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01 February 2024

TECHNICAL MEMORANDUM

TO: Michael MacCabe, P.E., NYSDEC Project Manager

FROM: Christopher Sanson, EA Project Manager

SUBJECT: Supplemental Investigation - Site Characterization
Empire Electric – New York State Department of Environmental Conservation Site 224015, Kings County, Brooklyn, New York
Contract/ Work Assignment No. D009806-19
EA Project No. 1602519

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) were tasked by the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment (WA) Number (No.) D009806-19 to complete a Focused Feasibility Study (FFS) at the Empire Electric Site (Site). As part of the FFS, EA completed a supplemental investigation do delineate polychlorinated biphenyls (PCB) concentration in soil down gradient of the Site and/or source area. This technical memorandum summarizes the supplemental investigation activities at the Site from 27 November to 30 November 2023.

1. DRILLING AND SOIL SAMPLING ACTIVITIES

EA and their subcontractor Coastal Drilling completed eight soil borings to a depth of 30 ft below ground surface (bgs) using a Fraste/Eijkelkamp CRS XL 140 DUO Sonic Drill Rig and a Geoprobe 6620DT. Prior to the start of drilling activities soil boring locations were cleared to a depth of 5 ft bgs using an air knife with an air compressor and a trailer mounted vacuum to verify no underground utilities were present. Five soil borings were completed with the Fraste/Eijkelkamp CRS XL 140 DUO Sonic Drill Rig (SB-1, SB-2, SB-3, SB-6, and SB-7) and due to mechanical issues with the sonic rig the other three boring were completed with the Geoprobe 6620DT (SB-4, SB-5, SB-8). Soil boring logs were completed at each boring location by an EA geologist and are provided in **Attachment 1**. At each soil boring location ten soil samples were collected in 2 ft intervals from 18 ft bgs to 30 ft bgs. Each 2 ft interval of soil was homogenized, and a composite sample was collected and analyzed for PCBs and percent solids. All drill cuttings were containerized in a single 55-gal drum and staged onsite. An investigative derived waste (IDW) sample was collected from the drum and analyzed for TCLP VOCs, TCPL SVOCs, TCLP Metals, PCBs, and percent solids. All samples were sent to Pace Analytical for analysis. Sample chain of custodies (COCs) are provided in **Attachment 2**.

2. SAMPLING RESULTS

Soil sample results from the supplemental investigation are detailed in **Table 1** and displayed in **Figure 1**. PCBs were not detected in soil borings SB-4, SB-5, and SB-8. PCBs were detected in the five remaining soil borings with the highest concentrations of PCBs detected at SB-1 and SB-2, immediately adjacent to monitoring well MW-05R. The highest concentrations of PCBs in SB-1 were detected from 28-30 ft bgs with a result of 5500 mg/kg. The highest concentration of PCBs in SB-2 were detected from 24-26 ft bgs with a result of 360 mg/kg.

Sincerely yours,

EA SCIENCE AND TECHNOLOGY

Chris Sanson
Project Manager

EA ENGINEERING, P.C.

Donald F. Conan, P.E., P.G.
Program Manager

Figures

1 PCB Concentrations November 2023

Tables

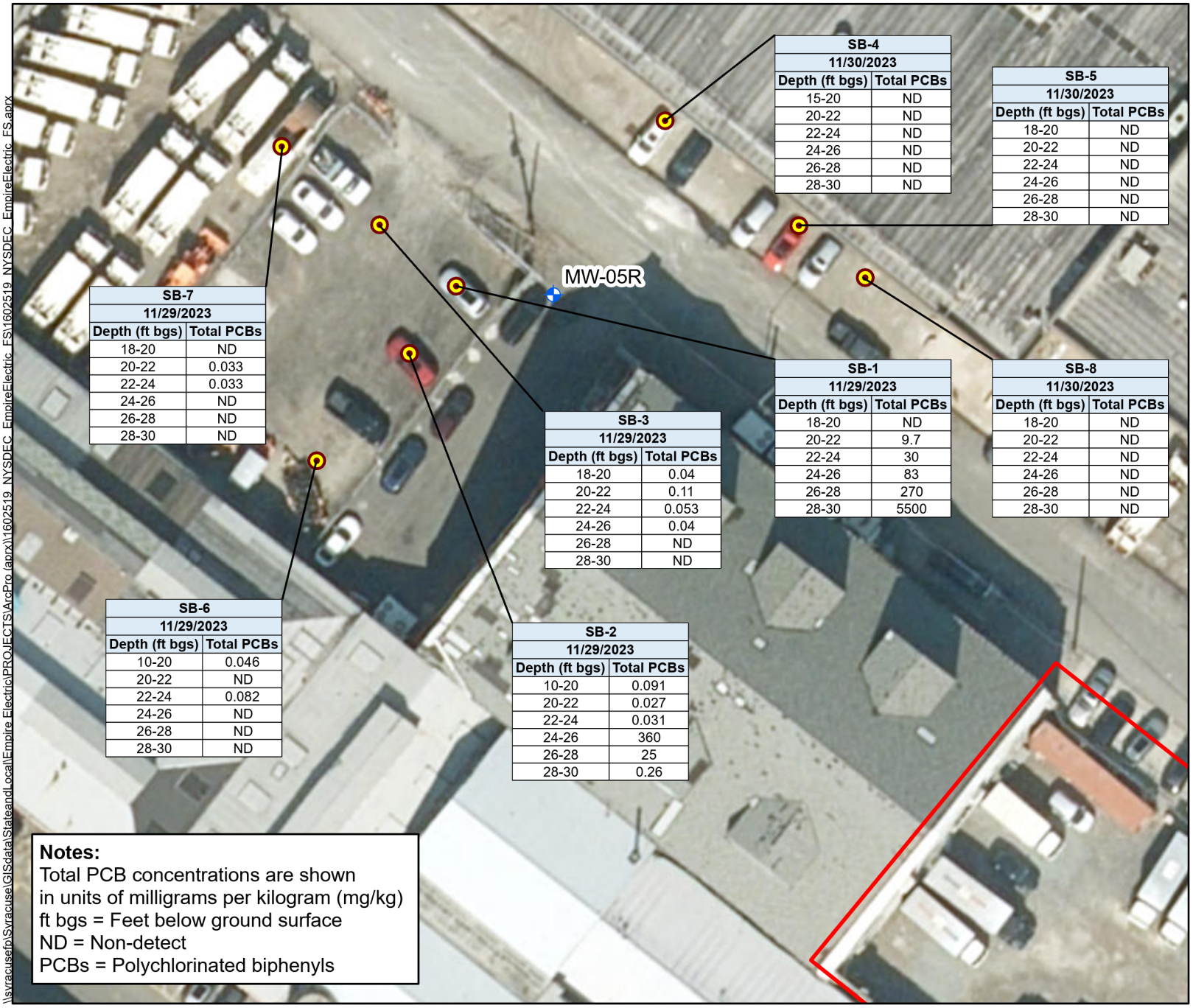
1 Supplemental Investigation PCB Analytical Results

