

(16)

- 209 V-N/E @ SW CNR
 210 V-ESE @
 211 V-W/N / PAN @ SE CNR
 212 P4-11 A/B 0.25 BK ORG + ROCK
 25-50 DK BRG STG, TR ORG

NO VEG

LOBE B: REFUSAL 20 B-0-20

- 213 P4-6 A/B BRN SAND W/ROCK

- 214 V-NE/NW

- 215 V-E @ EROSION 5 ML, 20-50 W,
 10-15 L; PAN. V. NEW below.

- 216 V-SE @ 232 V-NE, V-E Refake
 W BOOK

- 217 V-S

- 218 V-NW @ EROS. SIDE SLOPE
 3 ML, 30 W X 15 L

(NEW) RILL FROM THE PUSHED TYPE 1-UP.

- 219 PAN W/SE

- 220 V-ESE @ SLOPE BREAK
 ROUGH GRADING ACROSS SLOPE, MINOR

MOVEMENT OF TYPE 1, NO OBS. EROS.

- 221 V-S from Rd.

- 222 P4-7 A/B BRN GRAVEL, SOME SAND

- 223 P4-8 A/B BRN STG

- 224 PAN NW/S

- 225 V-NW/N

- 226 V-SW @ RILL 3 ML, 20-100 W,
 10-15 L

(17)

LOBE A

- 227 V-SSE

- 228 V-E along toe

- 229 V-SW/SE @ ORG + VEG (3)

good VEG @ toe, sparse up slope

- 230 V-SW @ SLOPE (ORG)

- 231 OLD TP (TAG 15244)

- 232 V-W @ ORG EDGE, N.E. VEG @ toe

- 233 P4-9 A/B BRN GRAVEL, SOME SAND

P4-10 A/B 28m from E-TOE

BRN ROCK (GRAV + CBLS, TR SAND + ORG)

- 233 V-W @ UPSLOPE, POSS SETTLEMENT
 OF TYPE 1 @ TOE/SLOPE 5m X 30-50,
 10-15 L SAME.

- 234 V-E/SW

- 235 V-E NE, PAN N-SW

- 236 V-SE @ MINOR EROS. SAME

- 237 - NW 12 ML, 0.1 x 1-2c

- 238 - V-NW/NW @ S CNR

- 239 PAN SE-N

- 240/41 V-SW/SE/N @ SLOPE

LEVEL

(18)

NMWLF

(19)

* 242 MW-5 dia 0.33m 3m SE-
 dry bott. 1.67. slip 49.
 brn gravel, some sand, dry

243 3 Pieces of metal - Same
 + 2 - 5 pieces

244 V-NW/SW @ toe

245 V-NW/SW PAN @ E CORN

sparse veg across cover

246 DEPR BELOW CRST 1mL x 25 x 5-74
 V-NE/SE

247 LIN DEPR. 0.7 x 3 x 104 V-NW/SW

248 V-SE/SW PAN @ N-CORNER

ALSO EROS/SETTL. LIN @ CRST

1.5mL, 10.15w x 54 V-NW

* 249 MW-8 (A) BDZ dia 5cm BRN
 168 bott. 236 slip 62-23

250 V-SW @ NE SIDE

251 V-SW/SE @ N TOE

252 V-SE @ NW SIDE

253 V-NE/SE @ W TOE

* 254 MW-7 2m N. BUL CRG + ROCK

161 bott. 362 slip 56-14

255 V-NE/SE / PAN

256 V-N, W, S, E - NOTE VEG

257 LIN DEPR 3m x 15w x 54

V-NW/NE

258 V-NE @ SEW SIDE

* 259 MW-6 2.5m N A/B

147.5 bott. 198 slip 61-15

260 V-NW/NE @ S TOE

261 V-NW/NE / PAN @ S CORN

V-SE DOZER tracks/ruts. 4x 60x 54

STATION AREA LANDFILL-WEST

* PA-13 A/B LOCATE ESC. BOTTLES @ SITE
 From 2013 BRN. CRG + COLES, SOME S

262

263 V-NW ALONG N SIDE ST RD.

265 V-SE/N

266 POT HOLE 50 x 30 x 104 V-E/N

267 MIN EROS ALONG TOE - F-23

V-SE/NW 10m + 10w x 124

268 PAN SW-SE

269 V-SE

LEVEL

(20)

