

December 29, 2015

Mr. Thom O'Leary
Indianapolis Power & Light Company
1230 W. Morris Street
Indianapolis, Indiana 46221-1744

Subject: **Soil Excavation**
Proposed Extension to Existing Substation
2749 W. Morris Street
Indianapolis, Indiana
Project No.: 170EM00134

Cardno ATC

7988 Centerpoint Dr.
Suite 100
Indianapolis, IN 46256

Phone +1 317 849 4990
Fax +1 317 849 4278
www.cardno.com

www.cardnoatc.com

Dear Mr. O'Leary

ATC Group Services, Inc. (dba Cardno ATC) is pleased to provide Indianapolis Power & Light Company (IPL) this report concerning Soil Excavation Activities conducted at 2749 W. Morris Street in Indianapolis, Indiana (Site). The site location is shown on **Figure 1**.

We appreciate the opportunity to have worked with IPL on this project. If you have any questions or require further information, please email the undersigned or call (317) 579-4015.

Sincerely,



Justin Moree
Staff Geologist
Direct Line (317)579-4052
Email: justin.moree@cardno.com



Christopher J. Bishop, L.P.G.
Senior Project Geologist
Direct Line (317) 579-4015
Email: chris.bishop@cardno.com

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1.0 BACKGROUND

During construction for an electrical substation expansion at 2749 W. Morris Street, Indianapolis, IN (the Site) IPL encountered some buried debris including discarded lead acid battery casings. Preliminary tests indicated that the debris contained lead concentrations, some of which were determined to warrant further investigation. IPL requested that Cardno ATC perform a subsurface investigation to delineate the lateral and vertical extents of the lead impacted debris.

Phase II Investigation

Cardno ATC advanced 45 soil borings across the Site to evaluate subsurface soil quality. The soil borings were advanced to a maximum depth of 16 feet below ground surface (ft. bgs), until refusal, or until field screening results suggested total lead concentrations in the soil were below the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential Migration to Groundwater (RMG) Screening Level (SL) (270 mg/kg). The RMG SL was used as a conservative approach to evaluate soil lead concentrations and to manage excavated soil. Groundwater was not encountered in any of the soil borings at the site.

Soil samples were collected in continuous 2.0 foot intervals from the ground surface to the terminal depth of the borings. A portion of each sample was placed into a re-sealable plastic bag and field screening for lead using a portable x-ray fluorescence spectrometry (XRF) analyzer in general accordance with U.S. EPA Method 6200. U.S. EPA Method 6200 recommends that a minimum of 5% of soil samples screened for lead concentrations with an XRF be submitted for laboratory confirmation. Twenty-four soil samples (10 percent of the total number of samples collected) were submitted to Pace Analytical Laboratory for total lead analysis using SW-846 Method 6010B. Refer to Subsurface Investigation report for soil boring analytical records dated September 15, 2015.

The XRF lead results were compared to the laboratory lead results using a statistical comparison. The correlation coefficient was determined to be 0.68 which represents a strong positive linear relationship between the XRF measured concentrations and the laboratory measured concentrations. Empirical data from the site (visual observations and historical land use information) suggested that the elevated lead concentrations are associated with battery casings that were apparently disposed on site by an unknown third party. The field screening and analytical laboratory results were used to designate an excavation area to remove soil and debris containing lead concentrations greater than the RMG SL. The soil boring locations and proposed excavation area are depicted on **Figure 2**.

2.0 SOIL EXCAVATION

2.1 Site Safety Plan

Cardno ATC prepared a Site-specific Health and Safety Plan (HASP) that was followed during the on-Site activities. The HASP provides background information about the Site, project objectives, chemical and physical hazards that may be encountered, a list of safety equipment, monitoring procedures and the locations and telephone numbers of emergency services. All personnel associated with on-Site activities read the HASP, become familiar with its provisions and signed the form attached to the plan. The HASP complies with the OSHA Standard for Hazardous Waste Operations and Emergency Response (29 CFR 1910.120). To reduce lead

particulates in ambient air due to equipment and excavation activities, a water truck was readily available and utilized to control construction dust based on site conditions.

Prior to initiating Site activities, the Indiana Underground Plant Protection Service (IUPPS) was contacted and underground utility locations were marked at the Site. Cardno ATC also consulted with IPL representatives concerning aboveground and underground utilities at the site.

2.2 Work Performed

Soil excavation activities were conducted at the site between August 26 and October 15, 2015. Cardno ATC provided oversight and testing services during the excavation activities to determine the lateral and vertical extents of the excavation. Denney Excavating (Denney) provided soil excavation services and Heritage Environmental Services (Heritage) provided transportation, treatment and disposal services.

The proposed extents of the excavation were based on findings from the Phase II Investigation and demarcated using spray paint and pin flags. Denney excavated soil and debris from the excavation and loaded it onto dump containers provided by Heritage. To establish points of reference for the excavation activities, the proposed excavation area was divided into 45 separate areas corresponding to the soil boring locations (e.g. excavation area 1 corresponds to soil boring 1). The excavation areas are depicted on **Figure 3**. Soil samples were collected on a continuous basis from each excavation area and field screened for total lead concentrations using a portable x-ray fluorescence spectrometry XRF analyzer (EPA Method 6200).

Once the proposed limits of the excavation were reached, and the field screening results indicated that the impacted soil had been removed, confirmation samples were collected from the base and sidewalls of the excavation. Base and sidewall sample locations are depicted on **Figures 4** and **5** respectively. Eighteen soil samples (5% of the total number of samples collected) were submitted to Pace Analytical Laboratory for total lead analysis using SW-846 Method 6010B.

The soil excavation extended to a depth of 17 ft-bgs, until field screening results indicated total lead concentrations in the soil were below the IDEM RCG RMG SL (270 mg/kg). Water was encountered at excavation area 29 at a depth of 17 ft-bgs; however, the excavation walls quickly collapsed preventing us from collecting a water sample. The excavation grades and depth to the bottom of excavation are shown in **Figures 6**.

The excavated soil was loaded onto dump containers provided by Heritage and transported to the Heritage Indianapolis facility for treatment. Following treatment, the soil was transported to the Heritage RCRA Subtitle C landfill in Roachdale, Indiana for disposal. Approximately 12,935 tons of lead impacted soil and debris was removed from the excavation and transported to Heritage for treatment and disposal.

Cardno ATC also provided oversight and testing services to delineate impacted soil associated with a soil stockpile located on the northwest portion of the site. The stockpile consisted of soil that was scraped from the area before the battery casings were discovered. Once the stockpile was removed to grade and analyzed via XRF screen testing, four base soil samples were collected for lab analysis. The former stockpile area and locations of samples taken for lab analysis are shown in **Figure 6**. The impacted stockpile area was removed and transported offsite by Heritage to its landfill in Roachdale, IN. Approximately 5,000 tons of impacted soil was removed from the stockpile area and transported for processing.

2.3 Findings

During excavation activities, debris up to 17 feet deep, was encountered on site. The debris consisted of battery casings, soil, rock, bricks, and concrete. The debris locations are shown on **Figure 2**. A temporary dewatering line and the property boundary on the south and west portion of the site limited excavation activities.

Field Screening Results

Soil samples were collected on a continuous basis from each excavation area and field screened for total lead concentrations using a portable x-ray fluorescence spectrometry XRF analyzer (EPA Method 6200). The field screening results were used to direct the excavation activities. The excavation areas are depicted on **Figure 3** and the field screening results are provided on **Table 1**.

Confirmatory Soil Sample Collection

After the completion of the excavation activities, sixty-two soil samples were collected from the base and sidewalls of the excavation. Confirmatory soil samples were collected approximately every forty feet along the sidewalls and approximately every 400 square feet from the base of the excavations. The soil samples were field screened for total lead concentrations with an XRF. The confirmation soil sample locations are depicted in **Figures 4 and 5** and the field screening results are provided in **Tables 2 and 3**. Approximately 5% of the confirmation soil samples collected from the base and sidewalls of the excavation were submitted to Pace Analytical and analyzed for total lead using SW-846 Method 6010B. The laboratory results are shown in **Table 4** and the complete analytical report is provided in **Appendix A**.

All of the confirmation base samples exhibited total lead concentrations below the IDEM RCG RMG SL (270 mg/kg). Five of the seventeen confirmation sidewall samples (Sidewall 9, 10, 12, 13 and 15) exhibited total lead concentrations greater than the IDEM RCG RMG SL (270 mg/kg). Soil could not be removed from these locations due to the proximity of a temporary water line and the property boundary.

Excavation and backfilling activities took place simultaneously to complete the proposed substation in the time frame given by IPL. After confirmatory soil samples were collected, the excavated areas were backfilled with clean Silty Clay (with trace gravel, fine to coarse). Backfill was transported onto the site from Denney Excavating and Wilhelm Construction.

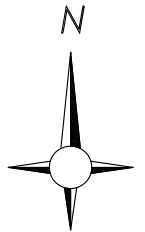
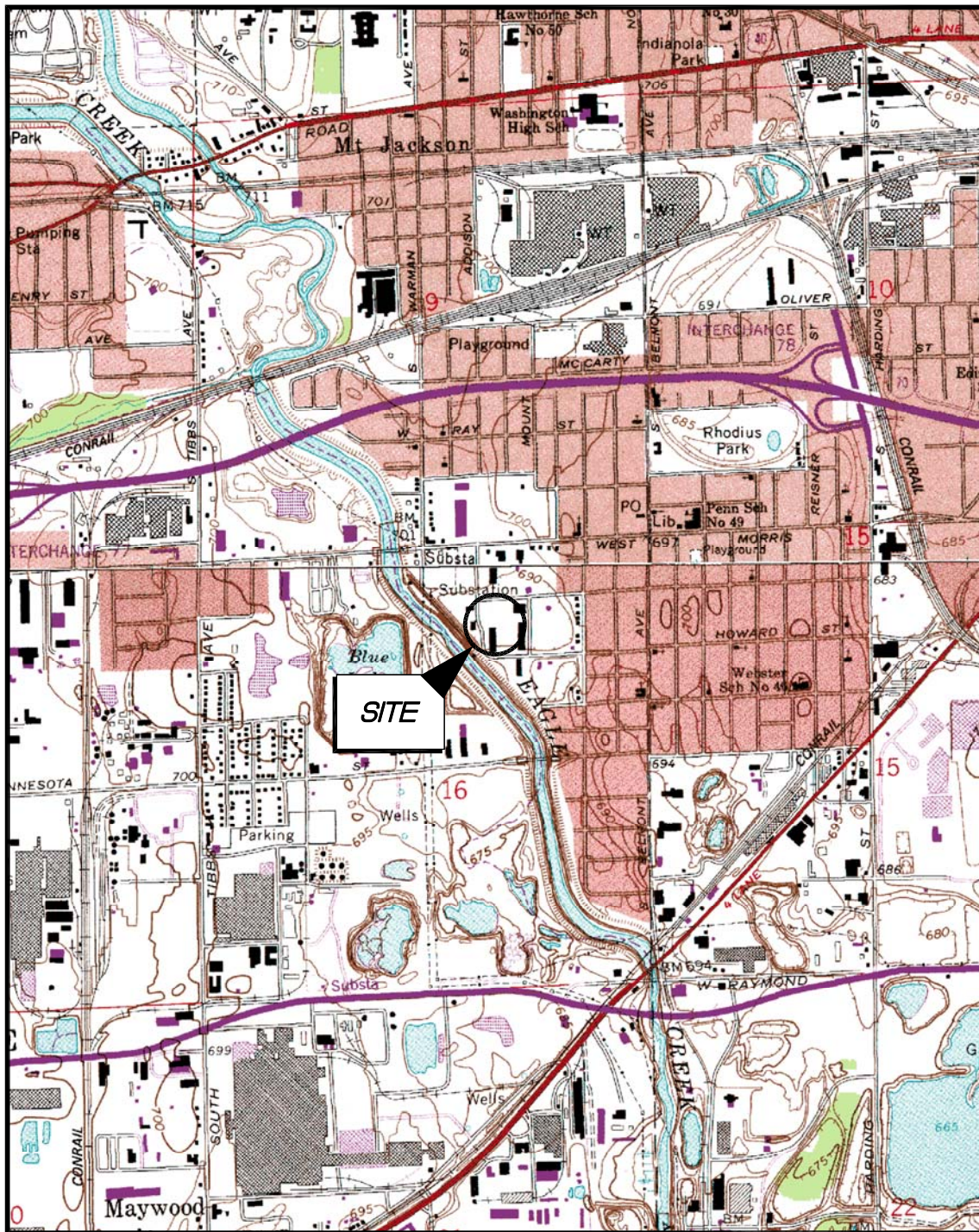
Four confirmatory stockpile samples labeled Hill 1-4 shown in **Figure 6** were taken at the perimeter base to delineate impacted soil to the west of the excavation. As a result of removing approximately 5,000 tons the former stockpile, the area was confirmed clean via XRF field screening.

3.0 CONCLUSIONS AND RECOMMENDATIONS

A total of 17,935 tons of impacted soil containing lead was removed from the Morris Street Substation located in Indianapolis, Indiana. The impacted soil was transported to the Heritage facility in Indianapolis, Indiana for treatment then to the Heritage landfill in Roachdale, Indiana for disposal. Soil containing lead at concentrations above 270 ppm remain in place on the south side of the property due to excavation boundaries threatening existing structures and/or the property boundary.

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the field of environmental science and engineering at the time and location where the services are performed. This warranty is in lieu of all other warranties either expressed or implied and no other warranties will be given.

Figures



VICINITY MAP

INDIANAPOLIS POWER & LIGHT
2749 WEST MORRIS STREET
INDIANAPOLIS, INDIANA

Project Number:
170EM00134

Drawing File:
SEE LOWER LEFT

Date:
11/15

Scale:
1" = 2000'



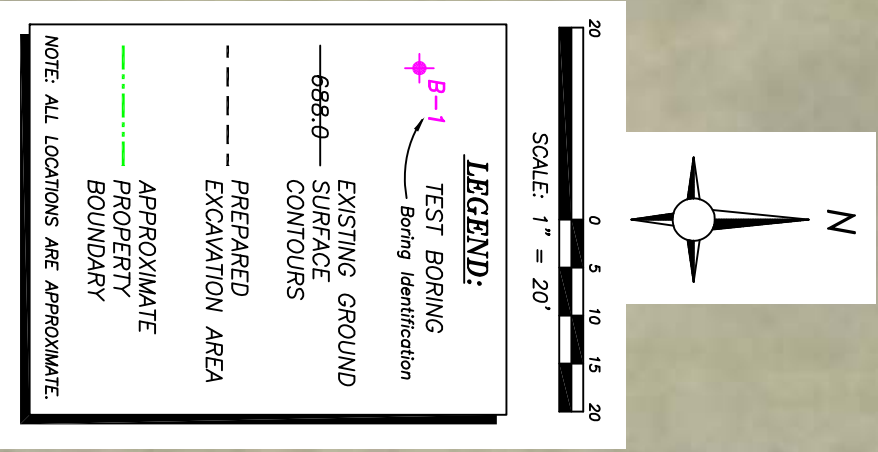
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AK

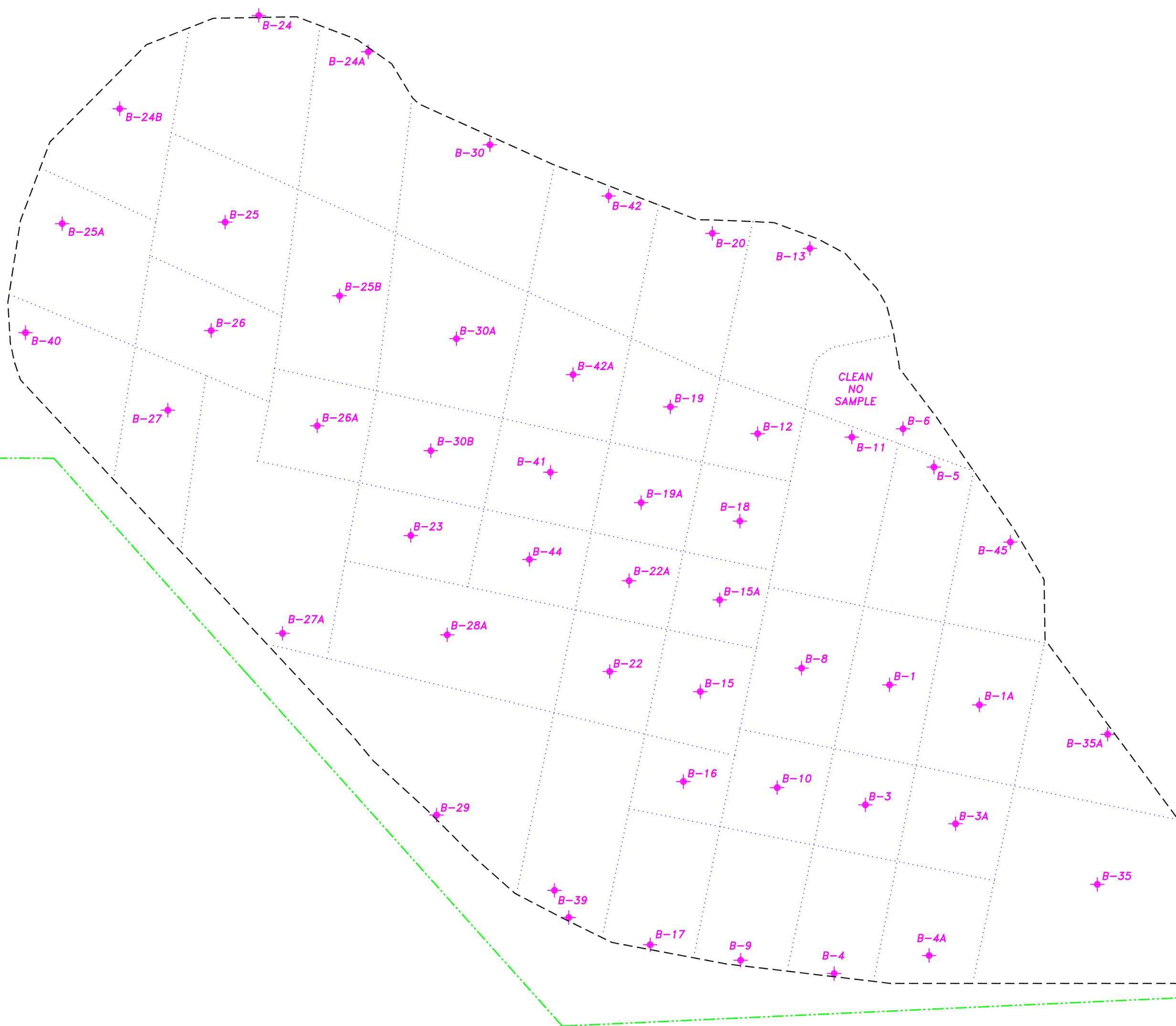
Ckd. By:
JM

App'd By:

Figure:

1





LEGEND:

XRF SAMPLE
Sample Identification

EXISTING GROUND
SURFACE
CONTOURS

EXCAVATION
CONTOURS

APPROXIMATE
PROPERTY
BOUNDARY

NOTE: ALL LOCATIONS ARE APPROXIMATE.

LEGEND:

 **B-1** XRF SAMPLE
Sample Identification

 **688.0** EXISTING GROUND SURFACE CONTOURS

 **686** EXCAVATION CONTOURS

 APPROXIMATE PROPERTY BOUNDARY

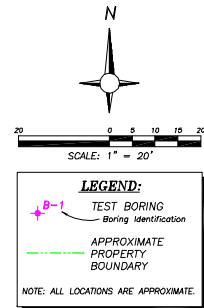
NOTE: ALL LOCATIONS ARE APPROXIMATE.

NOTE: ALL LOCATIONS ARE APPROXIMATE.

Drawing Title:	XRF AREA SAMPLE LOCATIONS MAP IPL WEST MORRIS SUBSTATION INDIANAPOLIS, INDIANA
Sheet:	
Company Name: INDIANAPOLIS POWER AND LIGHT COMPANY INDIANAPOLIS, INDIANA	Revision:
Project Number: 170EM001134	
Drawing File: SEE LOWER LEFT	
Date: 10/20	
Scale: AS SHOWN	
App'd By: CB	Drawn By: SP

Drawing Title: XRF AREA SAMPLE LOCATIONS MAP
IPL WEST MORRIS SUBSTATION
INDIANAPOLIS, INDIANA

3



<u>DEPTH OF EXCAVATION</u>	
CLEAN	CLEAN
2 FT.	2 FT.
4 FT.	4 FT.
6 FT.	6 FT.
8 FT.	8 FT.
12 FT.	12 FT.
14 FT.	14 FT.
16 FT.	16 FT.
17 FT.	17 FT.