Attachment

1 Soil Boring Logs

2 Chain of Custody

Figures



SB-4	
11/30/2023	
Depth (ft bgs)	Total PCBs
15-20	ND
20-22	ND
22-24	ND
24-26	ND
26-28	ND
28-30	ND

SB-5	
11/30/2023	
Depth (ft bgs)	Total PCBs
18-20	ND
20-22	ND
22-24	ND
24-26	ND
26-28	ND
28-30	ND

SB-7	
11/29/2023	
Depth (ft bgs)	Total PCBs
18-20	ND
20-22	0.033
22-24	0.033
24-26	ND
26-28	ND
28-30	ND

SB-1	
11/29/2023	
Depth (ft bgs)	Total PCBs
18-20	ND
20-22	9.7
22-24	30
24-26	83
26-28	270
28-30	5500

SB-8	
11/30/2023	
Depth (ft bgs)	Total PCBs
18-20	ND
20-22	ND
22-24	ND
24-26	ND
26-28	ND
28-30	ND

SB-3	
11/29/2023	
Depth (ft bgs)	Total PCBs
18-20	0.04
20-22	0.11
22-24	0.053
24-26	0.04
26-28	ND
28-30	ND

SB-6	
11/29/2023	
Depth (ft bgs)	Total PCBs
10-20	0.046
20-22	ND
22-24	0.082
24-26	ND
26-28	ND
28-30	ND

SB-2	
11/29/2023	
Depth (ft bgs)	Total PCBs
10-20	0.091
20-22	0.027
22-24	0.031
24-26	360
26-28	25
28-30	0.26

Notes:
Total PCB concentrations are shown in units of milligrams per kilogram (mg/kg)
ft bgs = Feet below ground surface
ND = Non-detect
PCBs = Polychlorinated biphenyls

VICINITY MAP

Legend

- Site Boundary
- Soil Boring
- Monitoring Well

N

0 25 50
Feet

Map Date: 1/25/2024
Projection: NAD 1983 State Plane
New York Long Island FIPS 3104 (US Feet)

NEW YORK STATE | Department of Environmental Conservation

Figure 1
PCB Concentrations
November 2023
Empire Electric Company Site (224015)
Brooklyn, New York

\\syracusefp\Syracuse\GIS\data\StateandLocal\Empire_Electric\PROJECTS\ArcPro (aprx)\1602519_NYSDEC_EmpireElectric_FS\1602519_NYSDEC_EmpireElectric_FS.aprx