270 POT HOLE - SAME 0.4x0.6x0.1 ↓
V-W/E/S

271 V-E/W - MIN EROS - 4 cm ↓
ALONG TOE - ~~NO~~ SWEEP CRAY

↳ 272 barely visible

273 STAIN AREA, 75x30. V-N

274 LIN DEPR 5m x 0.3m x 35 ↓
V-NE/SE

275 - P4-17A/B. BRN GRAV + CR LBS, TR
JAND

276 - V-SE/SW

277 P4-16-A/B
O-BUK OR LTRCK

278 V-NE/SE @ W TIP

280 LIN DEPR IN TYPE 1, 1m x 40 x 5 ↓

281 V-NE/NW

279 P4-15 A/B BRN SILT +
SAND
↳ B D S

28 PAN NE-NW, TYP VER. SPARSE

282 DEPR CREST 2x0.5-1.0, 0.05-0.15
V: NW/NE

283 V-N-NE ALONG SE SIDE

284 DEPR CREST 2x0.5x10 ↓ SE/SW
V-SW

(21)

285 - P4-14 A/B

286 - NE/SEV NW @ MIN
EROS OF PINES 1 cm ↓

287 PAN E-NW

288 LIN DEPR TOWARDS P4-14
V-SW/NE → 289 5mL, 20m
5 ↓

290 - V-SW LIN DEPR 4m L, SAME
ORIENT., 2m apart

291 OCCASIONAL SINGLE VER. ON LF SURFACE
+ SIDE SWEEP

292 V-WNW ALONG S SIDE OF LF

293 TIER 1 DEPR

293 MW 1. 2.2m E

1.22 both 2.28 8/UP 54
DK BRN S+G

294 V-SW

295 V-SW/NE TOE

296 V-SW, PAN E-NE CRNR

NOTE VER. ON COVER, SPARSE + PATCHY

297 DEPR 1m below crest
60x50x10 ↓ V-E, N

LEVEL

(22)

298 DEPR. @ CRST IN. ORG., 80Lx20x

5L, V-N.

299: V-W, N, PAN, SE/E DEPR.

BELOW CRST 1.5x2x0.1 SAME

301 VT-2-1 V-N.

302 VT-1 V-S.

303 V-S.E. N SIDE

304 V-E/S. E NW TOE

305 V-E/S 1 PAN @ NW CRST

306 VT-3 V-S.

307 VT-4 V-N.

308 V-N/E, PAN @ SW CRNR

309 DEPR. @ CRST 0.5x0.15x5L
SAME - V-S/W.

310 MW4 13/4"

2.5m W. D.K. BRN CRNR, note

74. bot. 229 SWP 38

311 V-E @ WEST SLOPE

312 V-E @ SW TOE

313 P4-3W A(B) → BDI 13/4"

BRN SANDY SILT/SILTY SAND w/G

96 bot. 252 SWP 48

314 V-N @ S SIDE.

(23)

315 V-W/S.E. SE TOE

316 MW-2 SURROUNDING 184.2

10-20", 56-S/W 2m N.

56 bot. 177

blk org. difficult sample below

317 V-SW @ ponding on SE CRNR

318 shien-bact @ toe (E side)

2L IRON STAINING 1.5m x 30

V-SE/NW

319 FORMER EROSION NOT VISIBLE

320 EROSION CRST MW02.

0.1-0.2, 0-5 cm.

V-E/W/W. 1 LTR

VT-4 SAND-S (FROM INST.) slope.

321 Loc. depression N of VT-4

50x30 11 EW x 12L V-W/N

REINSTALL DATALOGGER, VT-2

DOWNLOAD VT-1, 3, 4. OTHER DI

HRS. 7-5 : 10 HRS.

KALF - 12 HRS.

LEVEL

(24)

AUGUST 18, 2015

9°C, OVERCAST

AIRSTRIKE LF

322 - P4-22A/B
 20 BRN STG.

SPARSE VEG ACROSS MOST OF COVER,
 W. HEAVIER ON SE + E SIDES.

323 V-SE

324 V-SW @ N SLOPE

325 V-NW @ E END

326 V-NW @ WATER @ SE TOE

10-25' further out

327 PAN: NE-NW, V-S @ V.

AREA S OF LF HAS WATER, PATCHY IN

LOWES, V-NW from SE CORN

328 V-S/W @ NE CORN
 MINOR IRON IN POND
 AWAY FROM TOE

329 - P4-23A/B - BDF

0-15 BRN ORG FIBROUS @ R40

15-GRAY SILT, SOME STG.