Tables

Table 1
XRF Field Screening Area Samples
Proposed IPL Substation
2749 W. Morris Street
Indianapolis, IN

	Sample Depth (ft)									Notes on Area
	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-17	
Area	XRF Results (ppm)									
1	214	32,100	3,867	<26	N/A	N/A	N/A	N/A	N/A	
1a	238	8,192	35	N/A	N/A	N/A	N/A	N/A	N/A	
3	190	2,380	<28	N/A	N/A	N/A	N/A	N/A	N/A	
3a	<80	484	<47	N/A	N/A	N/A	N/A	N/A	N/A	
4	299	985	<23	N/A	N/A	N/A	N/A	N/A	N/A	
4a	325	672	<29	N/A	N/A	N/A	N/A	N/A	N/A	
5	318	382	<24	N/A	N/A	N/A	N/A	N/A	N/A	
6	<24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8	4,736	1,826	539	<32	N/A	N/A	N/A	N/A	N/A	
9	106	<15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10	<25	367	81	<24	N/A	N/A	N/A	N/A	N/A	
11	583	135	<28	N/A	N/A	N/A	N/A	N/A	N/A	
12	2,853	2,297	5,204	<26	N/A	N/A	N/A	N/A	N/A	
13	56	170	<19	N/A	N/A	N/A	N/A	N/A	N/A	
15	127	329	<23	<23	N/A	N/A	N/A	N/A	N/A	
15a	141	209	<26	<28	N/A	N/A	N/A	N/A	N/A	
16	97	1,254	<24	<24	N/A	N/A	N/A	N/A	N/A	
17	103	2,077	32	N/A	N/A	N/A	N/A	N/A	N/A	
18	1,170	455	4,432	<24	N/A	N/A	N/A	N/A	N/A	
19	52	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
19a	1,636	2,524	<27	N/A	N/A	N/A	N/A	N/A	N/A	
20	258	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
22	108	1,461	106	<26	85	<21	133	<32	N/A	Trash Pit
22a	327	2,254	142	139	N/A	N/A	N/A	N/A	N/A	
23	6,051	2,297	151	<17	<18	<19	<18	N/A	N/A	Trash Pit
24	714	<19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
24a	236	<28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
25	4,636	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
25a	<18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
25b	601	<14	<17	N/A	N/A	N/A	N/A	N/A	N/A	
26	<24	37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
26a	<20	453	<16	N/A	N/A	N/A	N/A	N/A	N/A	
27	96	<19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
27a	522	1,645	370	<26	<26	<26	N/A	N/A	N/A	Trash Pit
28	625	5,111	1,277	<28	<28	<28	N/A	N/A	N/A	Trash Pit
28a	<16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
29	2,154	5,704	1,485	57	<23	75	<34	919	<24	Trash Pit
30	947	499	<16	N/A	N/A	N/A	N/A	N/A	N/A	
30a	626	938	68	N/A	N/A	N/A	N/A	N/A	N/A	
30b	233	520	644	<24	N/A	N/A	N/A	N/A	N/A	
35	<49	137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
35a	42	172	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
39	2,574	<27	<29	61	<27	49	<24	N/A	N/A	Trash Pit
40	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
41	1,303	1,804	<22	1,172	294	1,179	<28	N/A	N/A	Trash Pit
42	187	44	<18	N/A	N/A	N/A	N/A	N/A	N/A	
42a	254	<20	141	N/A	N/A	N/A	N/A	N/A	N/A	
44	1,576	1,163	<24	<24	<24	<24	<24	N/A	N/A	Trash Pit
45	440	27	<18	N/A	N/A	N/A	N/A	N/A	N/A	
Samples for lab analysis										

Total	6									
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Field Sampling Guidelines	
Parameter	Lead (total)
Method	EPA 6010
Matrix	Solid
Units	mg/kg
IDEM Screening Soil Exposure Direct Contact Excavation 2015	1000
IDEM Screening Soil Exposure Direct Contact Commercial/Industrial 2015	800
IDEM Screening Soil Exposure Direct Contact Residential 2015	400
IDEM Screening Groundwater Soil MTG Residential 2015	270

*N/A- Not applicable

Table 2
XRF Field Screening Base Samples
Proposed IPL Substation
2749 W. Morris Street
Indianapolis, IN

	Sample Depth (ft)									Notes on Area
	2'	4'	6'	8'	10'	12'	14'	16'	17'	
Area	XRF Results (ppm)									
Base 1	N/A	<19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 2	N/A	<24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 3	N/A	<18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 4	N/A	N/A	<21	N/A	N/A	N/A	N/A	N/A	N/A	
Base 5	N/A	N/A	<23	N/A	N/A	N/A	N/A	N/A	N/A	
Base 6	N/A	N/A	<19	N/A	N/A	N/A	N/A	N/A	N/A	
Base 7	N/A	N/A	<17	N/A	N/A	N/A	N/A	N/A	N/A	
Base 8	N/A	N/A	<18	N/A	N/A	N/A	N/A	N/A	N/A	
Base 9	N/A	N/A	N/A	119	N/A	N/A	N/A	N/A	N/A	
Base 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78	N/A	Trash Pit
Base 11	N/A	N/A	N/A	N/A	N/A	N/A	73	N/A	N/A	Trash Pit
Base 12	N/A	N/A	N/A	N/A	N/A	N/A	<21	N/A	N/A	Trash Pit
Base 13	N/A	N/A	161	N/A	N/A	N/A	N/A	N/A	N/A	
Base 14	N/A	N/A	N/A	N/A	N/A	<18	N/A	N/A	N/A	
Base 15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<19	N/A	Trash Pit
Base 16	N/A	N/A	<19	N/A	N/A	N/A	N/A	N/A	N/A	
Base 17	N/A	<19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	74	N/A	Trash Pit
Base 19	N/A	N/A	N/A	<18	N/A	N/A	N/A	N/A	N/A	
Base 20	N/A	N/A	215	N/A	N/A	N/A	N/A	N/A	N/A	
Base 21	N/A	N/A	<18	N/A	N/A	N/A	N/A	N/A	N/A	
Base 22	N/A	N/A	N/A	<24	N/A	N/A	N/A	N/A	N/A	
Base 23	N/A	N/A	N/A	<32	N/A	N/A	N/A	N/A	N/A	
Base 24	N/A	N/A	<28	N/A	N/A	N/A	N/A	N/A	N/A	
Base 25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Clean
Base 26	N/A	N/A	N/A	<26	N/A	N/A	N/A	N/A	N/A	
Base 27	N/A	N/A	N/A	<28	N/A	N/A	N/A	N/A	N/A	
Base 28	N/A	N/A	<35	N/A	N/A	N/A	N/A	N/A	N/A	
Base 29	N/A	N/A	<29	N/A	N/A	N/A	N/A	N/A	N/A	
Base 30	N/A	N/A	<23	N/A	N/A	N/A	N/A	N/A	N/A	
Base 31	N/A	N/A	<18	N/A	N/A	N/A	N/A	N/A	N/A	
Base 32	N/A	N/A	<18	N/A	N/A	N/A	N/A	N/A	N/A	
Base 33	N/A	<17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MS/MSD
Base 34	N/A	137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 35	N/A	137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 36	N/A	<47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 37	<21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 38	N/A	N/A	N/A	N/A	N/A	37	N/A	N/A	N/A	Trash Pit
Base 39	N/A	N/A	N/A	N/A	N/A	<25	N/A	N/A	N/A	Trash Pit
Base 40	N/A	N/A	N/A	N/A	N/A	<23	N/A	N/A	N/A	Trash Pit
Base 41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<17	N/A	
Base 42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<24	
Base 43	N/A	N/A	N/A	N/A	N/A	<21	N/A	N/A	N/A	Trash Pit
Base 44	N/A	<20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 45	N/A	<15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Samples for lab analysis										

Total		1		2				2		
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Field Sampling Guidelines	
Parameter	Lead (total)
Method	EPA 6010
Matrix	Solid
Units	mg/kg
IDEM Screening Soil Exposure Direct Contact Excavation 2015	1000
IDEM Screening Soil Exposure Direct Contact Commercial/Industrial 2015	800
IDEM Screening Soil Exposure Direct Contact Residential 2015	400
IDEM Screening Groundwater Soil MTG Residential 2015	270

*N/A- Not applicable

Table 3
XRF Field Screening Sidewall Samples
Proposed IPL Substation
2749 W. Morris Street
Indianapolis, IN

	Sample Depth (ft)		
	2'	4'	
Area	XRF Results (ppm)		Notes on Area
Sidewall 1	48	N/A	
Sidewall 2	<20	N/A	
Sidewall 3	N/A	<25	
Sidewall 4	<21	N/A	
Sidewall 5	56	N/A	
Sidewall 6	<35	N/A	
Sidewall 7	<28	N/A	
Sidewall 8	<47	N/A	
Sidewall 9	6,975	N/A	Duplicate
Sidewall 10	351	N/A	
Sidewall 11	71	N/A	
Sidewall 12	2,574	N/A	Water Line
Sidewall 13	2,154	N/A	Water Line
Sidewall 14	<16	N/A	
Sidewall 15	2,274	N/A	Water Line
Sidewall 16	96	N/A	
Sidewall 17	<19	N/A	
Samples for lab analysis			

Total	5	
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Field Sampling Guidelines	
Parameter	Lead (total)
Method	EPA 6010
Matrix	Solid
Units	mg/kg
IDEM Screening Soil Exposure Direct Contact Excavation 2015	1000
IDEM Screening Soil Exposure Direct Contact Commercial/Industrial 2015	800
IDEM Screening Soil Exposure Direct Contact Residential 2015	400
IDEM Screening Groundwater Soil MTG Residential 2015	270

*N/A- Not applicable

Table 4
Lead Lab Results
Proposed IPL Substation
2749 W. Morris Street
Indianapolis, IN

	Sample Depth (ft)										Notes on Area
	Ground Surface	2'	4'	6'	8'	10'	12'	14'	16'	17'	
Area	XRF Results (ppm)										
Base 9	N/A	N/A	N/A	N/A	39.3	N/A	N/A	N/A	N/A	N/A	
Base10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47.4	N/A	
Base 27	N/A	N/A	N/A	N/A	4.3	N/A	N/A	N/A	N/A	N/A	
Base 33	N/A	N/A	6.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Base 42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.8	
Base 45	N/A	N/A	13.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sidewall 1	N/A	45.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sidewall 5	N/A	65.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sidewall 9	N/A	59,200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Water Pipe
Sidewall 11	N/A	77.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sidewall 13	N/A	3,070	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Water Pipe
Sidewall 16	N/A	83.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hill 1	27.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hill 2	10.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hill 3	26.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hill 4	6.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
B-25a	N/A	23.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Field Sampling Guidelines	
Parameter	Lead (total)
Method	EPA 6010
Matrix	Solid
Units	mg/kg
IDEM Screening Soil Exposure Direct Contact Excavation 2015	1000
IDEM Screening Soil Exposure Direct Contact Commercial/Industrial 2015	800
IDEM Screening Soil Exposure Direct Contact Residential 2015	400
IDEM Screening Groundwater Soil MTG Residential 2015	270

*N/A- Not applicable

Appendix A- Laboratory Analytical Report

September 15, 2015

Mr. Chris Bishop
Cardno ATC
7988 Centerpointe Drive
Suite 100
Indianapolis, IN 46256

RE: Project: IPL-Morris Street
Pace Project No.: 50124769

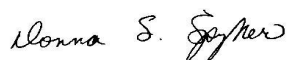
Dear Mr. Bishop:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Total Lead results included for sample B-16(14-16).

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IPL-Morris Street

Pace Project No.: 50124769

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas Certification #: E-10177

Kentucky UST Certification #: 0042

Kentucky WW Certification #: 98019

Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2014-148

Texas Certification #: T104704355-15-9

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50124769001	B-1(4-6)	Solid	07/29/15 11:10	08/04/15 16:39
50124769002	B-3(4-6)	Solid	07/29/15 12:10	08/04/15 16:39
50124769003	B-5(6-8)	Solid	07/29/15 13:00	08/04/15 16:39
50124769004	B-6(2-4)	Solid	07/29/15 13:25	08/04/15 16:39
50124769005	B-7(0-2)	Solid	07/29/15 13:50	08/04/15 16:39
50124769006	B-8(10-12)	Solid	07/29/15 14:30	08/04/15 16:39
50124769007	B-10(0-2)	Solid	07/29/15 15:00	08/04/15 16:39
50124769008	B-16(8-10)	Solid	07/30/15 07:50	08/04/15 16:39
50124769009	B-16(14-16)	Solid	07/30/15 07:55	08/04/15 16:39
50124769010	B-17(6-8)	Solid	07/30/15 08:35	08/04/15 16:39
50124769011	B-19(4-6)	Solid	07/30/15 09:30	08/04/15 16:39
50124769012	B-22(10-12)	Solid	07/30/15 10:40	08/04/15 16:39
50124769013	B-23(8-10)	Solid	07/30/15 12:20	08/04/15 16:39
50124769014	B-23(12-14)	Solid	07/30/15 12:25	08/04/15 16:39
50124769015	B-26(2-4)	Solid	07/30/15 13:25	08/04/15 16:39
50124769016	B-29(0-2)	Solid	07/30/15 15:00	08/04/15 16:39
50124769017	B-29(6-8)	Solid	07/30/15 15:10	08/04/15 16:39
50124769018	B-29(8-10)	Solid	07/30/15 15:15	08/04/15 16:39
50124769019	B-29(12-14)	Solid	07/30/15 15:25	08/04/15 16:39
50124769020	B-29(14-16)	Solid	07/30/15 15:30	08/04/15 16:39
50124769021	B-39(4-6)	Solid	07/31/15 09:10	08/04/15 16:39
50124769022	B-41(2-4)	Solid	07/31/15 09:45	08/04/15 16:39
50124769023	B-42(0-2)	Solid	07/31/15 10:00	08/04/15 16:39
50124769024	B-45(2-4)	Solid	07/31/15 11:10	08/04/15 16:39
50124769025	B-45(6-8)	Solid	07/31/15 11:15	08/04/15 16:39
50124769026	DUP	Solid	07/30/15 08:00	08/04/15 16:39
50124769027	Composite	Solid	07/31/15 11:15	08/04/15 16:39
50124769028	B-35(2-4)	Solid	07/31/15 07:35	08/04/15 16:39
50124769029	B-42(2-4)	Solid	07/31/15 10:00	08/04/15 16:39
50124769030	B-45(4-6)	Solid	07/31/15 11:10	08/04/15 16:39

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SAMPLE ANALYTE COUNT

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50124769001	B-1(4-6)	EPA 6010	JPK	1
		EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769002	B-3(4-6)	EPA 6010	JPK	1
		EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769003	B-5(6-8)	EPA 6010	JPK	1
		EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769004	B-6(2-4)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769005	B-7(0-2)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769006	B-8(10-12)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769007	B-10(0-2)	EPA 6010	JPK	1
		EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769008	B-16(8-10)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769009	B-16(14-16)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769010	B-17(6-8)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769011	B-19(4-6)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769012	B-22(10-12)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769013	B-23(8-10)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769014	B-23(12-14)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769015	B-26(2-4)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769016	B-29(0-2)	EPA 6010	JPK	1
		ASTM D2974-87	SCM	1
50124769017	B-29(6-8)	EPA 6010	JPK	1

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SAMPLE ANALYTE COUNT

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50124769018	B-29(8-10)	ASTM D2974-87	SCM	1
		EPA 6010	JPk	1
		EPA 6010	JPk	1
50124769019	B-29(12-14)	ASTM D2974-87	SCM	1
		EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
50124769020	B-29(14-16)	EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
		EPA 6010	JPk	1
50124769021	B-39(4-6)	ASTM D2974-87	SCM	1
		EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
50124769022	B-41(2-4)	EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
		EPA 6010	JPk	1
50124769023	B-42(0-2)	ASTM D2974-87	SCM	1
		EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
50124769024	B-45(2-4)	EPA 6010	JPk	1
		EPA 6010	JPk	3
		ASTM D2974-87	SCM	1
50124769025	B-45(6-8)	EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
		ASTM D2974-87	SCM	1
50124769026	DUP	EPA 6010	JPk	1
		ASTM D2974-87	SCM	1
		ASTM D2974-87	SCM	1
50124769027	Composite	EPA 6010	JPk	7
		EPA 7470	JGJ	1
		EPA 8270	TBP	18
50124769028	B-35(2-4)	EPA 8260	JLZ	13
		ASTM D2974-87	SCM	1
		EPA 8270	TBP	66
50124769030	B-45(4-6)	EPA 8260	TMW	75
		ASTM D2974-87	SCM	1
		EPA 8270	TBP	66
		EPA 8260	JLZ	75
		ASTM D2974-87	SCM	1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50124769001	B-1(4-6)					
EPA 6010	Lead	64600	mg/kg	48.4	08/07/15 03:16	
EPA 6010	Lead	134000	ug/L	100	08/08/15 00:00	
ASTM D2974-87	Percent Moisture	11.9	%	0.10	08/06/15 11:05	
50124769002	B-3(4-6)					
EPA 6010	Lead	60700	mg/kg	50.4	08/07/15 03:25	
EPA 6010	Lead	27700	ug/L	100	08/08/15 00:08	
ASTM D2974-87	Percent Moisture	16.4	%	0.10	08/06/15 11:06	
50124769003	B-5(6-8)					
EPA 6010	Lead	1240	mg/kg	1.0	08/07/15 03:04	
EPA 6010	Lead	23300	ug/L	100	08/08/15 00:10	
ASTM D2974-87	Percent Moisture	15.3	%	0.10	08/06/15 11:06	
50124769004	B-6(2-4)					
EPA 6010	Lead	2150	mg/kg	1.0	08/07/15 03:06	
ASTM D2974-87	Percent Moisture	12.6	%	0.10	08/06/15 11:06	
50124769005	B-7(0-2)					
EPA 6010	Lead	49.8	mg/kg	1.1	08/07/15 03:09	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	08/06/15 11:06	
50124769006	B-8(10-12)					
EPA 6010	Lead	37.0	mg/kg	1.0	08/07/15 03:11	
ASTM D2974-87	Percent Moisture	4.4	%	0.10	08/06/15 11:06	
50124769007	B-10(0-2)					
EPA 6010	Lead	1560	mg/kg	1.1	08/07/15 03:27	
EPA 6010	Lead	6220	ug/L	100	08/08/15 00:12	
ASTM D2974-87	Percent Moisture	15.2	%	0.10	08/06/15 11:07	
50124769008	B-16(8-10)					
EPA 6010	Lead	552	mg/kg	1.0	08/07/15 03:29	
ASTM D2974-87	Percent Moisture	13.3	%	0.10	08/06/15 11:07	
50124769009	B-16(14-16)					
EPA 6010	Lead	3.2	mg/kg	0.95	08/08/15 01:40	
ASTM D2974-87	Percent Moisture	11.7	%	0.10	08/06/15 11:07	
50124769010	B-17(6-8)					
EPA 6010	Lead	47.8	mg/kg	1.0	08/07/15 03:43	
ASTM D2974-87	Percent Moisture	5.9	%	0.10	08/06/15 11:07	
50124769011	B-19(4-6)					
EPA 6010	Lead	361	mg/kg	1.1	08/07/15 04:23	
ASTM D2974-87	Percent Moisture	12.8	%	0.10	08/06/15 11:07	
50124769012	B-22(10-12)					
EPA 6010	Lead	64.6	mg/kg	0.97	08/07/15 03:54	
ASTM D2974-87	Percent Moisture	5.5	%	0.10	08/06/15 11:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50124769013	B-23(8-10)					
EPA 6010	Lead	2340	mg/kg	1.2	08/07/15 03:56	
ASTM D2974-87	Percent Moisture	21.1	%	0.10	08/06/15 11:08	
50124769014	B-23(12-14)					
EPA 6010	Lead	819	mg/kg	1.1	08/07/15 03:58	
ASTM D2974-87	Percent Moisture	13.4	%	0.10	08/06/15 11:08	
50124769015	B-26(2-4)					
EPA 6010	Lead	518	mg/kg	0.95	08/07/15 04:00	
ASTM D2974-87	Percent Moisture	5.6	%	0.10	08/06/15 11:08	
50124769016	B-29(0-2)					
EPA 6010	Lead	579	mg/kg	1.1	08/07/15 04:02	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	08/06/15 11:08	
50124769017	B-29(6-8)					
EPA 6010	Lead	4510	mg/kg	1.0	08/07/15 04:05	
ASTM D2974-87	Percent Moisture	9.2	%	0.10	08/06/15 11:08	
50124769018	B-29(8-10)					
EPA 6010	Lead	39600	mg/kg	10.3	08/07/15 04:14	
EPA 6010	Lead	144000	ug/L	100	08/08/15 00:14	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	08/06/15 11:09	
50124769019	B-29(12-14)					
EPA 6010	Lead	853	mg/kg	1.3	08/07/15 04:09	
ASTM D2974-87	Percent Moisture	24.1	%	0.10	08/06/15 11:09	
50124769020	B-29(14-16)					
EPA 6010	Lead	15.6	mg/kg	1.2	08/07/15 04:16	
ASTM D2974-87	Percent Moisture	21.7	%	0.10	08/06/15 11:09	
50124769021	B-39(4-6)					
EPA 6010	Lead	116	mg/kg	1.1	08/07/15 02:17	
ASTM D2974-87	Percent Moisture	13.3	%	0.10	08/06/15 11:22	
50124769022	B-41(2-4)					
EPA 6010	Lead	13.6	mg/kg	1.1	08/07/15 02:33	
ASTM D2974-87	Percent Moisture	14.6	%	0.10	08/06/15 11:22	
50124769023	B-42(0-2)					
EPA 6010	Lead	56.3	mg/kg	1.0	08/07/15 02:35	
ASTM D2974-87	Percent Moisture	14.4	%	0.10	08/06/15 11:22	
50124769024	B-45(2-4)					
EPA 6010	Lead	799	mg/kg	1.1	08/07/15 02:38	
EPA 6010	Lead	887	ug/L	100	08/08/15 00:21	
ASTM D2974-87	Percent Moisture	11.0	%	0.10	08/06/15 11:23	
50124769025	B-45(6-8)					
EPA 6010	Lead	2660	mg/kg	1.2	08/07/15 02:40	
ASTM D2974-87	Percent Moisture	21.5	%	0.10	08/06/15 11:23	