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Tables

Table 1 - Soil Boring PCB Results

Parameter List[a]	Location ID	SB-1	SB-1	SB-1	SB-1	SB-1	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-1-18-20	224015-SB-1-20-22	224015-SB-1-22-24	224015-SB-1-24-26	224015-SB-FD-03			
	Parent Sample ID					224015-SB-1-24-26			
	Sample Interval (ft bgs)	18-20	20-22	22-24	24-26	24-26			
	Sample Date	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.035 U	< 0.29 U	< 0.6 U	< 3.1 U	< 0.68 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.031 U	9.7	30	83	31	--	--	--
Aroclors (Total)	mg/kg	ND	**9.7**	**30**	**83**	**31**	0.1	1	25
Parameter List[a]	**Location ID**	SB-1	SB-1	SB-2	SB-2	SB-2	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-1-26-28	224015-SB-1-28-30	224015-SB-2-10-20	224015-SB-2-20-22	224015-SB-2-22-24			
	Parent Sample ID								
	Sample Interval (ft bgs)	26-28	28-30	45585	20-22	22-24			
	Sample Date	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 15 U	< 280 U	< 0.03 U	< 0.03 U	< 0.03 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	270	5500	0.091 J	0.027 J	0.031 J	--	--	--
Aroclors (Total)	mg/kg	**270**	**5500**	0.091	0.027	0.031	0.1	1	25
Parameter List[a]	**Location ID**	SB-2	SB-2	SB-2	SB-2	SB-3	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-2-24-26	224015-SB-FD-01	224015-SB-2-26-28	224015-SB-2-28-30	224015-SB-3-18-20			
	Parent Sample ID		224015-SB-2-24-26						
	Sample Interval (ft bgs)	24-26	24-26	26-28	28-30	18-20			
	Sample Date	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 15 U	< 2.9 U	< 0.6 U	< 0.03 U	< 0.033 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	360	58	25	0.26	0.040 J	--	--	--
Aroclors (Total)	mg/kg	**360**	**58**	**25**	**0.26**	0.04	0.1	1	25
Parameter List[a]	**Location ID**	SB-3	SB-3	SB-3	SB-3	SB-3	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-3-20-22	224015-SB-3-22-24	224015-SB-3-24-26	224015-SB-3-26-28	224015-SB-3-28-30			
	Parent Sample ID								
	Sample Interval (ft bgs)	20-22	22-24	24-26	26-28	28-30			
	Sample Date	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.031 U	< 0.03 U	< 0.029 U	< 0.028 U	< 0.03 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	0.11	0.053 J	0.040 J	< 0.025 U	< 0.026 U	--	--	--
Aroclors (Total)	mg/kg	**0.11**	0.053	0.04	ND	ND	0.1	1	25
Parameter List[a]	**Location ID**	SB-4	SB-4	SB-4	SB-4	SB-4	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-4-15-20	224015-SB-4-20-22	224015-SB-4-22-24	224015-SB-4-24-26	224015-SB-4-26-28			
	Parent Sample ID								
	Sample Interval (ft bgs)	15-20	20-22	22-24	24-26	26-28			
	Sample Date	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.031 U	< 0.028 U	< 0.028 U	< 0.03 U	< 0.026 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.027 U	< 0.025 U	< 0.025 U	< 0.027 U	< 0.023 U	--	--	--
Aroclors (Total)	mg/kg	ND	ND	ND	ND	ND	0.1	1	25
Parameter List[a]	**Location ID**	SB-4	SB-5	SB-5	SB-5	SB-5	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-4-28-30	224015-SB-5-18-20	224015-SB-5-20-22	224015-SB-5-22-24	224015-SB-5-24-26			
	Parent Sample ID								
	Sample Interval (ft bgs)	28-30	18-20	20-22	22-24	24-26			
	Sample Date	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.026 U	< 0.027 U	< 0.03 U	< 0.027 U	< 0.026 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.023 U	< 0.024 U	< 0.026 U	< 0.024 U	< 0.023 U	--	--	--
Aroclors (Total)	mg/kg	ND	ND	ND	ND	ND	0.1	1	25
Parameter List[a]	**Location ID**	SB-5	SB-5	SB-6	SB-6	SB-6	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-5-26-28	224015-SB-5-28-30	224015-SB-6-10-20	224015-SB-6-20-22	224015-SB-6-22-24			
	Parent Sample ID								
	Sample Interval (ft bgs)	26-28	28-30	10-20	20-22	22-24			
	Sample Date	11/30/2023	11/30/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.028 U	< 0.029 U	< 0.027 U	< 0.028 U	< 0.028 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.025 U	< 0.026 U	0.046 J	< 0.024 U	0.082 J	--	--	--
Aroclors (Total)	mg/kg	ND	ND	0.046	ND	0.082	0.1	1	25
Parameter List[a]	**Location ID**	SB-6	SB-6	SB-6	SB-7	SB-7	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-6-24-26	224015-SB-6-26-28	224015-SB-6-28-30	224015-SB-7-18-20	224015-SB-7-20-22			
	Parent Sample ID								
	Sample Interval (ft bgs)	24-26	26-28	28-30	18-20	20-22			
	Sample Date	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.03 U	< 0.027 U	< 0.028 U	< 0.032 U	0.033 J	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.027 U	< 0.024 U	< 0.025 U	< 0.029 U	< 0.026 U	--	--	--
Aroclors (Total)	mg/kg	ND	ND	ND	ND	0.033	0.1	1	25
Parameter List[a]	**Location ID**	SB-7	SB-7	SB-7	SB-7	SB-7	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-7-22-24	224015-SB-7-24-26	224015-SB-FD-02	224015-SB-7-26-28	224015-SB-7-28-30			
	Parent Sample ID			224015-SB-7-24-26					
	Sample Interval (ft bgs)	22-24	24-26	24-26	26-28	28-30			
	Sample Date	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023			
PCB-1254 (Aroclor 1254)	mg/kg	0.033 J	< 0.028 U	< 0.028 U	< 0.027 U	< 0.026 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	0.062 J	< 0.025 U	< 0.025 U	< 0.024 U	< 0.023 U	--	--	--
Aroclors (Total)	mg/kg	0.095	ND	ND	ND	ND	0.1	1	25
Parameter List[a]	**Location ID**	SB-8	SB-8	SB-8	SB-8	SB-8	6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-8-18-20	224015-SB-8-20-22	224015-SB-8-22-24	224015-SB-8-24-26	224015-SB-8-26-28			
	Parent Sample ID								
	Sample Interval (ft bgs)	18-20	20-22	22-24	24-26	26-28			
	Sample Date	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023			
PCB-1254 (Aroclor 1254)	mg/kg	< 0.031 U	< 0.029 U	< 0.028 U	< 0.03 U	< 0.031 U	--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.027 U	< 0.026 U	< 0.025 U	< 0.027 U	< 0.027 U	--	--	--
Aroclors (Total)	mg/kg	ND	ND	ND	ND	ND	0.1	1	25
Parameter List[a]	**Location ID**	SB-8					6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use[b]	6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use[b]
	Sample Name	224015-SB-8-28-30							
	Parent Sample ID								
	Sample Interval (ft bgs)	28-30							
	Sample Date	11/30/2023							
PCB-1254 (Aroclor 1254)	mg/kg	< 0.029 U					--	--	--
PCB-1260 (Aroclor 1260)	mg/kg	< 0.026 U					--	--	--
Aroclors (Total)	mg/kg	ND					0.1	1	25

Notes:
(a) Only those analytes detected in one or more samples during this sampling event are presented.
(b) NYSDEC Division of Environmental Remediation. 2006 6 New York Code of Rules and Regulations Part 375 Environmental Remediation Programs.
Concentrations in **bold** indicate the concentration exceeds the 6 NYCRR Part 375 Soil Cleanup Objectives - Unrestricted Use
Concentrations in **bold** and yellow shaded indicate the concentration exceeds the 6 NYCRR Part 375 Soil Cleanup Objectives - Commercial Use
Concentrations in **bold** and red shaded indicate the concentration exceeds the 6 NYCRR Part 375 Soil Cleanup Objectives - Industrial Use
-- = No standard.
mg/kg - Miligram(s) per kilogram
U = Non detect
J = Concentration is estimated
ND = Not detected
ft bgs = Feet below ground surface

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Attachment 1

Soil Boring Logs

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No. 1602519	Client: NYSDEC; Project: Empire Electric
Location:	
Drilling Method: Sonic	Soil Boring Number: SB-1
Sampling Method: Macrocore	Sheet 1 of 1
Coordinates: Northing ____ Easting: ____	
Surface Elevation:	
Casing Below Surface:	
Reference Elevation:	
Reference Description:	