330 V-E/N, PAN., V-SW @ V

PONDING ON CORNER IN CONTACT

W/ TOE, NO SPANNING

331 P4-24 A/B

0-LT BRN GRM SANDY SILT, TR
 ORG @ 0-5.

332 BACT. SHEEN @ TOE 4m x 2m OUT

333 V-N/E 1.3 x 0.6 x 15-20'

334 V-NE @ CRACK (START @ CRACK)
 14m L, INFILLED COMPLETELY

335 V-SW @ MIN GROS., ~~BE~~ SELF-FILL

(see veg) L-336 V-NE, 10W; 2-5' ↓ 7m L.
 CRACK ON SE CAN NOT VISIBLY

USAF LANDFILL

337 V-NE/NW @ S CORN

338 V-NE/SE @ E END

339 V-NE/SW @ E. Q.

340 START OF CRACK V-SE/NW

3m L, 2-3cm W, p. infilled

3cm ↓?

341 V-SW/SE

342 V-S

343 V-SW

344 P4-19A/B: BRN STG + CRACKS

345 PAN- NE-W @ SEEPAGE

346 START OF SEEP (EAST), ALGAL
 ON LOWER TIER (2.5m W) 3m L.
 V-SW

LEVEL

(26)

347 2 PCKHS OF ALUM 1m x 30w

348 W. END OF SEEPAGE V-NE

349 V. NNE P SEEP

350 V-SE FROM TOP RIDGE

351 P4-18 A/B. UPC GRADIENT

352 P4-21 (A) B BD4

MHWLF

MW-6

T 1.1 / 1.0 / 0.9 ✓

COND 632 / 642 / 650

PH 8.1 / 8.2 / 8.1

TURB 54.0 / 18.8 / 11.8 ✓

COLLECT 2x1L, 1x250pL, 4x40

TOTAL

VOL - 1800

C+C

MW-7

T 4.3, 4.3, 4.3

COND 636, 634, 630

PH 8.1, 7.8, 7.7

TURB 3.69, 1.26, 0.71

COLLECT 2x1L, 1x250pL, 4x40

TOTAL

VOL - 4800

C+C

MW-8

T 2.2, 2.3, 1.1, 1.0

COND 458, 496, 552, 566 TOTAL 1800

PH 8.2, 8.7, 9.1, 9.2

TURB 3.80, 11.8, 10.2 C+C

COLLECT 2x1L, 1x250pL, 4x40

SLOW RECHARGE

~75-100 m/y

TIER II DF

MW-1

2" φ

T 2.7, 3.4, 3.7, 4.0

COND 1084, 7.73, 608, 541, 536

PH 7.9, 8.0, 8.0

TURB 9.17, 6.72, 5.14

COLLECT 2x1L, 1x250pL, 4x40

TOTAL

VOL - 3500

C+C

MW-4

1 3/4" φ

T 4.9, 5.0, 5.3 ✓

COND 1929, 1438, 1385, 1384

PH 7.6, 7.0, 7.7

TURB 17.1, 31.2, 20.9

COLLECT 2x1L, 1x250pL, 4x40

TOTAL

VOL - 3600

C+C

LEVEL

(20)

MW-3 13/4" + BDW1:
 T 18, 1.9, 1.9 + BW (MAXXAM)
 COND 352, 350, 352
 PH 7.5, 7.4, 7.3
 TURB. 10.1, 3.71, 3.43

TOTAL

VOL-

\$600

C+C

COLLECT 6x1L, 2x250AM
 3x250PC; 11x40

~~ADT-15~~ FB FIELD BLANK
 ALL BOTTLES

MW-2. 13/4"
 T 4.6, 4.0, 3.9, ✓
 COND 2.11, 2.23, 2.56, 2.61
 PH 7.6, 7.4, 7.3
 TURB. 45.6, 29.8, 22.6

TOTAL

VOL-

2,500

C+C

COLLECT 3 2x1L, 1x250PL, 4x40.