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SUMMARY OF DETECTION

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50124769026	DUP					
EPA 6010	Lead	759	mg/kg	0.97	08/07/15 02:42	
ASTM D2974-87	Percent Moisture	10.7	%	0.10	08/06/15 11:23	
50124769027	Composite					
EPA 6010	Lead	52000	ug/L	100	08/08/15 00:23	
ASTM D2974-87	Percent Moisture	13.9	%	0.10	08/06/15 11:23	
50124769028	B-35(2-4)					
EPA 8270	Acenaphthene	527	ug/kg	377	08/07/15 16:58	
EPA 8270	Anthracene	938	ug/kg	377	08/07/15 16:58	
EPA 8270	Benzo(a)anthracene	1070	ug/kg	377	08/07/15 16:58	
EPA 8270	Benzo(g,h,i)perylene	505	ug/kg	377	08/07/15 16:58	
EPA 8270	Chrysene	2320	ug/kg	377	08/07/15 16:58	
EPA 8270	Dibenzofuran	675	ug/kg	377	08/07/15 16:58	
EPA 8270	Fluoranthene	2020	ug/kg	377	08/07/15 16:58	
EPA 8270	Fluorene	762	ug/kg	377	08/07/15 16:58	
EPA 8270	2-Methylnaphthalene	907	ug/kg	377	08/07/15 16:58	
EPA 8270	Naphthalene	3080	ug/kg	377	08/07/15 16:58	
EPA 8270	Phenanthrene	3300	ug/kg	377	08/07/15 16:58	
EPA 8270	Pyrene	1970	ug/kg	377	08/07/15 16:58	
ASTM D2974-87	Percent Moisture	13.1	%	0.10	08/07/15 08:54	
50124769030	B-45(4-6)					
EPA 8270	Benzo(a)pyrene	704	ug/kg	203	08/10/15 14:24	
EPA 8270	Chrysene	969	ug/kg	394	08/10/15 14:24	
EPA 8270	Pyrene	789	ug/kg	394	08/10/15 14:24	
ASTM D2974-87	Percent Moisture	16.9	%	0.10	08/07/15 08:54	

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-1(4-6) **Lab ID: 50124769001** Collected: 07/29/15 11:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	64600	mg/kg	48.4	50	08/06/15 07:44	08/07/15 03:16	7439-92-1	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Lead	134000	ug/L	100	1	08/07/15 16:50	08/08/15 00:00	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	11.9	%	0.10	1		08/06/15 11:05		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-3(4-6) **Lab ID: 50124769002** Collected: 07/29/15 12:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	60700	mg/kg	50.4	50	08/06/15 07:44	08/07/15 03:25	7439-92-1	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Lead	27700	ug/L	100	1	08/07/15 16:50	08/08/15 00:08	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	16.4	%	0.10	1		08/06/15 11:06		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-5(6-8) **Lab ID: 50124769003** Collected: 07/29/15 13:00 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	1240	mg/kg	1.0	1	08/06/15 07:44	08/07/15 03:04	7439-92-1	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Lead	23300	ug/L	100	1	08/07/15 16:50	08/08/15 00:10	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	15.3	%	0.10	1		08/06/15 11:06		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-6(2-4) **Lab ID: 50124769004** Collected: 07/29/15 13:25 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	2150	mg/kg	1.0	1	08/06/15 07:44	08/07/15 03:06	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	12.6	%	0.10	1		08/06/15 11:06		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-7(0-2) **Lab ID: 50124769005** Collected: 07/29/15 13:50 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	49.8	mg/kg	1.1	1	08/06/15 07:44	08/07/15 03:09	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	14.7	%	0.10	1		08/06/15 11:06		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-8(10-12) **Lab ID: 50124769006** Collected: 07/29/15 14:30 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	37.0	mg/kg	1.0	1	08/06/15 07:44	08/07/15 03:11	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.4	%	0.10	1		08/06/15 11:06		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-10(0-2) **Lab ID: 50124769007** Collected: 07/29/15 15:00 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	1560	mg/kg	1.1	1	08/06/15 07:44	08/07/15 03:27	7439-92-1	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Lead	6220	ug/L	100	1	08/07/15 16:50	08/08/15 00:12	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	15.2	%	0.10	1		08/06/15 11:07		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-16(8-10) **Lab ID: 50124769008** Collected: 07/30/15 07:50 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	552	mg/kg	1.0	1	08/06/15 07:44	08/07/15 03:29	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	13.3	%	0.10	1		08/06/15 11:07		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-16(14-16) **Lab ID: 50124769009** Collected: 07/30/15 07:55 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	3.2	mg/kg	0.95	1	08/07/15 08:41	08/08/15 01:40	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	11.7	%	0.10	1		08/06/15 11:07		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-17(6-8) **Lab ID: 50124769010** Collected: 07/30/15 08:35 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	47.8	mg/kg	1.0	1	08/06/15 07:44	08/07/15 03:43	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	5.9	%	0.10	1		08/06/15 11:07		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-19(4-6) **Lab ID: 50124769011** Collected: 07/30/15 09:30 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	361	mg/kg	1.1	1	08/06/15 07:44	08/07/15 04:23	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	12.8	%	0.10	1		08/06/15 11:07		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-22(10-12) **Lab ID: 50124769012** Collected: 07/30/15 10:40 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	64.6	mg/kg	0.97	1	08/06/15 07:44	08/07/15 03:54	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	5.5	%	0.10	1		08/06/15 11:07		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-23(8-10) **Lab ID: 50124769013** Collected: 07/30/15 12:20 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	2340	mg/kg	1.2	1	08/06/15 07:44	08/07/15 03:56	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	21.1	%	0.10	1		08/06/15 11:08		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-23(12-14) **Lab ID: 50124769014** Collected: 07/30/15 12:25 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	819	mg/kg	1.1	1	08/06/15 07:44	08/07/15 03:58	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	13.4	%	0.10	1		08/06/15 11:08		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-26(2-4) **Lab ID: 50124769015** Collected: 07/30/15 13:25 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	518	mg/kg	0.95	1	08/06/15 07:44	08/07/15 04:00	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	5.6	%	0.10	1		08/06/15 11:08		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-29(0-2) **Lab ID: 50124769016** Collected: 07/30/15 15:00 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	579	mg/kg	1.1	1	08/06/15 07:44	08/07/15 04:02	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	14.1	%	0.10	1		08/06/15 11:08		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-29(6-8) **Lab ID: 50124769017** Collected: 07/30/15 15:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	4510	mg/kg	1.0	1	08/06/15 07:44	08/07/15 04:05	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	9.2	%	0.10	1		08/06/15 11:08		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-29(8-10) **Lab ID: 50124769018** Collected: 07/30/15 15:15 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	39600	mg/kg	10.3	10	08/06/15 07:44	08/07/15 04:14	7439-92-1	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Lead	144000	ug/L	100	1	08/07/15 16:50	08/08/15 00:14	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	15.0	%	0.10	1		08/06/15 11:09		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-29(12-14) **Lab ID: 50124769019** Collected: 07/30/15 15:25 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	853	mg/kg	1.3	1	08/06/15 07:44	08/07/15 04:09	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	24.1	%	0.10	1		08/06/15 11:09		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-29(14-16) **Lab ID: 50124769020** Collected: 07/30/15 15:30 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	15.6	mg/kg	1.2	1	08/06/15 07:44	08/07/15 04:16	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	21.7	%	0.10	1		08/06/15 11:09		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-39(4-6) **Lab ID: 50124769021** Collected: 07/31/15 09:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	116	mg/kg	1.1	1	08/06/15 07:42	08/07/15 02:17	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	13.3	%	0.10	1		08/06/15 11:22		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-41(2-4) **Lab ID: 50124769022** Collected: 07/31/15 09:45 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	13.6	mg/kg	1.1	1	08/06/15 07:42	08/07/15 02:33	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	14.6	%	0.10	1		08/06/15 11:22		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-42(0-2) **Lab ID: 50124769023** Collected: 07/31/15 10:00 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	56.3	mg/kg	1.0	1	08/06/15 07:42	08/07/15 02:35	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	14.4	%	0.10	1		08/06/15 11:22		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-45(2-4) **Lab ID: 50124769024** Collected: 07/31/15 11:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	799	mg/kg	1.1	1	08/06/15 07:42	08/07/15 02:38	7439-92-1	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Cadmium	ND	ug/L	50.0	1	08/07/15 16:50	08/08/15 00:21	7440-43-9	
Chromium	ND	ug/L	100	1	08/07/15 16:50	08/08/15 00:21	7440-47-3	
Lead	887	ug/L	100	1	08/07/15 16:50	08/08/15 00:21	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	11.0	%	0.10	1		08/06/15 11:23		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-45(6-8) **Lab ID: 50124769025** Collected: 07/31/15 11:15 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	2660	mg/kg	1.2	1	08/06/15 07:42	08/07/15 02:40	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	21.5	%	0.10	1		08/06/15 11:23		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: DUP **Lab ID:** 50124769026 Collected: 07/30/15 08:00 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	759	mg/kg	0.97	1	08/06/15 07:42	08/07/15 02:42	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	10.7	%	0.10	1		08/06/15 11:23		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: Composite **Lab ID: 50124769027** Collected: 07/31/15 11:15 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Arsenic	ND	ug/L	100	1	08/07/15 16:50	08/08/15 00:23	7440-38-2	
Barium	ND	ug/L	5000	1	08/07/15 16:50	08/08/15 00:23	7440-39-3	
Cadmium	ND	ug/L	50.0	1	08/07/15 16:50	08/08/15 00:23	7440-43-9	
Chromium	ND	ug/L	100	1	08/07/15 16:50	08/08/15 00:23	7440-47-3	
Lead	52000	ug/L	100	1	08/07/15 16:50	08/08/15 00:23	7439-92-1	
Selenium	ND	ug/L	100	1	08/07/15 16:50	08/08/15 00:23	7782-49-2	
Silver	ND	ug/L	100	1	08/07/15 16:50	08/08/15 00:23	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
Mercury	ND	mg/L	0.0020	1	08/07/15 23:36	08/10/15 19:23	7439-97-6	
8270 MSSV TCLP Sep Funnel								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Leachate Method/Date: EPA 1311; 08/06/15 18:45								
1,4-Dichlorobenzene	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	118-74-1	
Hexachloroethane	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	200	1	08/09/15 20:28	08/10/15 10:14		
Nitrobenzene	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	98-95-3	
Pentachlorophenol	ND	ug/L	500	1	08/09/15 20:28	08/10/15 10:14	87-86-5	
Pyridine	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	500	1	08/09/15 20:28	08/10/15 10:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	08/09/15 20:28	08/10/15 10:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	59	%	29-126	1	08/09/15 20:28	08/10/15 10:14	4165-60-0	
2-Fluorobiphenyl (S)	55	%	31-118	1	08/09/15 20:28	08/10/15 10:14	321-60-8	
p-Terphenyl-d14 (S)	42	%	28-129	1	08/09/15 20:28	08/10/15 10:14	1718-51-0	
Phenol-d5 (S)	14	%	10-47	1	08/09/15 20:28	08/10/15 10:14	4165-62-2	
2-Fluorophenol (S)	24	%	10-67	1	08/09/15 20:28	08/10/15 10:14	367-12-4	
2,4,6-Tribromophenol (S)	75	%	31-161	1	08/09/15 20:28	08/10/15 10:14	118-79-6	
8260 MSV TCLP								
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 08/06/15 18:10								
Benzene	ND	ug/L	50.0	1		08/10/15 12:01	71-43-2	
2-Butanone (MEK)	ND	ug/L	1000	1		08/10/15 12:01	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		08/10/15 12:01	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		08/10/15 12:01	108-90-7	
Chloroform	ND	ug/L	50.0	1		08/10/15 12:01	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		08/10/15 12:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		08/10/15 12:01	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		08/10/15 12:01	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		08/10/15 12:01	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		08/10/15 12:01	75-01-4	

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: Composite **Lab ID: 50124769027** Collected: 07/31/15 11:15 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 08/06/15 18:10								
Surrogates								
Toluene-d8 (S)	99	%.	81-110	1		08/10/15 12:01	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	80-114	1		08/10/15 12:01	460-00-4	
Dibromofluoromethane (S)	101	%.	79-116	1		08/10/15 12:01	1868-53-7	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	13.9	%	0.10	1		08/06/15 11:23		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-35(2-4) Lab ID: 50124769028 Collected: 07/31/15 07:35 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	527	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	83-32-9	
Acenaphthylene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	208-96-8	
Anthracene	938	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	120-12-7	
Benzo(a)anthracene	1070	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	56-55-3	
Benzo(a)pyrene	ND	ug/kg	194	1	08/06/15 22:45	08/07/15 16:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	205-99-2	
Benzo(g,h,i)perylene	505	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	207-08-9	
Benzyl alcohol	ND	ug/kg	754	1	08/06/15 22:45	08/07/15 16:58	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	101-55-3	
Butylbenzylphthalate	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	754	1	08/06/15 22:45	08/07/15 16:58	59-50-7	
4-Chloroaniline	ND	ug/kg	754	1	08/06/15 22:45	08/07/15 16:58	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	108-60-1	
2-Chloronaphthalene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	91-58-7	
2-Chlorophenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	7005-72-3	
Chrysene	2320	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	194	1	08/06/15 22:45	08/07/15 16:58	53-70-3	
Dibenzofuran	675	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	754	1	08/06/15 22:45	08/07/15 16:58	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	120-83-2	
Diethylphthalate	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	105-67-9	
Dimethylphthalate	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	131-11-3	
Di-n-butylphthalate	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	606-20-2	
Di-n-octylphthalate	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	117-81-7	
Fluoranthene	2020	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	206-44-0	
Fluorene	762	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	87-68-3	
Hexachlorobenzene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	77-47-4	
Hexachloroethane	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	193-39-5	
Isophorone	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	78-59-1	
2-Methylnaphthalene	907	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	754	1	08/06/15 22:45	08/07/15 16:58		
Naphthalene	3080	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	91-20-3	

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-35(2-4) Lab ID: 50124769028 Collected: 07/31/15 07:35 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546								
2-Nitroaniline	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	99-09-2	
4-Nitroaniline	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	100-01-6	
Nitrobenzene	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	98-95-3	
2-Nitrophenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	86-30-6	
Pentachlorophenol	ND	ug/kg	1830	1	08/06/15 22:45	08/07/15 16:58	87-86-5	
Phenanthrene	3300	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	85-01-8	
Phenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	108-95-2	
Pyrene	1970	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	377	1	08/06/15 22:45	08/07/15 16:58	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	45	%.	28-101	1	08/06/15 22:45	08/07/15 16:58	4165-60-0	
2-Fluorobiphenyl (S)	47	%.	31-94	1	08/06/15 22:45	08/07/15 16:58	321-60-8	
p-Terphenyl-d14 (S)	44	%.	26-110	1	08/06/15 22:45	08/07/15 16:58	1718-51-0	
Phenol-d5 (S)	53	%.	28-101	1	08/06/15 22:45	08/07/15 16:58	4165-62-2	
2-Fluorophenol (S)	52	%.	24-104	1	08/06/15 22:45	08/07/15 16:58	367-12-4	
2,4,6-Tribromophenol (S)	56	%.	16-122	1	08/06/15 22:45	08/07/15 16:58	118-79-6	

8260 MSV 5030 Low Level

Analytical Method: EPA 8260

Acetone	ND	ug/kg	115	1	08/08/15 05:40	67-64-1	
Acrolein	ND	ug/kg	115	1	08/08/15 05:40	107-02-8	
Acrylonitrile	ND	ug/kg	115	1	08/08/15 05:40	107-13-1	
Benzene	ND	ug/kg	5.8	1	08/08/15 05:40	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1	08/08/15 05:40	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1	08/08/15 05:40	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1	08/08/15 05:40	75-27-4	
Bromoform	ND	ug/kg	5.8	1	08/08/15 05:40	75-25-2	
Bromomethane	ND	ug/kg	5.8	1	08/08/15 05:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	28.8	1	08/08/15 05:40	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1	08/08/15 05:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1	08/08/15 05:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1	08/08/15 05:40	98-06-6	
Carbon disulfide	ND	ug/kg	11.5	1	08/08/15 05:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1	08/08/15 05:40	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1	08/08/15 05:40	108-90-7	
Chloroethane	ND	ug/kg	5.8	1	08/08/15 05:40	75-00-3	
Chloroform	ND	ug/kg	5.8	1	08/08/15 05:40	67-66-3	
Chloromethane	ND	ug/kg	5.8	1	08/08/15 05:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1	08/08/15 05:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1	08/08/15 05:40	106-43-4	
Dibromochloromethane	ND	ug/kg	5.8	1	08/08/15 05:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1	08/08/15 05:40	106-93-4	

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-35(2-4) Lab ID: 50124769028 Collected: 07/31/15 07:35 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Dibromomethane	ND	ug/kg	5.8	1		08/08/15 05:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		08/08/15 05:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		08/08/15 05:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		08/08/15 05:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	115	1		08/08/15 05:40	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		08/08/15 05:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		08/08/15 05:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		08/08/15 05:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		08/08/15 05:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		08/08/15 05:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		08/08/15 05:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		08/08/15 05:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		08/08/15 05:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		08/08/15 05:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		08/08/15 05:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		08/08/15 05:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		08/08/15 05:40	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		08/08/15 05:40	100-41-4	
Ethyl methacrylate	ND	ug/kg	115	1		08/08/15 05:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		08/08/15 05:40	87-68-3	
n-Hexane	ND	ug/kg	5.8	1		08/08/15 05:40	110-54-3	
2-Hexanone	ND	ug/kg	115	1		08/08/15 05:40	591-78-6	
Iodomethane	ND	ug/kg	115	1		08/08/15 05:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		08/08/15 05:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		08/08/15 05:40	99-87-6	
Methylene Chloride	ND	ug/kg	23.0	1		08/08/15 05:40	75-09-2	
1-Methylnaphthalene	ND	ug/kg	11.5	1		08/08/15 05:40	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	11.5	1		08/08/15 05:40	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	28.8	1		08/08/15 05:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		08/08/15 05:40	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		08/08/15 05:40	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		08/08/15 05:40	103-65-1	
Styrene	ND	ug/kg	5.8	1		08/08/15 05:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		08/08/15 05:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		08/08/15 05:40	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		08/08/15 05:40	127-18-4	
Toluene	ND	ug/kg	5.8	1		08/08/15 05:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		08/08/15 05:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		08/08/15 05:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		08/08/15 05:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		08/08/15 05:40	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		08/08/15 05:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		08/08/15 05:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		08/08/15 05:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		08/08/15 05:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		08/08/15 05:40	108-67-8	

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-35(2-4) **Lab ID: 50124769028** Collected: 07/31/15 07:35 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/kg	115	1		08/08/15 05:40	108-05-4	
Vinyl chloride	ND	ug/kg	5.8	1		08/08/15 05:40	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		08/08/15 05:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	85-118	1		08/08/15 05:40	1868-53-7	
Toluene-d8 (S)	116	%.	71-128	1		08/08/15 05:40	2037-26-5	
4-Bromofluorobenzene (S)	76	%.	56-144	1		08/08/15 05:40	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.1	%	0.10	1		08/07/15 08:54		

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-45(4-6) Lab ID: 50124769030 Collected: 07/31/15 11:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	83-32-9	
Acenaphthylene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	208-96-8	
Anthracene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	56-55-3	
Benzo(a)pyrene	704	ug/kg	203	1	08/10/15 10:40	08/10/15 14:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	207-08-9	
Benzyl alcohol	ND	ug/kg	789	1	08/10/15 10:40	08/10/15 14:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	789	1	08/10/15 10:40	08/10/15 14:24	59-50-7	
4-Chloroaniline	ND	ug/kg	789	1	08/10/15 10:40	08/10/15 14:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	108-60-1	
2-Chloronaphthalene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	91-58-7	
2-Chlorophenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	7005-72-3	
Chrysene	969	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	203	1	08/10/15 10:40	08/10/15 14:24	53-70-3	
Dibenzofuran	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	789	1	08/10/15 10:40	08/10/15 14:24	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	120-83-2	
Diethylphthalate	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	105-67-9	
Dimethylphthalate	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	117-81-7	
Fluoranthene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	206-44-0	
Fluorene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	77-47-4	
Hexachloroethane	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	193-39-5	
Isophorone	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	78-59-1	
2-Methylnaphthalene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	789	1	08/10/15 10:40	08/10/15 14:24		
Naphthalene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-45(4-6) Lab ID: 50124769030 Collected: 07/31/15 11:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV SHORT LIST MICROWAVE Analytical Method: EPA 8270 Preparation Method: EPA 3546

2-Nitroaniline	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	88-74-4	
3-Nitroaniline	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	99-09-2	
4-Nitroaniline	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	100-01-6	
Nitrobenzene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	98-95-3	
2-Nitrophenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	88-75-5	
4-Nitrophenol	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	86-30-6	
Pentachlorophenol	ND	ug/kg	1910	1	08/10/15 10:40	08/10/15 14:24	87-86-5	
Phenanthrene	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	85-01-8	
Phenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	108-95-2	
Pyrene	789	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	394	1	08/10/15 10:40	08/10/15 14:24	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	53	%	28-101	1	08/10/15 10:40	08/10/15 14:24	4165-60-0	
2-Fluorobiphenyl (S)	52	%	31-94	1	08/10/15 10:40	08/10/15 14:24	321-60-8	
p-Terphenyl-d14 (S)	55	%	26-110	1	08/10/15 10:40	08/10/15 14:24	1718-51-0	
Phenol-d5 (S)	46	%	28-101	1	08/10/15 10:40	08/10/15 14:24	4165-62-2	
2-Fluorophenol (S)	41	%	24-104	1	08/10/15 10:40	08/10/15 14:24	367-12-4	
2,4,6-Tribromophenol (S)	59	%	16-122	1	08/10/15 10:40	08/10/15 14:24	118-79-6	