Drilling	Start	Finish
DATE	11/29	11/29
TIME	1120	1140

Water Level:				
Time:				
Date:				

Surface Conditions: Gravel
Weather: Sunny / windy
Temperature: 30F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	10/2		0.0	0		Dark brown, loose, medium silty sand with gravel, and debris (wood, plastic), dry
				9		Orangey-brown ~~fine to~~ COB loose fine to medium sand, dry
			0.0	10		
	10/2.8			14		Orangey-brown ~~fine~~ COB loose fine sand, dry
				18		medium brown medium dense fine to medium sand, wet
			0.3	20		medium-dark grey, medium dense fine to medium sand, trace coarse sand, wet 224105-SB-L18-20@1130
	10/6		3.7	24		medium brown, loose, medium sand, wet, slight petroleum odor
			6.1	26		medium brown, loose fine to medium sand, some cobbles, wet with slight oily sheen and petroleum odor
			11.0	29		medium brown, ~~fine~~ loose, medium sand, some cobbles, moist with slight petroleum odor
			3.4	30		medium to orangey-brown, dense, medium sand, moist, slight petroleum odor
						COB 30-EOB
						224105-SB-1-20-22 1140
						224105-SB-1-22-24 1142
						224105-SB-1-24-26 w/FD-03 1144
						224105-SB-1-26-28 1146
						224105-SB1-28-30 1148

Monitoring Well Construction Information

Monitoring Well Diameter:	in		
Bottom of Monitoring Well:	ft bgs		
Stick Up or Flush Mount:			
Screen Interval:	To		ft bgs
Riser Interval:	To		ft bgs
Sand Pack Interval:	To		ft bgs
Bentonite Seal:	To		ft bgs
Grout Interval:	To		ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	ft
Bottom of Tubing:	ft
Top of Sand Pack:	ft
Top of Bentonite Seal:	ft

Logged by: Grant Reyder
Drilling Contractor: Coastal
Date: 11/29/2023
Driller: Dylan Jewell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting: _____
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	NYSDEC	Location:
1602519	Project:	Empire Electric	

Drilling Method: Sonic
Sampling Method:
Soil Boring Number: SB-2
Sheet 1 of 1

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE	11/29	11/29
TIME	0745	0820

Surface Conditions: Gravel
Weather: Sunny, windy
Temperature: 29F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				0		Dark brown loose medium sand
	10/1.5		0.2			with gravel, some debris (wood,
				10		concrete), dry *hand cleared to 5ft
						Medium brown loose fine to medium
	10/0.8		0.1			Sand, moist, very poor recovery.
						black medium sand with gravel
						and coal/slag chips coating outside
				~~20~~		of 10-20 interval
						Sample 224015-SB-2-10-20 collected
				20		for PCBs 0800
			0.5			medium brown loose medium sand,
	10/7		1.6	24		trace cobbles, moist
			2.6			Light/medium brown loose medium
						sand, trace gravel, wet, sheen
			3.3			observed on soil, slight petroleum
			4.6	26		odor
			4.4			medium brown medium dense fine
				28		to medium sand, trace silts, moist
			3.3			medium brown medium dense with
						blocky texture fine to medium sand,
			3.8	30		trace silt, moist
						EOB 30'
						224105-SB-2-20-22 0810
						224105-SB-2-22-24 0812
						224105-SB-2-24-26 w/ FD-01 0814
						224105-SB-2-26-28 0816
						224105-SB-2-28-30 0818

Monitoring Well Construction Information

Monitoring Well Diameter:	in		
Bottom of Monitoring Well:	ft bgs	NA	*borehole abandoned
Stick Up or Flush Mount:			
Screen Interval:	To		ft bgs
Riser Interval:	To		ft bgs
Sand Pack Interval:	To		ft bgs
Bentonite Seal: 1	To	30	ft bgs
Grout Interval:	To		ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	ft
Bottom of Tubing:	ft
Top of Sand Pack:	ft
Top of Bentonite Seal:	ft

Logged by: Grant Reeder
Drilling Contractor: Coastal
Date: 11/29/2023
Driller: Dylan Jewell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job. No.	Client:	NYSDEC	Location:
1602519	Project:	Empire Electric	
Drilling Method: Sonic			Soil Boring Number: SB-3
Sampling Method: Macrocore			Sheet 1 of 1

Water Level:					Drilling	
					Start	Finish
Time:					DATE 11/29	DATE 11/29
Date:					TIME 0950	TIME 1010

Surface Conditions: Grass
Weather: Sunny
Temperature: 30F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				0		Dark brown/black loose medium
	10/3		1.3			sand with gravel and debris
			1.1	5		(wood, plastic, brick), dry
						Orangey-brown loose fine sand,
			1.6			trace medium/coarse sand and
			1.7	10		gravel, dry
	10/4.5					orangey-brown loose fine sand
			1.0	14		trace cobbles, moist
						medium brown loose fine to
			1.5	18		medium sand, wet, no odor
						dark brown loose fine/medium
						sand with silt, some woody
			1.2	20		debris, wet, 224105-SB-3-18-20 @1005
	10/6.5		0.0			medium brown, loose, fine to
				22		medium sand, trace silt, wet
			1.5			orangey/brown and black mottled
						medium dense w/ blocky texture
				24		fine to medium sand, moist
			3.3			orangey-brown medium dense
						with blocky texture, medium
			2.3	28		sand, trace silt, moist
						medium brown medium dense
						medium sand with silt, trace
				30		gravel, moist
						EOB 30 ft
						224105-SB-3-20-22 1012
						224105-SB-3-22-24 w/ms/msd 1014
						224105-SB-3-24-26 1016
						224105-SB-3-26-28 1018
						224105-SB-28-30 1020

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: 1 To 30 ft bgs
Grout Interval: _____ To _____ ft bgs

N/A boring abandoned

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Grant Reader
Drilling Contractor: Crastal
Date: 11/29/2023
Driller: Dylan Farrell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job. No.	Client:	NYSDEC	Location:
1602519	Project:	Empire Electric	

Drilling Method: Geoprobe
Sampling Method: Macrocore
Soil Boring Number: SB-4
Sheet 1 of 1