P2/P4-TB TRAVEL BLANK

PACK UP CAMP - PHOTO OF CAMP
 1:00-2:30 SITE

IN EB @ 4 pm

GET FUEL + SUPPLIES FOR CAM-2
 PACK P2/P4 SAMPLES FOR
 SHIP OUT / ICE

(29)

P215-2WA

P215-2W +

P415-4A-BD3

- 12A BD6

- 8WA BD2

- 15A-BD5

- 3WA-BD1

- 23B-BD7

- 21A-BD4

P415-3W

August 19, 2015

Ship 6 coolers PIN 2/4 TO EXDVA

1 cooler PIN 2/4 TO MAXXAM

STANLEY - NOW CELEBRATING @ CAM-2

CAM-M

VT-2 WP 353 download + chiballs

ITN-2 WP 354

VT3 WP 355/56

VT4 WP 357

ITS 2 WP 358

VT5 359

LEVEL

Maxxam Job#: _____

259

G 102365

Invoice To: Require Report? Yes ☒ No ☐

Company Name: SILA REMEDIATION
Contact Name: J.P. Pelletier
Address: 1260 boul. Lebourgneuf
Quebec PC: G2K 2G2

Phone / Fax#: Ph: _____ Fax: _____
E-mail: jean-pierre.pelletier@englobe.com

Report To: Englobe Corp.

Company Name: _____
Contact Name: _____
Address: Same PC: _____

Phone / Fax#: Ph: _____ Fax: _____
E-mail: andrew.passalis@gmail.com

PO #: _____
Quotation #: KITK13
Project #: B40832
Proj. Name: PIN-2 / PIN-4
Location: Cape Yanga / Byron Bay
Sampled By: A. PASSALIS

REGULATORY REQUIREMENTS SERVICE REQUESTED:

☐ CSR ☒ Regular Turn Around Time (TAT)
(5 days for most tests)
☐ CCME ☐ RUSH (Please contact the lab)
☐ BC Water Quality ☐ 1 Day ☐ 2 Day ☐ 3 Day
☐ Other Date Required: _____
☐ DRINKING WATER

Special Instructions:

Return Cooler ☐ Ship Sample Bottles (please specify) ☐

Soil + Water - Metals to include:
(As, Cr, Cd, Co, Cu, Pb, Ni, Zn, Hg)

	Sample Identification	Lab Identification	Sample Type	Date/Time Sampled	BTEX/VPH	VOC/VPH	EPH	PAH	CCME-PHC	CCME-PHC	CCME BTEX	PCB	Phenols by	TOG	Dissolved Metals	Totals Metals	Nitrate	Asbestos	METALS (As, Cd, Cr, Co, Cu, Pb, Ni, Zn, Hg)	CONTAINERS	HOLD	YES	NO
1	P215-2WA		SOIL	15/8/15				X		X									X		2		
2	P215-2W		Water	"				X		X						X					7		
3	P415-3WA		SOIL	15/8/17				X		X									X		2		
4	P415-8WA		SOIL	15/8/17				X		X									X		2		
5	P415-4A		SOIL	15/8/17				X		X									X		2		
6	P415-21A		SOIL	15/8/18				X		X									X		2		
7	P415-15A		SOIL	15/8/17				X		X									X		2		
8	P415-12A		SOIL	15/8/17				X		X									X		2		
9	P415-23B		SOIL	15/8/18				X		X									X		2		
10	P415-3W		SOIL Water	15/8/17				X		X											7		
11																							
12																							

RECEIVED IN YELLOW KNIFE

By: MSgt. Michelle
15/8/15 - Michelle

2015-09-04

Temp: 4/5/5

RECEIVED IN YELLOW KNIFE
By: Michelle
15/8/18
2015-09-04

Temp: 4/5/5

*Relinquished by: <u>JP</u>	Date (YY/MM/DD): <u>15/8/19</u>	Time: <u>900</u>	Received by: <u>JESSE</u>	Date (YY/MM/DD): <u>15/09/06</u>	Time: <u>0900</u>	Time Sensitive <input type="checkbox"/>	Temperature on Receipt (°C): <u>3.2, 2</u>	Custody Seal Intact on Cooler?
							Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ICE-Y



Project Information

Project ID: KITK13
 Project Name: PIN-4
 Project Location: BYRON BAY
 Legal Location: BYRON BAY
 PO/AFE#:
 Proj. Acct. Code:
 Quote #: 20433

Invoice to:

Company:
 Address:

Attention:

Phone:

Cell:

Fax:

E-mail:

Agreement ID:

Copy of report:

Report To:

Company:
 Address:

Attention:

Phone:

Cell:

Fax:

E-mail 1:

E-mail 2:

Copy of invoice:

Report Results

E-Mail:
 Mail:
 Online:
 Fax:
 PDF:
 Excel:
 QA/QC:

Regulatory Requirement

HCDWQG
 Ab Tier 1
 SPIGEC
 BCCSR
 Other (list below)

Sample Custody (please print)

Sampled by:

Company:

This section for Lab use only

Date/Time stamp:

RUSH Priority

Emergency (contact lab for turnaround and pricing)

Priority 1-2 working days (100% surcharge)

Urgent 2-3 working days (50% surcharge)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Date Required:

Signature: [Signature]

Special Instructions/Comments (please include contact information including ph. # if different from above).

	Site I.D.	Sample Description	Depth start end in cm m	Date/Time Sampled	Matrix	Sampling Method
1		P+15 -8B		15/8/17	SOL	
2		-9A				
3		-9B				
4		-10A				
5		-10B				
6		-11A				
7		-11B				
8		-12A				
9		-12B				
10		-13A				
11		-13B				
12		-14A				
13		-14B				
14		-15A				
15		-15B				

Number of Containers
 BTEX/PI-FA
 CCMC Metals +Hg
 PCS's

Enter tests above
 (✓ relevant samples below)

Indicate in the space allotted any deficiencies by the corresponding number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

Submission of this form acknowledges acceptance of Exova's Standard Terms and Conditions (<http://www.exova.com/about/terms-and-conditions/>)

Please indicate any potentially hazardous samples

Page 2 of 6

Control # C 0008970

Indicate lot # or affix barcode here

Shipping: COD Y/ N

and size of coolers

Temp. received:

Delivery Method:

Waybill:

Received by:

Project Information

Project ID: KITK15
Project Name: DIN-4
Project Location: BYRON RAY
Legal Location: BYRON RAY
PO/AFE#:
Proj. Acct. Code: 20433
Quote #: 20433

Invoice to:

Company:

Address:

Attention:

Phone:

Cell:

Fax:

E-mail:

Agreement ID:

Copy of report:

Report To:

Company:

Address:

Attention:

Phone:

Cell:

Fax:

E-mail 1:

E-mail 2:

Copy of invoice:

Report
Results

Regulatory
Requirement

E-Mail	HCDWQG
Mail	Ab Tier 1
Online	SPIGEC
Fax	BCCSR
PDF	Other (list below)
Excel	
QA/QC	

Sample Custody (please print)

Sampled by:

Company:

This section for Lab use only

Date/Time stamp:

RUSH Priority

Emergency (contact lab for turnaround and pricing)

Priority 1-2 working days (100% surcharge)

Urgent 2-3 working days (50% surcharge)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Date Required:

Signature: ALH

Special Instructions/Comments (please include contact information including ph. # if different from above).

	Site I.D.	Sample Description	Depth start end in cm m	Date/Time Sampled	Matrix	Sampling Method
1		P415-16A		15/8/17	SD1L	
2		- 16B				
3		- 17A				
4		- 17B				
5		- 18A		15/8/18	SD1L	
6		- 18B				
7		- 19A				
8		- 19B				
9		- 20A				
10		- 20B				
11		- 21A				
12		- 21B				
13		- 22A				
14		- 22B				
15		- 23A				

Number of Containers
↓
BTEX/Fl-P4
CLME Metals+Hg
PCBS

Enter tests above
(✓ relevant samples below)

Indicate in the space allotted any
deficiencies by the corresponding
number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

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Please indicate any potentially hazardous samples

Page 3 of 6

Control # C 0008971

Indicate lot # or affix barcode here

Shipping: COD Y/ N

and size of coolers

Temp. received:

Delivery Method:

Waybill:

Received by:

Project Information

Project ID: K17K13
Project Name: PIN-4
Project Location: BYRON BAY
Legal Location: BYRON BAY
PO/AFE#:
Proj. Acct. Code:
Quote #: 20433

Invoice to:

Company:
Address:

Attention:

Phone:

Cell:

Fax:

E-mail:

Agreement ID:

Copy of report:

Report To:

Company:
Address:

Attention:

Phone:

Cell:

Fax:

E-mail 1:

E-mail 2:

Copy of invoice:

Report Results

E-Mail:
Mail:
Online:
Fax:
PDF:
Excel:
QA/QC:

Regulatory Requirement

HCDWQG
Ab Tier 1
SPIGEC
BCCSR
Other (list below)

Sample Custody (please print)

Sampled by:

Company:

This section for Lab use only

Date/Time stamp:

RUSH Priority

Emergency (contact lab for turnaround and pricing)

Priority 1-2 working days (100% surcharge)

Urgent 2-3 working days (50% surcharge)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Number of Containers
↓
BTEX/P1-FA
CONE METALS/Hg
PCBS

Date Required:

Signature: AK

Special Instructions/Comments (please include contact information including ph. # if different from above).