8260 MSV 5030 Low Level

Analytical Method: EPA 8260

Acetone	ND	ug/kg	120	1	08/10/15 12:49	67-64-1
Acrolein	ND	ug/kg	120	1	08/10/15 12:49	107-02-8
Acrylonitrile	ND	ug/kg	120	1	08/10/15 12:49	107-13-1
Benzene	ND	ug/kg	6.0	1	08/10/15 12:49	71-43-2
Bromobenzene	ND	ug/kg	6.0	1	08/10/15 12:49	108-86-1
Bromochloromethane	ND	ug/kg	6.0	1	08/10/15 12:49	74-97-5
Bromodichloromethane	ND	ug/kg	6.0	1	08/10/15 12:49	75-27-4
Bromoform	ND	ug/kg	6.0	1	08/10/15 12:49	75-25-2
Bromomethane	ND	ug/kg	6.0	1	08/10/15 12:49	74-83-9
2-Butanone (MEK)	ND	ug/kg	30.1	1	08/10/15 12:49	78-93-3
n-Butylbenzene	ND	ug/kg	6.0	1	08/10/15 12:49	104-51-8
sec-Butylbenzene	ND	ug/kg	6.0	1	08/10/15 12:49	135-98-8
tert-Butylbenzene	ND	ug/kg	6.0	1	08/10/15 12:49	98-06-6
Carbon disulfide	ND	ug/kg	12.0	1	08/10/15 12:49	75-15-0
Carbon tetrachloride	ND	ug/kg	6.0	1	08/10/15 12:49	56-23-5
Chlorobenzene	ND	ug/kg	6.0	1	08/10/15 12:49	108-90-7
Chloroethane	ND	ug/kg	6.0	1	08/10/15 12:49	75-00-3
Chloroform	ND	ug/kg	6.0	1	08/10/15 12:49	67-66-3
Chloromethane	ND	ug/kg	6.0	1	08/10/15 12:49	74-87-3
2-Chlorotoluene	ND	ug/kg	6.0	1	08/10/15 12:49	95-49-8
4-Chlorotoluene	ND	ug/kg	6.0	1	08/10/15 12:49	106-43-4
Dibromochloromethane	ND	ug/kg	6.0	1	08/10/15 12:49	124-48-1
1,2-Dibromoethane (EDB)	ND	ug/kg	6.0	1	08/10/15 12:49	106-93-4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-45(4-6) Lab ID: 50124769030 Collected: 07/31/15 11:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Dibromomethane	ND	ug/kg	6.0	1		08/10/15 12:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.0	1		08/10/15 12:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.0	1		08/10/15 12:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.0	1		08/10/15 12:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	120	1		08/10/15 12:49	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.0	1		08/10/15 12:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.0	1		08/10/15 12:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.0	1		08/10/15 12:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.0	1		08/10/15 12:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.0	1		08/10/15 12:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.0	1		08/10/15 12:49	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.0	1		08/10/15 12:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.0	1		08/10/15 12:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.0	1		08/10/15 12:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.0	1		08/10/15 12:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.0	1		08/10/15 12:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.0	1		08/10/15 12:49	10061-02-6	
Ethylbenzene	ND	ug/kg	6.0	1		08/10/15 12:49	100-41-4	
Ethyl methacrylate	ND	ug/kg	120	1		08/10/15 12:49	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.0	1		08/10/15 12:49	87-68-3	
n-Hexane	ND	ug/kg	6.0	1		08/10/15 12:49	110-54-3	
2-Hexanone	ND	ug/kg	120	1		08/10/15 12:49	591-78-6	
Iodomethane	ND	ug/kg	120	1		08/10/15 12:49	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.0	1		08/10/15 12:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.0	1		08/10/15 12:49	99-87-6	
Methylene Chloride	ND	ug/kg	24.1	1		08/10/15 12:49	75-09-2	
1-Methylnaphthalene	ND	ug/kg	12.0	1		08/10/15 12:49	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	12.0	1		08/10/15 12:49	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.1	1		08/10/15 12:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.0	1		08/10/15 12:49	1634-04-4	
Naphthalene	ND	ug/kg	6.0	1		08/10/15 12:49	91-20-3	
n-Propylbenzene	ND	ug/kg	6.0	1		08/10/15 12:49	103-65-1	
Styrene	ND	ug/kg	6.0	1		08/10/15 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.0	1		08/10/15 12:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	1		08/10/15 12:49	79-34-5	
Tetrachloroethene	ND	ug/kg	6.0	1		08/10/15 12:49	127-18-4	
Toluene	ND	ug/kg	6.0	1		08/10/15 12:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.0	1		08/10/15 12:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.0	1		08/10/15 12:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.0	1		08/10/15 12:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.0	1		08/10/15 12:49	79-00-5	
Trichloroethene	ND	ug/kg	6.0	1		08/10/15 12:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.0	1		08/10/15 12:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.0	1		08/10/15 12:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.0	1		08/10/15 12:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.0	1		08/10/15 12:49	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IPL-Morris Street

Pace Project No.: 50124769

Sample: B-45(4-6) **Lab ID: 50124769030** Collected: 07/31/15 11:10 Received: 08/04/15 16:39 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/kg	120	1		08/10/15 12:49	108-05-4	
Vinyl chloride	ND	ug/kg	6.0	1		08/10/15 12:49	75-01-4	
Xylene (Total)	ND	ug/kg	12.0	1		08/10/15 12:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	85-118	1		08/10/15 12:49	1868-53-7	
Toluene-d8 (S)	104	%.	71-128	1		08/10/15 12:49	2037-26-5	
4-Bromofluorobenzene (S)	85	%.	56-144	1		08/10/15 12:49	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.9	%	0.10	1		08/07/15 08:54		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MERP/6661

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 50124769027

METHOD BLANK: 1353317

Matrix: Water

Associated Lab Samples: 50124769027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	08/10/15 19:19	

LABORATORY CONTROL SAMPLE: 1353318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.015	0.015	99	80-120	

MATRIX SPIKE SAMPLE: 1353319

Parameter	Units	50124769027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	.015	0.015	102	75-125	

MATRIX SPIKE SAMPLE: 1353320

Parameter	Units	50124930003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.042	.015	0.059	110	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch:	MPRP/17162	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	50124769001, 50124769002, 50124769003, 50124769004, 50124769005, 50124769006, 50124769007, 50124769008, 50124769009, 50124769010, 50124769011, 50124769012, 50124769013, 50124769014, 50124769015, 50124769016, 50124769017, 50124769018, 50124769019, 50124769020		

METHOD BLANK: 1351275 Matrix: Solid

Associated Lab Samples: 50124769001, 50124769002, 50124769003, 50124769004, 50124769005, 50124769006, 50124769007, 50124769008, 50124769009, 50124769010, 50124769011, 50124769012, 50124769013, 50124769014, 50124769015, 50124769016, 50124769017, 50124769018, 50124769019, 50124769020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	2.2	1.0	08/07/15 02:55	P8

LABORATORY CONTROL SAMPLE: 1351276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	57.6	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1351277 1351278

Parameter	Units	50124769009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	3.2	50.8	48.7	44.4	43.7	80	82	75-125	1	20	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MPRP/17163

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Associated Lab Samples: 50124769021, 50124769022, 50124769023, 50124769024, 50124769025, 50124769026

METHOD BLANK: 1351279

Matrix: Solid

Associated Lab Samples: 50124769021, 50124769022, 50124769023, 50124769024, 50124769025, 50124769026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	08/07/15 02:13	

LABORATORY CONTROL SAMPLE: 1351280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1351281 1351282

Parameter	Units	50124769021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	116	52.2	50.8	143	164	51	94	75-125	14	20	M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MPRP/17185

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Associated Lab Samples: 50124769009

METHOD BLANK: 1352421

Matrix: Solid

Associated Lab Samples: 50124769009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	08/08/15 01:31	

LABORATORY CONTROL SAMPLE: 1352422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	48.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1352423 1352424

Parameter	Units	50124769009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	3.2	53.5	54.7	48.2	49.0	84	84	75-125	2	20	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MPRP/17197

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 50124769001, 50124769002, 50124769003, 50124769007, 50124769018, 50124769024, 50124769027

METHOD BLANK: 1353231

Matrix: Water

Associated Lab Samples: 50124769001, 50124769002, 50124769003, 50124769007, 50124769018, 50124769024, 50124769027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	100	08/07/15 23:56	
Barium	ug/L	ND	5000	08/07/15 23:56	
Cadmium	ug/L	ND	50.0	08/07/15 23:56	
Chromium	ug/L	ND	100	08/07/15 23:56	
Lead	ug/L	ND	100	08/07/15 23:56	
Selenium	ug/L	ND	100	08/07/15 23:56	
Silver	ug/L	ND	100	08/07/15 23:56	

LABORATORY CONTROL SAMPLE: 1353232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	10000	9280	93	80-120	
Barium	ug/L	10000	8820	88	80-120	
Cadmium	ug/L	10000	9040	90	80-120	
Chromium	ug/L	10000	8820	88	80-120	
Lead	ug/L	10000	8490	85	80-120	
Selenium	ug/L	10000	9200	92	80-120	
Silver	ug/L	5000	4220	84	80-120	

MATRIX SPIKE SAMPLE: 1353233

Parameter	Units	50124769001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	10000	9170	92	50-150	
Barium	ug/L	ND	10000	8870	86	50-150	
Cadmium	ug/L	ND	10000	8830	88	50-150	
Chromium	ug/L	ND	10000	8590	86	50-150	
Lead	ug/L	134000	10000	141000	72	50-150	
Selenium	ug/L	ND	10000	9090	91	50-150	
Silver	ug/L	ND	5000	4140	82	50-150	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MSV/79890

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 50124769028

METHOD BLANK: 1353175

Matrix: Solid

Associated Lab Samples: 50124769028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/08/15 03:49	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/08/15 03:49	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/08/15 03:49	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/08/15 03:49	
1,1-Dichloroethane	ug/kg	ND	5.0	08/08/15 03:49	
1,1-Dichloroethene	ug/kg	ND	5.0	08/08/15 03:49	
1,1-Dichloropropene	ug/kg	ND	5.0	08/08/15 03:49	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	08/08/15 03:49	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/08/15 03:49	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	08/08/15 03:49	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/08/15 03:49	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/08/15 03:49	
1,2-Dichloroethane	ug/kg	ND	5.0	08/08/15 03:49	
1,2-Dichloropropane	ug/kg	ND	5.0	08/08/15 03:49	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
1,3-Dichlorobenzene	ug/kg	ND	5.0	08/08/15 03:49	
1,3-Dichloropropane	ug/kg	ND	5.0	08/08/15 03:49	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/08/15 03:49	
1-Methylnaphthalene	ug/kg	ND	10.0	08/08/15 03:49	N2
2,2-Dichloropropane	ug/kg	ND	5.0	08/08/15 03:49	
2-Butanone (MEK)	ug/kg	ND	25.0	08/08/15 03:49	
2-Chlorotoluene	ug/kg	ND	5.0	08/08/15 03:49	
2-Hexanone	ug/kg	ND	100	08/08/15 03:49	
2-Methylnaphthalene	ug/kg	ND	10.0	08/08/15 03:49	
4-Chlorotoluene	ug/kg	ND	5.0	08/08/15 03:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	08/08/15 03:49	
Acetone	ug/kg	ND	100	08/08/15 03:49	
Acrolein	ug/kg	ND	100	08/08/15 03:49	
Acrylonitrile	ug/kg	ND	100	08/08/15 03:49	
Benzene	ug/kg	ND	5.0	08/08/15 03:49	
Bromobenzene	ug/kg	ND	5.0	08/08/15 03:49	
Bromochloromethane	ug/kg	ND	5.0	08/08/15 03:49	
Bromodichloromethane	ug/kg	ND	5.0	08/08/15 03:49	
Bromoform	ug/kg	ND	5.0	08/08/15 03:49	
Bromomethane	ug/kg	ND	5.0	08/08/15 03:49	
Carbon disulfide	ug/kg	ND	10.0	08/08/15 03:49	
Carbon tetrachloride	ug/kg	ND	5.0	08/08/15 03:49	
Chlorobenzene	ug/kg	ND	5.0	08/08/15 03:49	
Chloroethane	ug/kg	ND	5.0	08/08/15 03:49	
Chloroform	ug/kg	ND	5.0	08/08/15 03:49	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

METHOD BLANK: 1353175

Matrix: Solid

Associated Lab Samples: 50124769028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	08/08/15 03:49	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/08/15 03:49	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/08/15 03:49	
Dibromochloromethane	ug/kg	ND	5.0	08/08/15 03:49	
Dibromomethane	ug/kg	ND	5.0	08/08/15 03:49	
Dichlorodifluoromethane	ug/kg	ND	5.0	08/08/15 03:49	
Ethyl methacrylate	ug/kg	ND	100	08/08/15 03:49	
Ethylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	08/08/15 03:49	
Iodomethane	ug/kg	ND	100	08/08/15 03:49	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	08/08/15 03:49	
Methyl-tert-butyl ether	ug/kg	ND	5.0	08/08/15 03:49	
Methylene Chloride	ug/kg	ND	20.0	08/08/15 03:49	
n-Butylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
n-Hexane	ug/kg	ND	5.0	08/08/15 03:49	
n-Propylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
Naphthalene	ug/kg	ND	5.0	08/08/15 03:49	
p-Isopropyltoluene	ug/kg	ND	5.0	08/08/15 03:49	
sec-Butylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
Styrene	ug/kg	ND	5.0	08/08/15 03:49	
tert-Butylbenzene	ug/kg	ND	5.0	08/08/15 03:49	
Tetrachloroethene	ug/kg	ND	5.0	08/08/15 03:49	
Toluene	ug/kg	ND	5.0	08/08/15 03:49	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/08/15 03:49	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/08/15 03:49	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	08/08/15 03:49	
Trichloroethene	ug/kg	ND	5.0	08/08/15 03:49	
Trichlorofluoromethane	ug/kg	ND	5.0	08/08/15 03:49	
Vinyl acetate	ug/kg	ND	100	08/08/15 03:49	
Vinyl chloride	ug/kg	ND	5.0	08/08/15 03:49	
Xylene (Total)	ug/kg	ND	10.0	08/08/15 03:49	
4-Bromofluorobenzene (S)	%	91	56-144	08/08/15 03:49	
Dibromofluoromethane (S)	%	97	85-118	08/08/15 03:49	
Toluene-d8 (S)	%	106	71-128	08/08/15 03:49	

LABORATORY CONTROL SAMPLE: 1353176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.4	99	62-123	
1,1,1-Trichloroethane	ug/kg	50	44.6	89	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	55.0	110	65-124	
1,1,2-Trichloroethane	ug/kg	50	56.7	113	74-129	
1,1-Dichloroethane	ug/kg	50	44.5	89	73-130	
1,1-Dichloroethene	ug/kg	50	43.1	86	66-126	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

LABORATORY CONTROL SAMPLE: 1353176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/kg	50	50.7	101	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	45.6	91	66-131	
1,2,3-Trichloropropane	ug/kg	50	53.6	107	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	41.8	84	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	49.0	98	67-126	
1,2-Dibromoethane (EDB)	ug/kg	50	51.1	102	74-120	
1,2-Dichlorobenzene	ug/kg	50	48.6	97	73-122	
1,2-Dichloroethane	ug/kg	50	52.5	105	73-127	
1,2-Dichloropropane	ug/kg	50	50.1	100	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	49.2	98	65-127	
1,3-Dichlorobenzene	ug/kg	50	48.1	96	73-121	
1,3-Dichloropropane	ug/kg	50	55.5	111	72-121	
1,4-Dichlorobenzene	ug/kg	50	47.5	95	75-119	
1-Methylnaphthalene	ug/kg	50	45.7	91	46-139	N2
2,2-Dichloropropane	ug/kg	50	41.5	83	63-122	
2-Butanone (MEK)	ug/kg	250	265	106	59-139	
2-Chlorotoluene	ug/kg	50	49.3	99	72-121	
2-Hexanone	ug/kg	250	274	110	56-139	
2-Methylnaphthalene	ug/kg	50	48.3	97	63-148	
4-Chlorotoluene	ug/kg	50	49.3	99	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	276	111	63-136	
Acetone	ug/kg	250	259	104	46-156	
Acrolein	ug/kg	1000	1360	136	47-200	
Acrylonitrile	ug/kg	200	181	91	67-130	
Benzene	ug/kg	50	46.1	92	74-119	
Bromobenzene	ug/kg	50	47.4	95	69-129	
Bromochloromethane	ug/kg	50	48.3	97	67-129	
Bromodichloromethane	ug/kg	50	46.1	92	68-121	
Bromoform	ug/kg	50	39.4	79	49-124	
Bromomethane	ug/kg	50	32.7	65	44-142	
Carbon disulfide	ug/kg	50	33.4	67	61-129	
Carbon tetrachloride	ug/kg	50	44.8	90	58-127	
Chlorobenzene	ug/kg	50	50.0	100	77-122	
Chloroethane	ug/kg	50	40.8	82	59-141	
Chloroform	ug/kg	50	48.9	98	75-124	
Chloromethane	ug/kg	50	32.8	66	46-133	
cis-1,2-Dichloroethene	ug/kg	50	46.0	92	72-122	
cis-1,3-Dichloropropene	ug/kg	50	52.0	104	68-115	
Dibromochloromethane	ug/kg	50	44.6	89	60-121	
Dibromomethane	ug/kg	50	54.1	108	72-124	
Dichlorodifluoromethane	ug/kg	50	42.1	84	26-186	
Ethyl methacrylate	ug/kg	200	211	106	63-130	
Ethylbenzene	ug/kg	50	51.9	104	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	42.8	86	55-139	
Iodomethane	ug/kg	100	54.3J	54	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	56.8	114	65-123	
Methyl-tert-butyl ether	ug/kg	50	47.3	95	68-120	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

LABORATORY CONTROL SAMPLE: 1353176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	50	44.2	88	57-142	
n-Butylbenzene	ug/kg	50	46.0	92	68-125	
n-Hexane	ug/kg	50	37.9	76	57-117	
n-Propylbenzene	ug/kg	50	51.4	103	68-122	
Naphthalene	ug/kg	50	46.8	94	67-131	
p-Isopropyltoluene	ug/kg	50	47.5	95	66-133	
sec-Butylbenzene	ug/kg	50	55.4	111	64-131	
Styrene	ug/kg	50	48.8	98	70-126	
tert-Butylbenzene	ug/kg	50	49.2	98	46-124	
Tetrachloroethene	ug/kg	50	46.6	93	72-126	
Toluene	ug/kg	50	50.1	100	71-121	
trans-1,2-Dichloroethene	ug/kg	50	41.5	83	69-123	
trans-1,3-Dichloropropene	ug/kg	50	51.4	103	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	197	99	61-124	
Trichloroethene	ug/kg	50	47.6	95	74-123	
Trichlorofluoromethane	ug/kg	50	53.4	107	72-146	
Vinyl acetate	ug/kg	200	227	113	57-131	
Vinyl chloride	ug/kg	50	42.6	85	55-128	
Xylene (Total)	ug/kg	150	155	103	66-124	
4-Bromofluorobenzene (S)	%.			89	56-144	
Dibromofluoromethane (S)	%.			101	85-118	
Toluene-d8 (S)	%.			105	71-128	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MSV/79917

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 50124769030

METHOD BLANK: 1354012

Matrix: Solid

Associated Lab Samples: 50124769030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/10/15 10:40	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/10/15 10:40	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/10/15 10:40	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/10/15 10:40	
1,1-Dichloroethane	ug/kg	ND	5.0	08/10/15 10:40	
1,1-Dichloroethene	ug/kg	ND	5.0	08/10/15 10:40	
1,1-Dichloropropene	ug/kg	ND	5.0	08/10/15 10:40	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	08/10/15 10:40	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/10/15 10:40	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	08/10/15 10:40	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/10/15 10:40	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/10/15 10:40	
1,2-Dichloroethane	ug/kg	ND	5.0	08/10/15 10:40	
1,2-Dichloropropane	ug/kg	ND	5.0	08/10/15 10:40	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
1,3-Dichlorobenzene	ug/kg	ND	5.0	08/10/15 10:40	
1,3-Dichloropropane	ug/kg	ND	5.0	08/10/15 10:40	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/10/15 10:40	
1-Methylnaphthalene	ug/kg	ND	10.0	08/10/15 10:40	N2
2,2-Dichloropropane	ug/kg	ND	5.0	08/10/15 10:40	
2-Butanone (MEK)	ug/kg	ND	25.0	08/10/15 10:40	
2-Chlorotoluene	ug/kg	ND	5.0	08/10/15 10:40	
2-Hexanone	ug/kg	ND	100	08/10/15 10:40	
2-Methylnaphthalene	ug/kg	ND	10.0	08/10/15 10:40	
4-Chlorotoluene	ug/kg	ND	5.0	08/10/15 10:40	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	08/10/15 10:40	
Acetone	ug/kg	ND	100	08/10/15 10:40	
Acrolein	ug/kg	ND	100	08/10/15 10:40	
Acrylonitrile	ug/kg	ND	100	08/10/15 10:40	
Benzene	ug/kg	ND	5.0	08/10/15 10:40	
Bromobenzene	ug/kg	ND	5.0	08/10/15 10:40	
Bromochloromethane	ug/kg	ND	5.0	08/10/15 10:40	
Bromodichloromethane	ug/kg	ND	5.0	08/10/15 10:40	
Bromoform	ug/kg	ND	5.0	08/10/15 10:40	
Bromomethane	ug/kg	ND	5.0	08/10/15 10:40	
Carbon disulfide	ug/kg	ND	10.0	08/10/15 10:40	
Carbon tetrachloride	ug/kg	ND	5.0	08/10/15 10:40	
Chlorobenzene	ug/kg	ND	5.0	08/10/15 10:40	
Chloroethane	ug/kg	ND	5.0	08/10/15 10:40	
Chloroform	ug/kg	ND	5.0	08/10/15 10:40	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