Water Level:					Drilling	
Time:					Start	Finish
Date:					DATE 11/30	DATE 11/30
					TIME 0745	TIME 0900

Surface Conditions: Concrete
Weather: 37 F Sunny
Temperature: 37 F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2			0		medium brown, loose, medium
			0.1			sand with gravel, dry, slight
			2.3	4.5		petroleum odor.
	5/2		0.2			Medium brown w/ orangey mottling,
						med. dense, fine to medium
						sand with gravel and debris
			2.4			(brick, concrete), gravel lense at
				10		8 ft (1-inch thick), moist
	5/2.5		2.6			brown and black, medium dense,
						medium-sandy gravel and debris
						(coal/slag?, brick, concrete, layer of
			10.6			wood-chips 12.5-13, moist, slight
				13		organic odor.
						Dark grey, loose, medium to
						coarse sand ~~with~~ (?), trace gravel
						and debris, moist, slight petroleum
			4.4	15		odor.
	5/1					Dark grey/black, loose, medium
			4.3			to coarse sand with silt, trace gravel,
				~~20~~		wet, no petroleum odor
				20		224105-SB-4-15-20 collected 0810
	5/3.5		5.4			Medium brown/orange, dense, fine
						sand, trace medium sand, wet,
			4.2	~~25~~		no odor. 224105-SB-4-20-22 0840,
						224105-SB-4-22-24 0842, 224105-SB-4-24-26
				25		0844.
	5/2		10.5			medium brown/orange, dense, medium
						to coarse sand with gravel, wet,
			4.2			no odor. 224105-SB-4-26-28 w/ MS/MSD 0900,
						224105-SB-4-28-30 0902 EOB 30'

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Grant Powder
Drilling Contractor: Coastal
Date: 11/30/2023
Driller: Dylan Fennell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job. No.	Client:	NYSDEC	Location:
1602519	Project:	Empire Electric	

Drilling Method: Geoprobe
Sampling Method: Macrocore
Soil Boring Number: SB-5
Sheet 1 of 1

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE	11/30	11/30
TIME	0960	0945

Surface Conditions: Concrete
Weather: Sunny
Temperature: 41F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/1		0.6	0		medium brown, loose, medium sand with gravel and debris (concrete, asphalt), dry
				5		
	5/2.5		5.6			Orangey-brown, loose, fine to medium sand, trace gravel, dry → 3" lense of concrete @ 9ft, no odor
			3.6			
			4.2	10		
			2.7			orangey brown, med-dense, medium sand, moist, no odor
			4.5			
			1.5	14		medium-brown, medium dense, medium sand, some coarse sand, wet, no odor
			3.2			
	5/3		5.4	~~5.4~~ 18		
						Orangey-brown, dense, fine sand, some medium sand, wet, no odor
	5/3		3.6	~~20~~ 22		
			1.3	20		224105-SB-5-18-20 0920
			4.9			Orangey-brown, medium dense, medium sand, moist, no odor
	5/3.5		10.9	~~25~~		
						224105-SB-5-20-22 0930, 224105-SB-5-22-24, 0932, 224105-SB-5-24-26 0934
			4.5	25		
	5/3		4.7			Orangey-brown, dense, fine sand, trace medium sand, wet, no odor
			4.5			
			5.8	30		
						EOB 30-ft
						224105-SB-5-26-28 0945
						224105-SB-5-28-30 0947

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Grant Reeder
Drilling Contractor: Coastal
Date: 11/30/2023
Driller: Dylan Jewell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting: _____
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	NYSDEC	Location:
1602519	Project:	Empire Electric	

Drilling Method: Sonic
Sampling Method: Macrocore
Soil Boring Number: SB-6
Sheet 1 of 1

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE	11/29	11/29
TIME	0825	0850

Surface Conditions: Gravel
Weather: Sunny, windy
Temperature: 27F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	10/0		NA	0		No recovery
				10		
	10/1		5.9			light grey/white concrete debris.
						fine sand with silt and gravel/cobbles,
				20		dry 224105-SB-6-10-20 Collected 0830
				20		for PCBs
	10/7		0.0			Black loose coarse sand to gravel-
			0.0			sized coal/slag debris with silt,
			0.0	22		some gravel (Rock fragments), moist
				23		Concrete
			0.0			Medium brown loose fine to medium
				25		sand with silt. Some gravel, wet
						Mottled brown/orange and black
			0.0			medium dense medium sand, trace
				26		gravel and shell debris
						Medium brown medium dense with
						blocky texture medium sand, trace
				30		gravel, moist
						EOB 30 ft
						224105-SB-6-20-22 0855
						224105-SB-6-22-24 0900
						224105-SB-6-24-26 0902
						224105-SB-6-26-28 0904 w/ MS/MSD
						224105-SB-6-28-30 0906

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount:
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Grant Reeder
Drilling Contractor: Crastal
Date: 11/29/2023
Driller: Dylan Jewell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting _____
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	NYSDEC
1602519	Project:	Empire Electric

Drilling Method: Sonic
Sampling Method: Macrocore

Location:
Soil Boring Number: SB-7
Sheet 1 of 1

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE 11/26	DATE 11/29
TIME 0905	TIME 0925

Surface Conditions: Gravel
Weather: 29F windy, sunny
Temperature: 29F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	10/1.5		0.0	0		Dark brown loose fine to medium sand with gravel and debris, and silt, dry
				9		medium brown loose fine to medium sand, trace gravel, dry
			0.0	10		medium brown ~~fine~~ to medium dense fine sand trace medium sand, wet
	10/4		0.0	15		dark brown/black medium dense silt with sand and gravel, wet, trace organic fibers *
			0.0	~~20~~		224105-SB-7-18-20 collected 0920 for PCBs
				20		*Paper debris w/ organic decomp odor observed
	10/5.5		1.8			medium brown loose fine-sandy silt, wet, slight petroleum odor
			2.1	25		medium/dark brown medium dense fine to medium sand with silt, trace gravel, wet, slight petroleum odor
			3.9			
				26		
			3.6			medium brown medium dense medium to coarse sand with gravel, trace silt, moist, slight petroleum odor
				27		
			3.9			orange/brown loose w/ blocky texture fine to medium sand, trace gravel and cobbles, moist
				30		EOB 30'