	Site I.D.	Sample Description	Depth start end in cm m	Date/Time Sampled	Matrix	Sampling Method
1		P415 - 23B		15/8/18	SOIL	
2		- 24A			S	
3		- 24B				
4		P415 - 1WA		15/8/17	SOIL	
5		1WB				
6		2WA				
7		2WB				
8		3WA				
9		3WB				
10		4WA				
11		4WB				
12		5WA				
13		5WB				
14		6WA				
15		6WB				

Enter tests above
(✓ relevant samples below)

Indicate in the space allotted any deficiencies by the corresponding number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

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Please indicate any potentially hazardous samples

Page 4 of 6

Control # C 0008972

Indicate lot # or affix barcode here

Shipping: COD Y/ N

and size of coolers

Temp. received:

Delivery Method:

Waybill:

Received by:



Project Information

Project ID: KITIKIS
Project Name: PIN-4
Project Location: BYRON BAY
Legal Location: BYRON BAY
PO/AFE#:
Proj. Acct. Code:
Quote #: 20433

Invoice to:

Company:
Address:

Attention:

Phone:

Cell:

Fax:

E-mail:

Agreement ID:

Copy of report:

Report To:

Company:
Address:

Attention:

Phone:

Cell:

Fax:

E-mail 1:

E-mail 2:

Copy of invoice:

Report Results

E-Mail:
Mail:
Online:
Fax:
PDF:
Excel:
QA/QC:

Regulatory Requirement

HCDWQG
Ab Tier 1
SPIGEC
BCCSR
Other (list below)

Sample Custody (please print)

Sampled by:

Company:

This section for Lab use only

Date/Time stamp:

RUSH Priority

Emergency (contact lab for turnaround and pricing)

Priority 1-2 working days (100% surcharge)

Urgent 2-3 working days (50% surcharge)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Date Required:

Signature: [Signature]

Special Instructions/Comments (please include contact information including ph. # if different from above):

	Site I.D.	Sample Description	Depth start end in cm m	Date/Time Sampled	Matrix	Sampling Method	Enter tests above (✓ relevant samples below)
1		P415-7WA		15/8/17	SOIL		X X X X
2		- 7WB					X X X X
3		- 8WA					X X X X
4		- 8WB					X X X X
5		- BD1		15/8/17			X X X X
6		- BD2		15/8/17			X X X X
7		- BD3		15/8/17			X X X X
8		- BD4		15/8/18			X X X X
9		- BD5		15/8/17			X X X X
10		- BD6		15/8/17			X X X X
11		- BD7		15/8/18			X X X X
12		P415-1W		15/8/18	Water		X X X X
13		- 2W					X X X X
14		- 3W					X X X X
15		- 4W					X X X X

Number of Containers
↓
BTEX/FI-F4
CME Metals + Hg
PCBS
TOTAL METALS + Hg

Indicate in the space allotted any deficiencies by the corresponding number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

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Please indicate any potentially hazardous samples

Page 5 of 6

Control # C 0008973

Indicate lot # or affix barcode here

Shipping: COD Y/ N

and size of coolers

Temp. received:

Delivery Method:

Waybill:

Received by:



Project Information

Project ID: KITKIS
Project Name: PIN-4
Project Location: BYRON BAY
Legal Location: BYRON BAY
PO/AFE#:
Proj. Acct. Code:
Quote #: 20433

Invoice to:

Company:

Address:

Attention:

Phone:

Cell:

Fax:

E-mail:

Agreement ID:

Copy of report:

Report To:

Company:

Address:

Attention:

Phone:

Cell:

Fax:

E-mail 1:

E-mail 2:

Copy of invoice:

Report
Results

E-Mail:

Mail:

Online:

Fax:

PDF:

Excel:

QA/QC:

Regulatory
Requirement

HCDWQG

Ab Tier 1

SPIGEC

BCCSR

Other (list below)

Sample Custody (please print)

Sampled by:

Company:

This section for Lab use only

Date/Time stamp:

RUSH Priority

Emergency (contact lab for turnaround and pricing)

Priority 1-2 working days (100% surcharge)

Urgent 2-3 working days (50% surcharge)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Date Required:

Signature: [Signature]

Special Instructions/Comments (please include contact information including ph. # if different from above).