METHOD BLANK: 1354012

Matrix: Solid

Associated Lab Samples: 50124769030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	08/10/15 10:40	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/10/15 10:40	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/10/15 10:40	
Dibromochloromethane	ug/kg	ND	5.0	08/10/15 10:40	
Dibromomethane	ug/kg	ND	5.0	08/10/15 10:40	
Dichlorodifluoromethane	ug/kg	ND	5.0	08/10/15 10:40	
Ethyl methacrylate	ug/kg	ND	100	08/10/15 10:40	
Ethylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	08/10/15 10:40	
Iodomethane	ug/kg	ND	100	08/10/15 10:40	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	08/10/15 10:40	
Methyl-tert-butyl ether	ug/kg	ND	5.0	08/10/15 10:40	
Methylene Chloride	ug/kg	ND	20.0	08/10/15 10:40	
n-Butylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
n-Hexane	ug/kg	ND	5.0	08/10/15 10:40	
n-Propylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
Naphthalene	ug/kg	ND	5.0	08/10/15 10:40	
p-Isopropyltoluene	ug/kg	ND	5.0	08/10/15 10:40	
sec-Butylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
Styrene	ug/kg	ND	5.0	08/10/15 10:40	
tert-Butylbenzene	ug/kg	ND	5.0	08/10/15 10:40	
Tetrachloroethene	ug/kg	ND	5.0	08/10/15 10:40	
Toluene	ug/kg	ND	5.0	08/10/15 10:40	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/10/15 10:40	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/10/15 10:40	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	08/10/15 10:40	
Trichloroethene	ug/kg	ND	5.0	08/10/15 10:40	
Trichlorofluoromethane	ug/kg	ND	5.0	08/10/15 10:40	
Vinyl acetate	ug/kg	ND	100	08/10/15 10:40	
Vinyl chloride	ug/kg	ND	5.0	08/10/15 10:40	
Xylene (Total)	ug/kg	ND	10.0	08/10/15 10:40	
4-Bromofluorobenzene (S)	%	102	56-144	08/10/15 10:40	
Dibromofluoromethane (S)	%	102	85-118	08/10/15 10:40	
Toluene-d8 (S)	%	97	71-128	08/10/15 10:40	

LABORATORY CONTROL SAMPLE: 1354013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	40.9	82	62-123	
1,1,1-Trichloroethane	ug/kg	50	44.3	89	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	48.2	96	65-124	
1,1,2-Trichloroethane	ug/kg	50	47.2	94	74-129	
1,1-Dichloroethane	ug/kg	50	45.7	91	73-130	
1,1-Dichloroethene	ug/kg	50	48.6	97	66-126	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

LABORATORY CONTROL SAMPLE: 1354013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/kg	50	53.6	107	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	47.0	94	66-131	
1,2,3-Trichloropropane	ug/kg	50	53.9	108	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	45.2	90	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	44.8	90	67-126	
1,2-Dibromoethane (EDB)	ug/kg	50	46.0	92	74-120	
1,2-Dichlorobenzene	ug/kg	50	45.6	91	73-122	
1,2-Dichloroethane	ug/kg	50	49.6	99	73-127	
1,2-Dichloropropane	ug/kg	50	49.1	98	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	44.4	89	65-127	
1,3-Dichlorobenzene	ug/kg	50	46.7	93	73-121	
1,3-Dichloropropane	ug/kg	50	45.7	91	72-121	
1,4-Dichlorobenzene	ug/kg	50	45.9	92	75-119	
1-Methylnaphthalene	ug/kg	50	46.1	92	46-139	N2
2,2-Dichloropropane	ug/kg	50	39.5	79	63-122	
2-Butanone (MEK)	ug/kg	250	262	105	59-139	
2-Chlorotoluene	ug/kg	50	44.4	89	72-121	
2-Hexanone	ug/kg	250	246	99	56-139	
2-Methylnaphthalene	ug/kg	50	44.4	89	63-148	
4-Chlorotoluene	ug/kg	50	46.0	92	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	241	96	63-136	
Acetone	ug/kg	250	243	97	46-156	
Acrolein	ug/kg	1000	1530	153	47-200	
Acrylonitrile	ug/kg	200	201	101	67-130	
Benzene	ug/kg	50	50.0	100	74-119	
Bromobenzene	ug/kg	50	41.9	84	69-129	
Bromochloromethane	ug/kg	50	52.7	105	67-129	
Bromodichloromethane	ug/kg	50	43.8	88	68-121	
Bromoform	ug/kg	50	46.4	93	49-124	
Bromomethane	ug/kg	50	57.7	115	44-142	
Carbon disulfide	ug/kg	50	43.8	88	61-129	
Carbon tetrachloride	ug/kg	50	45.8	92	58-127	
Chlorobenzene	ug/kg	50	44.7	89	77-122	
Chloroethane	ug/kg	50	52.6	105	59-141	
Chloroform	ug/kg	50	45.8	92	75-124	
Chloromethane	ug/kg	50	48.9	98	46-133	
cis-1,2-Dichloroethene	ug/kg	50	46.3	93	72-122	
cis-1,3-Dichloropropene	ug/kg	50	42.3	85	68-115	
Dibromochloromethane	ug/kg	50	43.7	87	60-121	
Dibromomethane	ug/kg	50	44.8	90	72-124	
Dichlorodifluoromethane	ug/kg	50	55.7	111	26-186	
Ethyl methacrylate	ug/kg	200	179	90	63-130	
Ethylbenzene	ug/kg	50	46.8	94	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	43.7	87	55-139	
Iodomethane	ug/kg	100	92.7J	93	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	48.9	98	65-123	
Methyl-tert-butyl ether	ug/kg	50	43.7	87	68-120	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

LABORATORY CONTROL SAMPLE: 1354013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	50	46.0	92	57-142	
n-Butylbenzene	ug/kg	50	45.2	90	68-125	
n-Hexane	ug/kg	50	47.5	95	57-117	
n-Propylbenzene	ug/kg	50	48.1	96	68-122	
Naphthalene	ug/kg	50	44.2	88	67-131	
p-Isopropyltoluene	ug/kg	50	44.9	90	66-133	
sec-Butylbenzene	ug/kg	50	49.8	100	64-131	
Styrene	ug/kg	50	45.2	90	70-126	
tert-Butylbenzene	ug/kg	50	41.1	82	46-124	
Tetrachloroethene	ug/kg	50	46.7	93	72-126	
Toluene	ug/kg	50	45.0	90	71-121	
trans-1,2-Dichloroethene	ug/kg	50	46.3	93	69-123	
trans-1,3-Dichloropropene	ug/kg	50	40.0	80	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	189	95	61-124	
Trichloroethene	ug/kg	50	49.4	99	74-123	
Trichlorofluoromethane	ug/kg	50	54.1	108	72-146	
Vinyl acetate	ug/kg	200	215	107	57-131	
Vinyl chloride	ug/kg	50	56.5	113	55-128	
Xylene (Total)	ug/kg	150	135	90	66-124	
4-Bromofluorobenzene (S)	%			97	56-144	
Dibromofluoromethane (S)	%			100	85-118	
Toluene-d8 (S)	%			96	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1354786 1354787

Parameter	Units	50125042002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg		62.8	62.8	11.2	17.4	18	28	10-129	44	20	
1,1,1-Trichloroethane	ug/kg		62.8	62.8	13.4	40.1	21	64	26-143	100	20	
1,1,2,2-Tetrachloroethane	ug/kg		62.8	62.8	29.5	44.8	47	71	10-156	41	20	
1,1,2-Trichloroethane	ug/kg		62.8	62.8	35.5	48.5	57	77	13-156	31	20	
1,1-Dichloroethane	ug/kg		62.8	62.8	25.1	58.4	40	93	36-150	80	20	
1,1-Dichloroethene	ug/kg		62.8	62.8	19.6	72.4	31	115	31-146	115	20	
1,1-Dichloropropene	ug/kg		62.8	62.8	15.6	49.9	25	79	26-145	104	20	
1,2,3-Trichlorobenzene	ug/kg		62.8	62.8	11.4	9.2	18	15	10-119	21	20	
1,2,3-Trichloropropane	ug/kg		62.8	62.8	50.1	63.3	80	101	10-168	23	20	
1,2,4-Trichlorobenzene	ug/kg		62.8	62.8	10.7	8.2	17	13	10-122	27	20	
1,2,4-Trimethylbenzene	ug/kg		62.8	62.8	15.8	20.8	25	33	10-139	28	20	
1,2-Dibromoethane (EDB)	ug/kg		62.8	62.8	13.3	19.1	21	30	15-136	36	20	
1,2-Dichlorobenzene	ug/kg		62.8	62.8	17.4	20.9	28	33	10-132	18	20	
1,2-Dichloroethane	ug/kg		62.8	62.8	43.3	55.5	69	88	30-140	25	20	
1,2-Dichloropropane	ug/kg		62.8	62.8	30.1	52.0	48	83	29-135	53	20	
1,3,5-Trimethylbenzene	ug/kg		62.8	62.8	15.9	24.2	25	39	10-143	41	20	
1,3-Dichlorobenzene	ug/kg		62.8	62.8	16.4	21.9	26	35	10-130	29	20	
1,3-Dichloropropane	ug/kg		62.8	62.8	34.5	46.7	55	74	17-139	30	20	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1354786 1354787											
Parameter	Units	50125042002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg		62.8	62.8	15.6	21.6	25	34	10-128	32	20
1-Methylnaphthalene	ug/kg		62.8	62.8	ND	ND	17	11	10-121	20	N2
2,2-Dichloropropane	ug/kg		62.8	62.8	19.9	44.2	32	70	29-136	76	20
2-Butanone (MEK)	ug/kg		314	314	368	308	117	98	22-176	18	20
2-Chlorotoluene	ug/kg		62.8	62.8	17.5	30.7	28	49	10-146	55	20
2-Hexanone	ug/kg		314	314	275	247	88	79	12-165	10	20
2-Methylnaphthalene	ug/kg		62.8	62.8	ND	ND	13	9	10-156		20
4-Chlorotoluene	ug/kg		62.8	62.8	16.3	26.1	26	42	10-138	46	20
4-Methyl-2-pentanone (MIBK)	ug/kg		314	314	302	280	96	89	22-155	8	20
Acetone	ug/kg		314	314	637	506	203	161	11-200	23	20
Acrolein	ug/kg		1260	1260	ND	ND	3	3	10-200		20
Acrylonitrile	ug/kg		251	251	111J	102J	44	40	20-150		20
Benzene	ug/kg		62.8	62.8	22.5	53.1	36	85	27-140	81	20
Bromobenzene	ug/kg		62.8	62.8	16.9	21.2	27	34	10-133	22	20
Bromochloromethane	ug/kg		62.8	62.8	21.4	30.9	34	49	28-142	36	20
Bromodichloromethane	ug/kg		62.8	62.8	ND	7.9	5	13	13-139		20
Bromoform	ug/kg		62.8	62.8	ND	ND	0	0	10-122		20
Bromomethane	ug/kg		62.8	62.8	28.4	67.8	45	108	10-154	82	20
Carbon disulfide	ug/kg		62.8	62.8	ND	12.9	4	21	20-142		20
Carbon tetrachloride	ug/kg		62.8	62.8	9.4	27.6	15	44	19-135	98	20
Chlorobenzene	ug/kg		62.8	62.8	16.7	29.3	27	47	10-136	54	20
Chloroethane	ug/kg		62.8	62.8	26.2	76.9	42	123	24-161	98	20
Chloroform	ug/kg		62.8	62.8	25.0	52.2	40	83	36-138	71	20
Chloromethane	ug/kg		62.8	62.8	26.4	68.2	42	109	28-143	88	20
cis-1,2-Dichloroethene	ug/kg	ND	62.8	62.8	23.7	49.2	38	78	29-136	70	20
cis-1,3-Dichloropropene	ug/kg		62.8	62.8	5.5J	9.5	9	15	10-130		20
Dibromochloromethane	ug/kg		62.8	62.8	ND	7.4	0	12	10-124		20
Dibromomethane	ug/kg		62.8	62.8	14.4	21.0	23	33	24-136	37	20
Dichlorodifluoromethane	ug/kg		62.8	62.8	16.8	83.8	27	134	15-187	133	20 1d
Ethyl methacrylate	ug/kg		251	251	ND	ND	15	9	10-147		20
Ethylbenzene	ug/kg		62.8	62.8	16.1	29.6	26	47	10-144	59	20
Hexachloro-1,3-butadiene	ug/kg		62.8	62.8	10.5	8.4	17	13	10-136	22	20
Iodomethane	ug/kg		126	126	ND	ND	11	41	10-155		20
Isopropylbenzene (Cumene)	ug/kg		62.8	62.8	15.9	24.9	25	40	10-134	44	20
Methyl-tert-butyl ether	ug/kg		62.8	62.8	50.9	61.5	81	98	30-147	19	20
Methylene Chloride	ug/kg		62.8	62.8	37.4	65.0	60	103	23-150	54	20
n-Butylbenzene	ug/kg		62.8	62.8	10.1	13.1	16	21	10-141	26	20
n-Hexane	ug/kg		62.8	62.8	17.6	33.4	28	53	10-140	62	20
n-Propylbenzene	ug/kg		62.8	62.8	16.9	27.5	27	44	10-143	48	20
Naphthalene	ug/kg		62.8	62.8	17.3	14.0	28	22	10-130	21	20
p-Isopropyltoluene	ug/kg		62.8	62.8	13.0	19.5	21	31	10-146	40	20
sec-Butylbenzene	ug/kg		62.8	62.8	15.3	23.0	24	37	10-150	40	20
Styrene	ug/kg		62.8	62.8	14.6	23.7	23	38	10-138	48	20
tert-Butylbenzene	ug/kg		62.8	62.8	16.2	25.5	26	41	10-135	45	20
Tetrachloroethene	ug/kg	ND	62.8	62.8	16.2	31.9	26	51	10-153	65	20

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1354786 1354787											
Parameter	Units	50125042002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Toluene	ug/kg		62.8	62.8	17.6	39.7	28	63	10-140	77	20
trans-1,2-Dichloroethene	ug/kg		62.8	62.8	14.4	42.0	23	67	28-139	98	20
trans-1,3-Dichloropropene	ug/kg		62.8	62.8	7.8	10.7	12	17	10-126	31	20
trans-1,4-Dichloro-2-butene	ug/kg		251	251	ND	ND	0	3	10-132		20
Trichloroethene	ug/kg	43.6	62.8	62.8	69.2	127	41	133	17-148	59	20
Trichlorofluoromethane	ug/kg		62.8	62.8	10.8	59.7	17	95	31-177	139	20
Vinyl acetate	ug/kg		251	251	ND	ND	0	21	10-131		20
Vinyl chloride	ug/kg	ND	62.8	62.8	17.1	75.0	27	119	30-145	126	20 1d
Xylene (Total)	ug/kg		188	188	48.9	80.4	26	43	10-143	49	20
4-Bromofluorobenzene (S)	%.						98	88	56-144		
Dibromofluoromethane (S)	%.						103	102	85-118		
Toluene-d8 (S)	%.						95	103	71-128		

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: MSV/79910

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV TCLP

Associated Lab Samples: 50124769027

METHOD BLANK: 1353834

Matrix: Water

Associated Lab Samples: 50124769027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	08/10/15 10:25	
1,2-Dichloroethane	ug/L	ND	50.0	08/10/15 10:25	
2-Butanone (MEK)	ug/L	ND	1000	08/10/15 10:25	
Benzene	ug/L	ND	50.0	08/10/15 10:25	
Carbon tetrachloride	ug/L	ND	50.0	08/10/15 10:25	
Chlorobenzene	ug/L	ND	50.0	08/10/15 10:25	
Chloroform	ug/L	ND	50.0	08/10/15 10:25	
Tetrachloroethene	ug/L	ND	50.0	08/10/15 10:25	
Trichloroethene	ug/L	ND	50.0	08/10/15 10:25	
Vinyl chloride	ug/L	ND	20.0	08/10/15 10:25	
4-Bromofluorobenzene (S)	%	96	80-114	08/10/15 10:25	
Dibromofluoromethane (S)	%	98	79-116	08/10/15 10:25	
Toluene-d8 (S)	%	95	81-110	08/10/15 10:25	

LABORATORY CONTROL SAMPLE: 1353835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	500	459	92	68-127	
1,2-Dichloroethane	ug/L	500	467	93	75-128	
2-Butanone (MEK)	ug/L	2500	2290	92	58-139	
Benzene	ug/L	500	473	95	74-122	
Carbon tetrachloride	ug/L	500	462	92	56-137	
Chlorobenzene	ug/L	500	431	86	78-123	
Chloroform	ug/L	500	439	88	78-126	
Tetrachloroethene	ug/L	500	432	86	69-130	
Trichloroethene	ug/L	500	456	91	76-126	
Vinyl chloride	ug/L	500	536	107	59-126	
4-Bromofluorobenzene (S)	%			96	80-114	
Dibromofluoromethane (S)	%			100	79-116	
Toluene-d8 (S)	%			94	81-110	

MATRIX SPIKE SAMPLE: 1353836

Parameter	Units	50124566005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	486	97	55-145	
1,2-Dichloroethane	ug/L	ND	500	507	101	62-138	
2-Butanone (MEK)	ug/L	ND	2500	2420	97	37-156	
Benzene	ug/L	ND	500	512	102	62-129	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE SAMPLE:		1353836					
Parameter	Units	50124566005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	500	449	90	46-142	
Chlorobenzene	ug/L	ND	500	481	96	49-136	
Chloroform	ug/L	ND	500	470	94	54-150	
Tetrachloroethene	ug/L	ND	500	479	96	33-151	
Trichloroethene	ug/L	ND	500	504	101	50-143	
Vinyl chloride	ug/L	ND	500	587	117	44-145	
4-Bromofluorobenzene (S)	%.				98	80-114	
Dibromofluoromethane (S)	%.				98	79-116	
Toluene-d8 (S)	%.				98	81-110	

MATRIX SPIKE SAMPLE:		1353837					
Parameter	Units	50124769027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	519	104	55-145	
1,2-Dichloroethane	ug/L	ND	500	546	109	62-138	
2-Butanone (MEK)	ug/L	ND	2500	2660	107	37-156	
Benzene	ug/L	ND	500	542	108	62-129	
Carbon tetrachloride	ug/L	ND	500	481	96	46-142	
Chlorobenzene	ug/L	ND	500	514	103	49-136	
Chloroform	ug/L	ND	500	505	101	54-150	
Tetrachloroethene	ug/L	ND	500	527	105	33-151	
Trichloroethene	ug/L	ND	500	526	105	50-143	
Vinyl chloride	ug/L	ND	500	633	127	44-145	
4-Bromofluorobenzene (S)	%.				99	80-114	
Dibromofluoromethane (S)	%.				101	79-116	
Toluene-d8 (S)	%.				98	81-110	

MATRIX SPIKE SAMPLE:		1353838					
Parameter	Units	50124063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	512	102	55-145	
1,2-Dichloroethane	ug/L	ND	500	546	109	62-138	
2-Butanone (MEK)	ug/L	ND	2500	3000	120	37-156	
Benzene	ug/L	ND	500	534	107	62-129	
Carbon tetrachloride	ug/L	ND	500	479	96	46-142	
Chlorobenzene	ug/L	ND	500	498	100	49-136	
Chloroform	ug/L	ND	500	507	101	54-150	
Tetrachloroethene	ug/L	ND	500	507	101	33-151	
Trichloroethene	ug/L	ND	500	510	102	50-143	
Vinyl chloride	ug/L	ND	500	598	120	44-145	
4-Bromofluorobenzene (S)	%.				100	80-114	
Dibromofluoromethane (S)	%.				102	79-116	
Toluene-d8 (S)	%.				99	81-110	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE SAMPLE:		1354011					
Parameter	Units	50124521002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	500	491	98	55-145	
1,2-Dichloroethane	ug/L	ND	500	520	104	62-138	
2-Butanone (MEK)	ug/L	ND	2500	2700	108	37-156	
Benzene	ug/L	ND	500	517	103	62-129	
Carbon tetrachloride	ug/L	ND	500	469	94	46-142	
Chlorobenzene	ug/L	ND	500	488	98	49-136	
Chloroform	ug/L	ND	500	505	101	54-150	
Tetrachloroethene	ug/L	ND	500	483	97	33-151	
Trichloroethene	ug/L	ND	500	507	101	50-143	
Vinyl chloride	ug/L	ND	500	598	120	44-145	
4-Bromofluorobenzene (S)	%.				97	80-114	
Dibromofluoromethane (S)	%.				99	79-116	
Toluene-d8 (S)	%.				97	81-110	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: OEXT/40287