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs — N/A boring abandoned
Stick Up or Flush Mount:
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Grant Reeder
Drilling Contractor: Coastal
Date: 11/26/2023
Driller: Dylan Jewell

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Coordinates: Northing _____ Easting: _____
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	NYSDEC
1602519	Project:	Empire Electric

Drilling Method: Geoprobe
Sampling Method: Macrocore

Location:
Soil Boring Number: SB-8
Sheet 1 of 1

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE	11/31	11/30
TIME	0950	1120

Surface Conditions: Concrete
Weather: Sunny
Temperature: 44F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/1			0		Concrete debris
			7.1	4		Orangey-brown, loose, medium sand, dry
	5/3			7		
			3.4	8		Concrete debris
			6.4			Orangey-brown, medium dense, fine-medium sand, trace coarse sand, dry
	5/3.5					
			3.2	13		
			7.2			orangey-brown, medium dense, medium to coarse sand, wet, no odor
			6.8	17		
	5/3.5		7.7			Orangey-brown, medium dense, fine to medium sand, wet, no odor. 224105-SB-8-18-20 @ 1010
			4.0			
	5/3			20		
			1.7			medium brown, medium dense, medium sand, wet, no odor.
	5/4					
			2.3	30		2" Orangey-brown silt lense @ 29.5ft.
						224105-SB-8-20-22 1020
						224105-SB-8-22-24 1022
						224105-SB-8-24-26 1024
						224105-SB-8-26-28 1026
						224105-SB-8-28-30 1028
						EOB 30-ft

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount:
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Grant Reeder
Drilling Contractor: Coastal
Date: 11/30/2023
Driller: Dylan Flanell

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Attachment 2

Chain of Custody

Pace Analytical®

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 6

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (315) 225 - 7988
Project Name: Empire Electric
Project Location: Brooklyn, NY
Project Number: 1602519/0002
Project Manager: Chris Sanson
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Grant Reeder, Lincoln Backman-Lowe

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: csanson@eaest.com
Fax To #:

¹ # of Containers: 1
² Preservation Code: I
³ Container Code: A

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	¹Matrix Code	Conc Code	8082 - PCBs
	224015-SB-1-18-20	11/29/23	1130	X		SOL	U	X
	224015-SB-1-20-22	11/29/23	1140	X		SOL	U	X
	224015-SB-1-22-24	11/29/23	1142	X		SOL	U	X
	224015-SB-1-24-26	11/29/23	1144	X		SOL	U	X
	224015-SB-1-26-28	11/29/23	1146	X		SOL	U	X
	224015-SB-1-28-30	11/29/23	1148	X		SOL	U	X
	224015-SB-2-10-20	11/29/23	0800	X		SOL	U	X
	224015-SB-2-20-22	11/29/23	0810	X		SOL	U	X
	224015-SB-2-22-24	11/29/23	0812	X		SOL	U	X
	224015-SB-2-24-26	11/29/23	0814	X		SOL	U	X

Comments: *Level 4 deliverable requested*

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

¹ **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

² **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

³ **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 12/1/23 12:15
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: FH Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (315) 225-7988
Project Name: Empire Electric
Project Location: Brooklyn, NY
Project Number: 1602519/0002
Project Manager: Chris Sanson
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Grant Reeder, Lincoln Backman-Love

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: csanson@eaest.com
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8082 - PCBs	I	I	A	# of Containers / [2] Preservation Code / [3] Container Code
	224015-SB-2-26-28	11/29/23	0816	X		SOL	U	X				
	224015-SB-2-28-30	11/29/23	0818	X		SOL	U	X				
	224015-SB-3-18-20	11/29/23	1005	X		SOL	U	X				
	224015-SB-3-20-22	11/29/23	1012	X		SOL	U	X				
	224015-SB-3-22-24	11/29/23	1014	X		SOL	U	X				
	224015-SB-3-24-26	11/29/23	1016	X		SOL	U	X				
	224015-SB-3-26-28	11/29/23	1018	X		SOL	U	X				
	224015-SB-3-28-30	11/29/23	1020	X		SOL	U	X				
	224015-SB-4-15-20	11/30/23	0810	X		SOL	U	X				
	224015-SB-4-20-22	11/30/23	0840	X		SOL	U	X				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: *Level 4 deliverable requested*
Additional volume included w/ sample 224015-SB-3-22-24 to be used for MS/MSD, 224015-SB-4-26-28 w/ additional volume as well

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 12/1/23 12:15
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☒ NY Unrestricted Use
☐ NY Part 375
Other:

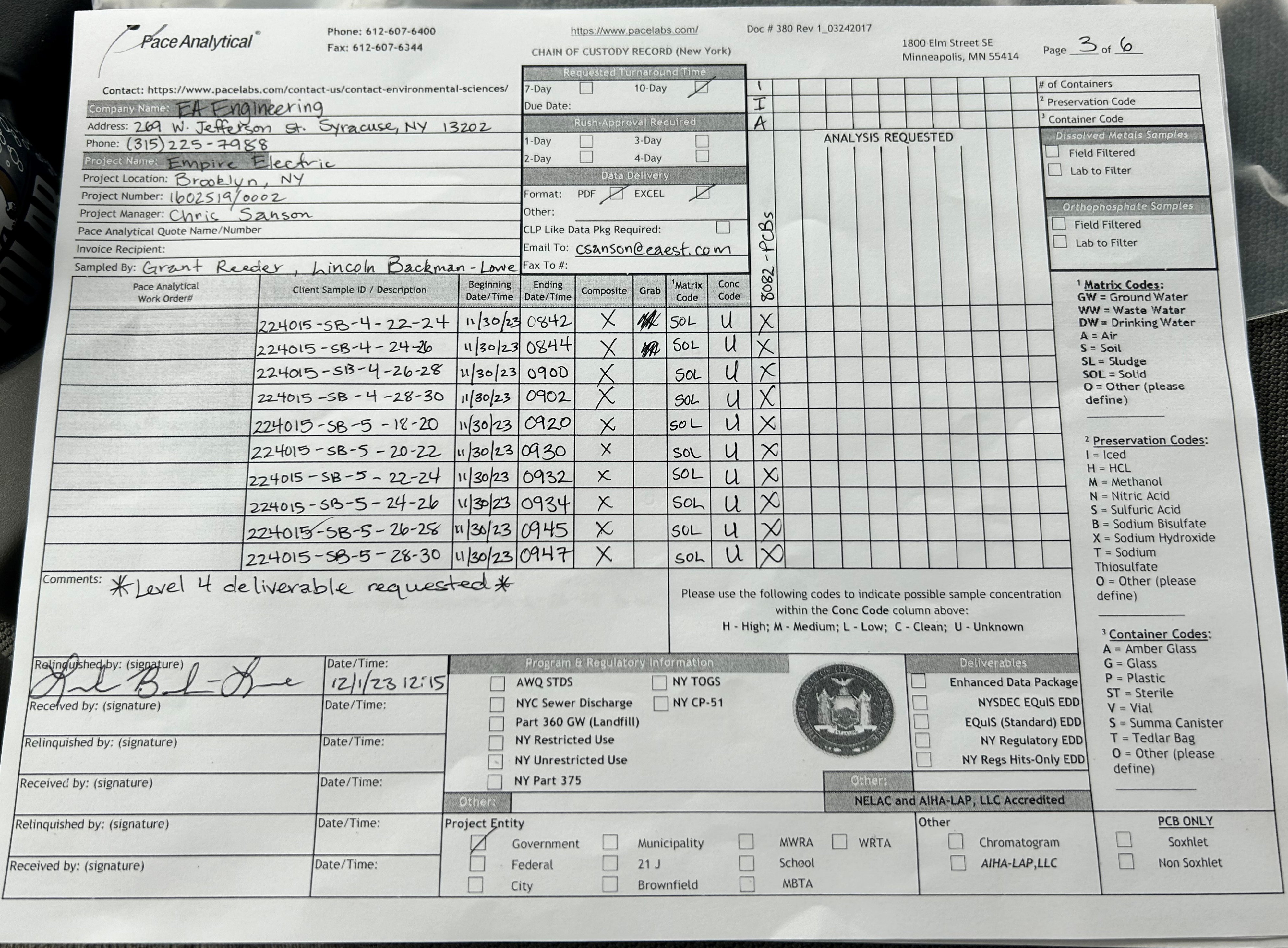
Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet



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CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

Page 3 of 6

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (315) 225-7988
Project Name: Empire Electric
Project Location: Brooklyn, NY
Project Number: 1602519/0002
Project Manager: Chris Sanson
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Grant Reeder, Lincoln Backman-Lowe

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: csanson@eaest.com
Fax To #:

# of Containers: I
² Preservation Code: I
³ Container Code: A

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	¹Matrix Code	Conc Code	8082-PCBs
	224015-SB-4-22-24	11/30/23	0842	X		SOL	U	X
	224015-SB-4-24-26	11/30/23	0844	X		SOL	U	X
	224015-SB-4-26-28	11/30/23	0900	X		SOL	U	X
	224015-SB-4-28-30	11/30/23	0902	X		SOL	U	X
	224015-SB-5-18-20	11/30/23	0920	X		SOL	U	X
	224015-SB-5-20-22	11/30/23	0930	X		SOL	U	X
	224015-SB-5-22-24	11/30/23	0932	X		SOL	U	X
	224015-SB-5-24-26	11/30/23	0934	X		SOL	U	X
	224015-SB-5-26-28	11/30/23	0945	X		SOL	U	X
	224015-SB-5-28-30	11/30/23	0947	X		SOL	U	X

Comments: *Level 4 deliverable requested*

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 12/1/23 12:15
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS
☐ NYC Sewer Discharge
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
☐ NY TOGS
☐ NY CP-51
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☒ Government
☐ Federal
☐ City
☐ Municipality
☐ 21 J
☐ Brownfield
☐ MWRA
☐ School
☐ MBTA
☐ WRTA

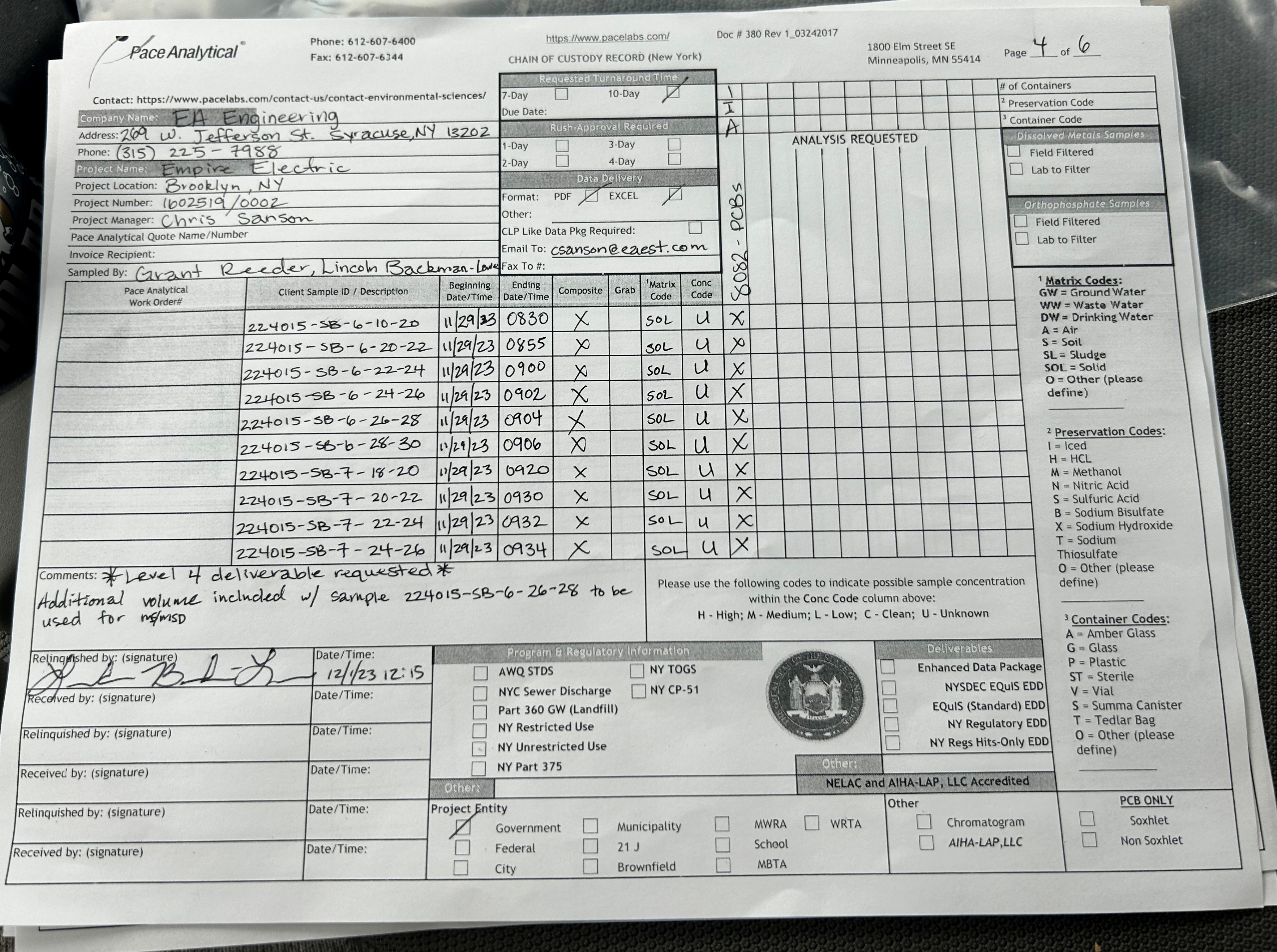
Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