	Site I.D.	Sample Description	Depth start end in cm m	Date/Time Sampled	Matrix	Sampling Method
1		P415-BW		15/8/18	Water	
2		-FW				
3		-8W				
4		-BDWI				
5		-FB				
6		P2/PA-TB				
7						
8						
9						
10						
11						
12						
13						
14						
15						

Number of Containers

BTEX/FL-FA
PCBS
TOTAL Metals + Hg

Enter tests above
(✓ relevant samples below)

Indicate in the space allotted any
deficiencies by the corresponding
number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

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Please indicate any potentially hazardous samples

Page 6 of 6

Control # C 0008974

Indicate lot # or affix barcode here

Shipping: COD Y/ N

and size of coolers

Temp. received:

Delivery Method:

Waybill:

Received by:

ANNEX 4

Scope of the Report and Limitation of Liability

SCOPE OF THE REPORT AND LIMITATION OF LIABILITY

A – Recipient and Use

This report (“Report”) was prepared by Englobe Corp. (“Englobe”) at the request and for the sole benefit of the Client (“Client”), and is intended to be used exclusively by the Client.

B –Site Conditions

Any description of the target site (“Site”), soil and/or groundwater included in the Report is only provided as an indication to the Client, and unless otherwise specifically mentioned in the Report such description shall not at any time and under any circumstances be used for purposes other than to gain a better understanding of the Site and to fulfil the requirements of the mandate assigned to Englobe by the Client (“Mandate”).

All information, including but not limiting the comprehensiveness of the data, charts, descriptions, drawings, tables, analysis results, compilations, and any conclusion and recommendation included in the Report, shall arise from the direct observation of the Site during a specific period, namely the fulfilment of the Mandate, and from the interpretation of such information and data available during the same period.

The content of the Report shall not apply in any way or to any part of the Site or to any parameter, material or analysis excluded from the Mandate.

Englobe shall not be held responsible for the presence of any substance or material of a different nature, or of a similar nature but with different concentrations, as those indicated in the Report, and this in any part or parts of the Site excluded from the Mandate.

The content of the Report, including its conclusions and recommendations, shall not apply to any period preceding or following the Mandate. The physiochemical conditions of the Site, and the type and degree of contamination identified on the Site, may vary within a given period depending on a number of factors, especially the current activities taking place on the Site and/or on lands adjacent to the Site.

A review of the Report and/or changes in the parameters, conclusions and/or recommendations may prove to be necessary in the event of a change in the Site conditions or the discovery of pertinent information subsequent to the production of the Report.

C - Legislation, Regulations, Guidelines and Policies

The interpretation of the data and observations concerning the Site, as well as the conclusions and recommendations resulting from these, shall take into account the laws, regulations, standards, policies and/or guidelines applicable to the Project and that are in effect at the time of the fulfilment of the Mandate. In the event no current law, regulation, policy, guideline or standard applies to the project, Englobe shall take into account proven environmental and professional rules and practices when drawing up the Report.

Any change in the legislation, regulations, standards, policies and/or guidelines applicable to the project may result in the need to review the Report and/or modify its parameters, conclusions and/or recommendations.

D – Use of Report

The Report is intended for the exclusive use of the Client and shall only be used for the purpose it was meant for.

The content of the Report and its conclusions and recommendations only apply to the Site and may not, at any time and under any circumstances, apply to any land adjacent to the Site or to any other land located in the vicinity of the Site.

Any reproduction in any form whatsoever and any distribution or use of the Report, in whole or in part, by a person other than the Client, is strictly forbidden without the prior written consent of Englobe. Englobe makes no declaration and pledges no responsibility towards any person other than the Client with regard to the content of the Report and the conclusions and recommendations expressed therein.

Englobe is in no way responsible for any loss, fine or penalty, or for any expense, damage or other prejudice of any type whatsoever, sustained by a person other than the Client as a result of the unauthorized use of the Report.

No provision of the Report shall be construed as or considered to be a legal opinion of Englobe's.