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave Short Spike

Associated Lab Samples: 50124769028

METHOD BLANK: 1352278

Matrix: Solid

Associated Lab Samples: 50124769028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	ND	328	08/07/15 16:16	
2,4,6-Trichlorophenol	ug/kg	ND	328	08/07/15 16:16	
2,4-Dichlorophenol	ug/kg	ND	328	08/07/15 16:16	
2,4-Dimethylphenol	ug/kg	ND	328	08/07/15 16:16	
2,4-Dinitrophenol	ug/kg	ND	1590	08/07/15 16:16	
2,4-Dinitrotoluene	ug/kg	ND	328	08/07/15 16:16	
2,6-Dinitrotoluene	ug/kg	ND	328	08/07/15 16:16	
2-Chloronaphthalene	ug/kg	ND	328	08/07/15 16:16	
2-Chlorophenol	ug/kg	ND	328	08/07/15 16:16	
2-Methylnaphthalene	ug/kg	ND	328	08/07/15 16:16	
2-Methylphenol(o-Cresol)	ug/kg	ND	328	08/07/15 16:16	
2-Nitroaniline	ug/kg	ND	1590	08/07/15 16:16	
2-Nitrophenol	ug/kg	ND	328	08/07/15 16:16	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	656	08/07/15 16:16	
3,3'-Dichlorobenzidine	ug/kg	ND	656	08/07/15 16:16	
3-Nitroaniline	ug/kg	ND	1590	08/07/15 16:16	
4,6-Dinitro-2-methylphenol	ug/kg	ND	1590	08/07/15 16:16	
4-Bromophenylphenyl ether	ug/kg	ND	328	08/07/15 16:16	
4-Chloro-3-methylphenol	ug/kg	ND	656	08/07/15 16:16	
4-Chloroaniline	ug/kg	ND	656	08/07/15 16:16	
4-Chlorophenylphenyl ether	ug/kg	ND	328	08/07/15 16:16	
4-Nitroaniline	ug/kg	ND	1590	08/07/15 16:16	
4-Nitrophenol	ug/kg	ND	1590	08/07/15 16:16	
Acenaphthene	ug/kg	ND	328	08/07/15 16:16	
Acenaphthylene	ug/kg	ND	328	08/07/15 16:16	
Anthracene	ug/kg	ND	328	08/07/15 16:16	
Benzo(a)anthracene	ug/kg	ND	328	08/07/15 16:16	
Benzo(a)pyrene	ug/kg	ND	169	08/07/15 16:16	
Benzo(b)fluoranthene	ug/kg	ND	328	08/07/15 16:16	
Benzo(g,h,i)perylene	ug/kg	ND	328	08/07/15 16:16	
Benzo(k)fluoranthene	ug/kg	ND	328	08/07/15 16:16	
Benzyl alcohol	ug/kg	ND	656	08/07/15 16:16	
bis(2-Chloroethoxy)methane	ug/kg	ND	328	08/07/15 16:16	
bis(2-Chloroethyl) ether	ug/kg	ND	328	08/07/15 16:16	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	328	08/07/15 16:16	
bis(2chloro1methylethyl) ether	ug/kg	ND	328	08/07/15 16:16	
Butylbenzylphthalate	ug/kg	ND	328	08/07/15 16:16	
Chrysene	ug/kg	ND	328	08/07/15 16:16	
Di-n-butylphthalate	ug/kg	ND	328	08/07/15 16:16	
Di-n-octylphthalate	ug/kg	ND	328	08/07/15 16:16	
Dibenz(a,h)anthracene	ug/kg	ND	169	08/07/15 16:16	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

METHOD BLANK: 1352278

Matrix: Solid

Associated Lab Samples: 50124769028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	ug/kg	ND	328	08/07/15 16:16	
Diethylphthalate	ug/kg	ND	328	08/07/15 16:16	
Dimethylphthalate	ug/kg	ND	328	08/07/15 16:16	
Fluoranthene	ug/kg	ND	328	08/07/15 16:16	
Fluorene	ug/kg	ND	328	08/07/15 16:16	
Hexachloro-1,3-butadiene	ug/kg	ND	328	08/07/15 16:16	
Hexachlorobenzene	ug/kg	ND	328	08/07/15 16:16	
Hexachlorocyclopentadiene	ug/kg	ND	328	08/07/15 16:16	
Hexachloroethane	ug/kg	ND	328	08/07/15 16:16	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	328	08/07/15 16:16	
Isophorone	ug/kg	ND	328	08/07/15 16:16	
N-Nitroso-di-n-propylamine	ug/kg	ND	328	08/07/15 16:16	
N-Nitrosodiphenylamine	ug/kg	ND	328	08/07/15 16:16	
Naphthalene	ug/kg	ND	328	08/07/15 16:16	
Nitrobenzene	ug/kg	ND	328	08/07/15 16:16	
Pentachlorophenol	ug/kg	ND	1590	08/07/15 16:16	
Phenanthrene	ug/kg	ND	328	08/07/15 16:16	
Phenol	ug/kg	ND	328	08/07/15 16:16	
Pyrene	ug/kg	ND	328	08/07/15 16:16	
2,4,6-Tribromophenol (S)	%	73	16-122	08/07/15 16:16	
2-Fluorobiphenyl (S)	%	53	31-94	08/07/15 16:16	
2-Fluorophenol (S)	%	66	24-104	08/07/15 16:16	
Nitrobenzene-d5 (S)	%	53	28-101	08/07/15 16:16	
p-Terphenyl-d14 (S)	%	59	26-110	08/07/15 16:16	
Phenol-d5 (S)	%	67	28-101	08/07/15 16:16	

LABORATORY CONTROL SAMPLE: 1352279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3320	2330	70	39-103	
2-Chlorophenol	ug/kg	3320	2240	67	38-96	
2-Methylnaphthalene	ug/kg	3320	2180	66	36-94	
4-Chloro-3-methylphenol	ug/kg	3320	2420	73	38-104	
4-Nitrophenol	ug/kg	3320	2750	83	34-104	
Acenaphthene	ug/kg	3320	2220	67	43-99	
Acenaphthylene	ug/kg	3320	2200	66	42-101	
Anthracene	ug/kg	3320	2310	69	46-107	
Benzo(a)anthracene	ug/kg	3320	2470	74	45-108	
Benzo(a)pyrene	ug/kg	3320	2280	69	47-113	
Benzo(b)fluoranthene	ug/kg	3320	2860	86	41-110	
Benzo(g,h,i)perylene	ug/kg	3320	2390	72	42-112	
Benzo(k)fluoranthene	ug/kg	3320	2130	64	44-107	
Chrysene	ug/kg	3320	2310	70	43-103	
Dibenz(a,h)anthracene	ug/kg	3320	2390	72	43-110	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

LABORATORY CONTROL SAMPLE: 1352279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	3320	2340	70	45-105	
Fluorene	ug/kg	3320	2240	67	42-103	
Indeno(1,2,3-cd)pyrene	ug/kg	3320	2380	72	43-111	
N-Nitroso-di-n-propylamine	ug/kg	3320	2110	63	37-96	
Naphthalene	ug/kg	3320	2080	63	44-100	
Pentachlorophenol	ug/kg	3320	2190	66	21-103	
Phenanthrene	ug/kg	3320	2320	70	44-104	
Phenol	ug/kg	3320	2430	73	37-101	
Pyrene	ug/kg	3320	2350	71	44-105	
2,4,6-Tribromophenol (S)	%			73	16-122	
2-Fluorobiphenyl (S)	%			53	31-94	
2-Fluorophenol (S)	%			67	24-104	
Nitrobenzene-d5 (S)	%			52	28-101	
p-Terphenyl-d14 (S)	%			58	26-110	
Phenol-d5 (S)	%			69	28-101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1352280 1352281

Parameter	Units	50124906002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	ND	3640	3630	2320	2220	64	61	15-102	4	20	
2-Chlorophenol	ug/kg	ND	3640	3630	2370	2310	65	64	22-96	3	20	
2-Methylnaphthalene	ug/kg	ND	3640	3630	2350	2140	64	59	14-107	9	20	
4-Chloro-3-methylphenol	ug/kg	ND	3640	3630	2440	2300	67	63	21-105	6	20	
4-Nitrophenol	ug/kg	ND	3640	3630	2670	2570	73	71	12-107	4	20	
Acenaphthene	ug/kg	ND	3640	3630	2410	2270	66	62	19-110	6	20	
Acenaphthylene	ug/kg	ND	3640	3630	2380	2270	65	62	21-106	5	20	
Anthracene	ug/kg	ND	3640	3630	2420	2380	67	66	22-112	2	20	
Benzo(a)anthracene	ug/kg	ND	3640	3630	2690	2520	74	69	13-116	6	20	
Benzo(a)pyrene	ug/kg	ND	3640	3630	2360	2230	65	62	11-119	5	20	
Benzo(b)fluoranthene	ug/kg	ND	3640	3630	2760	2510	76	69	10-126	10	20	
Benzo(g,h,i)perylene	ug/kg	ND	3640	3630	2360	2260	65	62	10-114	4	20	
Benzo(k)fluoranthene	ug/kg	ND	3640	3630	2510	2440	69	67	10-117	3	20	
Chrysene	ug/kg	ND	3640	3630	2430	2330	67	64	14-107	4	20	
Dibenz(a,h)anthracene	ug/kg	ND	3640	3630	2390	2290	66	63	10-119	4	20	
Fluoranthene	ug/kg	ND	3640	3630	2410	2300	66	63	17-110	5	20	
Fluorene	ug/kg	ND	3640	3630	2350	2280	65	63	17-115	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3640	3630	2380	2240	65	62	11-111	6	20	
N-Nitroso-di-n-propylamine	ug/kg	ND	3640	3630	2190	2110	60	58	18-103	4	20	
Naphthalene	ug/kg	ND	3640	3630	2280	2100	62	58	16-102	8	20	
Pentachlorophenol	ug/kg	ND	3640	3630	2090	2280	57	63	10-100	9	20	
Phenanthrene	ug/kg	ND	3640	3630	2440	2370	67	65	10-128	3	20	
Phenol	ug/kg	ND	3640	3630	2520	2360	69	65	22-97	7	20	
Pyrene	ug/kg	ND	3640	3630	2670	2530	73	70	10-123	5	20	
2,4,6-Tribromophenol (S)	%						70	68	16-122			

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1352280 1352281											
Parameter	Units	50124906002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Fluorobiphenyl (S)	%.						52	49	31-94		
2-Fluorophenol (S)	%.						60	58	24-104		
Nitrobenzene-d5 (S)	%.						52	48	26-98		
p-Terphenyl-d14 (S)	%.						52	50	26-110		
Phenol-d5 (S)	%.						65	61	28-101		

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: OEXT/40310

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave Short Spike

Associated Lab Samples: 50124769030

METHOD BLANK: 1353709

Matrix: Solid

Associated Lab Samples: 50124769030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	ND	330	08/10/15 13:42	
2,4,6-Trichlorophenol	ug/kg	ND	330	08/10/15 13:42	
2,4-Dichlorophenol	ug/kg	ND	330	08/10/15 13:42	
2,4-Dimethylphenol	ug/kg	ND	330	08/10/15 13:42	
2,4-Dinitrophenol	ug/kg	ND	1600	08/10/15 13:42	
2,4-Dinitrotoluene	ug/kg	ND	330	08/10/15 13:42	
2,6-Dinitrotoluene	ug/kg	ND	330	08/10/15 13:42	
2-Chloronaphthalene	ug/kg	ND	330	08/10/15 13:42	
2-Chlorophenol	ug/kg	ND	330	08/10/15 13:42	
2-Methylnaphthalene	ug/kg	ND	330	08/10/15 13:42	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	08/10/15 13:42	
2-Nitroaniline	ug/kg	ND	1600	08/10/15 13:42	
2-Nitrophenol	ug/kg	ND	330	08/10/15 13:42	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	660	08/10/15 13:42	
3,3'-Dichlorobenzidine	ug/kg	ND	660	08/10/15 13:42	
3-Nitroaniline	ug/kg	ND	1600	08/10/15 13:42	
4,6-Dinitro-2-methylphenol	ug/kg	ND	1600	08/10/15 13:42	
4-Bromophenylphenyl ether	ug/kg	ND	330	08/10/15 13:42	
4-Chloro-3-methylphenol	ug/kg	ND	660	08/10/15 13:42	
4-Chloroaniline	ug/kg	ND	660	08/10/15 13:42	
4-Chlorophenylphenyl ether	ug/kg	ND	330	08/10/15 13:42	
4-Nitroaniline	ug/kg	ND	1600	08/10/15 13:42	
4-Nitrophenol	ug/kg	ND	1600	08/10/15 13:42	
Acenaphthene	ug/kg	ND	330	08/10/15 13:42	
Acenaphthylene	ug/kg	ND	330	08/10/15 13:42	
Anthracene	ug/kg	ND	330	08/10/15 13:42	
Benzo(a)anthracene	ug/kg	ND	330	08/10/15 13:42	
Benzo(a)pyrene	ug/kg	ND	170	08/10/15 13:42	
Benzo(b)fluoranthene	ug/kg	ND	330	08/10/15 13:42	
Benzo(g,h,i)perylene	ug/kg	ND	330	08/10/15 13:42	
Benzo(k)fluoranthene	ug/kg	ND	330	08/10/15 13:42	
Benzyl alcohol	ug/kg	ND	660	08/10/15 13:42	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	08/10/15 13:42	
bis(2-Chloroethyl) ether	ug/kg	ND	330	08/10/15 13:42	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	08/10/15 13:42	
bis(2chloro1methylethyl) ether	ug/kg	ND	330	08/10/15 13:42	
Butylbenzylphthalate	ug/kg	ND	330	08/10/15 13:42	
Chrysene	ug/kg	ND	330	08/10/15 13:42	
Di-n-butylphthalate	ug/kg	ND	330	08/10/15 13:42	
Di-n-octylphthalate	ug/kg	ND	330	08/10/15 13:42	
Dibenz(a,h)anthracene	ug/kg	ND	170	08/10/15 13:42	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

METHOD BLANK: 1353709

Matrix: Solid

Associated Lab Samples: 50124769030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	ug/kg	ND	330	08/10/15 13:42	
Diethylphthalate	ug/kg	ND	330	08/10/15 13:42	
Dimethylphthalate	ug/kg	ND	330	08/10/15 13:42	
Fluoranthene	ug/kg	ND	330	08/10/15 13:42	
Fluorene	ug/kg	ND	330	08/10/15 13:42	
Hexachloro-1,3-butadiene	ug/kg	ND	330	08/10/15 13:42	
Hexachlorobenzene	ug/kg	ND	330	08/10/15 13:42	
Hexachlorocyclopentadiene	ug/kg	ND	330	08/10/15 13:42	
Hexachloroethane	ug/kg	ND	330	08/10/15 13:42	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	08/10/15 13:42	
Isophorone	ug/kg	ND	330	08/10/15 13:42	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	08/10/15 13:42	
N-Nitrosodiphenylamine	ug/kg	ND	330	08/10/15 13:42	
Naphthalene	ug/kg	ND	330	08/10/15 13:42	
Nitrobenzene	ug/kg	ND	330	08/10/15 13:42	
Pentachlorophenol	ug/kg	ND	1600	08/10/15 13:42	
Phenanthrene	ug/kg	ND	330	08/10/15 13:42	
Phenol	ug/kg	ND	330	08/10/15 13:42	
Pyrene	ug/kg	ND	330	08/10/15 13:42	
2,4,6-Tribromophenol (S)	%	88	16-122	08/10/15 13:42	
2-Fluorobiphenyl (S)	%	51	31-94	08/10/15 13:42	
2-Fluorophenol (S)	%	67	24-104	08/10/15 13:42	
Nitrobenzene-d5 (S)	%	50	28-101	08/10/15 13:42	
p-Terphenyl-d14 (S)	%	71	26-110	08/10/15 13:42	
Phenol-d5 (S)	%	70	28-101	08/10/15 13:42	

LABORATORY CONTROL SAMPLE: 1353710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3320	2730	82	39-103	
2-Chlorophenol	ug/kg	3320	2420	73	38-96	
2-Methylnaphthalene	ug/kg	3320	2270	68	36-94	
4-Chloro-3-methylphenol	ug/kg	3320	2710	82	38-104	
4-Nitrophenol	ug/kg	3320	2860	86	34-104	
Acenaphthene	ug/kg	3320	2300	69	43-99	
Acenaphthylene	ug/kg	3320	2410	72	42-101	
Anthracene	ug/kg	3320	2570	77	46-107	
Benzo(a)anthracene	ug/kg	3320	2570	77	45-108	
Benzo(a)pyrene	ug/kg	3320	2330	70	47-113	
Benzo(b)fluoranthene	ug/kg	3320	2300	69	41-110	
Benzo(g,h,i)perylene	ug/kg	3320	2210	66	42-112	
Benzo(k)fluoranthene	ug/kg	3320	2190	66	44-107	
Chrysene	ug/kg	3320	2500	75	43-103	
Dibenz(a,h)anthracene	ug/kg	3320	2130	64	43-110	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

LABORATORY CONTROL SAMPLE: 1353710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	3320	2820	85	45-105	
Fluorene	ug/kg	3320	2570	77	42-103	
Indeno(1,2,3-cd)pyrene	ug/kg	3320	2170	65	43-111	
N-Nitroso-di-n-propylamine	ug/kg	3320	2300	69	37-96	
Naphthalene	ug/kg	3320	2150	65	44-100	
Pentachlorophenol	ug/kg	3320	3160	95	21-103	
Phenanthrene	ug/kg	3320	2540	77	44-104	
Phenol	ug/kg	3320	2670	80	37-101	
Pyrene	ug/kg	3320	2650	80	44-105	
2,4,6-Tribromophenol (S)	%			89	16-122	
2-Fluorobiphenyl (S)	%			52	31-94	
2-Fluorophenol (S)	%			70	24-104	
Nitrobenzene-d5 (S)	%			53	28-101	
p-Terphenyl-d14 (S)	%			67	26-110	
Phenol-d5 (S)	%			73	28-101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1353711 1353712

Parameter	Units	50124870001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	ND	34300	34300	25200	26100	74	76	15-102	3	20	
2-Chlorophenol	ug/kg	ND	34300	34300	23300	24400	68	71	22-96	5	20	
2-Methylnaphthalene	ug/kg	6.1 mg/kg	34300	34300	29300	34600	68	83	14-107	17	20	
4-Chloro-3-methylphenol	ug/kg	ND	34300	34300	28400	29000	83	85	21-105	2	20	
4-Nitrophenol	ug/kg	ND	34300	34300	27500	28700	80	84	12-107	4	20	
Acenaphthene	ug/kg	ND	34300	34300	24400	25400	71	74	19-110	4	20	
Acenaphthylene	ug/kg	9.7 mg/kg	34300	34300	33900	34500	71	72	21-106	2	20	
Anthracene	ug/kg	4.5 mg/kg	34300	34300	29800	30100	74	75	22-112	1	20	
Benzo(a)anthracene	ug/kg	15.7 mg/kg	34300	34300	41700	41300	76	75	13-116	1	20	
Benzo(a)pyrene	ug/kg	12.6 mg/kg	34300	34300	34900	35400	65	67	11-119	1	20	
Benzo(b)fluoranthene	ug/kg	21.4 mg/kg	34300	34300	48300	48700	79	80	10-126	1	20	
Benzo(g,h,i)perylene	ug/kg	11.9 mg/kg	34300	34300	33900	33500	64	63	10-114	1	20	
Benzo(k)fluoranthene	ug/kg	7.3 mg/kg	34300	34300	27600	27700	59	60	10-117	0	20	
Chrysene	ug/kg	18.8 mg/kg	34300	34300	42800	42300	70	69	14-107	1	20	
Dibenz(a,h)anthracene	ug/kg	3.8 mg/kg	34300	34300	26700	27300	67	69	10-119	2	20	
Fluoranthene	ug/kg	15.7 mg/kg	34300	34300	38200	37800	66	65	17-110	1	20	
Fluorene	ug/kg	ND	34300	34300	26300	27000	73	76	17-115	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	9.2 mg/kg	34300	34300	31300	31700	65	66	11-111	1	20	
N-Nitroso-di-n-propylamine	ug/kg	ND	34300	34300	22300	23400	65	68	18-103	5	20	
Naphthalene	ug/kg	9.1 mg/kg	34300	34300	28700	42500	57	97	16-102	39	20 R1	
Pentachlorophenol	ug/kg	ND	34300	34300	26500	26800	78	78	10-100	1	20	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1353711 1353712												
Parameter	Units	50124870001		MS	MSD	1353712		MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	
Phenanthrene	ug/kg	9.6 mg/kg	34300	34300	34300	33100	34900	69	74	10-128	5	20
Phenol	ug/kg	ND	34300	34300	34300	23000	23900	67	70	22-97	4	20
Pyrene	ug/kg	30.5 mg/kg	34300	34300	34300	57200	55400	78	73	10-123	3	20 E
2,4,6-Tribromophenol (S)	%.							87	88	16-122		
2-Fluorobiphenyl (S)	%.							54	57	31-94		
2-Fluorophenol (S)	%.							60	64	24-104		
Nitrobenzene-d5 (S)	%.							51	55	26-98		
p-Terphenyl-d14 (S)	%.							55	56	26-110		
Phenol-d5 (S)	%.							66	68	28-101		