¹ **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

² **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

³ **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)



Pace Analytical

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

Page 4 of 6

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY 13202
Phone: (315) 225-7988
Project Name: Empire Electric
Project Location: Brooklyn, NY
Project Number: 1602519/0002
Project Manager: Chris Sanson
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Grant Reeder, Lincoln Backman-Love

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: csanson@eaest.com
Fax To #:

ANALYSIS REQUESTED

	8082 - PCBs
¹ # of Containers	1
² Preservation Code	I
³ Container Code	A

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	¹Matrix Code	Conc Code	8082 - PCBs
	224015-SB-6-10-20	11/29/23	0830	X		SOL	U	X
	224015-SB-6-20-22	11/29/23	0855	X		SOL	U	X
	224015-SB-6-22-24	11/29/23	0900	X		SOL	U	X
	224015-SB-6-24-26	11/29/23	0902	X		SOL	U	X
	224015-SB-6-26-28	11/29/23	0904	X		SOL	U	X
	224015-SB-6-28-30	11/29/23	0906	X		SOL	U	X
	224015-SB-7-18-20	11/29/23	0920	X		SOL	U	X
	224015-SB-7-20-22	11/29/23	0930	X		SOL	U	X
	224015-SB-7-22-24	11/29/23	0932	X		SOL	U	X
	224015-SB-7-24-26	11/29/23	0934	X		SOL	U	X

Comments: *Level 4 deliverable requested*
Additional volume included w/ sample 224015-SB-6-26-28 to be used for MS/MSD

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

¹ **Matrix Codes:**
GW = Ground Water
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H = HCL
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³ **Container Codes:**
A = Amber Glass
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V = Vial
S = Summa Canister
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Relinquished by: (signature)	Date/Time: 12/1/23 12:15
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS
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☐ NY TOGS
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Deliverables
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☐ NY Regs Hits-Only EDD

Other:

NELAC and AIHA-LAP, LLC Accredited

Other:
Project Entity
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Other
☐ Chromatogram
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Pace Analytical

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https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 269 W. Jefferson St. Syracuse, NY
Phone: (315) 225-7988
Project Name: Empire Electric
Project Location: Brooklyn, NY
Project Number: 1602519/0002
Project Manager: Chris Sanson
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: Grant Reeder, Lincoln Backman-Lowe

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: csanson@eaest.com
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8082 - PCBs												# of Containers / [2] Preservation Code / [3] Container Code
	224015-SB-7-26-28	11/29/23	0936	X		SOL	U	X												
	224015-SB-7-28-30	11/29/23	0938	X		SOL	U	X												
	224015-SB-8-18-20	11/30/23	1010	X		SOL	U	X												
	224015-SB-8-20-22	11/30/23	1020	X		SOL	U	X												
	224015-SB-8-22-24	11/30/23	1022	X		SOL	U	X												
	224015-SB-8-24-26	11/30/23	1024	X		SOL	U	X												
	224015-SB-8-26-28	11/30/23	1026	X		SOL	U	X												
	224015-SB-8-28-30	11/30/23	1028	X		SOL	U	X												
	224015-SB-FD-01	11/29/23	—	X		SOL	U	X												
	224015-SB-FD-02	11/29/23	—	X		SOL	U	X												

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
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H = HCL
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N = Nitric Acid
S = Sulfuric Acid
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[3] **Container Codes:**
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Comments: * Level 4 deliverable requested *

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Received by: (signature)	Date/Time:
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Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
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☐ Non Soxhlet

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CLP Like Data Pkg Required: ☐
Email To: csanson@eaest.com
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8082-PCBs	RCRA 8 TCLP, 8270 TCLP	8081 TCLP	8260 TCLP ZHE	8321 TCLP/8151 TCLP	6010 Metals TCLP	Percent Solids SM25540G
	224015-SB-FD-03	11/29/23	—	X		SOL	U	X						
	224015-IDW-1	11/30/23	10:55	X		SOL	U		X	X	X	X	X	X

# of Containers	1	1	1	3	1	2	1
[2] Preservation Code	I	I	I	MB	I	I	I
[3] Container Code	A	A	A	G	A	A	A

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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Comments: *Level 4 deliverable requested*

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Deliverables
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