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: OEXT/40303

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 50124769027

METHOD BLANK: 1353650

Matrix: Water

Associated Lab Samples: 50124769027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	08/10/15 08:09	
2,4,5-Trichlorophenol	ug/L	ND	500	08/10/15 08:09	
2,4,6-Trichlorophenol	ug/L	ND	100	08/10/15 08:09	
2,4-Dinitrotoluene	ug/L	ND	100	08/10/15 08:09	
2-Methylphenol(o-Cresol)	ug/L	ND	100	08/10/15 08:09	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	08/10/15 08:09	
Hexachloro-1,3-butadiene	ug/L	ND	100	08/10/15 08:09	
Hexachlorobenzene	ug/L	ND	100	08/10/15 08:09	
Hexachloroethane	ug/L	ND	100	08/10/15 08:09	
Nitrobenzene	ug/L	ND	100	08/10/15 08:09	
Pentachlorophenol	ug/L	ND	500	08/10/15 08:09	
Pyridine	ug/L	ND	100	08/10/15 08:09	
2,4,6-Tribromophenol (S)	%	81	31-161	08/10/15 08:09	
2-Fluorobiphenyl (S)	%	60	31-118	08/10/15 08:09	
2-Fluorophenol (S)	%	25	10-67	08/10/15 08:09	
Nitrobenzene-d5 (S)	%	65	29-126	08/10/15 08:09	
p-Terphenyl-d14 (S)	%	60	28-129	08/10/15 08:09	
Phenol-d5 (S)	%	13	10-47	08/10/15 08:09	

LABORATORY CONTROL SAMPLE: 1353651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	1000	702	70	29-102	
2,4,5-Trichlorophenol	ug/L	1000	776	78	42-125	
2,4,6-Trichlorophenol	ug/L	1000	789	79	44-122	
2,4-Dinitrotoluene	ug/L	1000	830	83	36-126	
2-Methylphenol(o-Cresol)	ug/L	1000	485	49	30-85	
3&4-Methylphenol(m&p Cresol)	ug/L	2000	841	42	22-76	
Hexachloro-1,3-butadiene	ug/L	1000	626	63	26-102	
Hexachlorobenzene	ug/L	1000	598	60	36-115	
Hexachloroethane	ug/L	1000	673	67	24-101	
Nitrobenzene	ug/L	1000	734	73	36-114	
Pentachlorophenol	ug/L	1000	840	84	31-125	
Pyridine	ug/L	1000	303	30	10-41	
2,4,6-Tribromophenol (S)	%			80	31-161	
2-Fluorobiphenyl (S)	%			57	31-118	
2-Fluorophenol (S)	%			29	10-67	
Nitrobenzene-d5 (S)	%			63	29-126	
p-Terphenyl-d14 (S)	%			51	28-129	
Phenol-d5 (S)	%			17	10-47	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE SAMPLE:	1353652						
		50124566005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	1000	608	61	39-91	
2,4,5-Trichlorophenol	ug/L	ND	1000	676	68	41-125	
2,4,6-Trichlorophenol	ug/L	ND	1000	672	67	42-120	
2,4-Dinitrotoluene	ug/L	ND	1000	723	72	34-124	
2-Methylphenol(o-Cresol)	ug/L	ND	1000	379	38	21-101	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	664	33	10-104	
Hexachloro-1,3-butadiene	ug/L	ND	1000	539	54	36-97	
Hexachlorobenzene	ug/L	ND	1000	538	54	37-115	
Hexachloroethane	ug/L	ND	1000	569	57	31-93	
Nitrobenzene	ug/L	ND	1000	606	61	42-114	
Pentachlorophenol	ug/L	ND	1000	777	78	30-128	
Pyridine	ug/L	ND	1000	195	19	10-46	
2,4,6-Tribromophenol (S)	%				74	31-161	
2-Fluorobiphenyl (S)	%				49	31-118	
2-Fluorophenol (S)	%				21	10-67	
Nitrobenzene-d5 (S)	%				52	29-126	
p-Terphenyl-d14 (S)	%				45	28-129	
Phenol-d5 (S)	%				12	10-47	

MATRIX SPIKE SAMPLE:	1353653						
Parameter	Units	50124769027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	1000	680	68	39-91	
2,4,5-Trichlorophenol	ug/L	ND	1000	657	66	41-125	
2,4,6-Trichlorophenol	ug/L	ND	1000	667	67	42-120	
2,4-Dinitrotoluene	ug/L	ND	1000	733	73	34-124	
2-Methylphenol(o-Cresol)	ug/L	ND	1000	421	42	21-101	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	727	36	10-104	
Hexachloro-1,3-butadiene	ug/L	ND	1000	597	60	36-97	
Hexachlorobenzene	ug/L	ND	1000	568	57	37-115	
Hexachloroethane	ug/L	ND	1000	646	65	31-93	
Nitrobenzene	ug/L	ND	1000	690	69	42-114	
Pentachlorophenol	ug/L	ND	1000	769	77	30-128	
Pyridine	ug/L	ND	1000	161	16	10-46	
2,4,6-Tribromophenol (S)	%.				77	31-161	
2-Fluorobiphenyl (S)	%.				54	31-118	
2-Fluorophenol (S)	%.				25	10-67	
Nitrobenzene-d5 (S)	%.				59	29-126	
p-Terphenyl-d14 (S)	%.				45	28-129	
Phenol-d5 (S)	%.				15	10-47	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

MATRIX SPIKE SAMPLE:		1353654					
Parameter	Units	50124608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	1000	740	74	39-91	
2,4,5-Trichlorophenol	ug/L	ND	1000	804	80	41-125	
2,4,6-Trichlorophenol	ug/L	ND	1000	792	79	42-120	
2,4-Dinitrotoluene	ug/L	ND	1000	707	71	34-124	
2-Methylphenol(o-Cresol)	ug/L	ND	1000	468	47	21-101	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	912	40	10-104	
Hexachloro-1,3-butadiene	ug/L	ND	1000	657	66	36-97	
Hexachlorobenzene	ug/L	ND	1000	517	52	37-115	
Hexachloroethane	ug/L	ND	1000	680	68	31-93	
Nitrobenzene	ug/L	ND	1000	703	70	42-114	
Pentachlorophenol	ug/L	ND	1000	922	92	30-128	
Pyridine	ug/L	ND	1000	241	24	10-46	
2,4,6-Tribromophenol (S)	%.				91	31-161	
2-Fluorobiphenyl (S)	%.				57	31-118	
2-Fluorophenol (S)	%.				28	10-67	
Nitrobenzene-d5 (S)	%.				61	29-126	
p-Terphenyl-d14 (S)	%.				35	28-129	
Phenol-d5 (S)	%.				16	10-47	

MATRIX SPIKE SAMPLE:		1353655					
Parameter	Units	50124610001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	1000	736	74	39-91	
2,4,5-Trichlorophenol	ug/L	ND	1000	825	83	41-125	
2,4,6-Trichlorophenol	ug/L	ND	1000	826	83	42-120	
2,4-Dinitrotoluene	ug/L	ND	1000	783	78	34-124	
2-Methylphenol(o-Cresol)	ug/L	ND	1000	536	52	21-101	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	980	46	10-104	
Hexachloro-1,3-butadiene	ug/L	ND	1000	691	69	36-97	
Hexachlorobenzene	ug/L	ND	1000	592	59	37-115	
Hexachloroethane	ug/L	ND	1000	691	69	31-93	
Nitrobenzene	ug/L	ND	1000	741	74	42-114	
Pentachlorophenol	ug/L	ND	1000	986	99	30-128	
Pyridine	ug/L	ND	1000	293	29	10-46	
2,4,6-Tribromophenol (S)	%.				91	31-161	
2-Fluorobiphenyl (S)	%.				59	31-118	
2-Fluorophenol (S)	%.				31	10-67	
Nitrobenzene-d5 (S)	%.				64	29-126	
p-Terphenyl-d14 (S)	%.				50	28-129	
Phenol-d5 (S)	%.				19	10-47	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: PMST/10938 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50124769001, 50124769002, 50124769003, 50124769004, 50124769005, 50124769006, 50124769007, 50124769008, 50124769009, 50124769010, 50124769011, 50124769012, 50124769013, 50124769014, 50124769015, 50124769016, 50124769017, 50124769018, 50124769019, 50124769020

SAMPLE DUPLICATE: 1351328

Parameter	Units	50124769001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.9	11.4	4	5	

SAMPLE DUPLICATE: 1351329

Parameter	Units	50124769009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.7	11.8	1	5	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: PMST/10939

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50124769021, 50124769022, 50124769023, 50124769024, 50124769025, 50124769026, 50124769027

SAMPLE DUPLICATE: 1351330

Parameter	Units	50124769021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.3	13.5	2	5	

SAMPLE DUPLICATE: 1351331

Parameter	Units	50124801004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.9	9.8	1	5	

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QUALITY CONTROL DATA

Project: IPL-Morris Street

Pace Project No.: 50124769

QC Batch: PMST/10944

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50124769028, 50124769030

SAMPLE DUPLICATE: 1352370

Parameter	Units	50124769028 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.1	13.5	3	5	

SAMPLE DUPLICATE: 1352371

Parameter	Units	50124861005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	11.4	5	5	

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QUALIFIERS

Project: IPL-Morris Street

Pace Project No.: 50124769

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| 1d | Multiple compounds are outside acceptance limits due to sample matrix. Refer to LCS for system control and data acceptability. JLZ 08/12/15 |
| E | Analyte concentration exceeded the calibration range. The reported result is estimated. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| N2 | The lab does not hold TNI accreditation for this parameter. |
| p8 | Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit. |
| R1 | RPD value was outside control limits. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50124769001	B-1(4-6)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769002	B-3(4-6)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769003	B-5(6-8)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769004	B-6(2-4)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769005	B-7(0-2)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769006	B-8(10-12)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769007	B-10(0-2)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769008	B-16(8-10)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769009	B-16(14-16)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769009	B-16(14-16)	EPA 3050	MPRP/17185	EPA 6010	ICP/20893
50124769010	B-17(6-8)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769011	B-19(4-6)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769012	B-22(10-12)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769013	B-23(8-10)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769014	B-23(12-14)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769015	B-26(2-4)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769016	B-29(0-2)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769017	B-29(6-8)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769018	B-29(8-10)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769019	B-29(12-14)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769020	B-29(14-16)	EPA 3050	MPRP/17162	EPA 6010	ICP/20864
50124769021	B-39(4-6)	EPA 3050	MPRP/17163	EPA 6010	ICP/20865
50124769022	B-41(2-4)	EPA 3050	MPRP/17163	EPA 6010	ICP/20865
50124769023	B-42(0-2)	EPA 3050	MPRP/17163	EPA 6010	ICP/20865
50124769024	B-45(2-4)	EPA 3050	MPRP/17163	EPA 6010	ICP/20865
50124769025	B-45(6-8)	EPA 3050	MPRP/17163	EPA 6010	ICP/20865
50124769026	DUP	EPA 3050	MPRP/17163	EPA 6010	ICP/20865
50124769001	B-1(4-6)	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769002	B-3(4-6)	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769003	B-5(6-8)	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769007	B-10(0-2)	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769018	B-29(8-10)	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769024	B-45(2-4)	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769027	Composite	EPA 3010	MPRP/17197	EPA 6010	ICP/20892
50124769027	Composite	EPA 7470	MERP/6661	EPA 7470	MERC/7719
50124769028	B-35(2-4)	EPA 3546	OEXT/40287	EPA 8270	MSSV/18658
50124769030	B-45(4-6)	EPA 3546	OEXT/40310	EPA 8270	MSSV/18666
50124769027	Composite	EPA 3510	OEXT/40303	EPA 8270	MSSV/18664
50124769028	B-35(2-4)	EPA 8260	MSV/79890		
50124769030	B-45(4-6)	EPA 8260	MSV/79917		
50124769027	Composite	EPA 8260	MSV/79910		
50124769001	B-1(4-6)	ASTM D2974-87	PMST/10938		
50124769002	B-3(4-6)	ASTM D2974-87	PMST/10938		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IPL-Morris Street

Pace Project No.: 50124769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50124769003	B-5(6-8)	ASTM D2974-87	PMST/10938		
50124769004	B-6(2-4)	ASTM D2974-87	PMST/10938		
50124769005	B-7(0-2)	ASTM D2974-87	PMST/10938		
50124769006	B-8(10-12)	ASTM D2974-87	PMST/10938		
50124769007	B-10(0-2)	ASTM D2974-87	PMST/10938		
50124769008	B-16(8-10)	ASTM D2974-87	PMST/10938		
50124769009	B-16(14-16)	ASTM D2974-87	PMST/10938		
50124769010	B-17(6-8)	ASTM D2974-87	PMST/10938		
50124769011	B-19(4-6)	ASTM D2974-87	PMST/10938		
50124769012	B-22(10-12)	ASTM D2974-87	PMST/10938		
50124769013	B-23(8-10)	ASTM D2974-87	PMST/10938		
50124769014	B-23(12-14)	ASTM D2974-87	PMST/10938		
50124769015	B-26(2-4)	ASTM D2974-87	PMST/10938		
50124769016	B-29(0-2)	ASTM D2974-87	PMST/10938		
50124769017	B-29(6-8)	ASTM D2974-87	PMST/10938		
50124769018	B-29(8-10)	ASTM D2974-87	PMST/10938		
50124769019	B-29(12-14)	ASTM D2974-87	PMST/10938		
50124769020	B-29(14-16)	ASTM D2974-87	PMST/10938		
50124769021	B-39(4-6)	ASTM D2974-87	PMST/10939		
50124769022	B-41(2-4)	ASTM D2974-87	PMST/10939		
50124769023	B-42(0-2)	ASTM D2974-87	PMST/10939		
50124769024	B-45(2-4)	ASTM D2974-87	PMST/10939		
50124769025	B-45(6-8)	ASTM D2974-87	PMST/10939		
50124769026	DUP	ASTM D2974-87	PMST/10939		
50124769027	Composite	ASTM D2974-87	PMST/10939		
50124769028	B-35(2-4)	ASTM D2974-87	PMST/10944		
50124769030	B-45(4-6)	ASTM D2974-87	PMST/10944		

REPORT OF LABORATORY ANALYSIS

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Cardno ATC	Report To:	Chris Blahop	Attention:	Paula Sedam
Address:	7988 Centerpoint Dr, Suite 100 Indianapolis, IN 46268	Copy To:		Company Name:	Same
Email To:	chris.bishop@cardno.com	Purchase Order No.:		Address:	Same
Phone:	317-579-4015	Project Name:	IPL-Morris Street Substation	Peace Quote Reference:	
Fax:	317-949-4278	Peace Project Manager:			
Requested Due Date/AT:	48-HOUR/7-DAY	Project Number:			

[illegible]

TELP Pb(mo. Cd)
B-1(4-6), B-3(4-6), B-5(6-8),
B-10(0-2), B-29(8-10)
per Chris Bishop 8/6/15



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Cardno ATC	Report To:	Chris Bishop	Attention:	Paula Sedam
Address:	7988 Centertown Dr, Suite 100 Indianapolis, IN 46256	Copy To:		Company Name:	Same
Email To:	chris.bishop@cardno.com	Purchase Order No.:		Address:	Same
Phone:	317-579-4015	Project Name:	IPL-Morris Street Substation	Pace Quote Reference:	
Requested Due Date/TAT:	48-HOUR/7-DAY	Project Number:		Pace Project Manager:	

ITEM #	Valid Matrix Codes MATRIX CODE DROPPED WATER DW WASTE WATER WW PRODUCT P SOLID S OIL OL WPE WP ARTERIAL AT TISSE T	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test	Total Lead via 6010	TCLP (Pb, Cr, Cd)	TCLP (VOCs)	TCLP (SVOCs)	TCLP (RCRA Metals)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB										
				DATE	TIME	DATE	TIME								
1	B-23 (8-10)	SL G	G	07/30/15	1220	07/30/15	1220	1	1						013
2	B-23 (12-14)	SL G	G	07/30/15	1225	07/30/15	1225	1	1						014
3	B-26 (2-4)	SL G	G	07/30/15	1325	07/30/15	1325	1	1						015
4	B-29 (0-2)	SL G	G	07/30/15	1500	07/30/15	1500	1	1						016
5	B-29 (6-8)	SL G	G	07/30/15	1510	07/30/15	1510	1	1						017
6	B-29 (8-10)	SL G	G	07/30/15	1515	07/30/15	1515	1	1						018
7	B-29 (12-14)	SL G	G	07/30/15	1525	07/30/15	1525	1	1						019
8	B-29 (14-16)	SL G	G	07/30/15	1530	07/30/15	1530	1	1						020
9	B-39 (4-6)	SL G	G	07/31/15	0910	07/31/15	0910	1	1						021
10	B-41 (2-4)	SL G	G	07/31/15	0945	07/31/15	0945	1	1						022
11	B-42 (0-2)	SL G	G	07/31/15	1000	07/31/15	1000	1	1						023
12	B-45 (2-4)	SL G	G	07/31/15	1110	07/31/15	1110	2	1						024

Level IV QA/QC	MSMSD collected from B-16 (14-16) Hold samples B-35 (2-4), B-42 (2-4), and B-45 (4-6) pending results of other samples TAT for TCLP sample is 48 hours, TAT for Total Lead samples is 7 days	RECEIVED BY AFFILIATION		DATE		TIME		SAMPLE CONDITIONS					
		Cardno ATC	08/04/2015	11:35	08/04/2015	11:35	21	N	Y				
		SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YY)		Temp in °C		Received on		Custody Sealed Copier (Y/N)		Samples Intact (Y/N)	
		PRINT Name of SAMPLER: Mark Sparks		08/04/2015									
		SIGNATURE of SAMPLER:											

Page 82 of 86

Sample Condition Upon Receipt

Pace Analytical

Client Name: CARDANO

Project # 50124769

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Date/Time 5036A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer 23 4 5 6 A B C D E F

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 21.
(Corrected, if applicable)

Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: ms 8/4/15

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	5.
Rush Turn Around Time Requested:	☒ Yes ☐ No ☐ N/A	6.
Containers Intact:	☒ Yes ☐ No ☐ N/A	7.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	8.
-Includes date/time/ID/Analysis		
All containers needing acid/base pres. have been checked?	☐ Yes ☐ No ☒ N/A	9.
exceptions: VOA, coliform, TOC, O&G		
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	12.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	13.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

[Signature]

Date: 8/5/15

Sample Container Count

CLIENT: CARDINAL

COC PAGE 1 of 3

COC ID#

Project # 30224769

Sample Line Item	DG9H	AG1U	WGUF	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	202	pH <2 pH >9 pH >12
1																			2	
2																			2	
3																			2	
4																			1	
5																			1	
6																			1	
7																			1	
8																			3	
9																			1	
10																			1	
11																			1	
12																			1	

Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGUF	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Surma Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

CLIENT: Caedon

COC PAGE ____ of ____
COC ID# _____

Project # 50124769

[illegible]

Container Codes							
DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG9U	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

CLIENT: **Carson**

COC PAGE 3 of 3

COC ID# _____ Project # 50124769

Sample Line

DG9H AG1U WGfU AG0U R 4 / 6 BP2N BP2U BP2S BP3N BP3U BP3S AG3S AG1H BP3C BP1U SP5T AG2U $\text{pH} < 2$ $\text{pH} > 9$ $\text{pH} > 12$

[illegible]

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG9U	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Collform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JG9U	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

October 09, 2015

Mr. Chris Bishop
Cardno ATC
7988 Centerpointe Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Morris Street Substation
Pace Project No.: 50128809

Dear Mr. Bishop:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Morris Street Substation

Pace Project No.: 50128809

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas Certification #: E-10177

Kentucky UST Certification #: 0042

Kentucky WW Certification #: 98019

Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2014-148

Texas Certification #: T104704355-15-9

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Morris Street Substation

Pace Project No.: 50128809

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50128809001	Base 9	Solid	09/08/15 11:25	09/29/15 16:05
50128809002	Base 10	Solid	09/08/15 11:30	09/29/15 16:05
50128809003	Base 27	Solid	09/25/15 10:55	09/29/15 16:05
50128809004	Base 42	Solid	09/14/15 11:15	09/29/15 16:05
50128809005	Base 45	Solid	09/21/15 14:55	09/29/15 16:05
50128809006	Sidewall 5	Solid	09/04/15 10:30	09/29/15 16:05
50128809007	Sidewall 11	Solid	09/24/15 09:40	09/29/15 16:05
50128809008	Sidewall 13	Solid	09/16/15 08:20	09/29/15 16:05
50128809009	Sidewall 16	Solid	09/09/15 09:45	09/29/15 16:05
50128809010	Sidewall 1	Solid	09/04/15 10:10	09/29/15 16:05
50128809011	B-25a	Solid	08/26/15 13:15	09/29/15 16:05
50128809012	Hill 1	Solid	09/16/15 07:45	09/29/15 16:05
50128809013	Hill 2	Solid	09/16/15 07:50	09/29/15 16:05
50128809014	Hill 3	Solid	09/16/15 07:55	09/29/15 16:05
50128809015	Hill 4	Solid	09/16/15 08:00	09/29/15 16:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Morris Street Substation

Pace Project No.: 50128809

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50128809001	Base 9	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809002	Base 10	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809003	Base 27	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809004	Base 42	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809005	Base 45	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809006	Sidewall 5	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809007	Sidewall 11	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809008	Sidewall 13	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809009	Sidewall 16	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809010	Sidewall 1	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809011	B-25a	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809012	Hill 1	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809013	Hill 2	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809014	Hill 3	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50128809015	Hill 4	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Morris Street Substation

Pace Project No.: 50128809

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50128809001	Base 9					
EPA 6010	Lead	39.3	mg/kg	1.0	10/08/15 15:46	
ASTM D2974-87	Percent Moisture	4.6	%	0.10	10/08/15 14:18	
50128809002	Base 10					
EPA 6010	Lead	47.4	mg/kg	0.96	10/08/15 15:48	
ASTM D2974-87	Percent Moisture	3.0	%	0.10	10/08/15 14:18	
50128809003	Base 27					
EPA 6010	Lead	4.3	mg/kg	1.0	10/08/15 15:55	
ASTM D2974-87	Percent Moisture	3.6	%	0.10	10/08/15 14:18	
50128809004	Base 42					
EPA 6010	Lead	3.8	mg/kg	0.97	10/08/15 16:06	
ASTM D2974-87	Percent Moisture	4.4	%	0.10	10/08/15 14:19	
50128809005	Base 45					
EPA 6010	Lead	13.9	mg/kg	0.94	10/08/15 16:09	
ASTM D2974-87	Percent Moisture	6.8	%	0.10	10/08/15 14:19	
50128809006	Sidewall 5					
EPA 6010	Lead	65.2	mg/kg	1.1	10/08/15 16:11	
ASTM D2974-87	Percent Moisture	17.9	%	0.10	10/08/15 14:19	
50128809007	Sidewall 11					
EPA 6010	Lead	77.2	mg/kg	0.99	10/08/15 16:13	
ASTM D2974-87	Percent Moisture	10.8	%	0.10	10/08/15 14:19	
50128809008	Sidewall 13					
EPA 6010	Lead	3070	mg/kg	1.0	10/08/15 16:16	
ASTM D2974-87	Percent Moisture	10.1	%	0.10	10/08/15 14:19	
50128809009	Sidewall 16					
EPA 6010	Lead	83.7	mg/kg	0.90	10/08/15 16:31	
ASTM D2974-87	Percent Moisture	4.1	%	0.10	10/08/15 14:19	
50128809010	Sidewall 1					
EPA 6010	Lead	45.2	mg/kg	0.98	10/08/15 16:34	
ASTM D2974-87	Percent Moisture	4.7	%	0.10	10/08/15 14:19	
50128809011	B-25a					
EPA 6010	Lead	23.0	mg/kg	0.95	10/08/15 16:36	
ASTM D2974-87	Percent Moisture	6.4	%	0.10	10/08/15 14:19	
50128809012	Hill 1					
EPA 6010	Lead	27.1	mg/kg	1.0	10/08/15 16:48	
ASTM D2974-87	Percent Moisture	4.0	%	0.10	10/08/15 14:19	
50128809013	Hill 2					
EPA 6010	Lead	10.8	mg/kg	0.93	10/08/15 16:40	
ASTM D2974-87	Percent Moisture	3.2	%	0.10	10/08/15 14:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Morris Street Substation

Pace Project No.: 50128809

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50128809014	Hill 3					
EPA 6010	Lead	26.8	mg/kg	0.94	10/08/15 16:43	
ASTM D2974-87	Percent Moisture	4.2	%	0.10	10/08/15 14:20	
50128809015	Hill 4					
EPA 6010	Lead	6.2	mg/kg	0.97	10/08/15 16:46	
ASTM D2974-87	Percent Moisture	3.2	%	0.10	10/08/15 14:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Base 9 **Lab ID: 50128809001** Collected: 09/08/15 11:25 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	39.3	mg/kg	1.0	1	10/01/15 13:59	10/08/15 15:46	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.6	%	0.10	1		10/08/15 14:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Base 10 **Lab ID: 50128809002** Collected: 09/08/15 11:30 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	47.4	mg/kg	0.96	1	10/01/15 13:59	10/08/15 15:48	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	3.0	%	0.10	1		10/08/15 14:18		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Base 27 **Lab ID: 50128809003** Collected: 09/25/15 10:55 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	4.3	mg/kg	1.0	1	10/01/15 13:59	10/08/15 15:55	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	3.6	%	0.10	1		10/08/15 14:18		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Base 42 **Lab ID: 50128809004** Collected: 09/14/15 11:15 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	3.8	mg/kg	0.97	1	10/01/15 13:59	10/08/15 16:06	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.4	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Base 45 **Lab ID: 50128809005** Collected: 09/21/15 14:55 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	13.9	mg/kg	0.94	1	10/01/15 13:59	10/08/15 16:09	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	6.8	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Sidewall 5 **Lab ID: 50128809006** Collected: 09/04/15 10:30 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	65.2	mg/kg	1.1	1	10/01/15 13:59	10/08/15 16:11	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	17.9	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Sidewall 11 **Lab ID: 50128809007** Collected: 09/24/15 09:40 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	77.2	mg/kg	0.99	1	10/01/15 13:59	10/08/15 16:13	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	10.8	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Sidewall 13 **Lab ID: 50128809008** Collected: 09/16/15 08:20 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	3070	mg/kg	1.0	1	10/01/15 13:59	10/08/15 16:16	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	10.1	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Sidewall 16 **Lab ID: 50128809009** Collected: 09/09/15 09:45 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	83.7	mg/kg	0.90	1	10/01/15 13:59	10/08/15 16:31	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.1	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Sidewall 1 **Lab ID: 50128809010** Collected: 09/04/15 10:10 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	45.2	mg/kg	0.98	1	10/01/15 13:59	10/08/15 16:34	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.7	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: B-25a **Lab ID: 50128809011** Collected: 08/26/15 13:15 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	23.0	mg/kg	0.95	1	10/01/15 13:59	10/08/15 16:36	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	6.4	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Hill 1 **Lab ID:** 50128809012 Collected: 09/16/15 07:45 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	27.1	mg/kg	1.0	1	10/01/15 13:59	10/08/15 16:48	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.0	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Hill 2 **Lab ID:** 50128809013 Collected: 09/16/15 07:50 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	10.8	mg/kg	0.93	1	10/01/15 13:59	10/08/15 16:40	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	3.2	%	0.10	1		10/08/15 14:19		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Hill 3 **Lab ID:** 50128809014 Collected: 09/16/15 07:55 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	26.8	mg/kg	0.94	1	10/01/15 13:59	10/08/15 16:43	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.2	%	0.10	1		10/08/15 14:20		

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50128809

Sample: Hill 4 **Lab ID:** 50128809015 Collected: 09/16/15 08:00 Received: 09/29/15 16:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	6.2	mg/kg	0.97	1	10/01/15 13:59	10/08/15 16:46	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	3.2	%	0.10	1		10/08/15 14:20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Morris Street Substation

Pace Project No.: 50128809

QC Batch:	MPRP/18048	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	50128809001, 50128809002, 50128809003, 50128809004, 50128809005, 50128809006, 50128809007, 50128809008, 50128809009, 50128809010, 50128809011, 50128809012, 50128809013, 50128809014, 50128809015		

METHOD BLANK: 1392878

Matrix: Solid

Associated Lab Samples: 50128809001, 50128809002, 50128809003, 50128809004, 50128809005, 50128809006, 50128809007, 50128809008, 50128809009, 50128809010, 50128809011, 50128809012, 50128809013, 50128809014, 50128809015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	10/08/15 15:29	

LABORATORY CONTROL SAMPLE: 1392879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	52.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1392880 1392881

Parameter	Units	50128809003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	4.3	46.1	48.2	40.1	40.6	78	75	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Morris Street Substation

Pace Project No.: 50128809

QC Batch: PMST/11208 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 50128809001, 50128809002, 50128809003, 50128809004, 50128809005, 50128809006, 50128809007,
 50128809008, 50128809009, 50128809010, 50128809011, 50128809012, 50128809013, 50128809014,
 50128809015

SAMPLE DUPLICATE: 1397894

Parameter	Units	50128809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.6	4.1	11	5	R1

SAMPLE DUPLICATE: 1397895

Parameter	Units	50129434001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.2	11.7	5	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Morris Street Substation

Pace Project No.: 50128809

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Morris Street Substation

Pace Project No.: 50128809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50128809001	Base 9	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809002	Base 10	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809003	Base 27	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809004	Base 42	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809005	Base 45	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809006	Sidewall 5	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809007	Sidewall 11	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809008	Sidewall 13	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809009	Sidewall 16	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809010	Sidewall 1	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809011	B-25a	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809012	Hill 1	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809013	Hill 2	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809014	Hill 3	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809015	Hill 4	EPA 3050	MPRP/18048	EPA 6010	ICP/21904
50128809001	Base 9	ASTM D2974-87	PMST/11208		
50128809002	Base 10	ASTM D2974-87	PMST/11208		
50128809003	Base 27	ASTM D2974-87	PMST/11208		
50128809004	Base 42	ASTM D2974-87	PMST/11208		
50128809005	Base 45	ASTM D2974-87	PMST/11208		
50128809006	Sidewall 5	ASTM D2974-87	PMST/11208		
50128809007	Sidewall 11	ASTM D2974-87	PMST/11208		
50128809008	Sidewall 13	ASTM D2974-87	PMST/11208		
50128809009	Sidewall 16	ASTM D2974-87	PMST/11208		
50128809010	Sidewall 1	ASTM D2974-87	PMST/11208		
50128809011	B-25a	ASTM D2974-87	PMST/11208		
50128809012	Hill 1	ASTM D2974-87	PMST/11208		
50128809013	Hill 2	ASTM D2974-87	PMST/11208		
50128809014	Hill 3	ASTM D2974-87	PMST/11208		
50128809015	Hill 4	ASTM D2974-87	PMST/11208		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: CARDNO ATC Project # 2012.2809

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Box

Thermometer 1 2 3 4 5 6 A B C D E F

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.6°C
(Corrected, if applicable)

Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 9/29/15

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	5.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	6.
Containers Intact:	☒ Yes ☐ No ☐ N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒ Yes ☐ No ☐ N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐ Yes ☐ No ☒ N/A	9. (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		10. Present Absent
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	11.
Headspace TCLP Volatiles	☐ Yes ☐ No	12.
Headspace Wisconsin Sulfide / Acidity	☐ Yes ☐ No	13.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	14.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	15.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	16.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	17.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Project Manager Review:

Date: 9/29/15

Form F-IN-Q-290-rev.07, 11May2015

Sample Container Count

CLIENT: CALISNO ATC

COC PAGE 1 of 2
COC ID# 1939488

Project # 020809

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: CARDNO ATC

COC PAGE 2 of 2
COC ID# 1939687

Project # 5020309

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag



Cardno ATC

7988 Centerpoint Dr.
Suite 100
Indianapolis, IN 46256

Phone +1 317 849 4990
Fax +1 317 849 4278
www.cardno.com

www.cardnoatc.com

Australia • Belgium • Canada • Colombia • Ecuador • Germany • Indonesia • Italy •
Kenya • New Zealand • Papua New Guinea • Peru • Tanzania • United Arab Emirates •
United Kingdom • United States • Operations in 85 countries

November 02, 2015

Mr. Chris Bishop
Cardno ATC
7988 Centerpointe Drive
Suite 100
Indianapolis, IN 46256

RE: Project: Morris Street Substation
Pace Project No.: 50130289

Dear Mr. Bishop:

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Morris Street Substation

Pace Project No.: 50130289

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas Certification #: E-10177

Kentucky UST Certification #: 0042

Kentucky WW Certification #: 98019

Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2014-148

Texas Certification #: T104704355-15-9

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Morris Street Substation

Pace Project No.: 50130289

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50130289001	Sidewall 9 (2')	Solid	10/08/15 14:15	10/19/15 15:45
50130289002	Base 33 (4')	Solid	10/07/15 10:10	10/19/15 15:45
50130289003	DUP-1	Solid	10/08/15 08:00	10/19/15 15:45

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SAMPLE ANALYTE COUNT

Project: Morris Street Substation

Pace Project No.: 50130289

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50130289001	Sidewall 9 (2')	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1
50130289002	Base 33 (4')	EPA 6010	JPJ	1
		ASTM D2974-87	SCM	1
50130289003	DUP-1	EPA 6010	MJC	1
		ASTM D2974-87	SCM	1

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SUMMARY OF DETECTION

Project: Morris Street Substation

Pace Project No.: 50130289

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50130289001	Sidewall 9 (2')					
EPA 6010	Lead	59200	mg/kg	93.9	10/28/15 13:09	
ASTM D2974-87	Percent Moisture	4.0	%	0.10	10/26/15 13:42	
50130289002	Base 33 (4')					
EPA 6010	Lead	6.9	mg/kg	0.98	10/30/15 22:55	
ASTM D2974-87	Percent Moisture	7.6	%	0.10	10/26/15 13:42	
50130289003	DUP-1					
EPA 6010	Lead	21900	mg/kg	50.6	10/28/15 13:13	
ASTM D2974-87	Percent Moisture	4.5	%	0.10	10/26/15 13:43	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50130289

Sample: Sidewall 9 (2') **Lab ID: 50130289001** Collected: 10/08/15 14:15 Received: 10/19/15 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	59200	mg/kg	93.9	100	10/24/15 08:30	10/28/15 13:09	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.0	%	0.10	1		10/26/15 13:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50130289

Sample: Base 33 (4') **Lab ID: 50130289002** Collected: 10/07/15 10:10 Received: 10/19/15 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	6.9	mg/kg	0.98	1	10/30/15 07:27	10/30/15 22:55	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	7.6	%	0.10	1		10/26/15 13:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Morris Street Substation

Pace Project No.: 50130289

Sample: DUP-1 **Lab ID: 50130289003** Collected: 10/08/15 08:00 Received: 10/19/15 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	21900	mg/kg	50.6	50	10/24/15 08:30	10/28/15 13:13	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	4.5	%	0.10	1		10/26/15 13:43		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Morris Street Substation

Pace Project No.: 50130289

QC Batch: MPRP/18354

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Associated Lab Samples: 50130289001, 50130289002, 50130289003

METHOD BLANK: 1407839

Matrix: Solid

Associated Lab Samples: 50130289001, 50130289002, 50130289003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	1.7	1.0	10/28/15 11:09	P8

LABORATORY CONTROL SAMPLE: 1407840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	54.2	108	80-120	B

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1407841 1407842

Parameter	Units	50130289002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	6.9	46.2	49.8	43.0	46.5	79	81	75-125	8	20	B

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1407843 1407844

Parameter	Units	50130585008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	7.0			43.3	45.1				4	20	B

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Morris Street Substation

Pace Project No.: 50130289

QC Batch: MPRP/18458

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Associated Lab Samples: 50130289002

METHOD BLANK: 1412275

Matrix: Solid

Associated Lab Samples: 50130289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	10/30/15 22:51	

LABORATORY CONTROL SAMPLE: 1412276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412277 1412278

Parameter	Units	50130289002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	6.9	49.7	50.3	46.1	47.1	79	80	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1412279 1412280

Parameter	Units	50130585008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	7.0	48.8	50.2	41.7	42.6	71	71	75-125	2	20	M3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Morris Street Substation

Pace Project No.: 50130289

QC Batch: PMST/11278

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 50130289001, 50130289002, 50130289003

SAMPLE DUPLICATE: 1409241

Parameter	Units	50130240014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	13.9	2	5	

SAMPLE DUPLICATE: 1409242

Parameter	Units	50130289002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.6	7.7	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Morris Street Substation

Pace Project No.: 50130289

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

p8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Morris Street Substation

Pace Project No.: 50130289

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50130289001	Sidewall 9 (2')	EPA 3050	MPRP/18354	EPA 6010	ICP/22247
50130289002	Base 33 (4')	EPA 3050	MPRP/18354	EPA 6010	ICP/22247
50130289002	Base 33 (4')	EPA 3050	MPRP/18458	EPA 6010	ICP/22323
50130289003	DUP-1	EPA 3050	MPRP/18354	EPA 6010	ICP/22247
50130289001	Sidewall 9 (2')	ASTM D2974-87	PMST/11278		
50130289002	Base 33 (4')	ASTM D2974-87	PMST/11278		
50130289003	DUP-1	ASTM D2974-87	PMST/11278		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: <u>Cardano ATC</u> Address: <u>79888 Carpentier Dr. Suite 100</u> Indiana Police, IN 46254 Email To: <u>Chris.Bishop@cardano.com</u> Phone: <u>317-579-4051</u> Fax: <u>317-844-4233</u> Requested Due Date/TAT: _____		Section B Required Project Information: Report To: <u>Chris Bishop</u> Copy To: <u>Justin Morée</u> Purchase Order No.: _____ Project Name: <u>Morris Street Substation</u> Project Number: <u>1706M00134</u>		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager: _____ Pace Profile #: _____	
Page: <u>1</u> of <u>1</u> Report No: <u>1944233</u>		REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER <u>PCC</u>			
Site Location: _____ STATE: <u>IN</u>		Site Location: _____ STATE: _____			

ITEM #	Section D Required Client Information												Section E Requested Analysis Filtered (Y/N)												Section F Preservatives												Section G Analysis Test												Section H Residual Chlorine (Y/N)												Section I Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT												SAMPLE TYPE (G=GRAB C=COMP)												COLLECTED												SAMPLE TEMP AT COLLECTION												# OF CONTAINERS												Analysis Test												Y/N												6010 (Total Lead)												10/19/15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

ADDITIONAL COMMENTS <u>Base 33 MS/MSD</u> <u>Total Lead</u>		RELINQUISHED BY / AFFILIATION <u>Justin Morée</u> <u>Cardano ATC</u>		DATE <u>10/19/15</u>		TIME <u>2:35</u>		ACCEPTED BY / AFFILIATION <u>Justin Morée</u> <u>Cardano ATC</u>		DATE <u>10/19/15</u>		TIME <u>2:35</u>		SAMPLE CONDITIONS Temp in °C _____ Received on _____ Custody _____ Sealed Cooler _____ Samples Intact _____	
ORIGINAL SAMPALER NAME AND SIGNATURE PRINT Name of SAMPALER: <u>Justin Morée</u> SIGNATURE of SAMPALER: <u>Justin Morée</u> DATE Signed (MM/DD/YYYY): <u>10-19-2015</u>															

Sample Condition Upon Receipt

Face Analytical

Client Name: Cardno ATC

Project # 50130289

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Ice / Box

Thermometer 1 2 3 4 5 6 A B C D E F

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected)

5.3°/5.3°

Ice Visible in Sample Containers: ☐ yes ☒ no

Date and Initials of person examining contents: 10/19/15 [Signature]

Temp should be above freezing to 6°C

Comments:

Are samples from West Virginia?	☐ Yes ☒ No	1.
Document any containers out of temp.		
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Filled Out:	☐ Yes ☐ No ☐ N/A	3.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Containers Intact:	☒ Yes ☐ No ☐ N/A	8.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	9.
-Includes date/time/ID/Analysis		
All containers needing acid/base pres. have been checked?	☐ Yes ☐ No ☒ N/A	10
exceptions: VOA, coliform, TOC, O&G		
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	13
Headspace Wisconsin Sulfide	☐ Yes ☐ No	14
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	15
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	15.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	16.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	17.

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Project Manager Review:

Date: 10/19/15

Sample Container Count

CLIENT: Carano Atc
 COC PAGE 1 of 1944233
 COC ID# 1944233
 Project # 00130289

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH >12
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Container Codes	DG9H	40mL HCL	amber vial	AG0U	100mL	unpreserved	amber glass	BP1N	1 liter	HNO3	plastic	DG9P	40mL	TSP	amber vial
AG1U	1liter	unpreserved	amber glass	AG1H	1 liter	HCL	amber glass	BP1S	1 liter	H2SO4	plastic	DG9S	40mL	H2SO4	amber vial
WGFU	4oz	clear	soil jar	AG1S	1 liter	H2SO4	amber glass	BP1U	1 liter	unpreserved	plastic	DG9T	40mL	Na Thio	amber vial
R	terra	core	kit	AG1T	1 liter	Na Thiosulfate	amber glass	BP1Z	1 liter	NaOH, Zn, Ac		DG9U	40mL	unpreserved	amber vial
BP2N	500mL	HNO3	plastic	AG2N	500mL	HNO3	amber glass	BP2A	500mL	NaOH, Asc	Acid plastic	SP5T	120mL	Coliform	Na Thiosulfate
BP2U	500mL	unpreserved	plastic	AG2S	500mL	H2SO4	amber glass	BP2O	500mL	NaOH plastic		JGFU	4oz	unpreserved	amber wide
BP2S	500mL	H2SO4	plastic	AG2U	500mL	unpreserved	amber glass	BP2Z	500mL	NaOH, Zn Ac		U	Summa	Can	
BP3N	250mL	HNO3	plastic	AG3U	250mL	unpreserved	amber glass	AF	Air	Filter		VG9H	40mL	HCL	clear vial
BP3U	250mL	unpreserved	plastic	BG1H	1 liter	HCL	clear glass	BP3C	250mL	NaOH plastic		VG9T	40mL	Na Thio.	clear vial
BP3S	250mL	H2SO4	plastic	BG1S	1 liter	H2SO4	clear glass	BP3Z	250mL	NaOH, Zn Ac	plastic	VG9U	40mL	unpreserved	clear vial
AG3S	250mL	H2SO4	glass	BG1T	1 liter	Na Thiosulfate	clear glass	C	Air	Cassettes		VSG	Headspace	septa vial & HCL	
AG1S	1 liter	H2SO4	amber glass	BG1U	1 liter	unpreserved	glass	DG9B	40mL	Na Bisulfate	amber vial	WGFU	4oz	wide jar w/hexane wipe	
BP1U	1 liter	unpreserved	plastic	BP1A	1 liter	NaOH, Asc	Acid plastic	DG9M	40mL	MeOH	clear vial	ZPLC	Ziploc	Bag	